

West Des Moines, IA

PROJECT: Kossuth Co, FY25 Env Comp, IA 27223408.25      DATE: 2/19/2025

SUBJECT: Kossuth County Sanitary Landfill - 55-SDP-01-75C - 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report      TRANSMITTAL ID: 00003

PURPOSE: For your approval      VIA: Info Exchange

FROM

| NAME                               | COMPANY       | EMAIL                  | PHONE           |
|------------------------------------|---------------|------------------------|-----------------|
| Nathan Ohrt<br>West Des Moines, IA | SCS Engineers | NOhrt@scsengineers.com | +1-515-415-9220 |

TO

| NAME                            | COMPANY | EMAIL                       | PHONE |
|---------------------------------|---------|-----------------------------|-------|
| Geoffrey Spain<br>United States |         | geoffrey.spain@dnr.iowa.gov |       |

REMARKS: Good afternoon Geoff-

SCS Engineers, on behalf of the Kossuth County Waste Management Association, is submitting the 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report for the Kossuth County Sanitary Landfill. If you have any questions or comments regarding this report, please contact me at the number below. Thank you.

Nathan Ohrt  
Senior Project Professional  
SCS Engineers  
West Des Moines, Iowa  
319-331-9613 (M)  
[nohrt@scsengineers.com](mailto:nohrt@scsengineers.com)

[www.scsengineers.com](http://www.scsengineers.com)

# Transmittal

DATE: 2/19/2025  
TRANSMITTAL ID: 00003

## DESCRIPTION OF CONTENTS

| QTY | DATED     | TITLE  | NOTES |
|-----|-----------|--|-------|
| 1   | 2/19/2025 | Kossuth County Sanitary Landfill - 55-SDP-01-75C - 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report.pdf |       |

## COPIES:

Nathan Ohrt (SCS Engineers)  
dmiller@kossuthcounty.iowa.go  
v  
Jeff Phillips (SCS Engineers)  
Becky Jolly

February 19, 2025  
File No. 27223408.25

Mr. Geoff Spain  
Iowa Department of Natural Resources  
Land Quality Bureau  
6200 Park Avenue  
Des Moines, Iowa 50321

Subject: 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report  
Kossuth County Sanitary Landfill  
Permit No. 55-SDP-01-75C

Dear Geoff:

SCS Engineers, on behalf of Kossuth County, has completed the required statistical evaluation for the closed Kossuth County Sanitary Landfill (Landfill) for the year 2024. Services were performed in general accordance with Iowa Administrative Code (IAC) 567-113.10 and the current requirements for implementation of the Hydrologic Monitoring System Plan for the Landfill. Please find enclosed a copy of the 2024 Annual Water Quality Report.

Additionally, evaluations of the leachate control system and gas monitoring results for the Landfill are included in accordance with the 2002 IAC 567-113.26(2)"l" and 113.26(15)"b," respectively. The 2024 Leachate Control System Performance Evaluation Report and 2024 Landfill Gas Annual Report are included as appendices to the Annual Water Quality Report.

If you have any questions regarding these reports, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,



Nathan Ohrt  
Senior Project Professional  
SCS Engineers



Timothy C. Buelow, P.E.  
Senior Project Advisor  
SCS Engineers

NPO/TCB

Copies: Mr. Doug Miller, P.E. – Kossuth County



# 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report

Kossuth County Sanitary Landfill  
Burt, Iowa  
Solid Waste Permit No. 55-SDP-01-75C

Prepared for:

Kossuth County

**SCS ENGINEERS**

27223408.25 | February 2025

1690 All-State Ct Ste 100  
West Des Moines, IA 50265  
515-631-6160



## Table of Contents

| Section   | Page       |
|---|------------|
| <b>Certification</b> .....                                    | <b>iii</b> |
| <b>Executive Summary</b> .....                                | <b>iv</b>  |
| <b>Acronyms/Abbreviations</b> .....                           | <b>v</b>   |
| <b>1.0 Site Background</b> .....                              | <b>6</b>   |
| 1.1 Site Location .....                                       | 6          |
| 1.2 Facility .....  | 6          |
| 1.3 Geology and Hydrogeology of the Site .....                | 6          |
| <b>2.0 Figures Discussion</b> .....                           | <b>6</b>   |
| 2.1 Figure 1 – Approved Monitoring Network .....              | 6          |
| 2.2 Figure 2 – Groundwater Contours .....                     | 7          |
| 2.3 Figure 3 – Reporting Period Detection Summary .....       | 7          |
| 2.4 Figure 4 – cis-1,2-Dichloroethene Concentration Map ..... | 7          |
| 2.5 Figure 5 – Vinyl Chloride Concentration Map .....         | 7          |
| <b>3.0 Standards History Graphs</b> .....                     | <b>7</b>   |
| <b>4.0 QA/QC Summary</b> .....                                | <b>7</b>   |
| <b>5.0 Data Evaluation and Summary</b> .....                  | <b>8</b>   |
| 5.1 Data Evaluation .....                                     | 8          |
| 5.2 Landfill Gas Monitoring Summary .....                     | 9          |
| <b>6.0 Recommendations</b> .....                              | <b>9</b>   |
| 6.1 Site Impact on Groundwater .....                          | 9          |
| 6.2 Proposed Monitoring .....                                 | 9          |
| 6.3 Proposed Monitoring Well Changes .....                    | 9          |

## Tables

|          |  |
|----------|--|
| Table 1  | Monitoring Program Summary   |
| Table 2  | Monitoring Program Implementation Schedule                         |
| Table 3  | Monitoring Well Maintenance and Performance Re-Evaluation Schedule |
| Table 4  | Monitoring Well Performance and Maintenance Summary                |
| Table 5  | Background and GWPS Summary  |
| Table 6  | Summary of Well/Detected Constituent Pairs with No Previous SSIs   |
| Table 7  | Summary Table of Ongoing and Newly Identified SSIs                 |
| Table 8  | Summary Table of Ongoing and Newly Identified SSLs                 |
| Table 9  | Summary of Groundwater Chemistry                                   |
| Table 10 | Historical SSIs and SSLs   |
| Table 11 | Corrective Action Trend Analysis                                   |

## Figures

|          |  |
|----------|--|
| Figure 1 | Approved Monitoring Network              |
| Figure 2 | Groundwater Contours                     |
| Figure 3 | Reporting Period Detection Summary       |
| Figure 4 | Cis-1,2-Dichloroethene Concentration Map |
| Figure 5 | Vinyl Chloride Concentration Map         |

## Appendices

|              |  |
|--------------|--|
| Appendix A   | Field Sampling Forms                                       |
| Appendix B-1 | Laboratory Analytical Data Sheets                          |
| Appendix B-2 | Data Validation Documentation                              |
| Appendix C   | Summary of Groundwater Chemistry                           |
| Appendix D   | Statistical Method and Output                              |
| Appendix E   | 2024 Leachate Control System Performance Evaluation Report |
| Appendix F   | 2024 Landfill Gas Annual Report                            |
| Appendix G   | Standards History Graphs                                   |

# CERTIFICATION

Prepared by: Nathan Ohrt

Date: 2/19/2025

Typed: Nathan Ohrt


Reviewed by: Timothy C. Buelow

Date: 2/19/2025

Typed: Timothy C. Buelow, P.E.

Certification page (PE or groundwater scientist signature) **113.10(1)"d"**

For the purposes of this rule, a "qualified groundwater scientist" means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.

|   |   |
|---|---|
|  | <p>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.</p> <p><u>Timothy C. Buelow</u> Date: <u>2/19/2025</u><br/>Timothy C. Buelow, P.E.</p> <p>License No. 14445</p> <p>My license renewal date is December 31, 2025.</p> <p>Pages or sheets covered by this seal:<br/>All except Appendix B-1.</p> <p>_____</p> <p>_____</p> |
|---|---|

# EXECUTIVE SUMMARY

## ES.1 Period of Report Coverage

SCS Engineers (SCS), on behalf of Kossuth County, has completed the required statistical evaluation of groundwater data collected for the closed Kossuth County Sanitary Landfill (Landfill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results for the year 2024. This AWQR was prepared in accordance with the requirements of Iowa Administrative Code (IAC) 567-113.10(5 and 6), the Landfill closure permit and applicable amendments, and current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

## ES.2 Report Priority

The following summarizes the priorities associated with groundwater compliance at the Landfill:

- 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: None.

## ES.3 Site Status and Applicable Rules

- Landfill Status: Closed.
- Types of waste accepted: None, landfill closed.
- Applicable IAC rules: The closure permit was issued on August 12, 2008 (Doc #28512) in accordance with the 2002 IAC Chapter 113. A variance request approved on December 9, 2013 (Doc #78926) replaced the requirements of IAC 567-113.2(5), 113.2(5)"d", and 113.2(5)"e" with the requirements of 567-113.10. In addition, the December 9, 2013 variance approval replaced the requirements in IAC 567-113.21 (effective January 15, 2003) for the Monitoring Well Maintenance and Performance Reevaluation Plan with the requirements in the current IAC 567-113.10(2)"f".

## ES.4 Comments

- Previously reported statistically significant levels (SSLs) above the groundwater protection standards (GWPS) for cis-1,2-dichloroethene and vinyl chloride for monitoring well MW-22B remained during this reporting period. The lower confidence limit for cis-1,2-dichloroethene was below the GWPS during the 2<sup>nd</sup> 2024 statistical evaluation.
- SSLs above background were indicated in monitoring wells MW-18, MW-19, MW-20, MW-22B, MW-23, MW-28, and MWPz-16A. As assessment and corrective action monitoring wells do not require retesting, the indicated SSLs were not confirmed.

## ACRONYMS/ABBREVIATIONS

AWQR = Annual Water Quality Report  
GWPS = Groundwater Protection Standard  
HMSP = Hydrologic Monitoring System Plan  
IAC = Iowa Administrative Code  
MW = Monitoring Well  
PL = Prediction Limit  
QA = Quality Assurance  
QC = Quality Control  
SCS = SCS Engineers  
SSI = Statistically Significant Increase Above Background  
SSL = Statistically Significant Level  
TSS = Total Suspended Solids  
U.S. EPA = United States Environmental Protection Agency  
VOC = Volatile Organic Compound

## 1.0 SITE BACKGROUND

### 1.1 SITE LOCATION

The Kossuth County Sanitary Landfill (Landfill) property is depicted on **Figure 1**, Approved Monitoring Network. The Landfill is located 1.5 miles southeast of Burt, Iowa in a portion of the SE  $\frac{1}{4}$  of Section 30, T79N, R28W, in Kossuth County, Iowa.

### 1.2 FACILITY

The Landfill began operation in 1975. The Landfill accepted municipal solid waste and construction and demolition waste from its service area. The Landfill was closed and the final cap was installed in 2008. Since closure, waste has been transferred to Central Disposal Systems, Inc. in Lake Mills, Iowa, for disposal. The Landfill closure permit was issued on August 12, 2008 (Doc #28512).

### 1.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

The geology and hydrogeology of the Landfill were summarized in the 2022 AWQR, dated January 9, 2022 (Doc #105522), prepared by MER Engineering, Inc.

*The current HMSP for the Kossuth County Sanitary Landfill was approved on February 13, 1995. Soils at the landfill site are predominately glacial till. Borings indicate the surface layer is black clay loam to a depth of about 1 to 2 feet. Below this is a 14 to 25-foot layer of brown sandy clay loam. Below this is a gray clay loam. A well log from the Iowa Geological Survey for a location  $\frac{1}{2}$  mile southwest of the landfill shows Devonian Dolomite at a depth of 200 feet. Four other well logs within a three-mile radius of the landfill show bedrock at depths of about 100 to 200 feet. Further information on site geology is available in a 1974 report prepared by Otto Engineering.*

*Groundwater levels and direction of groundwater flow are influenced by nearby waterways including the East Fork of the Des Moines River, a drainage ditch, and a small unnamed stream. The river is located to the east of the landfill property. The drainage ditch is located along the north and west sides of the property and is about 10-15 feet deep. The unnamed stream meanders across the south half of the landfill property and flows northwest to southeast. The stream is a tributary of the river and originates approximately one mile west of the landfill site near the City of Burt's wastewater treatment lagoon. Treated effluent from the City's lagoon is discharged to the stream. Additional information about the landfill is included in the facilities Operational Plan, Hydrologic Monitoring System Plan (HMSP), and Leachate Control Plan.*

## 2.0 FIGURES DISCUSSION

The following figures are attached.

### 2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and HMSP monitoring network are depicted in **Figure 1**.

## 2.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured by SCS during the May 2024 sampling event is included in **Figure 2**. **Figure 2** indicates flow towards the creek transecting the Landfill, generally in a south-southwest direction north of the creek and a northeast direction south of the creek. There is a component of flow more directly to the east near the eastern boundary of the Landfill. This is similar to the general flow direction depicted in historical groundwater contour maps.

## 2.3 FIGURE 3 – REPORTING PERIOD DETECTION SUMMARY

**Figure 3** shows the range of measured concentrations by monitoring point for the monitoring wells during this reporting period. Further discussion of the detected constituents is included in **Section 5.0 – Data Evaluation and Summary** of this report.

## 2.4 FIGURE 4 – CIS-1,2-DICHLOROETHENE CONCENTRATION MAP

**Figure 4** shows that the monitoring wells surrounding SSL monitoring well monitoring well MW-22B did not have a quantified detection of cis-1,2-dichloroethene in the most recent four samples.

## 2.5 FIGURE 5 – VINYL CHLORIDE CONCENTRATION MAP

**Figure 5** shows that the monitoring wells surrounding SSL monitoring well monitoring well MW-22B did not have a quantified detection of vinyl chloride in the most recent four samples.

## 3.0 STANDARDS HISTORY GRAPHS

Standards history graphs for the Appendix I metals are included in **Appendix G**.

The prediction limits were below the GWPS for the included graphs with the exception of arsenic and cobalt. The prediction limit for arsenic has been above the GWPS of 0.01 mg/L consistently since at least 2014. The cobalt prediction limit was above the GWPS of 0.0021 mg/L before 2017 and since 2022.

The prediction limits for arsenic and cobalt are based on indicated, but not confirmed, statistical outliers. Confidence intervals were calculated compared to the statewide standard GWPS of 0.01 mg/L for arsenic and 0.0021 mg/L for cobalt. More information on prediction limits and GWPSs is available in **Table 5**.

## 4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the Landfill follows similar protocols as included in the HMSP. Data validation procedures were performed on analytical results for laboratory quality control samples and a quality assurance assessment of the data was conducted as the data was generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasible with the laboratory method utilized. SCS then conducted QA/QC data validation of the produced data, which included a review of sample handling, analytical sensitivity, blanks, accuracy, and precision. A summary of the laboratory QA/QC

and data validation for the 2024 sampling events can be found in **Appendix B-1**, Laboratory Analytical Data Sheets, and **Appendix B-2**, Data Validation Documentation, respectively.

## 5.0 DATA EVALUATION AND SUMMARY

Detection and assessment/corrective action statistical evaluations in accordance with the requirements of IAC 567-113.10(5) and 113.10(6) were conducted for the groundwater analytical data collected during the May, September, and November 2024 sampling events. The statistical evaluation for samples collected during this reporting period is located in **Appendix D** (Statistical Method and Output) of this report.

### 5.1 DATA EVALUATION

The groundwater monitoring network for the Landfill consists of groundwater monitoring wells located along the downgradient perimeters of the waste boundaries. A map showing the measured concentrations by monitoring well during this reporting period is included in **Figure 3**, Reporting Period Detection Summary.

The 1<sup>st</sup> 2024 semi-annual groundwater sampling event was completed May 22-24, 2024. During the May 2024 sampling event, significantly elevated total suspended solids (TSS) concentrations were measured in monitoring wells MW-12, MW-19, and MWPz-8B2. The inorganic data from these monitoring wells was considered to be not representative of actual aquifer conditions and was not included in the statistical evaluation. Resampling was attempted in November 2024 for the inorganic parameters for monitoring wells MW-12, MW-19, and MWPz-8B2, plus monitoring well MWPz-8A, which did not produce a sample during the May 2024 sampling event. Monitoring wells MW-12 and MWPz-8A did not produce sufficient water for sampling. Samples were successfully collected from monitoring wells MWPz-8B2 and MW-19. The resample from monitoring well MWPz-8B2 was again determined to be not representative due to an elevated TSS concentration, so the inorganic data from the November 2024 resample from monitoring well MWPz-8B2 was removed from statistical consideration. Organic data collected from monitoring wells MW-12 and MW-19 were included in the statistical evaluation. Monitoring wells MWPz-8A and MWPz-8B2 are not analyzed for organic parameters.

Site-wide maximum concentrations for metals and volatile organic compounds (VOCs) were almost entirely measured in corrective action monitoring well MW-22B and assessment monitoring wells MW-18 and MW-19, with lead in assessment monitoring well MW-23 and selenium in monitoring well MW-26 being the only exceptions. VOCs were measured in monitoring wells MW-18, MW-19, MWPz-16A, and MW-22B.

Constituents exceeding their corresponding GWPSs were SSL constituents cis-1,2-dichloroethene and vinyl chloride plus cobalt in corrective action monitoring well MW-22B, arsenic and cobalt in monitoring well MW-19, and cobalt in monitoring well MW-18.

SSLs for cis-1,2-dichloroethane and vinyl chloride remain in monitoring well MW-22B. The lower confidence limit for cis-1,2-dichloroethane was below the GWPS during the 2<sup>nd</sup> 2024 statistical evaluation. The monitoring wells surrounding MW-22B have not had detections of cis-1,2-dichloroethane or vinyl chloride in the historical period of record dating to 2009, indicating the impact is localized near monitoring well MW-22B.



## 5.2 LANDFILL GAS MONITORING SUMMARY

Monitoring of the landfill gas migration was performed quarterly in 2024 by SCS. No action level exceedances of methane were measured during this reporting period.

As stated in The Request for Post-Closure Activities Modification, dated October 12, 2023 (Doc #107915), the monitoring frequency was reduced from quarterly to semi-annually for the monitoring points SW-1, MW-12, MWPz-16A, MW-19, MW-25, MWPz-8A, MW-23, NE corner, SW-2, and NW corner. The facility structures and monitoring points North gas vent, South gas vent, and corrective action monitoring wells MW-22B and MW-28 will continue the quarterly sampling frequency.

A summary of gas monitoring results and monitoring locations are included in **Appendix F**, 2024 Landfill Gas Annual Report.

## 6.0 RECOMMENDATIONS

### 6.1 SITE IMPACT ON GROUNDWATER

- GWPS exceedances for metals were limited, including arsenic and cobalt in monitoring well MW-19 and cobalt in monitoring wells MW-18 and MW-22B.
- VOCs are consistently detected at monitoring wells MWPz-16A, MW-19, and MW-22B.
- SSLs for cis-1,2-dichloroethane and vinyl chloride remain in monitoring well MW-22B. The lower confidence limit for cis-1,2-dichloroethane was below the GWPS during the 2<sup>nd</sup> 2024 statistical evaluation. The monitoring wells surrounding MW-22B have not had detections of cis-1,2-dichloroethene or vinyl chloride in the historical period of record dating to 2009, indicating the impact is localized near monitoring well MW-22B.

### 6.2 PROPOSED MONITORING

Monitoring is proposed to continue in 2025 as summarized in the attached **Table 2**.

### 6.3 PROPOSED MONITORING WELL CHANGES

No monitoring well changes are proposed at this time.

## Tables

**Table 1**  
**Monitoring Program Summary**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Monitoring Well              | Formation <sup>(1)</sup> | Current Monitoring Program | Change for next sampling event | Constituents with SSIs   | Constituents with SSLs                 | Total Number of Samples in Each Monitoring Program since January 1, 2018 |            |                   |
|------------------------------|--------------------------|----------------------------|--------------------------------|--|--|--|------------|-------------------|
|                              |                          |                            |                                |  |  | Detection  | Assessment | Corrective Action |
| <b>HMSP Monitoring Wells</b> |                          |                            |                                |  |  |  |            |                   |
| MW-27                        | Till                     | Background                 | No change                      | Not applicable   | Not applicable                         | 12   |            |                   |
| MWPz-8A                      | Till                     | Background                 | No change                      | Not applicable   | Not applicable                         | 6  |            |                   |
| MWPz-8B2                     | Till                     | Background                 | No change                      | Not applicable   | Not applicable                         | 8  |            |                   |
| MW-22A                       | Till                     | Background                 | No change                      | Not applicable   | Not applicable                         | 8  |            |                   |
| MW-22B                       | Till                     | Corrective Action          | No change                      | Acetone, Benzene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Vinyl Chloride | Vinyl Chloride, cis-1,2-Dichloroethene |  |            | 14                |
| MW-23                        | Till                     | Assessment                 | No change                      | None   | None                                   |  | 12         |                   |
| MW-25                        | Till                     | Assessment                 | No change                      | None   | None                                   |  | 12         |                   |
| MW-19                        | Till                     | Assessment                 | No change                      | Arsenic, Barium, Nickel, 1,1-Dichloroethane, Acetone                               | None                                   |  | 13         |                   |
| MWPz-16A                     | Till                     | Assessment                 | No change                      | 1,1-Dichloroethane, cis-1,2-Dichloroethene   | None                                   |  | 12         |                   |
| MW-12                        | Till                     | Detection                  | No change                      | None   | Not applicable                         | 10   |            |                   |
| MW-18                        | Till                     | Assessment                 | No change                      | Barium, Cobalt, Acetone, Toluene   | None                                   |  | 10         |                   |
| MW-26                        | Till                     | Detection                  | No change                      | None   | Not applicable                         |  | 14         |                   |
| MW-20                        | Till                     | Assessment                 | No change                      | None   | None                                   |  | 12         |                   |
| MW-28                        | Till                     | Corrective Action          | No change                      | None   | None                                   |  |            | 14                |

Notes:

(1) Obtained from 2022 Annual Water Quality Report (Doc #105522).

SSI = Statistically Significant Increase above background.

SSL = Statistically Significant Level above a groundwater protection standard.

**Table 2**  
**Monitoring Program Implementation Schedule**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Monitoring Well | Recent Sampling Dates and Constituents |                                     |                                     | Upcoming Sampling Dates and Constituents  |   | Full Appendix II Sample Dates                 |                |
|-----------------|--|-------------------------------------|-------------------------------------|---|---|---|----------------|
|                 | May 2024<br>Semi-Annual Event          | September 2024<br>Semi-Annual Event | November 2024<br>Resample           | 1 <sup>st</sup> 2025<br>Semi-Annual Event | 2 <sup>nd</sup> 2025<br>Semi-Annual Event | Previously Collected                          | Next Event     |
| MW-27           | Metals list, TSS                       | -                                   | -                                   | -   | Metals list, TSS                          | 10/27/2009, 5/14/2013                         | Not applicable |
| MWPz-8A         | TSS                                    | -                                   | Not sampled<br>(insufficient water) | -   | Metals list, TSS                          | 3/17/2009, 5/13/2013                          | Not applicable |
| MWPz-8B2        | Metals list, TSS                       | -                                   | Metals list, TSS                    | -   | Metals list, TSS                          | Not applicable                                | Not applicable |
| MW-22A          | Metals list, TSS                       | -                                   | -                                   | -   | Metals list, TSS                          | 3/17/2009, 5/13/2013                          | Not applicable |
| MW-22B          | Appendix I, TSS                        | Appendix I, TSS                     | -                                   | Appendix I, TSS                           | Appendix I, TSS                           | 7/10/2009, 5/13/2013,<br>5/14/2018, 5/22/2023 | 2028           |
| MW-23           | Metals list, TSS,<br>Appendix I VOCs   | -                                   | -                                   | -   | Metals list, TSS,<br>Appendix I VOCs      | 7/10/2009, 5/13/2013,<br>5/14/2018, 5/22/2023 | 2028           |
| MW-25           | Metals list, TSS,<br>Appendix I VOCs   | -                                   | -                                   | -   | Metals list, TSS,<br>Appendix I VOCs      | 7/10/2009, 5/13/2013,<br>5/14/2018, 5/22/2023 | 2028           |
| MW-19           | Metals list, TSS,<br>Appendix I VOCs   | -                                   | Metals list, TSS                    | -   | Metals list, TSS,<br>Appendix I VOCs      | 4/28/2010, 6/24/2014,<br>5/14/2018, 5/22/2023 | 2028           |
| MWPz-16A        | Metals list, TSS,<br>Appendix I VOCs   | -                                   | -                                   | -   | Metals list, TSS,<br>Appendix I VOCs      | 3/17/2009, 5/13/2013,<br>5/14/2018, 5/22/2023 | 2028           |
| MW-12           | Metals list, TSS,<br>Appendix I VOCs   | -                                   | Not sampled<br>(insufficient water) | -   | Metals list, TSS,<br>Appendix I VOCs      | 1/13/2011, 5/14/2013                          | Not applicable |
| MW-18           | Metals list, TSS,<br>Appendix I VOCs   | -                                   | -                                   | -   | Metals list, TSS,<br>Appendix I VOCs      | 1/13/2011, 5/14/2013,<br>5/14/2018, 5/23/2023 | 2028           |
| MW-26           | Appendix I, TSS                        | Appendix I, TSS                     | -                                   | Appendix I, TSS                           | Appendix I, TSS                           | 3/17/2009, 5/13/2013                          | Not applicable |
| MW-20           | Metals list, TSS,<br>Appendix I VOCs   | -                                   | -                                   | -   | Metals list, TSS,<br>Appendix I VOCs      | 4/28/201, 5/14/2013,<br>5/14/2018, 5/23/2023  | 2028           |
| MW-28           | Appendix I, TSS                        | Appendix I, TSS                     | -                                   | Appendix I, TSS                           | Appendix I, TSS                           | 5/23/2023                                     | 2028           |

Notes:

TSS - Total Suspended Solids.

"Metals list" includes arsenic, barium, cadmium, cobalt, lead, nickel, selenium, and zinc.

**Table 3**  
**Monitoring Well Maintenance and Performance Re-Evaluation Schedule**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Compliance with:   | 2022      | 2023      | 2024     | 2025      | 2026      |
|--|-----------|-----------|----------|-----------|-----------|
| 567 IAC 113.10(2)"f"(1) high and low water levels                        |           | Completed | Included | Scheduled | Scheduled |
| 567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths |           | Completed | Included | Scheduled | Scheduled |
| 567 IAC 113.10(2)"f"(3) well depths                                      | Completed | Completed | Included | Scheduled | Scheduled |
| 567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)     |           | Completed |          | Scheduled |           |
| Waste separation from groundwater 113.6(2)i                              | NA        | NA        | NA       | NA        | NA        |

Comments: None.

NA - Not applicable. Waste/groundwater separation is not applicable to this facility.

**Table 4**  
**Monitoring Well Performance and Maintenance Summary**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Well     | Top of Casing | Top of Screen | Total Depth |                                | Date of Measurements |                | Maximum Depth Discrepancy (ft) |
|----------|---------------|---------------|-------------|--------------------------------|----------------------|----------------|--------------------------------|
|          |               |               |             |                                | May 2024             | September 2024 |                                |
| MW-27    | 1133.69       | 1121.30       | 27.3        | Groundwater Level (ft)         | 6.90                 | NM             | 1.0                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1126.79              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 26.3                 | NM             |                                |
|          |               |               |             | Submerged screen               | Y                    | NM             |                                |
| MWPz-8A  | 1187.71       | 1171.20       | 21.5        | Groundwater Level (ft)         | 18.24                | NM             | 0.8                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1169.47              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 20.7                 | NM             |                                |
|          |               |               |             | Submerged screen               | N                    | NM             |                                |
| MWPz-8B2 | 1186.93       | 1135.53       | 71.4        | Groundwater Level (ft)         | 62.38                | NM             | -0.5                           |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1124.55              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 71.9                 | NM             |                                |
|          |               |               |             | Submerged screen               | N                    | NM             |                                |
| MW-22A   | 1180.01       | 1124.61       | 65.4        | Groundwater Level (ft)         | 54.81                | NM             | 1.1                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1125.20              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 64.3                 | NM             |                                |
|          |               |               |             | Submerged screen               | Y                    | NM             |                                |
| MW-22B   | 1180.24       | 1170.24       | 25.0        | Groundwater Level (ft)         | 10.96                | 13.30          | -0.5                           |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1169.28              | 1166.94        |                                |
|          |               |               |             | Measured Well Depth (ft)       | 25.2                 | 25.5           |                                |
|          |               |               |             | Submerged screen               | N                    | N              |                                |
| MW-23    | 1173.03       | 1161.63       | 31.4        | Groundwater Level (ft)         | 17.58                | NM             | 0.0                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1155.45              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 31.4                 | NM             |                                |
|          |               |               |             | Submerged screen               | N                    | NM             |                                |
| MW-25    | 1167.98       | 1157.98       | 25.0        | Groundwater Level (ft)         | 6.00                 | NM             | -0.3                           |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1161.98              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 25.3                 | NM             |                                |
|          |               |               |             | Submerged screen               | Y                    | NM             |                                |
| MW-19    | 1165.95       | 1128.95       | 47.0        | Groundwater Level (ft)         | 38.54                | NM             | -0.8                           |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1127.41              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 47.8                 | NM             |                                |
|          |               |               |             | Submerged screen               | N                    | NM             |                                |
| MWPz-16A | 1164.98       | 1141.02       | 26.5        | Groundwater Level (ft)         | 8.68                 | NM             | 1.9                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1156.30              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 24.6                 | NM             |                                |
|          |               |               |             | Submerged screen               | Y                    | NM             |                                |
| MW-12    | 1159.70       | 1119.39       | 43.3        | Groundwater Level (ft)         | 35.69                | NM             | 0.2                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1124.01              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 43.1                 | NM             |                                |
|          |               |               |             | Submerged screen               | Y                    | NM             |                                |
| MW-18    | 1136.42       | 1126.62       | 19.8        | Groundwater Level (ft)         | 11.24                | NM             | -0.3                           |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1125.18              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 20.1                 | NM             |                                |
|          |               |               |             | Submerged screen               | N                    | NM             |                                |
| MW-26    | 1138.72       | 1125.22       | 23.5        | Groundwater Level (ft)         | 10.25                | 17.32          | 0.5                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1128.47              | 1121.40        |                                |
|          |               |               |             | Measured Well Depth (ft)       | 23.0                 | 23.2           |                                |
|          |               |               |             | Submerged screen               | Y                    | N              |                                |
| MW-20    | 1129.19       | 1119.59       | 19.6        | Groundwater Level (ft)         | 4.10                 | NM             | 0.7                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1125.09              | NA             |                                |
|          |               |               |             | Measured Well Depth (ft)       | 18.9                 | NM             |                                |
|          |               |               |             | Submerged screen               | Y                    | NM             |                                |
| MW-28    | 1185.00       | 1178.50       | 25.0        | Groundwater Level (ft)         | 9.18                 | 11.48          | 0.4                            |
|          |               |               |             | Groundwater Elevation (Ft MSL) | 1175.82              | 1173.52        |                                |
|          |               |               |             | Measured Well Depth (ft)       | 24.6                 | 24.7           |                                |
|          |               |               |             | Submerged screen               | N                    | N              |                                |

NA - Not Applicable  
 NM - Not Measured

Measured well depths were within 1.9 feet of the installed depths. Although some wells failed to produce samples during this reporting period, it is likely the dry weather conditions were the predominant factor rather than siltation affecting the functionality of the monitoring wells.

**Table 5**  
**Background and GWPS Summary**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

**Interwell Background/GWPS (MWPz-8A, MWPz-8B2, MW-22A, MW-27)**

| Constituent       | Units | Samples | Detections | Min              | Max             | Mean    | Background Level | Statistical Test | GWPS   | Source |
|-------------------|-------|---------|------------|------------------|-----------------|---------|------------------|------------------|--------|--------|
| <b>Inorganics</b> |       |         |            |                  |                 |         |                  |                  |        |        |
| Antimony (Sb)     | mg/L  | 65      | 0          | 0.0005 (1/2 RL)  | 0.003 (1/2 RL)  | 0.00105 | < 0.006          | DQR              | 0.006  | MCL    |
| Arsenic (As)      | mg/L  | 84      | 37         | 0.0005 (1/2 RL)  | 0.0436          | 0.00413 | 0.0436           | PL (NP)          | 0.01   | MCL    |
| Barium (Ba)       | mg/L  | 84      | 84         | 0.029            | 0.744           | 0.12310 | 0.3701           | PL (P)           | 2      | MCL    |
| Beryllium (Be)    | mg/L  | 69      | 0          | 0.0005 (1/2 RL)  | 0.0005 (1/2 RL) | 0.00050 | < 0.001          | DQR              | 0.004  | MCL    |
| Cadmium (Cd)      | mg/L  | 84      | 27         | 0.00005 (1/2 RL) | 0.00563         | 0.00044 | 0.00398          | PL (NP)          | 0.005  | MCL    |
| Chromium (Cr)     | mg/L  | 66      | 0          | 0.0025 (1/2 RL)  | 0.01 (1/2 RL)   | 0.00398 | < 0.02           | DQR              | 0.1    | MCL    |
| Cobalt (Co)       | mg/L  | 68      | 12         | 0.00025 (1/2 RL) | 0.0124          | 0.00144 | 0.01             | PL (NP)          | 0.0021 | SWS    |
| Copper (Cu)       | mg/L  | 79      | 3          | 0.001 (1/2 RL)   | 0.0345          | 0.00534 | 0.0345           | PL (NP)          | 1.3    | MCL    |
| Lead (Pb)         | mg/L  | 79      | 9          | 0.00025 (1/2 RL) | 0.0134          | 0.00112 | 0.00802          | PL (NP)          | 0.015  | MCL    |
| Nickel (Ni)       | mg/L  | 68      | 6          | 0.0025 (1/2 RL)  | 0.249           | 0.01061 | 0.025            | PL (NP)          | 0.1    | SWS    |
| Selenium (Se)     | mg/L  | 74      | 7          | 0.0025 (1/2 RL)  | 0.0224          | 0.00307 | 0.00904          | PL (NP)          | 0.05   | MCL    |
| Silver (Ag)       | mg/L  | 65      | 0          | 0.0005 (1/2 RL)  | 0.01 (1/2 RL)   | 0.00225 | < 0.02           | DQR              | 0.1    | SWS    |
| Thallium (Tl)     | mg/L  | 65      | 0          | 0.0005 (1/2 RL)  | 0.001 (1/2 RL)  | 0.00059 | < 0.002          | DQR              | 0.002  | MCL    |
| Vanadium (V)      | mg/L  | 65      | 0          | 0.0025 (1/2 RL)  | 0.025 (1/2 RL)  | 0.00665 | < 0.05           | DQR              | 0.035  | SWS    |
| Zinc (Zn)         | mg/L  | 84      | 18         | 0.005 (1/2 RL)   | 0.0836          | 0.01701 | 0.0836           | PL (NP)          | 2      | SWS    |

Notes:

- 1) The "Detections" column includes both quantified detections and J flag (estimated) concentrations.
- 2) Background levels based on calculated prediction limits or reporting limit, as applicable.
- 3) \* -The background standards for arsenic and cobalt are based on indicated, but not confirmed, statistical outliers. Confidence intervals were calculated compared to the statewide standard GWPS of 0.01 mg/L for arsenic and 0.0021 mg/L for cobalt.
- 4) Water quality results and effectiveness of the statistical data evaluation criteria: Statistical evaluations consist of prediction limits, the double quantification rule, and confidence intervals/confidence bands, as appropriate. Data from the background wells are not used for development of the confidence intervals or confidence bands.
- 5) Changes to the previous statistical method during reporting period: There were no changes to the statistical method during this reporting period.
- 6) Re-sampling strategy: Retesting is performed on a 1-of-2 scheme.
- 7) Justification for data exclusion: Confirmed outliers are excluded from statistical consideration and noted in the Summary of Groundwater Chemistry.

Acronyms/Abbreviations:

GWPS = Groundwater Protection Standard

RL = Reporting Limit

PL = Prediction Limit

DQR = Double Quantification Rule

NP = Non-Parametric

SSS = Site-Specific GWPS

P = Parametric

SWS = Statewide Standard

MCL = EPA Maximum Contaminant Level

**Table 6**  
**Summary of Well/Detected Constituent Pairs With No Previous SSIs**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Well  | Constituent | Units | Most Recent Result | Background Standard |
|-------|-------------|-------|--------------------|---------------------|
| MW-18 | Barium      | mg/L  | 0.423              | 0.3701              |
|       | Cobalt      | mg/L  | 0.0367             | 0.01                |
|       | Toluene     | µg/L  | 7.72               | <1                  |
| MW-19 | Nickel      | mg/L  | 0.0311             | 0.025               |
|       | Acetone     | µg/L  | 24.3               | <10                 |

Notes:

1) This table represents constituent/well pairs with indicated SSIs during the 2024 reporting period that did not have indicated SSIs during the 2023 reporting period.

Comments:

- 1) Problems with the current detection network: None.
- 2) Schedule to implement remedies: None.
- 3) Alternative constituent or sample frequency changes: None.
- 4) Significant changes to calculated prediction limits: None.
- 5) Resampling strategy: Retesting is performed on a 1-of-2 retesting scheme.



**Table 7**  
**Summary Table of Ongoing and Newly Identified SSIs**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Well     | Constituent              | Units | Most Recent Result | Background Standard | Lower Confidence Limit | GWPS   | Sample Dates       |             |                                   |
|----------|--------------------------|-------|--------------------|---------------------|------------------------|--------|--------------------|-------------|-----------------------------------|
|          |                          |       |                    |                     |                        |        | Initial Exceedance | Resample(s) | 5 <sup>th</sup> background sample |
| MW-12    | None                     |       |                    |                     |                        |        |                    |             |                                   |
| MW-18    | Barium                   | mg/L  | 0.423              | 0.3701              | 0.0596                 | 2      | 5/22/2024          | NA          | 1/11/20212                        |
|          | Cobalt                   | mg/L  | 0.0367             | 0.01                | 0.00025                | 0.0021 | 5/22/2024          | NA          | 11/10/2024                        |
|          | Acetone                  | µg/L  | 45.7               | <10                 | 5                      | 6300   | 5/22/2023          | NA          | 11/10/2014                        |
|          | Toluene                  | µg/L  | 7.72               | <1                  | 0.5                    | 1000   | 5/22/2024          | NA          | 11/10/2014                        |
| MW-19    | Arsenic                  | mg/L  | 0.13               | 0.0436              | 0.007332               | 0.01   | 5/22/2023          | NA          | 5/4/2015                          |
|          | Barium                   | mg/L  | 1.19               | 0.3701              | 0.7681                 | 2      | 5/22/2023          | NA          | 5/4/2015                          |
|          | Nickel                   | mg/L  | 0.0311             | 0.025               | 0.01809                | 0.1    | 11/6/2024          | NA          | 5/5/2016                          |
|          | 1,1-Dichloroethane       | µg/L  | 3.51               | <1                  | 3.297                  | 140    | 5/14/2018          | NA          | 5/5/2016                          |
|          | Acetone                  | µg/L  | 24.3               | <10                 | 5.815                  | 6300   | 5/22/2024          | NA          | 5/4/2015                          |
| MW-20    | None                     |       |                    |                     |                        |        |                    |             |                                   |
| MW-22B*  | Acetone                  | µg/L  | <10                | <10                 | 5                      | 6300   | 5/22/2023          | 8/10/2023   | 11/10/2014                        |
|          | Benzene                  | µg/L  | 2.38               | <0.5                | 0.9319                 | 5      | 7/10/2009          | NA          | 10/26/2011                        |
|          | cis-1,2-Dichloroethene   | µg/L  | 68.95              | <1                  | 39.44                  | 70     | 7/10/2009          | NA          | 10/26/2011                        |
|          | trans-1,2-Dichloroethene | µg/L  | <1                 | <1                  | 0.9617                 | 100    | 7/10/2009          | NA          | 10/26/2011                        |
|          | Vinyl Chloride           | µg/L  | 7.825              | <1                  | 2.72                   | 2      | 7/10/2009          | NA          | 10/26/2011                        |
| MW-23    | None                     |       |                    |                     |                        |        |                    |             |                                   |
| MW-25    | None                     |       |                    |                     |                        |        |                    |             |                                   |
| MW-26    | None                     |       |                    |                     |                        |        |                    |             |                                   |
| MW-28    | None                     |       |                    |                     |                        |        |                    |             |                                   |
| MWPz-16A | 1,1-Dichloroethane       | µg/L  | 1.7                | <1                  | 1.405                  | 140    | 3/17/2009          | NA          | 10/26/2011                        |
|          | cis-1,2-Dichloroethene   | µg/L  | 2.49               | <1                  | 2.386                  | 70     | 3/17/2009          | NA          | 10/26/2011                        |

Notes:

Shaded rows denote constituent/well pair with SSIs indicated in 2024 but not in 2023. Unshaded rows denote constituent/well pairs with SSIs indicated during both the 2023 and 2024 reporting periods.

\* - Duplicate sample monitoring well during this reporting period, the most recent result concentrations shown are an average of both samples obtained from the monitoring well.

NA- Not applicable. Resampling of constituents with indicated SSIs was not part of the statistical methodology performed based on the current monitoring program for the monitoring well as the monitoring well was in the assessment or corrective action monitoring programs.

Comments:

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

**Table 8**  
**Summary Table of Ongoing and Newly Identified SSLs**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Well    | Constituent            | Units | Most Recent Result | Upper Confidence Limit | GWPS | Initial Exceedance | Upper Confidence Limit Below GWPS |                      |                      |
|---------|------------------------|-------|--------------------|------------------------|------|--------------------|-----------------------------------|----------------------|----------------------|
|         |                        |       |                    |                        |      |                    | 1 <sup>st</sup> Year              | 2 <sup>nd</sup> Year | 3 <sup>rd</sup> Year |
| MW-22B* | cis-1,2-Dichloroethene | µg/L  | 68.95              | 96.32                  | 70   | 2009               | NA                                | NA                   | NA                   |
|         | Vinyl Chloride         | µg/L  | 7.825              | 6.682                  | 2    | 2009               | NA                                | NA                   | NA                   |

Notes:

1) The SSLs in monitoring well MW-22B were previously reported.

2) NA indicates Not Applicable. The constituent-monitoring point dataset has not satisfied the statistical requirements of IAC 567-113.10(9)"e"(2), which is identified by the entire confidence interval or any portion of the confidence band, as appropriate, being below the GWPS.

\* - Duplicate sample monitoring well during this reporting period, the most recent result concentrations shown are an average of both samples obtained from the monitoring well.

**Table 9**  
**Summary of Groundwater Chemistry**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

The Summary of Groundwater Chemistry is located in Appendix C.

**Table 10**  
**Historical SSI and SSL**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

Key

|  |     |
|--|-----|
|  | SSI |
|  | SSL |

| Well           | Constituent              | S    | F    | S    | F    | S    | F    | S    | F    | S    | F    | S    | F    | S    | F    |
|----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                          | pr   | al   | pr   | al   | pr   | al   | pr   | al   | pr   | al   | pr   | al   | pr   | al   |
|                |                          | ing  | l    | ing  | l    | ing  | l    | ing  | l    | ing  | l    | ing  | l    | ing  | l    |
|                |                          | 2018 | 2018 | 2019 | 2019 | 2020 | 2020 | 2021 | 2021 | 2022 | 2022 | 2023 | 2023 | 2024 | 2024 |
| MW-18          | Barium                   |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Cobalt                   |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Selenium                 |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Thallium                 |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Acetone                  |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Toluene                  |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
| MW-19**        | Arsenic                  |      |      |      |      |      |      |      |      |      |      |      | NS   |      |      |
|                | Barium                   |      |      |      |      |      |      |      |      |      |      |      | NS   |      |      |
|                | Cobalt                   |      |      |      |      |      |      |      |      |      |      |      | NS   |      |      |
|                | Lead                     |      |      |      |      |      |      |      |      |      |      |      | NS   |      |      |
|                | Nickel                   |      |      |      |      |      |      |      |      |      |      |      | NS   |      |      |
|                | 1,1-Dichloroethane       |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Acetone                  |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Benzene                  |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Carbon Disulfide         |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
| 4,4-DDD*       |                          |      |      |      |      |      |      |      |      |      |      | NS   | NS   | NS   |      |
| MW-20          | Selenium                 |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | Vanadium                 |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
| MW-22B         | Cobalt                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                | Nickel                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                | Thallium                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                | Acetone*                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                | Benzene                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                | cis-1,2-Dichloroethene   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                | trans-1,2-Dichloroethene |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Vinyl Chloride |                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MW-23          | Barium                   |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
| MW-28          | Thallium                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MWPz-16A       | 1,1-Dichloroethane       |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |
|                | cis-1,2-Dichloroethene   |      |      |      |      |      |      |      |      |      |      |      | NS   |      | NS   |

Notes:

\* - Not confirmed by the August 2023 retesting.

\*\* - Inorganic samples collected in spring 2024 were not representative due to high TSS.

NS - Not sampled. Well is sampled annually.

1) A detection of an organic compound or sulfide is considered an SSI for the purposes of this table.

2) Indicated SSIs for wells in the assessment and corrective action monitoring programs are not confirmed as retesting is not performed for wells in these monitoring programs.

**Table 11**  
**Corrective Action Trend Analysis**  
**2024 Annual Water Quality Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Well   | Current SSL            | Trend      | Calculated S | Critical S | Total N | Projected Date to Completion |
|--------|------------------------|------------|--------------|------------|---------|------------------------------|
| MW-22B | cis-1,2-Dichloroethene | Increasing | 20           | 21         | 8       | NA                           |
|        | Vinyl Chloride         | Increasing | 12           | 21         | 8       | NA                           |

Notes:

N: Number of Samples

S: Mann-Kendall Statistic

NA: Not Applicable; a completion date cannot be calculated with an increasing trend.

## Figures

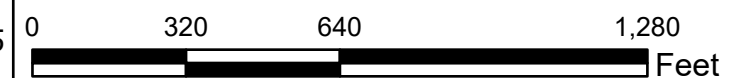
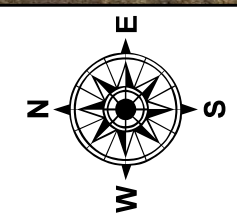




## Approved Monitoring Network

| Legend                   |                               |
|--------------------------|-------------------------------|
| HMSF Monitoring Well     | Leachate Piezometer           |
| Monitoring Well          | Waterway                      |
| Surface Monitoring Point | Approximate Property Boundary |
| Gas Vent                 | Approximate Waste Boundary    |

Kossuth County Sanitary Landfill  
Burt, IA  
Project No: 27223408.25  
Drawing Date: February 2025



**Figure 1**





Date Saved: 2/17/2025 9:27 AM  
 User: jmatson  
 Path: C:\Users\jmatson\OneDrive - SCS Engineers\Desktop\GIS\MapDocs\Kossuth County Landfill\2025 AM\01\KossuthCounty2025

## Groundwater Contours

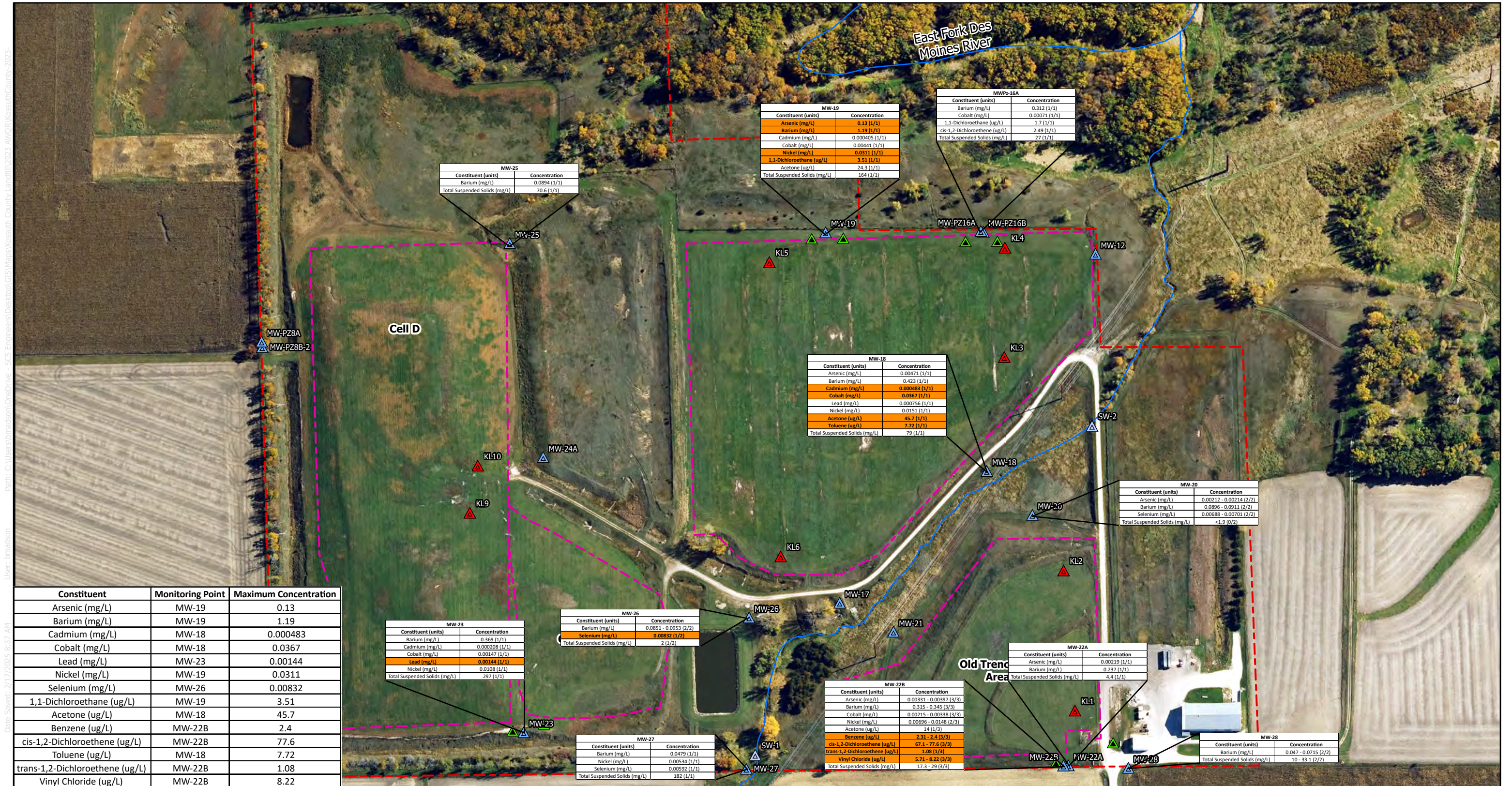
|  |  |  |  |   |  |
|--|--|--|--|---|--|
| <b>Legend</b><br>Approximate Groundwater Contour Based on Field Measurement Taken May 21, 2024<br>     |  | Surface Monitoring Point<br>Gas Vent<br>Leachate Piezometer<br>Monitoring Well<br>Waterway |  | Approximate Property Boundary<br>Approximate Waste Boundary |  |
| Kossuth County Sanitary Landfill<br>Burt, IA<br>Project No: 27223408.25<br>Drawing Date: February 2025 |  |  |  |   |  |
|  |  |  | 0      320      640      1,280<br>Feet |   |  |



**Figure 2**

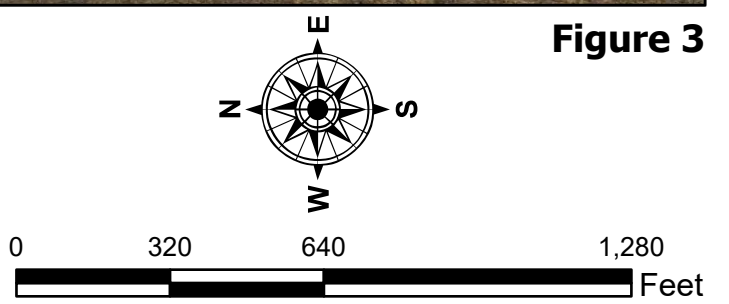
LRI, COIA, COG, EPA, FDOT, GMA, Foursquare, FPO, METI, NASS, UGS, USIA, USIP, Iowa State University GIS Facility





## Reporting Period Detection Summary

|  |  |
|--|--|
| <b>Legend</b><br>Monitoring Well<br>Surface Monitoring Point<br>Gas Vent<br>Leachate Piezometer<br>Waterway<br>Approximate Property Boundary<br>Approximate Waste Boundary | Kossuth County Sanitary Landfill<br>Burt, IA<br>Project No: 27223408.25<br>Drawing Date: February 2025 |
|--|--|



**Figure 3**





Date Saved: 2/17/2025 9:27 AM  
 User: bmatson  
 Path: C:\Users\hansakal\OneDrive - SCS Engineers\Desktop\GIS\MapDocs\Kossuth County Landfill\2025\AMC01\KossuthCounty2025

## Cis-1,2-Dichloroethene Concentration Map



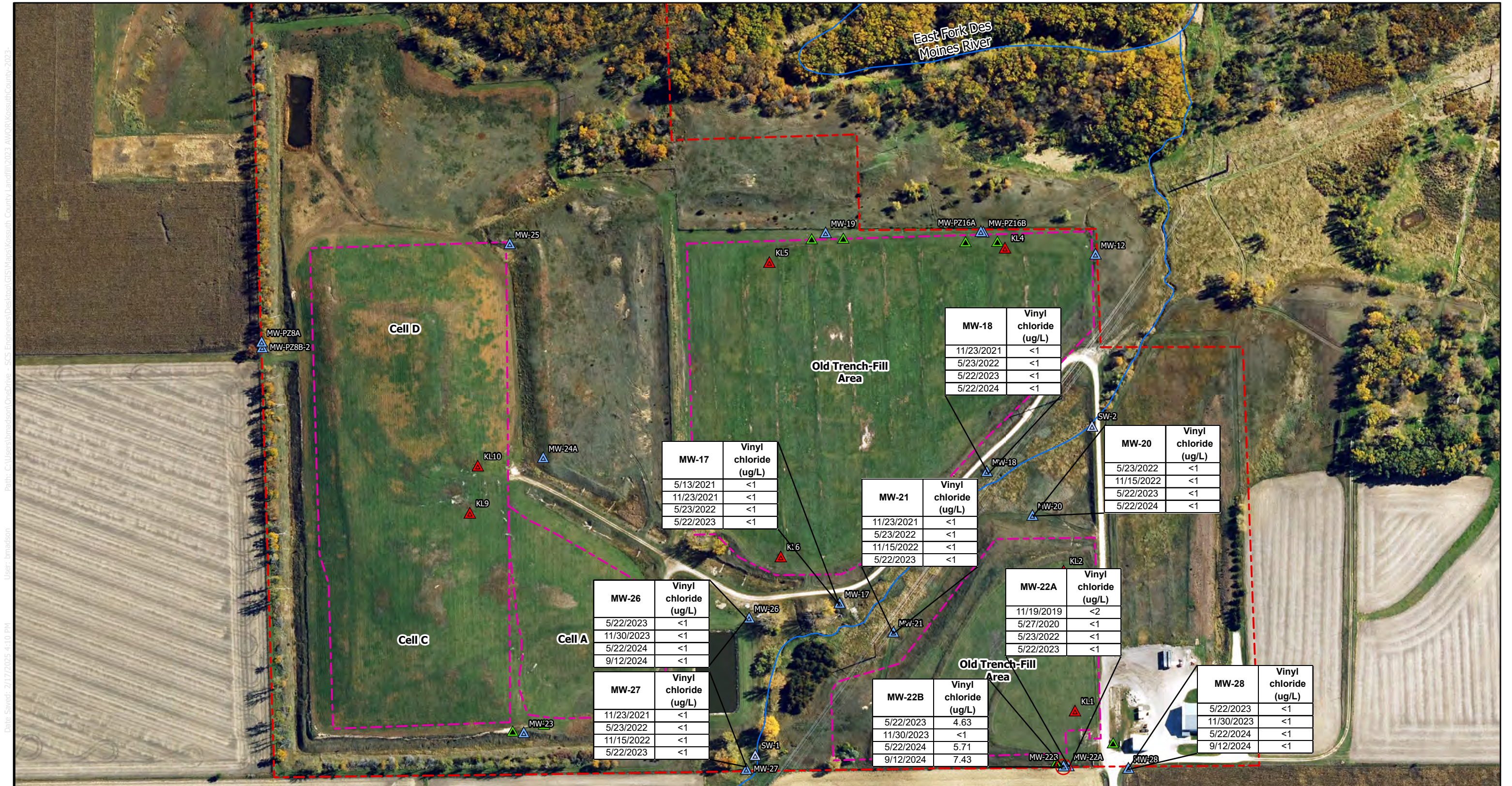
|   |  |   |
|---|--|---|
| <b>Legend</b><br><ul style="list-style-type: none"> <li><span style="color: blue;">▲</span> Monitoring Well</li> <li><span style="color: blue;">△</span> Surface Monitoring Point</li> <li><span style="color: green;">▲</span> Gas Vent</li> <li><span style="color: red;">▲</span> Leachate Piezometer</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: red;">○</span> SSL Well</li> <li><span style="color: blue;">—</span> Waterway</li> <li><span style="border: 1px dashed red; display: inline-block; width: 10px; height: 10px;"></span> Approximate Property Boundary</li> <li><span style="border: 1px dashed magenta; display: inline-block; width: 10px; height: 10px;"></span> Approximate Waste Boundary</li> </ul> | <p style="text-align: center;"><b>cis-1,2-Dichloroethene Prediction Limit = &lt;1 ug/L</b></p> <p style="text-align: center;">Kossuth County Sanitary Landfill<br/>Burt, IA<br/>Project No: 27223408.25<br/>Drawing Date: February 2025</p> |
|---|--|---|

**Figure 4**

0      320      640      1,280  
Feet

LHA, COLIA, CSO, EPA, FmHA, GAMA, Founquan, PAO, MET/NSA, LSCS, USDA NRIS, Iowa State University GIS Facility





Date Saved: 2/17/2025 4:10 PM  
 User: bmatson  
 Path: C:\Users\hansakal\OneDrive - SCS Engineers\Desktop\GIS\Map\Kosuth - County Landfill\2025 AM\01\Kosuth\Crainko-2025



## Vinyl Chloride Concentration Map

|               |                          |   |
|---------------|--------------------------|---|
| <b>Legend</b> |                          | Vinyl Chloride Prediction Limit = <1 ug/L |
|               | Monitoring Well          |   |
|               | Surface Monitoring Point |   |
|               | Gas Vent                 |   |
|               | Leachate Piezometer      |   |

Kossuth County Sanitary Landfill  
 Burt, IA  
 Project No: 27223408.25  
 Drawing Date: February 2025

**Figure 5**

0 320 640 1,280 Feet

LHA, COTAW, COTAW, Engr, Tom Iwan, Gorman, Fourniquier, PAV, METU, NASS, LSCS, USDA, NADP, Iowa State University GIS Facility



**Appendix A**  
**Field Sampling Forms**

### FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-12</b>      | Date: <b>5/23/2024</b>         |
| Gradient: <b>Down</b>                            | Sampler: <b>Michael Morgan</b> |

| 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):                         | 43.1                           |
| Initial Static Water Level (feet):                        | 35.69                          |
| Initial Groundwater Elevation (ft-amsl):                  | 1124.01                        |
| Equipment Used:   | Non-Dedicated Submersible Pump |

| C. WELL PURGING |
|-----------------|
|-----------------|

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                            |                               |  |                         |             |                    |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| Time   | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
| 9:06 AM  | Purging start time.        |                               |  |                         |             |                    |  |
| 9:09 AM  | 12.0                       | 1.3                           | 741.5  | 6.95                    | 90.7        | 190.1              |  |
| 9:12 AM  | 11.8                       | 0.4                           | 742.8  | 6.92                    | 24.3        | 279.5              |  |
| 9:15 AM  | 12.4                       | 0.2                           | 744.1  | 6.94                    | -36.3       | 283.2              |  |
| 9:18 AM  | 13.4                       | 0.3                           | 753.5  | 6.94                    | -48.6       | 232.1              |  |
| 9:21 AM  | 13.8                       | 0.4                           | 751.0  | 6.93                    | -50.6       | 205.5              |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| 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): | 15:00  |
| Average Purge Rate (mL/min):                   | 160.00 |

| D. WELL MAINTENANCE                           |    |
|---|----|
| Does the well require any future maintenance? | No |
| If yes, explain:                              |    |

|                      |  |
|----------------------|--|
| Additional Comments: | Color: Opaque light brown    Odor: None<br>Bailer removed and replaced with 1/2-inch tubing for SS pump. |
|----------------------|--|

**FORM FOR GROUNDWATER SAMPLING**

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-18</b>      | Date: <b>5/24/2024</b>         |
| Gradient: <b>Down</b>                            | Sampler: <b>Michael Morgan</b> |

|                                    |     |
|------------------------------------|-----|
| <b>A. MW/PIEZOMETER CONDITIONS</b> |     |
| Well/Piezometer Capped?            | Yes |
| Litter/Standing Water?             | No  |

|  |                                     |
|--|-------------------------------------|
| <b>B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)</b> |                                     |
| Measured Well Total Depth (feet):                                | 20.1                                |
| Initial Static Water Level (feet):                               | 11.24                               |
| Initial Groundwater Elevation (ft-amsl):                         | 1125.18                             |
| Equipment Used:  | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

**FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES**

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|
| 8:27 AM                                  | Purging start time.        |                               |  |                         |             |                    |
| 8:30 AM                                  | 9.8                        | 1.1                           | 912.2  | 6.60                    | -86.8       | 29.4               |
| 8:33 AM                                  | 9.8                        | 0.3                           | 932.1  | 6.65                    | -103.8      | 31.7               |
| 8:36 AM                                  | 10.1                       | 0.1                           | 940.2  | 6.67                    | -111.1      | 32.9               |
| 8:39 AM                                  | 9.9                        | <0.1                          | 942.9  | 6.68                    | -115.3      | 35.9               |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
| 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 |

|   |                   |
|---|-------------------|
| <b>D. WELL MAINTENANCE</b>                    |                   |
| Does the well require any future maintenance? | Yes               |
| If yes,<br>explain:                           | Requires Peri cap |

|                      |  |
|----------------------|--|
| Additional Comments: | Color: Cloudy gray Odor: Vegetative<br>Bailer removed and replaced with Peri tubing. |
|----------------------|--|

### FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-19</b>      | Date: <b>5/23/2024</b>         |
| Gradient: <b>Down</b>                            | Sampler: <b>Michael Morgan</b> |

**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):                     | 47.8    |
| Initial Static Water Level (feet):                    | 38.54   |
| Initial Groundwater Elevation (ft-amsl):              | 1127.41 |
| Equipment Used: <b>Non-Dedicated Submersible Pump</b> |         |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| 11:32 AM                                 | Purging start time.        |                               |  |                         |             |                    |  |
| 11:35 AM                                 | 14.0                       | 1.2                           | 1555.4   | 6.49                    | -64.6       | 187.2              |  |
| 11:38 AM                                 | 14.4                       | 0.5                           | 1571.1   | 6.55                    | -71.7       | 187.9              |  |
| 11:41 AM                                 | 16.4                       | 0.5                           | 1580.1   | 6.58                    | -76.2       | 149.6              |  |
| 11:44 AM                                 | 16.3                       | 0.4                           | 1609.1   | 6.60                    | -79.7       | 159.7              |  |
| 11:47 AM                                 | 16.9                       | 0.4                           | 1582.8   | 6.64                    | -83.7       | 146.7              |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| Parameters stabilized, sample collected. |                            |                               |  |                         |             |                    |  |

|  |        |
|--|--------|
| Quantity of Water Removed from Well (liters):  | 2.3    |
| Was well pumped/bailed dry?                    | Yes    |
| Total Amount of Time Purged (minutes:seconds): | 15:00  |
| Average Purge Rate (mL/min):                   | 153.33 |

**D. WELL MAINTENANCE**

|   |                        |     |
|---|------------------------|-----|
| Does the well require any future maintenance? |                        | Yes |
| If yes, explain:                              | Well needs a new lock. |     |

|                      |  |
|----------------------|--|
| Additional Comments: | Color: Light orange brown with orange particles (Fe?). Odor: None<br>Bailer removed and 1/2-inch tubing installed for SS pump. |
|----------------------|--|

## FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-20</b>      | Date: <b>5/22/2024</b>         |
| Gradient: <b>Down</b>                            | Sampler: <b>Michael Morgan</b> |

| A. MW/PIEZOMETER CONDITIONS        |  |
|------------------------------------|--|
| Well/Piezometer Capped? <b>Yes</b> |  |
| Litter/Standing Water? <b>No</b>   |  |

| B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL) |                                     |
|---|-------------------------------------|
| Measured Well Total Depth (feet):                         | 18.9                                |
| Initial Static Water Level (feet):                        | 4.10                                |
| Initial Groundwater Elevation (ft-amsl):                  | 1125.09                             |
| Equipment Used:   | Dedicated Tubing – Peristaltic Pump |

### C. WELL PURGING

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                            |                               |  |                         |             |                    |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| Time   | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
| 6:05 PM  | Purging start time.        |                               |  |                         |             |                    |  |
| 6:08 PM  | 11.2                       | 5.9                           | 605.2  | 7.04                    | 0.0         | 29.4               |  |
| 6:11 PM  | 10.7                       | 5.5                           | 577.2  | 7.03                    | 34.8        | 21.1               |  |
| 6:14 PM  | 10.6                       | 5.4                           | 575.5  | 6.97                    | 58.1        | 20.8               |  |
| 6:17 PM  | 10.2                       | 5.3                           | 572.7  | 6.96                    | 73.2        | 19.4               |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| 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<br>Bailer removed and replaced with Peri tubing and cap. No well label, labeled with permanent marker. |
|----------------------|--|



### FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-22A</b>     | Date: <b>5/22/2024</b>         |
| Gradient: <b>Up</b>                              | Sampler: <b>Michael Morgan</b> |

|                                    |  |
|------------------------------------|--|
| <b>A. MW/PIEZOMETER CONDITIONS</b> |  |
| Well/Piezometer Capped? <b>Yes</b> |  |
| Litter/Standing Water? <b>No</b>   |  |

|  |                                |
|--|--------------------------------|
| <b>B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)</b> |                                |
| Measured Well Total Depth (feet):                                | 64.3                           |
| Initial Static Water Level (feet):                               | 54.81                          |
| Initial Groundwater Elevation (ft-amsl):                         | 1125.20                        |
| Equipment Used:  | Non-Dedicated Submersible Pump |

|                        |
|------------------------|
| <b>C. WELL PURGING</b> |
|------------------------|

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                            |                               |  |                         |             |                    |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| Time   | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
| 3:58 PM  | Purging start time.        |                               |  |                         |             |                    |  |
| 4:01 PM  | 12.4                       | 0.3                           | 628.8  | 7.02                    | 38.0        | 10.8               |  |
| 4:04 PM  | 13.5                       | 0.1                           | 639.7  | 7.00                    | 2.5         | 7.7                |  |
| 4:07 PM  | 12.5                       | <0.1                          | 658.3  | 7.00                    | -4.0        | 7.0                |  |
| 4:10 PM  | 12.7                       | <0.1                          | 653.5  | 7.00                    | -4.5        | 7.8                |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| Parameters stabilized, sample collected.                         |                            |                               |  |                         |             |                    |  |

|  |        |
|--|--------|
| Quantity of Water Removed from Well (liters):  | 3.4    |
| Was well pumped/bailed dry?                    | No     |
| Total Amount of Time Purged (minutes:seconds): | 12:00  |
| Average Purge Rate (mL/min):                   | 283.33 |

|   |   |
|---|---|
| <b>D. WELL MAINTENANCE</b>                    |   |
| Does the well require any future maintenance? | No  |
| If yes, explain:                              |   |
| Additional Comments:                          | Color: Clear Odor: None<br>Bailer removed and replaced with 1/2-inch tubing for SS pump |

**FORM FOR GROUNDWATER SAMPLING**

|  |  |                                |  |
|--|--|--------------------------------|--|
| <b>Project:</b> Kossuth County Sanitary Landfill |  |                                |  |
| <b>Monitoring Well/Piezometer ID:</b> MW-22B     |  | <b>Date:</b> 5/22/2024         |  |
| <b>Gradient:</b> Down                            |  | <b>Sampler:</b> Michael Morgan |  |

| <b>A. MW/PIEZOMETER CONDITIONS</b> |     |
|------------------------------------|-----|
| Well/Piezometer Capped?            | Yes |
| Litter/Standing Water?             | No  |

| <b>B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)</b> |                                     |
|--|-------------------------------------|
| Measured Well Total Depth (feet):                                | 25.2                                |
| Initial Static Water Level (feet):                               | 10.96                               |
| Initial Groundwater Elevation (ft-amsl):                         | 1169.28                             |
| Equipment Used:  | Dedicated Tubing – Peristaltic Pump |

| <b>C. WELL PURGING</b> |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|
|------------------------|--|--|--|--|--|--|--|

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                         |                         |  |                      |          |                 |  |
|--|-------------------------|-------------------------|--|----------------------|----------|-----------------|--|
| Time   | Temperature (°C)<br>10% | Dissolved Oxygen (mg/L) | Specific Conductivity (µS/cm)<br>+/- 10% | pH (S.U.)<br>+/- 0.1 | ORP (mV) | Turbidity (FNU) |  |
| 4:56 PM  | Purging start time.     |                         |  |                      |          |                 |  |
| 4:59 PM  | 14.0                    | 0.8                     | 1058.2                                   | 6.41                 | -51.0    | 24.4            |  |
| 5:02 PM  | 13.2                    | 0.2                     | 1059.5                                   | 6.44                 | -55.1    | 24.9            |  |
| 5:05 PM  | 13.2                    | <0.1                    | 1064.2                                   | 6.45                 | -57.4    | 35.1            |  |
| 5:08 PM  | 13.2                    | <0.1                    | 1070.9                                   | 6.46                 | -59.0    | 50.4            |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
| 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 |

| <b>D. WELL MAINTENANCE</b>                    |   |
|---|---|
| Does the well require any future maintenance? | Yes   |
| If yes, explain:                              | Peri cap required for well.   |
| Additional Comments:                          | Color: Clear Odor: None<br>Bailer removed and replaced with Peri tubing |



## FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-25</b>      | Date: <b>5/23/2024</b>         |
| Gradient: <b>Down</b>                            | Sampler: <b>Michael Morgan</b> |

|                                    |  |
|------------------------------------|--|
| <b>A. MW/PIEZOMETER CONDITIONS</b> |  |
| Well/Piezometer Capped? <b>Yes</b> |  |
| Litter/Standing Water? <b>No</b>   |  |

|  |         |
|--|---------|
| <b>B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)</b> |         |
| Measured Well Total Depth (feet):                                | 25.3    |
| Initial Static Water Level (feet):                               | 6.00    |
| Initial Groundwater Elevation (ft-amsl):                         | 1161.98 |
| Equipment Used: <b>Dedicated Tubing – Peristaltic Pump</b>       |         |

**C. WELL PURGING**

| <b>FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES</b> |                            |                               |  |                         |             |                    |  |
|---|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| Time  | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
| 12:51 PM  | Purging start time.        |                               |  |                         |             |                    |  |
| 12:54 PM  | 11.6                       | 5.9                           | 663.9  | 7.18                    | 22.8        | 43.1               |  |
| 12:57 PM  | 11.2                       | 5.4                           | 649.4  | 7.16                    | 46.0        | 50.1               |  |
| 1:00 PM   | 11.2                       | 5.3                           | 643.8  | 7.14                    | 60.9        | 67.6               |  |
| 1:03 PM   | 11.0                       | 5.3                           | 640.6  | 7.15                    | 71.0        | 88.1               |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
|   |                            |                               |  |                         |             |                    |  |
| 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 |

|   |  |
|---|--|
| <b>D. WELL MAINTENANCE</b>                    |  |
| Does the well require any future maintenance? | No   |
| If yes, explain:                              |  |
| Additional Comments:                          | Color: Clear Odor: None<br>Bailer removed and replaced with Peri tubing and cap. |

## FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-26</b>      | Date: <b>5/23/2024</b>         |
| Gradient: <b>Down</b>                            | Sampler: <b>Michael Morgan</b> |

| 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):                         | 23.0                                |
| Initial Static Water Level (feet):                        | 10.25                               |
| Initial Groundwater Elevation (ft-amsl):                  | 1128.47                             |
| Equipment Used:   | Dedicated Tubing – Peristaltic Pump |

### C. WELL PURGING

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                            |                               |  |                         |             |                    |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| Time   | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
| 6:40 PM  | Purging start time.        |                               |  |                         |             |                    |  |
| 6:43 PM  | 10.9                       | 2.0                           | 649.3  | 6.44                    | 152.6       | 4.9                |  |
| 6:46 PM  | 9.7                        | 1.5                           | 649.7  | 6.44                    | 154.7       | 11.8               |  |
| 6:49 PM  | 9.9                        | 1.2                           | 643.8  | 6.42                    | 156.7       | 11.5               |  |
| 6:52 PM  | 10.0                       | 1.2                           | 642.9  | 6.41                    | 158.4       | 10.6               |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| 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? |                             | Yes |
| If yes, explain:                              | Well requires new peri cap. |     |

|                      |                            |
|----------------------|----------------------------|
| Additional Comments: | Color: Clear    Odor: None |
|----------------------|----------------------------|

## FORM FOR GROUNDWATER SAMPLING

|  |                                |
|--|--------------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                                |
| Monitoring Well/Piezometer ID: <b>MW-27</b>      | Date: <b>5/23/2024</b>         |
| Gradient: <b>Up</b>                              | Sampler: <b>Michael Morgan</b> |

| 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):                         | 26.3    |
| Initial Static Water Level (feet):                        | 6.90    |
| Initial Groundwater Elevation (ft-amsl):                  | 1126.79 |
| Equipment Used: <b>Non-Dedicated Submersible Pump</b>     |         |

| C. WELL PURGING  |  |
|--|--|
| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |  |

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| 5:57 PM                                  | Purging start time.        |                               |  |                         |             |                    |  |
| 6:00 PM                                  | 9.3                        | 1.8                           | 615.3  | 7.02                    | 121.6       | 274.3              |  |
| 6:03 PM                                  | 8.9                        | 1.5                           | 609.1  | 7.01                    | 122.5       | 117.2              |  |
| 6:06 PM                                  | 9.3                        | 1.4                           | 608.7  | 7.00                    | 122.0       | 52.6               |  |
| 6:09 PM                                  | 9.2                        | 1.4                           | 611.6  | 6.99                    | 122.6       | 36.1               |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| Parameters stabilized, sample collected. |                            |                               |  |                         |             |                    |  |

|  |        |
|--|--------|
| Quantity of Water Removed from Well (liters):  | 4.4    |
| Was well pumped/bailed dry?                    | No     |
| Total Amount of Time Purged (minutes:seconds): | 12:00  |
| Average Purge Rate (mL/min):                   | 366.67 |

| D. WELL MAINTENANCE                           |    |
|---|----|
| Does the well require any future maintenance? | No |
| If yes, explain:                              |    |

|                      |   |
|----------------------|---|
| Additional Comments: | Color: Light red/brown    Odor: None<br>Bailer removed and replaced with 1/2-inch tubing for SS pump. |
|----------------------|---|

# FORM FOR GROUNDWATER SAMPLING

|  |                         |
|--|-------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                         |
| Monitoring Well/Piezometer ID: <b>MW-28</b>      | Date: <b>5/22/2024</b>  |
| Gradient: Down                                   | Sampler: Michael Morgan |

## 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):        | 24.6                                |
| Initial Static Water Level (feet):       | 9.18                                |
| Initial Groundwater Elevation (ft-amsl): | 1175.82                             |
| Equipment Used:                          | Dedicated Tubing – Peristaltic Pump |

## C. WELL PURGING

### FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

| Time                                     | Temperature<br>(°C)<br><b>10%</b> | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(μS/cm)<br><b>+/- 10%</b> | pH<br>(S.U.)<br><b>+/- 0.1</b> | ORP<br>(mV) | Turbidity<br>(FNU) |  |
|--|-----------------------------------|-------------------------------|---|--------------------------------|-------------|--------------------|--|
| 2:04 PM                                  | Purging start time.               |                               |   |                                |             |                    |  |
| 2:07 PM                                  | 12.8                              | 6.4                           | 749.6   | 6.82                           | 167.2       | 21.8               |  |
| 2:10 PM                                  | 12.1                              | 6.2                           | 744.3   | 6.85                           | 167.9       | 27.3               |  |
| 2:13 PM                                  | 12.5                              | 6.1                           | 743.7   | 6.86                           | 168.5       | 38.2               |  |
| 2:16 PM                                  | 12.8                              | 6.1                           | 745.7   | 6.87                           | 168.8       | 45.4               |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
|  |                                   |                               |   |                                |             |                    |  |
| 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,<br>explain: |  |
|---------------------|--|

|                         |  |
|-------------------------|--|
| Additional<br>Comments: | Color: Clear Odor: None<br>Bailer removed and replaced with Peri tubing and cap. No well label, labeled with permanent marker. |
|-------------------------|--|

## FORM FOR GROUNDWATER SAMPLING

|  |                |          |                  |
|--|----------------|----------|------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                |          |                  |
| Monitoring Well/Piezometer ID:                   | <b>MW-PZ8A</b> | Date:    | <b>5/23/2024</b> |
| Gradient:  | Up             | Sampler: | Michael Morgan   |

| 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):                         | 20.7                                |
| Initial Static Water Level (feet):                        | 18.24                               |
| Initial Groundwater Elevation (ft-amsl):                  | 1169.47                             |
| Equipment Used:   | Dedicated Tubing – Peristaltic Pump |

| C. WELL PURGING  |  |
|--|--|
| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |  |

| Time                                     | Temperature (°C)<br>10% | Dissolved Oxygen (mg/L) | Specific Conductivity (µS/cm)<br>+/- 10% | pH (S.U.)<br>+/- 0.1 | ORP (mV) | Turbidity (FNU) |
|--|-------------------------|-------------------------|--|----------------------|----------|-----------------|
| 2:05 PM                                  | Purging start time.     |                         |  |                      |          |                 |
| 2:08 PM                                  | 12.9                    | 3.0                     | 644.2                                    | 7.10                 | 120.1    | 372.3           |
| 2:11 PM                                  | 12.7                    | 2.8                     | 646.7                                    | 7.10                 | 122.0    | 129.9           |
| 2:14 PM                                  | 13.2                    | 2.9                     | 644.8                                    | 7.11                 | 123.1    | 165.8           |
| 2:17 PM                                  | 14.2                    | 3.1                     | 647.2                                    | 7.09                 | 124.4    | 530.5           |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
|  |                         |                         |  |                      |          |                 |
| Parameters stabilized, sample collected. |                         |                         |  |                      |          |                 |

|  |        |
|--|--------|
| Quantity of Water Removed from Well (liters):  | 1.8    |
| Was well pumped/bailed dry?                    | Yes    |
| 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: Yellow/brown Odor: None<br>Bailer removed and replaced with Peri tubing and cap. No samples taken well went dry. |
|----------------------|---|





## FORM FOR GROUNDWATER SAMPLING

|                                |   |          |                  |
|--------------------------------|---|----------|------------------|
| Project:                       | <b>Kossuth County Sanitary Landfill</b> |          |                  |
| Monitoring Well/Piezometer ID: | <b>MW-PZ16A</b>                         | Date:    | <b>5/23/2024</b> |
| Gradient:                      | Down                                    | Sampler: | Michael Morgan   |

|                                    |  |
|------------------------------------|--|
| <b>A. MW/PIEZOMETER CONDITIONS</b> |  |
|------------------------------------|--|

|                         |     |  |
|-------------------------|-----|--|
| Well/Piezometer Capped? | Yes |  |
| Litter/Standing Water?  | No  |  |

|  |  |
|--|--|
| <b>B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)</b> |  |
|--|--|

|  |                                |
|--|--------------------------------|
| Measured Well Total Depth (feet):        | 24.6                           |
| Initial Static Water Level (feet):       | 8.68                           |
| Initial Groundwater Elevation (ft-amsl): | 1156.30                        |
| Equipment Used:                          | Non-Dedicated Submersible Pump |

|                        |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|
| <b>C. WELL PURGING</b> |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| 10:19 AM                                 | Purging start time.        |                               |  |                         |             |                    |  |
| 10:22 AM                                 | 11.3                       | 1.0                           | 1050.7   | 6.62                    | 165.5       | 150.8              |  |
| 10:25 AM                                 | 12.9                       | 0.8                           | 1053.7   | 6.63                    | 163.9       | 111.7              |  |
| 10:28 AM                                 | 12.9                       | 0.8                           | 1082.1   | 6.64                    | 163.1       | 59.8               |  |
| 10:31 AM                                 | 14.0                       | 0.8                           | 1093.4   | 6.64                    | 162.2       | 53.3               |  |
| 10:34 AM                                 | 12.4                       | 0.7                           | 1095.9   | 6.63                    | 162.3       | 35.7               |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| Parameters stabilized, sample collected. |                            |                               |  |                         |             |                    |  |

|  |        |
|--|--------|
| Quantity of Water Removed from Well (liters):  | 2.8    |
| Was well pumped/bailed dry?                    | No     |
| Total Amount of Time Purged (minutes:seconds): | 15:00  |
| Average Purge Rate (mL/min):                   | 186.67 |

|                            |  |
|----------------------------|--|
| <b>D. WELL MAINTENANCE</b> |  |
|----------------------------|--|

|   |    |
|---|----|
| Does the well require any future maintenance? | No |
| If yes, explain:                              |    |

|                      |  |
|----------------------|--|
| Additional Comments: | Color: Opaque light brown    Odor: None<br>Bailer removed and replaced with 1/2-inch tubing for SS pump.<br>Well labelled as MW-PZ16 |
|----------------------|--|

### FORM FOR GROUNDWATER SAMPLING

|  |                             |
|--|-----------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                             |
| Monitoring Well/Piezometer ID: <b>MW-22B</b>     | Date: <b>9/12/2024</b>      |
| Gradient: <b>Down</b>                            | Sampler: <b>Konner Roth</b> |

**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):        | 25.5                                |
| Initial Static Water Level (feet):       | 13.30                               |
| Initial Groundwater Elevation (ft-amsl): | 1166.94                             |
| Equipment Used:                          | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                            |                               |  |                         |             |                    |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| Time   | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
| 3:32 PM  | Purging start time.        |                               |  |                         |             |                    |  |
| 3:35 PM  | 18.4                       | 0.4                           | 1161.4   | 6.33                    | -44.4       | 6.5                |  |
| 3:38 PM  | 18.2                       | <0.1                          | 1138.6   | 6.31                    | -59.0       | 11.4               |  |
| 3:41 PM  | 18.5                       | <0.1                          | 1098.9   | 6.29                    | -63.1       | 17.1               |  |
| 3:44 PM  | 18.4                       | 0.1                           | 1117.1   | 6.28                    | -63.3       | 17.5               |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| 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-Sulfur/Metallic |
|----------------------|----------------------------------|

### FORM FOR GROUNDWATER SAMPLING

|  |                             |
|--|-----------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                             |
| Monitoring Well/Piezometer ID: <b>MW-26</b>      | Date: <b>9/12/2024</b>      |
| Gradient: <b>Down</b>                            | Sampler: <b>Konner Roth</b> |

#### 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):        | 23.2                                |
| Initial Static Water Level (feet):       | 17.32                               |
| Initial Groundwater Elevation (ft-amsl): | 1121.40                             |
| Equipment Used:                          | Dedicated Tubing – Peristaltic Pump |

#### C. WELL PURGING

##### FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| 3:08 PM                                  | Purging start time.        |                               |  |                         |             |                    |  |
| 3:11 PM                                  | 14.0                       | 1.9                           | 666.1  | 6.52                    | 112.4       | 2.7                |  |
| 3:14 PM                                  | 14.0                       | 1.1                           | 665.9  | 6.41                    | 120.9       | 2.8                |  |
| 3:17 PM                                  | 14.1                       | 0.9                           | 663.5  | 6.37                    | 124.7       | 3.1                |  |
| 3:20 PM                                  | 14.2                       | 0.7                           | 660.2  | 6.35                    | 126.1       | 4.1                |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| 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: <b>Kossuth County Sanitary Landfill</b> |                             |
| Monitoring Well/Piezometer ID: <b>MW-28</b>      | Date: <b>9/12/2024</b>      |
| Gradient: <b>Down</b>                            | Sampler: <b>Konner Roth</b> |

**A. MW/PIEZOMETER CONDITIONS**

|                                    |
|------------------------------------|
| Well/Piezometer Capped? <b>Yes</b> |
| Litter/Standing Water? <b>No</b>   |

**B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)**

|  |
|--|
| Measured Well Total Depth (feet): <b>24.7</b>              |
| Initial Static Water Level (feet): <b>11.48</b>            |
| Initial Groundwater Elevation (ft-amsl): <b>1173.52</b>    |
| Equipment Used: <b>Dedicated Tubing – Peristaltic Pump</b> |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |  |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|--|
| 4:11 PM                                  | Purging start time.        |                               |  |                         |             |                    |  |
| 4:14 PM                                  | 15.9                       | 7.6                           | 643.9  | 7.16                    | -57.9       | 7.1                |  |
| 4:17 PM                                  | 15.5                       | 7.8                           | 638.4  | 7.14                    | -36.9       | 16.9               |  |
| 4:20 PM                                  | 15.5                       | 7.5                           | 641.8  | 7.11                    | -21.4       | 26.9               |  |
| 4:23 PM                                  | 15.7                       | 7.5                           | 642.1  | 7.09                    | -9.2        | 47.8               |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
|  |                            |                               |  |                         |             |                    |  |
| 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-Metallic/Sulfur smell |



**FORM FOR GROUNDWATER SAMPLING**

|  |                             |
|--|-----------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                             |
| Monitoring Well/Piezometer ID: <b>MW-19</b>      | Date: <b>11/6/2024</b>      |
| Gradient: <b>Down</b>                            | Sampler: <b>Konner Roth</b> |

**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):        | 47.9                           |
| Initial Static Water Level (feet):       | 47.85                          |
| Initial Groundwater Elevation (ft-amsl): | 1118.10                        |
| Equipment Used:                          | Non-Dedicated Submersible Pump |

**C. WELL PURGING**

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                         |                         |  |                      |          |                 |  |
|--|-------------------------|-------------------------|--|----------------------|----------|-----------------|--|
| Time   | Temperature (°C)<br>10% | Dissolved Oxygen (mg/L) | Specific Conductivity (µS/cm)<br>+/- 10% | pH (S.U.)<br>+/- 0.1 | ORP (mV) | Turbidity (FNU) |  |
| 11:41 AM   | Purging start time.     |                         |  |                      |          |                 |  |
| 11:44 AM   | 11.5                    | 2.4                     | 1851.0                                   | 6.69                 | 70.2     | 499.6           |  |
| 11:47 AM   | 11.7                    | 2.3                     | 1847.0                                   | 6.68                 | 59.4     | 451.0           |  |
| 11:50 AM   | 12.1                    | 1.6                     | 1843.0                                   | 6.60                 | 30.0     | 265.9           |  |
| 11:53 PM   | 12.3                    | 1.4                     | 1837.0                                   | 6.59                 | 22.1     | 243.3           |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
| 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? | Yes                                |
| If yes, explain:                              | Well needs a new lock.             |
| Additional Comments:                          | Color: Brown/Orange    Odor: Paint |

## FORM FOR GROUNDWATER SAMPLING

|  |                             |
|--|-----------------------------|
| Project: <b>Kossuth County Sanitary Landfill</b> |                             |
| Monitoring Well/Piezometer ID: <b>MW-PZ8A</b>    | Date: <b>11/6/2024</b>      |
| Gradient: <b>Up</b>                              | Sampler: <b>Konner Roth</b> |

### 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):        | 20.8    |
| Initial Static Water Level (feet):       | 19.80   |
| Initial Groundwater Elevation (ft-amsl): | 1167.91 |
| Equipment Used:                          |         |

### C. WELL PURGING

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time                                     | Temperature<br>(°C)<br>10% | Dissolved<br>Oxygen<br>(mg/L) | Specific<br>Conductivity<br>(µS/cm)<br>+/- 10% | pH<br>(S.U.)<br>+/- 0.1 | ORP<br>(mV) | Turbidity<br>(FNU) |
|--|----------------------------|-------------------------------|--|-------------------------|-------------|--------------------|
| Purging start time.                      |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
|  |                            |                               |  |                         |             |                    |
| Parameters stabilized, sample collected. |                            |                               |  |                         |             |                    |

|  |      |
|--|------|
| Quantity of Water Removed from Well (liters):  | 0.0  |
| Was well pumped/bailed dry?                    | No   |
| Total Amount of Time Purged (minutes:seconds): | 0    |
| Average Purge Rate (mL/min):                   | 0.00 |

### D. WELL MAINTENANCE

|   |    |
|---|----|
| Does the well require any future maintenance? | No |
| If yes, explain:                              |    |

|                      |   |
|----------------------|---|
| Additional Comments: | Well did not have sufficient water to sample. |
|----------------------|---|



**FORM FOR GROUNDWATER SAMPLING**

|  |                             |
|--|-----------------------------|
| <b>Project: Kossuth County Sanitary Landfill</b> |                             |
| Monitoring Well/Piezometer ID: <b>MW-PZ8B2</b>   | Date: <b>11/6/2024</b>      |
| Gradient: <b>Up</b>                              | Sampler: <b>Konner Roth</b> |

|                                    |  |
|------------------------------------|--|
| <b>A. MW/PIEZOMETER CONDITIONS</b> |  |
| Well/Piezometer Capped? <b>Yes</b> |  |
| Litter/Standing Water? <b>No</b>   |  |

|  |         |
|--|---------|
| <b>B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)</b> |         |
| Measured Well Total Depth (feet):                                | 71.9    |
| Initial Static Water Level (feet):                               | 68.40   |
| Initial Groundwater Elevation (ft-amsl):                         | 1118.53 |
| Equipment Used: <b>Non-Dedicated Submersible Pump</b>            |         |

|                        |  |
|------------------------|--|
| <b>C. WELL PURGING</b> |  |
|------------------------|--|

| FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES |                         |                         |  |                      |          |                 |  |
|--|-------------------------|-------------------------|--|----------------------|----------|-----------------|--|
| Time   | Temperature (°C)<br>10% | Dissolved Oxygen (mg/L) | Specific Conductivity (µS/cm)<br>+/- 10% | pH (S.U.)<br>+/- 0.1 | ORP (mV) | Turbidity (FNU) |  |
| 12:30 PM   | Purging start time.     |                         |  |                      |          |                 |  |
| 12:33 PM   | 12.1                    | 1.7                     | 965.0                                    | 6.97                 | 111.8    | 952.4           |  |
| 12:36 PM   | 12.0                    | 1.6                     | 909.0                                    | 6.96                 | 100.6    | 950.5           |  |
| 12:39 PM   | 11.7                    | 1.3                     | 874.0                                    | 6.94                 | 89.3     | 940.2           |  |
| 12:42 PM   | 11.4                    | 1.0                     | 840.0                                    | 6.93                 | 77.8     | 467.1           |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
|  |                         |                         |  |                      |          |                 |  |
| 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 |

|   |    |
|---|----|
| <b>D. WELL MAINTENANCE</b>                    |    |
| Does the well require any future maintenance? | No |
| If yes, explain:                              |    |

|                      |                                  |
|----------------------|----------------------------------|
| Additional Comments: | Color: Gray/Clear   Odor: Sulfur |
|----------------------|----------------------------------|

**Appendix B-1**  
**Laboratory Analytical Data Sheets**



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/12/2024 3:49:31 PM

## JOB DESCRIPTION

1st 2024 Semi-Annual Sampling Kossuth County LF

## JOB NUMBER

310-282075-1

# 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



Generated  
6/12/2024 3:49:31 PM

Authorized for release by  
Mary Yang, Project Management Assistant I  
[Mary.Yang@ET.EurofinsUS.com](mailto:Mary.Yang@ET.EurofinsUS.com)  
(319)277-2401



# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 3  |
| Case Narrative . . . . .        | 4  |
| Sample Summary . . . . .        | 5  |
| Detection Summary . . . . .     | 6  |
| Client Sample Results . . . . . | 9  |
| Definitions . . . . .           | 39 |
| Surrogate Summary . . . . .     | 40 |
| QC Sample Results . . . . .     | 41 |
| QC Association . . . . .        | 50 |
| Chronicle . . . . .             | 53 |
| Certification Summary . . . . . | 57 |
| Method Summary . . . . .        | 58 |
| Chain of Custody . . . . .      | 59 |
| Receipt Checklists . . . . .    | 63 |

# Case Narrative

Client: SCS Engineers  
Project: 1st 2024 Semi-Annual Sampling Kossuth County LF

Job ID: 310-282075-1

**Job ID: 310-282075-1**

**Eurofins Cedar Falls**

## Job Narrative 310-282075-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/24/2024 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.7°C and -0.4°C.

### GC/MS VOA

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: 310-282075-1

Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County

LF

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-282075-1  | MW-27            | Water  | 05/23/24 18:11 | 05/24/24 14:55 |
| 310-282075-2  | MWPz-8A          | Water  | 05/23/24 14:18 | 05/24/24 14:55 |
| 310-282075-3  | MWPz-8B2         | Water  | 05/23/24 15:27 | 05/24/24 14:55 |
| 310-282075-4  | MW-22A           | Water  | 05/22/24 16:19 | 05/24/24 14:55 |
| 310-282075-5  | MW-22B           | Water  | 05/22/24 17:19 | 05/24/24 14:55 |
| 310-282075-6  | MW-23            | Water  | 05/23/24 17:23 | 05/24/24 14:55 |
| 310-282075-7  | MW-25            | Water  | 05/23/24 13:16 | 05/24/24 14:55 |
| 310-282075-8  | MW-19            | Water  | 05/23/24 11:53 | 05/24/24 14:55 |
| 310-282075-9  | MWPz-16A         | Water  | 05/23/24 10:43 | 05/24/24 14:55 |
| 310-282075-10 | MW-12            | Water  | 05/23/24 09:26 | 05/24/24 14:55 |
| 310-282075-11 | MW-18            | Water  | 05/24/24 08:53 | 05/24/24 14:55 |
| 310-282075-12 | MW-26            | Water  | 05/23/24 19:03 | 05/24/24 14:55 |
| 310-282075-13 | MW-20            | Water  | 05/22/24 18:40 | 05/24/24 14:55 |
| 310-282075-14 | MW-28            | Water  | 05/22/24 14:29 | 05/24/24 14:55 |
| 310-282075-15 | MW-D             | Water  | 05/22/24 18:40 | 05/24/24 14:55 |
| 310-282075-16 | Trip Blank 1     | Water  | 05/22/24 00:00 | 05/24/24 14:55 |
| 310-282075-17 | Trip Blank 2     | Water  | 05/22/24 00:00 | 05/24/24 14:55 |

# Detection Summary

Client: SCS Engineers

Job ID: 310-282075-1

Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County

LF

## Client Sample ID: MW-27

## Lab Sample ID: 310-282075-1

| Analyte                | Result  | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|---------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.0479  |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.00534 |           | 0.00500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Selenium               | 0.00592 |           | 0.00500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 182     |           | 3.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MWPz-8A

## Lab Sample ID: 310-282075-2

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|-----------|-----------|
| Total Suspended Solids | 10500  |           | 150 |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MWPz-8B2

## Lab Sample ID: 310-282075-3

| Analyte                | Result  | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Arsenic                | 0.00890 |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 0.243   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cadmium                | 0.00109 |           | 0.000200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.0112  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Lead                   | 0.00810 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.144   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Zinc                   | 0.0584  |           | 0.0200   |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 4450    |           | 150      |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-22A

## Lab Sample ID: 310-282075-4

| Analyte                | Result  | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|---------|-----|------|---------|---|-----------|-----------|
| Arsenic                | 0.00219 |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 0.237   |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 4.4     |           | 1.9     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-22B

## Lab Sample ID: 310-282075-5

| Analyte                  | Result  | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|--------------------------|---------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Acetone                  | 14.0    |           | 10.0     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Benzene                  | 2.31    |           | 0.500    |     | ug/L | 1       |   | 8260D     | Total/NA  |
| cis-1,2-Dichloroethene   | 77.6    | F1        | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| trans-1,2-Dichloroethene | 1.08    |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Vinyl chloride           | 5.71    |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Arsenic                  | 0.00394 |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                   | 0.345   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                   | 0.00338 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                   | 0.0148  |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids   | 29.0    |           | 15.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-23

## Lab Sample ID: 310-282075-6

| Analyte                | Result   | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|----------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.369    |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cadmium                | 0.000208 |           | 0.000200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.00147  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Lead                   | 0.00144  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.0108   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 297      |           | 15.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls



# Detection Summary

Client: SCS Engineers

Job ID: 310-282075-1

Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County

LF

## Client Sample ID: MW-25

Lab Sample ID: 310-282075-7

| Analyte                | Result | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|--------|-----------|---------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.0894 |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 70.6   |           | 3.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-19

Lab Sample ID: 310-282075-8

| Analyte                | Result   | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|----------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Acetone                | 24.3     |           | 10.0     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| 1,1-Dichloroethane     | 3.51     |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Arsenic                | 0.0968   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 1.36     |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cadmium                | 0.000951 |           | 0.000200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.00535  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Lead                   | 0.000530 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.0424   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Zinc                   | 0.0364   |           | 0.0200   |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 11700    |           | 750      |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MWPz-16A

Lab Sample ID: 310-282075-9

| Analyte                | Result   | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|----------|-----------|----------|-----|------|---------|---|-----------|-----------|
| cis-1,2-Dichloroethene | 2.49     |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| 1,1-Dichloroethane     | 1.70     |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Barium                 | 0.312    |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.000710 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 27.0     |           | 3.0      |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-12

Lab Sample ID: 310-282075-10

| Analyte                | Result  | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.225   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.00784 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Lead                   | 0.00104 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.273   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 666     |           | 15.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-18

Lab Sample ID: 310-282075-11

| Analyte                | Result   | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|----------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Acetone                | 45.7     |           | 10.0     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Toluene                | 7.72     |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Arsenic                | 0.00471  |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 0.423    |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cadmium                | 0.000483 |           | 0.000200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.0367   |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Lead                   | 0.000756 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.0151   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 79.0     |           | 15.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-26

Lab Sample ID: 310-282075-12

| Analyte | Result | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|---------|-----|------|---------|---|--------|-----------|
| Barium  | 0.0851 |           | 0.00200 |     | 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: 1st 2024 Semi-Annual Sampling Kossuth County  
LF

Job ID: 310-282075-1

## Client Sample ID: MW-26 (Continued)

Lab Sample ID: 310-282075-12

| Analyte  | Result  | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|---------|-----------|---------|-----|------|---------|---|--------|-----------|
| Selenium | 0.00832 |           | 0.00500 |     | mg/L | 1       |   | 6020B  | Total/NA  |

## Client Sample ID: MW-20

Lab Sample ID: 310-282075-13

| Analyte  | Result  | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|---------|-----------|---------|-----|------|---------|---|--------|-----------|
| Arsenic  | 0.00214 |           | 0.00200 |     | mg/L | 1       |   | 6020B  | Total/NA  |
| Barium   | 0.0911  |           | 0.00200 |     | mg/L | 1       |   | 6020B  | Total/NA  |
| Selenium | 0.00701 |           | 0.00500 |     | mg/L | 1       |   | 6020B  | Total/NA  |

## Client Sample ID: MW-28

Lab Sample ID: 310-282075-14

| Analyte                | Result | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|--------|-----------|---------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.0715 |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 33.1   |           | 1.9     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-D

Lab Sample ID: 310-282075-15

| Analyte  | Result  | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|---------|-----------|---------|-----|------|---------|---|--------|-----------|
| Arsenic  | 0.00212 |           | 0.00200 |     | mg/L | 1       |   | 6020B  | Total/NA  |
| Barium   | 0.0896  |           | 0.00200 |     | mg/L | 1       |   | 6020B  | Total/NA  |
| Selenium | 0.00688 |           | 0.00500 |     | mg/L | 1       |   | 6020B  | Total/NA  |

## Client Sample ID: Trip Blank 1

Lab Sample ID: 310-282075-16

No Detections.

## Client Sample ID: Trip Blank 2

Lab Sample ID: 310-282075-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-27**

**Lab Sample ID: 310-282075-1**

Date Collected: 05/23/24 18:11

Matrix: Water

Date Received: 05/24/24 14:55

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

| Analyte         | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic         | <0.00200       |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| <b>Barium</b>   | <b>0.0479</b>  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| Cadmium         | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| Cobalt          | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| Lead            | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| <b>Nickel</b>   | <b>0.00534</b> |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| <b>Selenium</b> | <b>0.00592</b> |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |
| Zinc            | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:33 | 1       |

**General Chemistry**

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>182</b> |           | 3.0 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
LF

Job ID: 310-282075-1

**Client Sample ID: MWPz-8A**

**Lab Sample ID: 310-282075-2**

Date Collected: 05/23/24 14:18

Matrix: Water

Date Received: 05/24/24 14:55

## General Chemistry

| Analyte                                 | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | 10500  |           | 150 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

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

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MWPz-8B2**

**Lab Sample ID: 310-282075-3**

Date Collected: 05/23/24 15:27

Matrix: Water

Date Received: 05/24/24 14:55

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

| Analyte  | Result   | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic  | 0.00890  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |
| Barium   | 0.243    |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |
| Cadmium  | 0.00109  |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |
| Cobalt   | 0.0112   |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:17 | 1       |
| Lead     | 0.00810  |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |
| Nickel   | 0.144    |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |
| Selenium | <0.00500 |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |
| Zinc     | 0.0584   |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:31 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | 4450   |           | 150 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-22A**

**Lab Sample ID: 310-282075-4**

Date Collected: 05/22/24 16:19

Matrix: Water

Date Received: 05/24/24 14:55

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

| Analyte        | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| <b>Arsenic</b> | <b>0.00219</b> |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |
| <b>Barium</b>  | <b>0.237</b>   |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |
| Cadmium        | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |
| Cobalt         | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:21 | 1       |
| Lead           | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |
| Nickel         | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |
| Selenium       | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |
| Zinc           | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:33 | 1       |

**General Chemistry**

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>4.4</b> |           | 1.9 |     | mg/L |   |          | 05/28/24 13:38 | 1       |



# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-22B**

**Lab Sample ID: 310-282075-5**

Date Collected: 05/22/24 17:19

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                         | Result      | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-------|-----|------|---|----------|----------------|---------|
| <b>Acetone</b>                  | <b>14.0</b> |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Acrylonitrile                   | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| <b>Benzene</b>                  | <b>2.31</b> |           | 0.500 |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Bromochloromethane              | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Bromodichloromethane            | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Bromoform                       | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Bromomethane                    | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 2-Butanone (MEK)                | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Carbon disulfide                | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Carbon tetrachloride            | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Chlorobenzene                   | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Chlorodibromomethane            | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Chloroethane                    | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Chloroform                      | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Chloromethane                   | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| <b>cis-1,2-Dichloroethene</b>   | <b>77.6</b> | <b>F1</b> | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| cis-1,3-Dichloropropene         | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,2-Dibromo-3-Chloropropane     | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,2-Dibromoethane (EDB)         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Dibromomethane                  | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,2-Dichlorobenzene             | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,4-Dichlorobenzene             | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,1-Dichloroethane              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,2-Dichloroethane              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,1-Dichloroethene              | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,2-Dichloropropane             | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Ethylbenzene                    | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 2-Hexanone                      | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Iodomethane                     | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Methylene Chloride              | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 4-Methyl-2-pentanone (MIBK)     | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Styrene                         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,1,1,2-Tetrachloroethane       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,1,2,2-Tetrachloroethane       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Tetrachloroethene               | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Toluene                         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| trans-1,4-Dichloro-2-butene     | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| <b>trans-1,2-Dichloroethene</b> | <b>1.08</b> |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| trans-1,3-Dichloropropene       | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,1,1-Trichloroethane           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,1,2-Trichloroethane           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Trichloroethene                 | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Trichlorofluoromethane          | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| 1,2,3-Trichloropropane          | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Vinyl acetate                   | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| <b>Vinyl chloride</b>           | <b>5.71</b> |           | 1.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |
| Xylenes, Total                  | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 09:43 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-22B**

**Lab Sample ID: 310-282075-5**

Date Collected: 05/22/24 17:19

Matrix: Water

Date Received: 05/24/24 14:55

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 80 - 120 |          | 05/29/24 09:43 | 1       |
| Dibromofluoromethane (Surr) | 101       |           | 73 - 130 |          | 05/29/24 09:43 | 1       |
| Toluene-d8 (Surr)           | 100       |           | 80 - 120 |          | 05/29/24 09:43 | 1       |

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

| Analyte        | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony       | <0.00200       |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| <b>Arsenic</b> | <b>0.00394</b> |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| <b>Barium</b>  | <b>0.345</b>   |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Beryllium      | <0.00100       |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Cadmium        | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Chromium       | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| <b>Cobalt</b>  | <b>0.00338</b> |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Copper         | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Lead           | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| <b>Nickel</b>  | <b>0.0148</b>  |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Selenium       | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Silver         | <0.00100       |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/12/24 15:08 | 1       |
| Thallium       | <0.00100       |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Vanadium       | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |
| Zinc           | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:43 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>29.0</b> |           | 15.0 |     | mg/L |   |          | 05/28/24 13:38 | 1       |



# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-23**

**Lab Sample ID: 310-282075-6**

Date Collected: 05/23/24 17:23

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 10:05 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-23**

**Lab Sample ID: 310-282075-6**

**Date Collected: 05/23/24 17:23**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 80 - 120 |          | 05/29/24 10:05 | 1       |
| Dibromofluoromethane (Surr) | 103       |           | 73 - 130 |          | 05/29/24 10:05 | 1       |
| Toluene-d8 (Surr)           | 97        |           | 80 - 120 |          | 05/29/24 10:05 | 1       |

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

| Analyte        | Result          | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic        | <0.00200        |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |
| <b>Barium</b>  | <b>0.369</b>    |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |
| <b>Cadmium</b> | <b>0.000208</b> |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |
| <b>Cobalt</b>  | <b>0.00147</b>  |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:28 | 1       |
| <b>Lead</b>    | <b>0.00144</b>  |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |
| <b>Nickel</b>  | <b>0.0108</b>   |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |
| Selenium       | <0.00500        |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |
| Zinc           | <0.0200         |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:46 | 1       |

**General Chemistry**

| Analyte  | Result     | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|------|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>297</b> |           | 15.0 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-25**

**Lab Sample ID: 310-282075-7**

**Date Collected: 05/23/24 13:16**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 10:26 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-25**

**Lab Sample ID: 310-282075-7**

**Date Collected: 05/23/24 13:16**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 80 - 120 |          | 05/29/24 10:26 | 1       |
| Dibromofluoromethane (Surr) | 102       |           | 73 - 130 |          | 05/29/24 10:26 | 1       |
| Toluene-d8 (Surr)           | 100       |           | 80 - 120 |          | 05/29/24 10:26 | 1       |

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

| Analyte       | Result        | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------|---------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic       | <0.00200      |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |
| <b>Barium</b> | <b>0.0894</b> |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |
| Cadmium       | <0.000200     |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |
| Cobalt        | <0.000500     |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:46 | 1       |
| Lead          | <0.000500     |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |
| Nickel        | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |
| Selenium      | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |
| Zinc          | <0.0200       |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:48 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>70.6</b> |           | 3.0 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-19**

**Lab Sample ID: 310-282075-8**

Date Collected: 05/23/24 11:53

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|-----------|-------|-----|------|---|----------|----------------|---------|
| <b>Acetone</b>              | <b>24.3</b> |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Acrylonitrile               | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Benzene                     | <0.500      |           | 0.500 |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Bromochloromethane          | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Bromodichloromethane        | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Bromoform                   | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Bromomethane                | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 2-Butanone (MEK)            | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Carbon disulfide            | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Carbon tetrachloride        | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Chlorobenzene               | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Chlorodibromomethane        | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Chloroethane                | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Chloroform                  | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Chloromethane               | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| cis-1,2-Dichloroethene      | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| cis-1,3-Dichloropropene     | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Dibromomethane              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,2-Dichlorobenzene         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,4-Dichlorobenzene         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| <b>1,1-Dichloroethane</b>   | <b>3.51</b> |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,2-Dichloroethane          | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,1-Dichloroethene          | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,2-Dichloropropane         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Ethylbenzene                | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 2-Hexanone                  | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Iodomethane                 | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Methylene Chloride          | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Styrene                     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Tetrachloroethene           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Toluene                     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| trans-1,2-Dichloroethene    | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| trans-1,3-Dichloropropene   | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,1,1-Trichloroethane       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,1,2-Trichloroethane       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Trichloroethene             | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Trichlorofluoromethane      | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| 1,2,3-Trichloropropane      | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Vinyl acetate               | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Vinyl chloride              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |
| Xylenes, Total              | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 10:48 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-19**

**Lab Sample ID: 310-282075-8**

**Date Collected: 05/23/24 11:53**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 80 - 120 |          | 05/29/24 10:48 | 1       |
| Dibromofluoromethane (Surr) | 104       |           | 73 - 130 |          | 05/29/24 10:48 | 1       |
| Toluene-d8 (Surr)           | 99        |           | 80 - 120 |          | 05/29/24 10:48 | 1       |

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

| Analyte        | Result          | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| <b>Arsenic</b> | <b>0.0968</b>   |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |
| <b>Barium</b>  | <b>1.36</b>     |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |
| <b>Cadmium</b> | <b>0.000951</b> |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |
| <b>Cobalt</b>  | <b>0.00535</b>  |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:50 | 1       |
| <b>Lead</b>    | <b>0.000530</b> |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |
| <b>Nickel</b>  | <b>0.0424</b>   |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |
| Selenium       | <0.00500        |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |
| <b>Zinc</b>    | <b>0.0364</b>   |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:50 | 1       |

**General Chemistry**

| Analyte  | Result       | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>11700</b> |           | 750 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MWPz-16A**

**Lab Sample ID: 310-282075-9**

Date Collected: 05/23/24 10:43

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result      | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                       | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Acrylonitrile                 | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Benzene                       | <0.500      |           | 0.500 |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Bromochloromethane            | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Bromodichloromethane          | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Bromoform                     | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Bromomethane                  | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 2-Butanone (MEK)              | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Carbon disulfide              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Carbon tetrachloride          | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Chlorobenzene                 | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Chlorodibromomethane          | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Chloroethane                  | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Chloroform                    | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Chloromethane                 | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>2.49</b> |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| cis-1,3-Dichloropropene       | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,2-Dibromoethane (EDB)       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Dibromomethane                | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,2-Dichlorobenzene           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,4-Dichlorobenzene           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>1.70</b> |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,2-Dichloroethane            | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,1-Dichloroethene            | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,2-Dichloropropane           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Ethylbenzene                  | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 2-Hexanone                    | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Iodomethane                   | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Methylene Chloride            | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 4-Methyl-2-pentanone (MIBK)   | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Styrene                       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,1,1,2-Tetrachloroethane     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,1,2,2-Tetrachloroethane     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Tetrachloroethene             | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Toluene                       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| trans-1,4-Dichloro-2-butene   | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| trans-1,2-Dichloroethene      | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| trans-1,3-Dichloropropene     | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,1,1-Trichloroethane         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,1,2-Trichloroethane         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Trichloroethene               | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Trichlorofluoromethane        | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| 1,2,3-Trichloropropane        | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Vinyl acetate                 | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Vinyl chloride                | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |
| Xylenes, Total                | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 11:10 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MWPz-16A**

**Lab Sample ID: 310-282075-9**

Date Collected: 05/23/24 10:43

Matrix: Water

Date Received: 05/24/24 14:55

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 80 - 120 |          | 05/29/24 11:10 | 1       |
| Dibromofluoromethane (Surr) | 105       |           | 73 - 130 |          | 05/29/24 11:10 | 1       |
| Toluene-d8 (Surr)           | 98        |           | 80 - 120 |          | 05/29/24 11:10 | 1       |

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

| Analyte       | Result          | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic       | <0.00200        |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |
| <b>Barium</b> | <b>0.312</b>    |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |
| Cadmium       | <0.000200       |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |
| <b>Cobalt</b> | <b>0.000710</b> |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:53 | 1       |
| Lead          | <0.000500       |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |
| Nickel        | <0.00500        |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |
| Selenium      | <0.00500        |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |
| Zinc          | <0.0200         |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:52 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>27.0</b> |           | 3.0 |     | mg/L |   |          | 05/29/24 09:32 | 1       |



# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-12**

**Lab Sample ID: 310-282075-10**

**Date Collected: 05/23/24 09:26**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 11:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-12**

**Lab Sample ID: 310-282075-10**

**Date Collected: 05/23/24 09:26**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 80 - 120 |          | 05/29/24 11:32 | 1       |
| Dibromofluoromethane (Surr) | 104       |           | 73 - 130 |          | 05/29/24 11:32 | 1       |
| Toluene-d8 (Surr)           | 98        |           | 80 - 120 |          | 05/29/24 11:32 | 1       |

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

| Analyte       | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic       | <0.00200       |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |
| <b>Barium</b> | <b>0.225</b>   |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |
| Cadmium       | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |
| <b>Cobalt</b> | <b>0.00784</b> |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 20:57 | 1       |
| <b>Lead</b>   | <b>0.00104</b> |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |
| <b>Nickel</b> | <b>0.273</b>   |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |
| Selenium      | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |
| Zinc          | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:54 | 1       |

**General Chemistry**

| Analyte  | Result     | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|------|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>666</b> |           | 15.0 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-18**

**Lab Sample ID: 310-282075-11**

Date Collected: 05/24/24 08:53

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result      | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|-----------|-------|-----|------|---|----------|----------------|---------|
| <b>Acetone</b>              | <b>45.7</b> |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Acrylonitrile               | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Benzene                     | <0.500      |           | 0.500 |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Bromochloromethane          | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Bromodichloromethane        | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Bromoform                   | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Bromomethane                | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 2-Butanone (MEK)            | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Carbon disulfide            | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Carbon tetrachloride        | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Chlorobenzene               | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Chlorodibromomethane        | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Chloroethane                | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Chloroform                  | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Chloromethane               | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| cis-1,2-Dichloroethene      | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| cis-1,3-Dichloropropene     | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Dibromomethane              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,2-Dichlorobenzene         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,4-Dichlorobenzene         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,1-Dichloroethane          | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,2-Dichloroethane          | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,1-Dichloroethene          | <2.00       |           | 2.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,2-Dichloropropane         | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Ethylbenzene                | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 2-Hexanone                  | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Iodomethane                 | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Methylene Chloride          | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Styrene                     | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Tetrachloroethene           | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| <b>Toluene</b>              | <b>7.72</b> |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| trans-1,2-Dichloroethene    | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| trans-1,3-Dichloropropene   | <5.00       |           | 5.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,1,1-Trichloroethane       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,1,2-Trichloroethane       | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Trichloroethene             | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Trichlorofluoromethane      | <4.00       |           | 4.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| 1,2,3-Trichloropropane      | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Vinyl acetate               | <10.0       |           | 10.0  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Vinyl chloride              | <1.00       |           | 1.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |
| Xylenes, Total              | <3.00       |           | 3.00  |     | ug/L |   |          | 05/29/24 11:53 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-18**

**Lab Sample ID: 310-282075-11**

Date Collected: 05/24/24 08:53

Matrix: Water

Date Received: 05/24/24 14:55

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 80 - 120 |          | 05/29/24 11:53 | 1       |
| Dibromofluoromethane (Surr) | 103       |           | 73 - 130 |          | 05/29/24 11:53 | 1       |
| Toluene-d8 (Surr)           | 104       |           | 80 - 120 |          | 05/29/24 11:53 | 1       |

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

| Analyte  | Result   | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic  | 0.00471  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |
| Barium   | 0.423    |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |
| Cadmium  | 0.000483 |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |
| Cobalt   | 0.0367   |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 21:01 | 1       |
| Lead     | 0.000756 |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |
| Nickel   | 0.0151   |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |
| Selenium | <0.00500 |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |
| Zinc     | <0.0200  |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:57 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | 79.0   |           | 15.0 |     | mg/L |   |          | 05/29/24 13:05 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-26**

**Lab Sample ID: 310-282075-12**

**Date Collected: 05/23/24 19:03**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:15 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-26**

**Lab Sample ID: 310-282075-12**

**Date Collected: 05/23/24 19:03**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 80 - 120 |          | 05/29/24 12:15 | 1       |
| Dibromofluoromethane (Surr) | 106       |           | 73 - 130 |          | 05/29/24 12:15 | 1       |
| Toluene-d8 (Surr)           | 98        |           | 80 - 120 |          | 05/29/24 12:15 | 1       |

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

| Analyte         | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony        | <0.00200       |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Arsenic         | <0.00200       |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| <b>Barium</b>   | <b>0.0851</b>  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Beryllium       | <0.00100       |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Cadmium         | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Chromium        | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Cobalt          | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Copper          | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Lead            | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Nickel          | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| <b>Selenium</b> | <b>0.00832</b> |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Silver          | <0.00100       |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/12/24 15:10 | 1       |
| Thallium        | <0.00100       |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Vanadium        | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |
| Zinc            | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:46 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | <1.9   |           | 1.9 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-20**

**Lab Sample ID: 310-282075-13**

**Date Collected: 05/22/24 18:40**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:37 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-20**

**Lab Sample ID: 310-282075-13**

**Date Collected: 05/22/24 18:40**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 80 - 120 |          | 05/29/24 12:37 | 1       |
| Dibromofluoromethane (Surr) | 103       |           | 73 - 130 |          | 05/29/24 12:37 | 1       |
| Toluene-d8 (Surr)           | 97        |           | 80 - 120 |          | 05/29/24 12:37 | 1       |

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

| Analyte         | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>0.00214</b> |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |
| <b>Barium</b>   | <b>0.0911</b>  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |
| Cadmium         | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |
| Cobalt          | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 21:12 | 1       |
| Lead            | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |
| Nickel          | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |
| <b>Selenium</b> | <b>0.00701</b> |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |
| Zinc            | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:03 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | <1.9   |           | 1.9 |     | mg/L |   |          | 05/28/24 13:38 | 1       |



# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-28**

**Lab Sample ID: 310-282075-14**

Date Collected: 05/22/24 14:29

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 12:59 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-28**

**Lab Sample ID: 310-282075-14**

**Date Collected: 05/22/24 14:29**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 80 - 120 |          | 05/29/24 12:59 | 1       |
| Dibromofluoromethane (Surr) | 104       |           | 73 - 130 |          | 05/29/24 12:59 | 1       |
| Toluene-d8 (Surr)           | 97        |           | 80 - 120 |          | 05/29/24 12:59 | 1       |

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

| Analyte       | Result        | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------|---------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony      | <0.00200      |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Arsenic       | <0.00200      |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| <b>Barium</b> | <b>0.0715</b> |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Beryllium     | <0.00100      |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Cadmium       | <0.000200     |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Chromium      | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Cobalt        | <0.000500     |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Copper        | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Lead          | <0.000500     |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Nickel        | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Selenium      | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Silver        | <0.00100      |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/12/24 15:14 | 1       |
| Thallium      | <0.00100      |           | 0.00100  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Vanadium      | <0.00500      |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |
| Zinc          | <0.0200       |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/11/24 18:53 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>33.1</b> |           | 1.9 |     | mg/L |   |          | 05/28/24 13:38 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-D**

**Lab Sample ID: 310-282075-15**

**Date Collected: 05/22/24 18:40**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 13:21 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-D**

**Lab Sample ID: 310-282075-15**

Date Collected: 05/22/24 18:40

Matrix: Water

Date Received: 05/24/24 14:55

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 80 - 120 |          | 05/29/24 13:21 | 1       |
| Dibromofluoromethane (Surr) | 103       |           | 73 - 130 |          | 05/29/24 13:21 | 1       |
| Toluene-d8 (Surr)           | 97        |           | 80 - 120 |          | 05/29/24 13:21 | 1       |

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

| Analyte         | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>0.00212</b> |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |
| <b>Barium</b>   | <b>0.0896</b>  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |
| Cadmium         | <0.000200      |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |
| Cobalt          | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 21:19 | 1       |
| Lead            | <0.000500      |           | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |
| Nickel          | <0.00500       |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |
| <b>Selenium</b> | <b>0.00688</b> |           | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |
| Zinc            | <0.0200        |           | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 17:16 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | <1.9   |           | 1.9 |     | mg/L |   |          | 05/28/24 13:38 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: Trip Blank 1**

**Lab Sample ID: 310-282075-16**

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 08:16 | 1       |

# Client Sample Results

Client: SCS Engineers  
Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
LF

Job ID: 310-282075-1

**Client Sample ID: Trip Blank 1**

**Lab Sample ID: 310-282075-16**

**Date Collected: 05/22/24 00:00**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| <i>Surrogate</i>            | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 108              |                  | 80 - 120      |                 | 05/29/24 08:16  | 1              |
| Dibromofluoromethane (Surr) | 101              |                  | 73 - 130      |                 | 05/29/24 08:16  | 1              |
| Toluene-d8 (Surr)           | 98               |                  | 80 - 120      |                 | 05/29/24 08:16  | 1              |

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

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: Trip Blank 2**

**Lab Sample ID: 310-282075-17**

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/24/24 14:55

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 08:37 | 1       |

# Client Sample Results

Client: SCS Engineers  
Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
LF

Job ID: 310-282075-1

**Client Sample ID: Trip Blank 2**

**Lab Sample ID: 310-282075-17**

**Date Collected: 05/22/24 00:00**

**Matrix: Water**

**Date Received: 05/24/24 14:55**

| <i>Surrogate</i>            | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 106              |                  | 80 - 120      |                 | 05/29/24 08:37  | 1              |
| Dibromofluoromethane (Surr) | 102              |                  | 73 - 130      |                 | 05/29/24 08:37  | 1              |
| Toluene-d8 (Surr)           | 98               |                  | 80 - 120      |                 | 05/29/24 08:37  | 1              |

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



# Definitions/Glossary

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                          |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits. |

### Metals

| Qualifier | Qualifier Description                          |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| ▫              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| 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   |

# Surrogate Summary

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | BFB      | DBFM     | TOL      |
|------------------|--------------------|----------|----------|----------|
|                  |                    | (80-120) | (73-130) | (80-120) |
| 310-282075-5     | MW-22B             | 105      | 101      | 100      |
| 310-282075-5 MS  | MW-22B             | 101      | 96       | 103      |
| 310-282075-5 MSD | MW-22B             | 100      | 96       | 103      |
| 310-282075-6     | MW-23              | 104      | 103      | 97       |
| 310-282075-7     | MW-25              | 103      | 102      | 100      |
| 310-282075-8     | MW-19              | 101      | 104      | 99       |
| 310-282075-9     | MWPz-16A           | 108      | 105      | 98       |
| 310-282075-10    | MW-12              | 105      | 104      | 98       |
| 310-282075-11    | MW-18              | 104      | 103      | 104      |
| 310-282075-12    | MW-26              | 105      | 106      | 98       |
| 310-282075-13    | MW-20              | 107      | 103      | 97       |
| 310-282075-14    | MW-28              | 106      | 104      | 97       |
| 310-282075-15    | MW-D               | 108      | 103      | 97       |
| 310-282075-16    | Trip Blank 1       | 108      | 101      | 98       |
| 310-282075-17    | Trip Blank 2       | 106      | 102      | 98       |
| LCS 310-422834/6 | Lab Control Sample | 103      | 96       | 103      |
| LCS 310-422834/7 | Lab Control Sample | 108      | 101      | 99       |
| MB 310-422834/5  | Method Blank       | 106      | 100      | 101      |

#### Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-422834/5

Matrix: Water

Analysis Batch: 422834

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB     | MB        | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
|                             | Result | Qualifier |       |     |      |   |          |                |         |
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 05/29/24 07:10 | 1       |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-422834/5

Matrix: Water

Analysis Batch: 422834

Client Sample ID: Method Blank

Prep Type: Total/NA

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106          |              | 80 - 120 |          | 05/29/24 07:10 | 1       |
| Dibromofluoromethane (Surr) | 100          |              | 73 - 130 |          | 05/29/24 07:10 | 1       |
| Toluene-d8 (Surr)           | 101          |              | 80 - 120 |          | 05/29/24 07:10 | 1       |

Lab Sample ID: LCS 310-422834/6

Matrix: Water

Analysis Batch: 422834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Acetone                     | 40.0        | 37.78      |               | ug/L |   | 94   | 50 - 150    |
| Acrylonitrile               | 200         | 203.8      |               | ug/L |   | 102  | 50 - 150    |
| Benzene                     | 20.0        | 20.25      |               | ug/L |   | 101  | 72 - 124    |
| Bromochloromethane          | 20.0        | 19.19      |               | ug/L |   | 96   | 73 - 130    |
| Bromodichloromethane        | 20.0        | 18.86      |               | ug/L |   | 94   | 74 - 122    |
| Bromoform                   | 20.0        | 17.96      |               | ug/L |   | 90   | 61 - 122    |
| 2-Butanone (MEK)            | 40.0        | 40.46      |               | ug/L |   | 101  | 50 - 150    |
| Carbon disulfide            | 20.0        | 20.16      |               | ug/L |   | 101  | 59 - 135    |
| Carbon tetrachloride        | 20.0        | 19.79      |               | ug/L |   | 99   | 67 - 132    |
| Chlorobenzene               | 20.0        | 20.07      |               | ug/L |   | 100  | 76 - 120    |
| Chlorodibromomethane        | 20.0        | 18.80      |               | ug/L |   | 94   | 71 - 121    |
| Chloroform                  | 20.0        | 19.24      |               | ug/L |   | 96   | 72 - 125    |
| cis-1,2-Dichloroethene      | 20.0        | 19.52      |               | ug/L |   | 98   | 74 - 123    |
| cis-1,3-Dichloropropene     | 20.0        | 19.69      |               | ug/L |   | 98   | 71 - 125    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 19.34      |               | ug/L |   | 97   | 50 - 150    |
| 1,2-Dibromoethane (EDB)     | 20.0        | 19.06      |               | ug/L |   | 95   | 75 - 125    |
| Dibromomethane              | 20.0        | 19.05      |               | ug/L |   | 95   | 74 - 125    |
| 1,2-Dichlorobenzene         | 20.0        | 20.14      |               | ug/L |   | 101  | 74 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 19.13      |               | ug/L |   | 96   | 72 - 120    |
| 1,1,1-Dichloroethane        | 20.0        | 20.19      |               | ug/L |   | 101  | 70 - 127    |
| 1,2-Dichloroethane          | 20.0        | 18.46      |               | ug/L |   | 92   | 71 - 125    |
| 1,1-Dichloroethene          | 20.0        | 19.88      |               | ug/L |   | 99   | 63 - 132    |
| 1,2-Dichloropropane         | 20.0        | 19.97      |               | ug/L |   | 100  | 73 - 124    |
| Ethylbenzene                | 20.0        | 20.91      |               | ug/L |   | 105  | 74 - 122    |
| 2-Hexanone                  | 40.0        | 38.21      |               | ug/L |   | 96   | 60 - 140    |
| Iodomethane                 | 20.0        | 14.22      |               | ug/L |   | 71   | 10 - 150    |
| Methylene Chloride          | 20.0        | 21.35      |               | ug/L |   | 107  | 50 - 150    |
| 4-Methyl-2-pentanone (MIBK) | 40.0        | 40.10      |               | ug/L |   | 100  | 60 - 139    |
| Styrene                     | 20.0        | 20.28      |               | ug/L |   | 101  | 74 - 121    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 19.66      |               | ug/L |   | 98   | 71 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 19.44      |               | ug/L |   | 97   | 68 - 124    |
| Tetrachloroethene           | 20.0        | 18.94      |               | ug/L |   | 95   | 71 - 130    |
| Toluene                     | 20.0        | 19.69      |               | ug/L |   | 98   | 74 - 123    |
| trans-1,4-Dichloro-2-butene | 20.0        | 18.03      |               | ug/L |   | 90   | 50 - 150    |
| trans-1,2-Dichloroethene    | 20.0        | 19.68      |               | ug/L |   | 98   | 70 - 126    |
| trans-1,3-Dichloropropene   | 20.0        | 18.37      |               | ug/L |   | 92   | 69 - 123    |
| 1,1,1-Trichloroethane       | 20.0        | 19.27      |               | ug/L |   | 96   | 73 - 129    |
| 1,1,2-Trichloroethane       | 20.0        | 20.05      |               | ug/L |   | 100  | 73 - 123    |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-422834/6

Matrix: Water

Analysis Batch: 422834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS    | LCS       | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|--------|-----------|------|---|------|-------------|
|                        |             | Result | Qualifier |      |   |      |             |
| Trichloroethene        | 20.0        | 20.20  |           | ug/L |   | 101  | 72 - 126    |
| 1,2,3-Trichloropropane | 20.0        | 20.27  |           | ug/L |   | 101  | 65 - 127    |
| Vinyl acetate          | 40.0        | 35.48  |           | ug/L |   | 89   | 50 - 150    |
| Xylenes, Total         | 40.0        | 41.13  |           | ug/L |   | 103  | 73 - 123    |

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 103       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 96        |           | 73 - 130 |
| Toluene-d8 (Surr)           | 103       |           | 80 - 120 |

Lab Sample ID: LCS 310-422834/7

Matrix: Water

Analysis Batch: 422834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS    | LCS       | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|--------|-----------|------|---|------|-------------|
|                        |             | Result | Qualifier |      |   |      |             |
| Bromomethane           | 20.0        | 17.76  |           | ug/L |   | 89   | 23 - 150    |
| Chloroethane           | 20.0        | 20.36  |           | ug/L |   | 102  | 54 - 136    |
| Chloromethane          | 20.0        | 21.92  |           | ug/L |   | 110  | 38 - 150    |
| Trichlorofluoromethane | 20.0        | 19.06  |           | ug/L |   | 95   | 54 - 149    |
| Vinyl chloride         | 20.0        | 21.63  |           | ug/L |   | 108  | 56 - 140    |

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 108       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 101       |           | 73 - 130 |
| Toluene-d8 (Surr)           | 99        |           | 80 - 120 |

Lab Sample ID: 310-282075-5 MS

Matrix: Water

Analysis Batch: 422834

Client Sample ID: MW-22B

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS     | MS        | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|--------|-----------|------|---|------|-------------|
|                             |               |                  |             | Result | Qualifier |      |   |      |             |
| Acetone                     | 14.0          |                  | 50.0        | 54.41  |           | ug/L |   | 81   | 31 - 150    |
| Acrylonitrile               | <5.00         |                  | 250         | 235.6  |           | ug/L |   | 94   | 40 - 150    |
| Benzene                     | 2.31          |                  | 25.0        | 24.59  |           | ug/L |   | 89   | 46 - 130    |
| Bromochloromethane          | <5.00         |                  | 25.0        | 21.70  |           | ug/L |   | 87   | 57 - 130    |
| Bromodichloromethane        | <1.00         |                  | 25.0        | 21.63  |           | ug/L |   | 87   | 57 - 130    |
| Bromoform                   | <5.00         |                  | 25.0        | 20.73  |           | ug/L |   | 83   | 44 - 130    |
| 2-Butanone (MEK)            | <10.0         |                  | 50.0        | 49.65  |           | ug/L |   | 99   | 38 - 150    |
| Carbon disulfide            | <1.00         |                  | 25.0        | 23.39  |           | ug/L |   | 94   | 38 - 135    |
| Carbon tetrachloride        | <2.00         |                  | 25.0        | 20.51  |           | ug/L |   | 82   | 45 - 132    |
| Chlorobenzene               | <1.00         |                  | 25.0        | 22.42  |           | ug/L |   | 90   | 59 - 130    |
| Chlorodibromomethane        | <5.00         |                  | 25.0        | 20.90  |           | ug/L |   | 84   | 54 - 130    |
| Chloroform                  | <3.00         |                  | 25.0        | 21.50  |           | ug/L |   | 86   | 51 - 130    |
| cis-1,2-Dichloroethene      | 77.6          | F1               | 25.0        | 88.20  | F1        | ug/L |   | 43   | 45 - 130    |
| cis-1,3-Dichloropropene     | <5.00         |                  | 25.0        | 21.73  |           | ug/L |   | 87   | 53 - 130    |
| 1,2-Dibromo-3-Chloropropane | <5.00         |                  | 25.0        | 24.92  |           | ug/L |   | 100  | 38 - 150    |
| 1,2-Dibromoethane (EDB)     | <1.00         |                  | 25.0        | 21.99  |           | ug/L |   | 88   | 60 - 130    |

Eurofins Cedar Falls



# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-282075-5 MS

Matrix: Water

Analysis Batch: 422834

Client Sample ID: MW-22B

Prep Type: Total/NA

| Analyte                     | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec     | Limits |
|-----------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--------|
|                             | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |        |
| Dibromomethane              | <1.00  |           | 25.0  | 22.28  |           | ug/L |   | 89   | 59 - 130 |        |
| 1,2-Dichlorobenzene         | <1.00  |           | 25.0  | 22.75  |           | ug/L |   | 91   | 59 - 130 |        |
| 1,4-Dichlorobenzene         | <1.00  |           | 25.0  | 21.82  |           | ug/L |   | 87   | 57 - 130 |        |
| 1,1-Dichloroethane          | <1.00  |           | 25.0  | 22.69  |           | ug/L |   | 91   | 49 - 130 |        |
| 1,2-Dichloroethane          | <1.00  |           | 25.0  | 21.46  |           | ug/L |   | 86   | 51 - 130 |        |
| 1,1-Dichloroethene          | <2.00  |           | 25.0  | 21.11  |           | ug/L |   | 84   | 37 - 132 |        |
| 1,2-Dichloropropane         | <1.00  |           | 25.0  | 23.20  |           | ug/L |   | 93   | 57 - 130 |        |
| Ethylbenzene                | <1.00  |           | 25.0  | 22.89  |           | ug/L |   | 92   | 45 - 130 |        |
| 2-Hexanone                  | <10.0  |           | 50.0  | 44.89  |           | ug/L |   | 90   | 46 - 140 |        |
| Iodomethane                 | <10.0  |           | 25.0  | 17.10  |           | ug/L |   | 68   | 10 - 150 |        |
| Methylene Chloride          | <5.00  |           | 25.0  | 24.49  |           | ug/L |   | 98   | 37 - 150 |        |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 50.0  | 47.03  |           | ug/L |   | 94   | 47 - 139 |        |
| Styrene                     | <1.00  |           | 25.0  | 22.40  |           | ug/L |   | 90   | 47 - 130 |        |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 25.0  | 21.49  |           | ug/L |   | 86   | 55 - 130 |        |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 25.0  | 22.43  |           | ug/L |   | 90   | 54 - 130 |        |
| Tetrachloroethene           | <1.00  |           | 25.0  | 21.00  |           | ug/L |   | 84   | 47 - 130 |        |
| Toluene                     | <1.00  |           | 25.0  | 21.84  |           | ug/L |   | 87   | 51 - 130 |        |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 25.0  | 20.25  |           | ug/L |   | 81   | 26 - 150 |        |
| trans-1,2-Dichloroethene    | 1.08   |           | 25.0  | 22.53  |           | ug/L |   | 86   | 48 - 130 |        |
| trans-1,3-Dichloropropene   | <5.00  |           | 25.0  | 20.51  |           | ug/L |   | 82   | 50 - 130 |        |
| 1,1,1-Trichloroethane       | <1.00  |           | 25.0  | 20.54  |           | ug/L |   | 82   | 52 - 130 |        |
| 1,1,2-Trichloroethane       | <1.00  |           | 25.0  | 23.06  |           | ug/L |   | 92   | 58 - 130 |        |
| Trichloroethene             | <1.00  |           | 25.0  | 21.83  |           | ug/L |   | 87   | 51 - 130 |        |
| 1,2,3-Trichloropropane      | <1.00  |           | 25.0  | 21.51  |           | ug/L |   | 86   | 49 - 130 |        |
| Vinyl acetate               | <10.0  |           | 50.0  | 40.08  |           | ug/L |   | 80   | 29 - 150 |        |
| Xylenes, Total              | <3.00  |           | 50.0  | 44.71  |           | ug/L |   | 89   | 43 - 130 |        |

| Surrogate                   | MS        | MS        | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 101       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 96        |           | 73 - 130 |
| Toluene-d8 (Surr)           | 103       |           | 80 - 120 |

Lab Sample ID: 310-282075-5 MSD

Matrix: Water

Analysis Batch: 422834

Client Sample ID: MW-22B

Prep Type: Total/NA

| Analyte              | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | Limits | RPD | Limit |
|----------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--------|-----|-------|
|                      | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |        |     |       |
| Acetone              | 14.0   |           | 50.0  | 51.54  |           | ug/L |   | 75   | 31 - 150 | 5      | 29  |       |
| Acrylonitrile        | <5.00  |           | 25.0  | 225.2  |           | ug/L |   | 90   | 40 - 150 | 4      | 20  |       |
| Benzene              | 2.31   |           | 25.0  | 22.89  |           | ug/L |   | 82   | 46 - 130 | 7      | 20  |       |
| Bromochloromethane   | <5.00  |           | 25.0  | 20.28  |           | ug/L |   | 81   | 57 - 130 | 7      | 20  |       |
| Bromodichloromethane | <1.00  |           | 25.0  | 20.21  |           | ug/L |   | 81   | 57 - 130 | 7      | 20  |       |
| Bromoform            | <5.00  |           | 25.0  | 19.28  |           | ug/L |   | 77   | 44 - 130 | 7      | 20  |       |
| 2-Butanone (MEK)     | <10.0  |           | 50.0  | 46.94  |           | ug/L |   | 94   | 38 - 150 | 6      | 20  |       |
| Carbon disulfide     | <1.00  |           | 25.0  | 20.90  |           | ug/L |   | 84   | 38 - 135 | 11     | 30  |       |
| Carbon tetrachloride | <2.00  |           | 25.0  | 19.24  |           | ug/L |   | 77   | 45 - 132 | 6      | 20  |       |
| Chlorobenzene        | <1.00  |           | 25.0  | 20.66  |           | ug/L |   | 83   | 59 - 130 | 8      | 20  |       |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-282075-5 MSD

Matrix: Water

Analysis Batch: 422834

Client Sample ID: MW-22B

Prep Type: Total/NA

| Analyte                     | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD   |
|-----------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                             | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     | Limit |
| Chlorodibromomethane        | <5.00  |           | 25.0  | 20.01  |           | ug/L |   | 80   | 54 - 130 | 4   | 20    |
| Chloroform                  | <3.00  |           | 25.0  | 20.11  |           | ug/L |   | 80   | 51 - 130 | 7   | 20    |
| cis-1,2-Dichloroethene      | 77.6   | F1        | 25.0  | 82.07  | F1        | ug/L |   | 18   | 45 - 130 | 7   | 20    |
| cis-1,3-Dichloropropene     | <5.00  |           | 25.0  | 20.75  |           | ug/L |   | 83   | 53 - 130 | 5   | 20    |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 25.0  | 21.63  |           | ug/L |   | 87   | 38 - 150 | 14  | 20    |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 25.0  | 20.56  |           | ug/L |   | 82   | 60 - 130 | 7   | 20    |
| Dibromomethane              | <1.00  |           | 25.0  | 21.00  |           | ug/L |   | 84   | 59 - 130 | 6   | 20    |
| 1,2-Dichlorobenzene         | <1.00  |           | 25.0  | 21.55  |           | ug/L |   | 86   | 59 - 130 | 5   | 20    |
| 1,4-Dichlorobenzene         | <1.00  |           | 25.0  | 20.82  |           | ug/L |   | 83   | 57 - 130 | 5   | 20    |
| 1,1-Dichloroethane          | <1.00  |           | 25.0  | 20.99  |           | ug/L |   | 84   | 49 - 130 | 8   | 20    |
| 1,2-Dichloroethane          | <1.00  |           | 25.0  | 20.00  |           | ug/L |   | 80   | 51 - 130 | 7   | 20    |
| 1,1-Dichloroethene          | <2.00  |           | 25.0  | 19.61  |           | ug/L |   | 78   | 37 - 132 | 7   | 26    |
| 1,2-Dichloropropane         | <1.00  |           | 25.0  | 21.60  |           | ug/L |   | 86   | 57 - 130 | 7   | 20    |
| Ethylbenzene                | <1.00  |           | 25.0  | 21.18  |           | ug/L |   | 85   | 45 - 130 | 8   | 20    |
| 2-Hexanone                  | <10.0  |           | 50.0  | 44.17  |           | ug/L |   | 88   | 46 - 140 | 2   | 20    |
| Iodomethane                 | <10.0  |           | 25.0  | 20.73  |           | ug/L |   | 83   | 10 - 150 | 19  | 35    |
| Methylene Chloride          | <5.00  |           | 25.0  | 23.13  |           | ug/L |   | 93   | 37 - 150 | 6   | 24    |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 50.0  | 45.26  |           | ug/L |   | 91   | 47 - 139 | 4   | 20    |
| Styrene                     | <1.00  |           | 25.0  | 20.73  |           | ug/L |   | 83   | 47 - 130 | 8   | 20    |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 25.0  | 20.35  |           | ug/L |   | 81   | 55 - 130 | 5   | 20    |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 25.0  | 21.14  |           | ug/L |   | 85   | 54 - 130 | 6   | 20    |
| Tetrachloroethene           | <1.00  |           | 25.0  | 19.70  |           | ug/L |   | 79   | 47 - 130 | 6   | 20    |
| Toluene                     | <1.00  |           | 25.0  | 20.02  |           | ug/L |   | 80   | 51 - 130 | 9   | 20    |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 25.0  | 18.53  |           | ug/L |   | 74   | 26 - 150 | 9   | 23    |
| trans-1,2-Dichloroethene    | 1.08   |           | 25.0  | 20.76  |           | ug/L |   | 79   | 48 - 130 | 8   | 22    |
| trans-1,3-Dichloropropene   | <5.00  |           | 25.0  | 19.96  |           | ug/L |   | 80   | 50 - 130 | 3   | 20    |
| 1,1,1-Trichloroethane       | <1.00  |           | 25.0  | 18.84  |           | ug/L |   | 75   | 52 - 130 | 9   | 20    |
| 1,1,2-Trichloroethane       | <1.00  |           | 25.0  | 21.40  |           | ug/L |   | 86   | 58 - 130 | 7   | 20    |
| Trichloroethene             | <1.00  |           | 25.0  | 20.76  |           | ug/L |   | 83   | 51 - 130 | 5   | 20    |
| 1,2,3-Trichloropropane      | <1.00  |           | 25.0  | 21.28  |           | ug/L |   | 85   | 49 - 130 | 1   | 26    |
| Vinyl acetate               | <10.0  |           | 50.0  | 36.03  |           | ug/L |   | 72   | 29 - 150 | 11  | 23    |
| Xylenes, Total              | <3.00  |           | 50.0  | 42.15  |           | ug/L |   | 84   | 43 - 130 | 6   | 20    |

| Surrogate                   | MSD       | MSD       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 100       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 96        |           | 73 - 130 |
| Toluene-d8 (Surr)           | 103       |           | 80 - 120 |

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

Lab Sample ID: MB 310-422896/1-A

Matrix: Water

Analysis Batch: 423569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422896

| Analyte | MB        | MB        | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
|         | Result    | Qualifier |          |     |      |   |                |                |         |
| Arsenic | <0.00200  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |
| Barium  | <0.00200  |           | 0.00200  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |
| Cadmium | <0.000200 |           | 0.000200 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

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

**Lab Sample ID: MB 310-422896/1-A**  
**Matrix: Water**  
**Analysis Batch: 423569**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte  | MB Result | MB Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|----------|-----|------|---|----------------|----------------|---------|
| Lead     | <0.000500 |              | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |
| Nickel   | <0.00500  |              | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |
| Selenium | <0.00500  |              | 0.00500  |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |
| Zinc     | <0.0200   |              | 0.0200   |     | mg/L |   | 05/29/24 09:30 | 06/04/24 16:16 | 1       |

**Lab Sample ID: MB 310-422896/1-A**  
**Matrix: Water**  
**Analysis Batch: 423728**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | MB Result | MB Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|----------|-----|------|---|----------------|----------------|---------|
| Cobalt  | <0.000500 |              | 0.000500 |     | mg/L |   | 05/29/24 09:30 | 06/05/24 19:59 | 1       |

**Lab Sample ID: MB 310-422896/1-A**  
**Matrix: Water**  
**Analysis Batch: 424361**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | MB Result | MB Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Silver  | <0.00100  |              | 0.00100 |     | mg/L |   | 05/29/24 09:30 | 06/12/24 14:58 | 1       |

**Lab Sample ID: LCS 310-422896/2-A**  
**Matrix: Water**  
**Analysis Batch: 423569**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic  | 0.200       | 0.2053     |               | mg/L |   | 103  | 80 - 120    |
| Barium   | 0.100       | 0.1113     |               | mg/L |   | 111  | 80 - 120    |
| Cadmium  | 0.100       | 0.1012     |               | mg/L |   | 101  | 80 - 120    |
| Lead     | 0.200       | 0.1985     |               | mg/L |   | 99   | 80 - 120    |
| Nickel   | 0.200       | 0.1968     |               | mg/L |   | 98   | 80 - 120    |
| Selenium | 0.400       | 0.4044     |               | mg/L |   | 101  | 80 - 120    |
| Zinc     | 0.200       | 0.1940     |               | mg/L |   | 97   | 80 - 120    |

**Lab Sample ID: LCS 310-422896/2-A**  
**Matrix: Water**  
**Analysis Batch: 423728**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Cobalt  | 0.100       | 0.1024     |               | mg/L |   | 102  | 80 - 120    |

**Lab Sample ID: LCS 310-422896/2-A**  
**Matrix: Water**  
**Analysis Batch: 424361**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Silver  | 0.100       | 0.1091     |               | mg/L |   | 109  | 80 - 120    |

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

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

**Lab Sample ID: 310-282075-1 MS**  
**Matrix: Water**  
**Analysis Batch: 424262**

**Client Sample ID: MW-27**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte   | Sample    | Sample Qualifier | Spike Added | MS      | MS        | Unit | D | %Rec | %Rec     |        |
|-----------|-----------|------------------|-------------|---------|-----------|------|---|------|----------|--------|
|           | Result    |                  |             | Result  | Qualifier |      |   |      | Limits   | Limits |
| Antimony  | <0.00200  |                  | 0.200       | 0.2194  |           | mg/L |   | 110  | 75 - 125 |        |
| Arsenic   | <0.00200  |                  | 0.200       | 0.2180  |           | mg/L |   | 108  | 75 - 125 |        |
| Barium    | 0.0479    |                  | 0.100       | 0.1520  |           | mg/L |   | 104  | 75 - 125 |        |
| Beryllium | <0.00100  |                  | 0.100       | 0.1042  |           | mg/L |   | 104  | 75 - 125 |        |
| Cadmium   | <0.000200 |                  | 0.100       | 0.1016  |           | mg/L |   | 101  | 75 - 125 |        |
| Chromium  | <0.00500  |                  | 0.100       | 0.1007  |           | mg/L |   | 101  | 75 - 125 |        |
| Cobalt    | <0.000500 |                  | 0.100       | 0.1015  |           | mg/L |   | 101  | 75 - 125 |        |
| Copper    | <0.00500  |                  | 0.200       | 0.1977  |           | mg/L |   | 99   | 75 - 125 |        |
| Lead      | <0.000500 |                  | 0.200       | 0.2048  |           | mg/L |   | 102  | 75 - 125 |        |
| Nickel    | 0.00534   |                  | 0.200       | 0.2133  |           | mg/L |   | 104  | 75 - 125 |        |
| Selenium  | 0.00592   |                  | 0.400       | 0.4221  |           | mg/L |   | 104  | 75 - 125 |        |
| Thallium  | <0.00100  | F1               | 0.100       | 0.08096 |           | mg/L |   | 81   | 75 - 125 |        |
| Vanadium  | <0.00500  |                  | 0.100       | 0.1022  |           | mg/L |   | 100  | 75 - 125 |        |
| Zinc      | <0.0200   |                  | 0.200       | 0.1997  |           | mg/L |   | 100  | 75 - 125 |        |

**Lab Sample ID: 310-282075-1 MS**  
**Matrix: Water**  
**Analysis Batch: 424361**

**Client Sample ID: MW-27**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | Sample   | Sample Qualifier | Spike Added | MS     | MS        | Unit | D | %Rec | %Rec     |        |
|---------|----------|------------------|-------------|--------|-----------|------|---|------|----------|--------|
|         | Result   |                  |             | Result | Qualifier |      |   |      | Limits   | Limits |
| Silver  | <0.00100 |                  | 0.100       | 0.1082 |           | mg/L |   | 108  | 75 - 125 |        |

**Lab Sample ID: 310-282075-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 424262**

**Client Sample ID: MW-27**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte   | Sample    | Sample Qualifier | Spike Added | MSD     | MSD       | Unit | D | %Rec | %Rec     |        | RPD |       |
|-----------|-----------|------------------|-------------|---------|-----------|------|---|------|----------|--------|-----|-------|
|           | Result    |                  |             | Result  | Qualifier |      |   |      | Limits   | Limits | RPD | Limit |
| Antimony  | <0.00200  |                  | 0.200       | 0.2092  |           | mg/L |   | 105  | 75 - 125 | 5      | 20  |       |
| Arsenic   | <0.00200  |                  | 0.200       | 0.2095  |           | mg/L |   | 104  | 75 - 125 | 4      | 20  |       |
| Barium    | 0.0479    |                  | 0.100       | 0.1462  |           | mg/L |   | 98   | 75 - 125 | 4      | 20  |       |
| Beryllium | <0.00100  |                  | 0.100       | 0.09735 |           | mg/L |   | 97   | 75 - 125 | 7      | 20  |       |
| Cadmium   | <0.000200 |                  | 0.100       | 0.09554 |           | mg/L |   | 95   | 75 - 125 | 6      | 20  |       |
| Chromium  | <0.00500  |                  | 0.100       | 0.09344 |           | mg/L |   | 93   | 75 - 125 | 7      | 20  |       |
| Cobalt    | <0.000500 |                  | 0.100       | 0.09529 |           | mg/L |   | 95   | 75 - 125 | 6      | 20  |       |
| Copper    | <0.00500  |                  | 0.200       | 0.1890  |           | mg/L |   | 94   | 75 - 125 | 5      | 20  |       |
| Lead      | <0.000500 |                  | 0.200       | 0.1924  |           | mg/L |   | 96   | 75 - 125 | 6      | 20  |       |
| Nickel    | 0.00534   |                  | 0.200       | 0.2029  |           | mg/L |   | 99   | 75 - 125 | 5      | 20  |       |
| Selenium  | 0.00592   |                  | 0.400       | 0.4117  |           | mg/L |   | 101  | 75 - 125 | 3      | 20  |       |
| Thallium  | <0.00100  | F1               | 0.100       | 0.07441 | F1        | mg/L |   | 74   | 75 - 125 | 8      | 20  |       |
| Vanadium  | <0.00500  |                  | 0.100       | 0.09646 |           | mg/L |   | 94   | 75 - 125 | 6      | 20  |       |
| Zinc      | <0.0200   |                  | 0.200       | 0.1913  |           | mg/L |   | 96   | 75 - 125 | 4      | 20  |       |

**Lab Sample ID: 310-282075-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 424361**

**Client Sample ID: MW-27**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | Sample   | Sample Qualifier | Spike Added | MSD    | MSD       | Unit | D | %Rec | %Rec     |        | RPD |       |
|---------|----------|------------------|-------------|--------|-----------|------|---|------|----------|--------|-----|-------|
|         | Result   |                  |             | Result | Qualifier |      |   |      | Limits   | Limits | RPD | Limit |
| Silver  | <0.00100 |                  | 0.100       | 0.1076 |           | mg/L |   | 108  | 75 - 125 | 1      | 20  |       |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

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

**Lab Sample ID: 310-282075-12 DU**  
**Matrix: Water**  
**Analysis Batch: 423569**

**Client Sample ID: MW-26**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte  | Sample    | Sample    | DU        | DU        | Unit | D | RPD | RPD   |
|----------|-----------|-----------|-----------|-----------|------|---|-----|-------|
|          | Result    | Qualifier | Result    | Qualifier |      |   |     | Limit |
| Arsenic  | <0.00200  |           | <0.00200  |           | mg/L |   | NC  | 20    |
| Barium   | 0.0925    |           | 0.09398   |           | mg/L |   | 2   | 20    |
| Cadmium  | <0.000200 |           | <0.000200 |           | mg/L |   | NC  | 20    |
| Lead     | <0.000500 |           | <0.000500 |           | mg/L |   | NC  | 20    |
| Nickel   | <0.00500  |           | <0.00500  |           | mg/L |   | NC  | 20    |
| Selenium | 0.00866   |           | 0.008784  |           | mg/L |   | 1   | 20    |
| Zinc     | <0.0200   |           | <0.0200   |           | mg/L |   | NC  | 20    |

**Lab Sample ID: 310-282075-12 DU**  
**Matrix: Water**  
**Analysis Batch: 423728**

**Client Sample ID: MW-26**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | Sample    | Sample    | DU        | DU        | Unit | D | RPD | RPD   |
|---------|-----------|-----------|-----------|-----------|------|---|-----|-------|
|         | Result    | Qualifier | Result    | Qualifier |      |   |     | Limit |
| Cobalt  | <0.000500 |           | <0.000500 |           | mg/L |   | NC  | 20    |

**Lab Sample ID: 310-282075-12 DU**  
**Matrix: Water**  
**Analysis Batch: 424361**

**Client Sample ID: MW-26**  
**Prep Type: Total/NA**  
**Prep Batch: 422896**

| Analyte | Sample   | Sample    | DU       | DU        | Unit | D | RPD | RPD   |
|---------|----------|-----------|----------|-----------|------|---|-----|-------|
|         | Result   | Qualifier | Result   | Qualifier |      |   |     | Limit |
| Silver  | <0.00100 |           | <0.00100 |           | mg/L |   | NC  | 20    |

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

**Lab Sample ID: MB 310-422877/1**  
**Matrix: Water**  
**Analysis Batch: 422877**

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

| Analyte                | MB     | MB        | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
|                        | Result | Qualifier |     |     |      |   |          |                |         |
| Total Suspended Solids | <5.0   |           | 5.0 |     | mg/L |   |          | 05/28/24 13:38 | 1       |

**Lab Sample ID: LCS 310-422877/2**  
**Matrix: Water**  
**Analysis Batch: 422877**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
|         |             |            |               |      |   |      |             |

**Lab Sample ID: MB 310-422958/1**  
**Matrix: Water**  
**Analysis Batch: 422958**

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

| Analyte                | MB     | MB        | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
|                        | Result | Qualifier |     |     |      |   |          |                |         |
| Total Suspended Solids | <5.0   |           | 5.0 |     | mg/L |   |          | 05/29/24 09:32 | 1       |

Eurofins Cedar Falls



# QC Sample Results

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

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

**Lab Sample ID: LCS 310-422958/2**  
**Matrix: Water**  
**Analysis Batch: 422958**

**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         | 104.0      |               | mg/L |   | 104  | 81 - 116    |

**Lab Sample ID: MB 310-423000/1**  
**Matrix: Water**  
**Analysis Batch: 423000**

**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 | <5.0      |              | 5.0 |     | mg/L |   |          | 05/29/24 13:05 | 1       |

**Lab Sample ID: LCS 310-423000/2**  
**Matrix: Water**  
**Analysis Batch: 423000**

**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  | 81 - 116    |

# QC Association Summary

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## GC/MS VOA

### Analysis Batch: 422834

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-282075-5     | MW-22B             | Total/NA  | Water  | 8260D  |            |
| 310-282075-6     | MW-23              | Total/NA  | Water  | 8260D  |            |
| 310-282075-7     | MW-25              | Total/NA  | Water  | 8260D  |            |
| 310-282075-8     | MW-19              | Total/NA  | Water  | 8260D  |            |
| 310-282075-9     | MWPz-16A           | Total/NA  | Water  | 8260D  |            |
| 310-282075-10    | MW-12              | Total/NA  | Water  | 8260D  |            |
| 310-282075-11    | MW-18              | Total/NA  | Water  | 8260D  |            |
| 310-282075-12    | MW-26              | Total/NA  | Water  | 8260D  |            |
| 310-282075-13    | MW-20              | Total/NA  | Water  | 8260D  |            |
| 310-282075-14    | MW-28              | Total/NA  | Water  | 8260D  |            |
| 310-282075-15    | MW-D               | Total/NA  | Water  | 8260D  |            |
| 310-282075-16    | Trip Blank 1       | Total/NA  | Water  | 8260D  |            |
| 310-282075-17    | Trip Blank 2       | Total/NA  | Water  | 8260D  |            |
| MB 310-422834/5  | Method Blank       | Total/NA  | Water  | 8260D  |            |
| LCS 310-422834/6 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |
| LCS 310-422834/7 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |
| 310-282075-5 MS  | MW-22B             | Total/NA  | Water  | 8260D  |            |
| 310-282075-5 MSD | MW-22B             | Total/NA  | Water  | 8260D  |            |

## Metals

### Prep Batch: 422896

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-282075-1       | MW-27              | Total/NA  | Water  | 3005A  |            |
| 310-282075-3       | MWPz-8B2           | Total/NA  | Water  | 3005A  |            |
| 310-282075-4       | MW-22A             | Total/NA  | Water  | 3005A  |            |
| 310-282075-5       | MW-22B             | Total/NA  | Water  | 3005A  |            |
| 310-282075-6       | MW-23              | Total/NA  | Water  | 3005A  |            |
| 310-282075-7       | MW-25              | Total/NA  | Water  | 3005A  |            |
| 310-282075-8       | MW-19              | Total/NA  | Water  | 3005A  |            |
| 310-282075-9       | MWPz-16A           | Total/NA  | Water  | 3005A  |            |
| 310-282075-10      | MW-12              | Total/NA  | Water  | 3005A  |            |
| 310-282075-11      | MW-18              | Total/NA  | Water  | 3005A  |            |
| 310-282075-12      | MW-26              | Total/NA  | Water  | 3005A  |            |
| 310-282075-13      | MW-20              | Total/NA  | Water  | 3005A  |            |
| 310-282075-14      | MW-28              | Total/NA  | Water  | 3005A  |            |
| 310-282075-15      | MW-D               | Total/NA  | Water  | 3005A  |            |
| MB 310-422896/1-A  | Method Blank       | Total/NA  | Water  | 3005A  |            |
| LCS 310-422896/2-A | Lab Control Sample | Total/NA  | Water  | 3005A  |            |
| 310-282075-1 MS    | MW-27              | Total/NA  | Water  | 3005A  |            |
| 310-282075-1 MSD   | MW-27              | Total/NA  | Water  | 3005A  |            |
| 310-282075-12 DU   | MW-26              | Total/NA  | Water  | 3005A  |            |

### Analysis Batch: 423569

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-282075-3  | MWPz-8B2         | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-4  | MW-22A           | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-6  | MW-23            | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-7  | MW-25            | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-8  | MW-19            | Total/NA  | Water  | 6020B  | 422896     |

Eurofins Cedar Falls

# QC Association Summary

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## Metals (Continued)

### Analysis Batch: 423569 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-282075-9       | MWPz-16A           | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-10      | MW-12              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-11      | MW-18              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-13      | MW-20              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-15      | MW-D               | Total/NA  | Water  | 6020B  | 422896     |
| MB 310-422896/1-A  | Method Blank       | Total/NA  | Water  | 6020B  | 422896     |
| LCS 310-422896/2-A | Lab Control Sample | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-12 DU   | MW-26              | Total/NA  | Water  | 6020B  | 422896     |

### Analysis Batch: 423728

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-282075-3       | MWPz-8B2           | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-4       | MW-22A             | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-6       | MW-23              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-7       | MW-25              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-8       | MW-19              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-9       | MWPz-16A           | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-10      | MW-12              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-11      | MW-18              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-13      | MW-20              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-15      | MW-D               | Total/NA  | Water  | 6020B  | 422896     |
| MB 310-422896/1-A  | Method Blank       | Total/NA  | Water  | 6020B  | 422896     |
| LCS 310-422896/2-A | Lab Control Sample | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-12 DU   | MW-26              | Total/NA  | Water  | 6020B  | 422896     |

### Analysis Batch: 424262

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 310-282075-1     | MW-27            | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-5     | MW-22B           | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-12    | MW-26            | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-14    | MW-28            | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-1 MS  | MW-27            | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-1 MSD | MW-27            | Total/NA  | Water  | 6020B  | 422896     |

### Analysis Batch: 424361

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-282075-5       | MW-22B             | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-12      | MW-26              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-14      | MW-28              | Total/NA  | Water  | 6020B  | 422896     |
| MB 310-422896/1-A  | Method Blank       | Total/NA  | Water  | 6020B  | 422896     |
| LCS 310-422896/2-A | Lab Control Sample | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-1 MS    | MW-27              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-1 MSD   | MW-27              | Total/NA  | Water  | 6020B  | 422896     |
| 310-282075-12 DU   | MW-26              | Total/NA  | Water  | 6020B  | 422896     |

## General Chemistry

### Analysis Batch: 422877

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method    | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 310-282075-4  | MW-22A           | Total/NA  | Water  | I-3765-85 |            |

Eurofins Cedar Falls

# QC Association Summary

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

## General Chemistry (Continued)

### Analysis Batch: 422877 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 310-282075-5     | MW-22B             | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-13    | MW-20              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-14    | MW-28              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-15    | MW-D               | Total/NA  | Water  | I-3765-85 |            |
| MB 310-422877/1  | Method Blank       | Total/NA  | Water  | I-3765-85 |            |
| LCS 310-422877/2 | Lab Control Sample | Total/NA  | Water  | I-3765-85 |            |

### Analysis Batch: 422958

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 310-282075-1     | MW-27              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-2     | MWPz-8A            | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-3     | MWPz-8B2           | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-6     | MW-23              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-7     | MW-25              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-8     | MW-19              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-9     | MWPz-16A           | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-10    | MW-12              | Total/NA  | Water  | I-3765-85 |            |
| 310-282075-12    | MW-26              | Total/NA  | Water  | I-3765-85 |            |
| MB 310-422958/1  | Method Blank       | Total/NA  | Water  | I-3765-85 |            |
| LCS 310-422958/2 | Lab Control Sample | Total/NA  | Water  | I-3765-85 |            |

### Analysis Batch: 423000

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 310-282075-11    | MW-18              | Total/NA  | Water  | I-3765-85 |            |
| MB 310-423000/1  | Method Blank       | Total/NA  | Water  | I-3765-85 |            |
| LCS 310-423000/2 | Lab Control Sample | Total/NA  | Water  | I-3765-85 |            |

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-27**

**Lab Sample ID: 310-282075-1**

Date Collected: 05/23/24 18:11

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424262       | NFT2          | EET CF | 06/11/24 18:33       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MWPz-8A**

**Lab Sample ID: 310-282075-2**

Date Collected: 05/23/24 14:18

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MWPz-8B2**

**Lab Sample ID: 310-282075-3**

Date Collected: 05/23/24 15:27

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:17       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:31       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MW-22A**

**Lab Sample ID: 310-282075-4**

Date Collected: 05/22/24 16:19

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:21       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:33       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422877       | HE7K          | EET CF | 05/28/24 13:38       |

**Client Sample ID: MW-22B**

**Lab Sample ID: 310-282075-5**

Date Collected: 05/22/24 17:19

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 09:43       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424262       | NFT2          | EET CF | 06/11/24 18:43       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424361       | NFT2          | EET CF | 06/12/24 15:08       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422877       | HE7K          | EET CF | 05/28/24 13:38       |



# Lab Chronicle

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-23**

**Lab Sample ID: 310-282075-6**

Date Collected: 05/23/24 17:23

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 10:05       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:28       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:46       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MW-25**

**Lab Sample ID: 310-282075-7**

Date Collected: 05/23/24 13:16

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 10:26       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:46       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:48       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MW-19**

**Lab Sample ID: 310-282075-8**

Date Collected: 05/23/24 11:53

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 10:48       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:50       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:50       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MWPz-16A**

**Lab Sample ID: 310-282075-9**

Date Collected: 05/23/24 10:43

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 11:10       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:53       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:52       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-12**

**Lab Sample ID: 310-282075-10**

Date Collected: 05/23/24 09:26

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 11:32       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 20:57       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:54       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MW-18**

**Lab Sample ID: 310-282075-11**

Date Collected: 05/24/24 08:53

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 11:53       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 21:01       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 16:57       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 423000       | HE7K          | EET CF | 05/29/24 13:05       |

**Client Sample ID: MW-26**

**Lab Sample ID: 310-282075-12**

Date Collected: 05/23/24 19:03

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 12:15       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424262       | NFT2          | EET CF | 06/11/24 18:46       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424361       | NFT2          | EET CF | 06/12/24 15:10       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422958       | HE7K          | EET CF | 05/29/24 09:32       |

**Client Sample ID: MW-20**

**Lab Sample ID: 310-282075-13**

Date Collected: 05/22/24 18:40

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 12:37       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 21:12       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 17:03       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422877       | HE7K          | EET CF | 05/28/24 13:38       |

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: 1st 2024 Semi-Annual Sampling Kossuth County  
 LF

Job ID: 310-282075-1

**Client Sample ID: MW-28**

**Lab Sample ID: 310-282075-14**

Date Collected: 05/22/24 14:29

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 12:59       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424262       | NFT2          | EET CF | 06/11/24 18:53       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 424361       | NFT2          | EET CF | 06/12/24 15:14       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422877       | HE7K          | EET CF | 05/28/24 13:38       |

**Client Sample ID: MW-D**

**Lab Sample ID: 310-282075-15**

Date Collected: 05/22/24 18:40

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 13:21       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423728       | NFT2          | EET CF | 06/05/24 21:19       |
| Total/NA  | Prep       | 3005A        |     |                 | 422896       | KM3E          | EET CF | 05/29/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 423569       | NFT2          | EET CF | 06/04/24 17:16       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 422877       | HE7K          | EET CF | 05/28/24 13:38       |

**Client Sample ID: Trip Blank 1**

**Lab Sample ID: 310-282075-16**

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 08:16       |

**Client Sample ID: Trip Blank 2**

**Lab Sample ID: 310-282075-17**

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/24/24 14:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 422834       | WSE8          | EET CF | 05/29/24 08:37       |

**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: 1st 2024 Semi-Annual Sampling Kossuth County  
LF

Job ID: 310-282075-1

## 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: 1st 2024 Semi-Annual Sampling Kossuth County  
LF

Job ID: 310-282075-1

| Method    | Method Description                  | Protocol | Laboratory |
|-----------|-------------------------------------|----------|------------|
| 8260D     | Volatile Organic Compounds by GC/MS | SW846    | EET CF     |
| 6020B     | Metals (ICP/MS)                     | SW846    | EET CF     |
| I-3765-85 | Residue, Non-filterable (TSS)       | USGS     | EET CF     |
| 3005A     | Preparation, Total Metals           | SW846    | EET CF     |
| 5030B     | Purge and Trap                      | SW846    | EET CF     |

**Protocol References:**

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

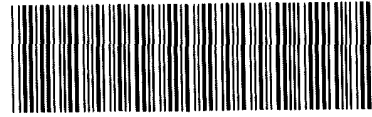
**Laboratory References:**

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





Environment Testing  
America



310-282075 Chain of Custody

### Cooler/Sample Receipt and Temperature Log Form

|   |  |   |              |
|---|--|---|--------------|
| <b>Client Information</b>   |  |   |              |
| Client: <u>SCS</u>  |  |   |              |
| City/State:   | CITY   | STATE   | Project:     |
| <b>Receipt Information</b>  |  |   |              |
| Date/Time Received:   | DATE   | TIME  | Received By: |
|   | <u>5/24/24</u>   | <u>1455</u>   | <u>EM</u>    |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee<br><input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input checked="" type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ |  |   |              |
| <b>Condition of Cooler/Containers</b>   |  |   |              |
| Sample(s) received in Cooler?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Cooler ID:  |              |
| Multiple Coolers?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Cooler # <u>1</u> of <u>2</u>   |              |
| Cooler Custody Seals Present?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |              |
| Sample Custody Seals Present?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |              |
| Trip Blank Present?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Which VOA samples are in cooler? ↓  |              |
| <u>(TB-1) MW-22B, -23, -25, -19</u>   |  |   |              |
| <b>Temperature Record</b>   |  |   |              |
| Coolant:  | <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE |   |              |
| Thermometer ID:   | <u>X</u>   | Correction Factor (°C):   | <u>0</u>     |
| <b>Temp Blank Temperature</b> If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature   |  |   |              |
| Uncorrected Temp (°C):  |  | Corrected Temp (°C):  |              |
| <b>Sample Container Temperature</b>   |  |   |              |
| Container(s) used:  | CONTAINER 1  | CONTAINER 2   |              |
|   | <u>1L Plastic</u>  |   |              |
| Uncorrected Temp (°C):  | <u>-0.7</u>  |   |              |
| Corrected Temp (°C):  | <u>-0.7</u>  |   |              |
| <b>Exceptions/Notes</b>   |  |   |              |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |   |              |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No  |  |   |              |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login   |  |   |              |
| <b>Additional Comments</b>  |  |   |              |
| <u>MWP2-8A 250 nitric had no volume, MW-19 limited</u>  |  |   |              |
| <u>1L plastic volume</u>  |  |   |              |
| <u>MWP2-8A</u>  |  |   |              |





Environment Testing  
America

Place COC scanning label  
here

Cooler/Sample Receipt and Temperature Log Form

|   |  |   |              |
|---|--|---|--------------|
| <b>Client Information</b>   |  |   |              |
| Client: <u>SCS</u>  |  |   |              |
| City/State:   | CITY   | STATE   | Project:     |
| <b>Receipt Information</b>  |  |   |              |
| Date/Time Received:   | DATE   | TIME  | Received By: |
|   | <u>5/24/24</u>   | <u>1455</u>   | <u>GM</u>    |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee<br><input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input checked="" type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ |  |   |              |
| <b>Condition of Cooler/Containers</b>   |  |   |              |
| Sample(s) received in Cooler?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Cooler ID:  |              |
| Multiple Coolers?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Cooler # <u>2</u> of <u>2</u>   |              |
| Cooler Custody Seals Present?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |              |
| Sample Custody Seals Present?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |              |
| Trip Blank Present?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Which VOA samples are in cooler? ↓  |              |
| <u>(TR-2) MW P2-16A, MW-12; -18, -24, -20, -28, -D</u>  |  |   |              |
| <b>Temperature Record</b>   |  |   |              |
| Coolant:  | <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE |   |              |
| Thermometer ID:   | <u>X</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>  |
| <b>Sample Container Temperature</b>   |  |   |              |
| Container(s) used:  | <u>CONTAINER 1</u>   | <u>CONTAINER 2</u>  |              |
| Uncorrected Temp (°C):  |  |   |              |
| Corrected Temp (°C):  |  |   |              |
| <b>Exceptions Noted</b>   |  |   |              |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |   |              |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No  |  |   |              |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login   |  |   |              |
| Additional Comments   |  |   |              |
|   |  |   |              |
|   |  |   |              |

# Chain of Custody Record

|  |  |   |  |  |  |
|--|--|---|--|--|--|
| <b>Client Information</b>                                |  | Lab PM: Yang, Mary E  |  | Carrier Tracking No(s): 310-93183-25576 1              |  |
| Client Contact: Nathan Ohrt                              |  | E-Mail: Mary Yang@ET EurofinsUS.com   |  | State of Origin:                                       |  |
| Company: SCS Engineers                                   |  | PWSID:  |  | Page: Page 1 of 2                                      |  |
| Address: 1690 All State Court Suite 100                  |  | Due Date Requested:   |  | Job #:   |  |
| City: West Des Moines                                    |  | TAT Requested (days):   |  | Preservation Codes:<br>D - HNO3<br>N - None<br>A - HCL |  |
| State Zip: IA, 50265                                     |  | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | Other:   |  |
| Phone: 27223408.24                                       |  | FO #: 27223408.24   |  | Total Number of Containers                             |  |
| Email: nohrt@scsengineers.com                            |  | WO #:   |  | 8260B - (MOD) Volatile Appendix 1 Sublist              |  |
| Project Name: 1st, 2024, Semi-Annual Sampling Kossuth Co |  | Project #: 31016904   |  | 8202B - Appendix 1                                     |  |
| Site:  |  | SSOW#:  |  | 8202B - As, Ba, Cd, Co, Pb, Ni, Se, Zn                 |  |
|  |  |   |  | Perform MS/MSD (Yes or No)                             |  |
|  |  |   |  | Field Filtered Sample (Yes or No)                      |  |
|  |  |   |  | 8202B - A, B, C, D, E                                  |  |
|  |  |   |  | Special Instructions/Note:                             |  |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=water/oil, ST=Slurries, A=As) | Preservation Code | D | N | A | Special Instructions/Note |
|-----------------------|-------------|-------------|------------------------------|---|-------------------|---|---|---|---------------------------|
| MWP-27                | 5/23/24     | 18 11       |                              | Water   |                   | X |   |   |                           |
| MWPz-8A               | 5/23/24     | 14 18       |                              | Water   |                   | X |   |   |                           |
| MWPz-8B2              | 5/23/24     | 5.27        |                              | Water   |                   | X |   |   |                           |
| MWPz-22A              | 5/22/24     | 10.9        |                              | Water   |                   | X |   |   |                           |
| MWPz-22B              | 5/22/24     | 7 9         |                              | Water   |                   | X |   |   |                           |
| MWPz-23               | 5/23/24     | 7 23        |                              | Water   |                   | X |   |   |                           |
| MWPz-25               | 5/23/24     | 13 6        |                              | Water   |                   | X |   |   |                           |
| MWPz-19               | 5/23/24     | 5 53        |                              | Water   |                   | X |   |   |                           |
| MWPz-16A              | 5/23/24     | 0 43        |                              | Water   |                   | X |   |   |                           |
| MWPz-12               | 5/23/24     | 9 26        |                              | Water   |                   | X |   |   |                           |
| MWPz-18               | 5/24/24     | 8 53        |                              | Water   |                   | X |   |   |                           |

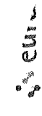
  

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested I, II, III, IV, Other (specify)

**Empty Kit Relinquished by:** \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: *M. Michael Morgan* Date/Time: 5/24/24 11:30 Company: SCS  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Custody Seals Intact:**  Yes  No  
 Cooler Temperature(s) °C and Other Remarks:





|  |  |   |       |  |                         |                                       |                   |   |
|--|--|---|-------|--|-------------------------|---------------------------------------|-------------------|---|
| <b>Client Information</b>  |  | Sampler: <i>M. Wood Morgan</i>  |       | Lab PM   | Carrier Tracking No(s): |                                       | COC No:           |   |
| Client Contact:  |  | Phone: 515 63 0778  |       | Yang, Mary E   | State of Origin:        |                                       | 310-93183-25576 2 |   |
| Company:   |  | PWSID:  |       | E-Mail: Mary.Yang@ET.EurofinsUS.com                    | Page 2 of 2             |                                       | Job #:            |   |
| Address: 1690 All State Court Suite 100  |  | Due Date Requested:   |       | <b>Analysis Requested</b>                              |                         |                                       |                   |   |
| City: West Des Moines  |  | TAT Requested (days):   |       | 6020B - As, Ba, Cd, Co, Pb, Ni, Se, Zn                 |                         |                                       |                   |   |
| State, Zip: IA, 50265  |  | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       | Perform MSM/SD (Yes or No)                             |                         |                                       |                   | 6020B - Appendix 1                        |
| Phone: 27223408, 24  |  | PC #: 27223408, 24  |       | Field Filtered Sample (Yes or No)                      |                         |                                       |                   | 6260D - (MOD) Volatile Appendix 1 Sublist |
| Email: nohrt@scsenengineers.com  |  | WO #: 31016904  |       | Matrix (W=Water, S=solid, O=washoil, BT=Tissue, A=air) |                         |                                       |                   | 6020B - Appendix 1                        |
| Project Name: 1st 2024 Semi-Annual Sampling Kossuth Co   |  | Project #: 31016904   |       | Sample Type (C=Comp, G=grab)                           |                         |                                       |                   | 6020B - Appendix 1                        |
| Site:  |  | SSOW#:  |       | Sample Time  |                         |                                       |                   | 6020B - Appendix 1                        |
| <b>Sample Identification</b>   |  | Sample Date   |       | Sample Time  |                         | Matrix                                |                   |   |
| MW-26  |  | 5/23/24   | 19 03 |  |                         | Water                                 |                   |   |
| MW-20  |  | 5/22/24   | 18 40 |  |                         | Water                                 |                   |   |
| MW-28  |  | 5/22/24   | 4 29  |  |                         | Water                                 |                   |   |
| MW-D   |  | 5/22/24   | 18 40 |  |                         | Water                                 |                   |   |
| Trip Blank 1   |  |   |       |  |                         | Water                                 |                   |   |
| Trip Blank 2   |  |   |       |  |                         | Water                                 |                   |   |
| <b>Possible Hazard Identification</b>  |  | Sample Date   |       | Sample Time  |                         | Matrix                                |                   |   |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | 5/24/24   |       | 11 30  |                         | Company SCS                           |                   |   |
| Deliverable Requested I, II, III, IV, Other (specify)  |  | Date/Time: 5/24/24 11 30  |       | Date/Time: 5-24-24 1455                                |                         | Company                               |                   |   |
| Empty Kit Relinquished by:   |  | Date:   |       | Time:  |                         | Method of Shipment:                   |                   |   |
| Relinquished by: <i>M. Wood Morgan</i>   |  | Date/Time: 5/24/24 11 30  |       | Date/Time: 5-24-24 1455                                |                         | Company                               |                   |   |
| Relinquished by:   |  | Date/Time:  |       | Date/Time:   |                         | Company                               |                   |   |
| Relinquished by:   |  | Date/Time:  |       | Date/Time:   |                         | Company                               |                   |   |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |  | Custody Seal No.:   |       | Cooler Temperature(s) °C and Other Remarks:            |                         | Special Instructions/QC Requirements: |                   |   |



## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-282075-1

**Login Number: 282075**

**List Source: Eurofins Cedar Falls**

**List Number: 1**

**Creator: Costello, Mackenzie K**

| Question   | Answer | Comment                               |
|--|--------|---------------------------------------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |                                       |
| The cooler's custody seal, if present, is intact.                                | 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 | False  | Limited volume for MWPz-8A and MW-19. |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |                                       |
| Multiphasic samples are not present.   | True   |                                       |
| Samples do not require splitting or compositing.                                 | True   |                                       |
| Residual Chlorine Checked.   | N/A    |                                       |



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 9/26/2024 12:50:37 PM

## JOB DESCRIPTION

2nd 2024 Semi-Annual Sampling

## JOB NUMBER

310-290613-1

# 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



Generated  
9/26/2024 12:50:37 PM

Authorized for release by  
Samuel Miller, Project Management Assistant I  
[Samuel.Miller@et.eurofinsus.com](mailto:Samuel.Miller@et.eurofinsus.com)  
(319)277-2401





# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 3  |
| Case Narrative . . . . .        | 4  |
| Sample Summary . . . . .        | 5  |
| Detection Summary . . . . .     | 6  |
| Client Sample Results . . . . . | 7  |
| Definitions . . . . .           | 17 |
| Surrogate Summary . . . . .     | 18 |
| QC Sample Results . . . . .     | 19 |
| QC Association . . . . .        | 27 |
| Chronicle . . . . .             | 29 |
| Certification Summary . . . . . | 31 |
| Method Summary . . . . .        | 32 |
| Chain of Custody . . . . .      | 33 |
| Receipt Checklists . . . . .    | 35 |

# Case Narrative

Client: SCS Engineers  
Project: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Job ID: 310-290613-1**

**Eurofins Cedar Falls**

## Job Narrative 310-290613-1

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 9/13/2024 4:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-433388 recovered above the upper control limit for Dichlorodifluoromethane (105.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-433388/4).

Method 8260D: The laboratory control sample (LCS) for analytical batch 310-433388 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-433390 recovered above the upper control limit for Dichlorodifluoromethane (95.3%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-433390/4).

Method 8260D: The laboratory control sample (LCS) for analytical batch 310-433390 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-290613-1  | MW-22B           | Water  | 09/12/24 16:02 | 09/13/24 16:26 |
| 310-290613-2  | MW-26            | Water  | 09/12/24 15:30 | 09/13/24 16:26 |
| 310-290613-3  | MW-28            | Water  | 09/12/24 16:33 | 09/13/24 16:26 |
| 310-290613-4  | MW-D             | Water  | 09/12/24 16:02 | 09/13/24 16:26 |
| 310-290613-5  | Trip Blank       | Water  | 09/13/24 00:00 | 09/13/24 16:26 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Detection Summary

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Client Sample ID: MW-22B

Lab Sample ID: 310-290613-1

| Analyte                | Result  | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Benzene                | 2.40    |           | 0.500    |     | ug/L | 1       |   | 8260D     | Total/NA  |
| cis-1,2-Dichloroethene | 70.8    |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Vinyl chloride         | 8.22    |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Arsenic                | 0.00397 |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 0.329   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.00215 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 17.3    |           | 5.0      |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-26

Lab Sample ID: 310-290613-2

| Analyte                | Result | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|--------|-----------|---------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.0953 |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 2.0    |           | 1.9     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-28

Lab Sample ID: 310-290613-3

| Analyte                | Result | Qualifier | RL      | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|--------|-----------|---------|-----|------|---------|---|-----------|-----------|
| Barium                 | 0.0470 |           | 0.00200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 10.0   |           | 1.9     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-D

Lab Sample ID: 310-290613-4

| Analyte                | Result  | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Benzene                | 2.36    |           | 0.500    |     | ug/L | 1       |   | 8260D     | Total/NA  |
| cis-1,2-Dichloroethene | 67.1    |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Vinyl chloride         | 7.43    |           | 1.00     |     | ug/L | 1       |   | 8260D     | Total/NA  |
| Arsenic                | 0.00331 |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 0.315   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.00281 |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.00696 |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 21.5    |           | 7.5      |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: Trip Blank

Lab Sample ID: 310-290613-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-22B**

**Lab Sample ID: 310-290613-1**

Date Collected: 09/12/24 16:02

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result      | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                       | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Acrylonitrile                 | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| <b>Benzene</b>                | <b>2.40</b> |           | 0.500 |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Bromochloromethane            | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Bromodichloromethane          | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Bromoform                     | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Bromomethane                  | <4.00       |           | 4.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 2-Butanone (MEK)              | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Carbon disulfide              | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Carbon tetrachloride          | <2.00       |           | 2.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Chlorobenzene                 | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Chlorodibromomethane          | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Chloroethane                  | <4.00       |           | 4.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Chloroform                    | <3.00       |           | 3.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Chloromethane                 | <3.00       |           | 3.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>70.8</b> |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| cis-1,3-Dichloropropene       | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,2-Dibromoethane (EDB)       | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Dibromomethane                | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,2-Dichlorobenzene           | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,4-Dichlorobenzene           | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,1-Dichloroethane            | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,2-Dichloroethane            | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,1-Dichloroethene            | <2.00       |           | 2.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,2-Dichloropropane           | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Ethylbenzene                  | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 2-Hexanone                    | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Iodomethane                   | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Methylene Chloride            | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 4-Methyl-2-pentanone (MIBK)   | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Styrene                       | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,1,1,2-Tetrachloroethane     | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,1,2,2-Tetrachloroethane     | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Tetrachloroethene             | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Toluene                       | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| trans-1,4-Dichloro-2-butene   | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| trans-1,2-Dichloroethene      | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| trans-1,3-Dichloropropene     | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,1,1-Trichloroethane         | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,1,2-Trichloroethane         | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Trichloroethene               | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Trichlorofluoromethane        | <4.00       |           | 4.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| 1,2,3-Trichloropropane        | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Vinyl acetate                 | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| <b>Vinyl chloride</b>         | <b>8.22</b> |           | 1.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |
| Xylenes, Total                | <3.00       |           | 3.00  |     | ug/L |   |          | 09/17/24 15:11 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 80 - 120 |          | 09/17/24 15:11 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-22B**

**Lab Sample ID: 310-290613-1**

Date Collected: 09/12/24 16:02

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| Dibromofluoromethane (Surr) | 106       |           | 73 - 130 |          | 09/17/24 15:11 | 1       |
| Toluene-d8 (Surr)           | 99        |           | 80 - 120 |          | 09/17/24 15:11 | 1       |

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

| Analyte        | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony       | <0.00200       |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| <b>Arsenic</b> | <b>0.00397</b> |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| <b>Barium</b>  | <b>0.329</b>   |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Beryllium      | <0.00100       |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:41 | 1       |
| Cadmium        | <0.000200      |           | 0.000200 |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:41 | 1       |
| Chromium       | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| <b>Cobalt</b>  | <b>0.00215</b> |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Copper         | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Lead           | <0.000500      |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Nickel         | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:41 | 1       |
| Selenium       | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Silver         | <0.00100       |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Thallium       | <0.00100       |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Vanadium       | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |
| Zinc           | <0.0200        |           | 0.0200   |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:17 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>17.3</b> |           | 5.0 |     | mg/L |   |          | 09/17/24 20:21 | 1       |



# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-26**

**Lab Sample ID: 310-290613-2**

Date Collected: 09/12/24 15:30

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,1,1-Dichloroethene        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 15:34 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 80 - 120 |          | 09/17/24 15:34 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-26**

**Lab Sample ID: 310-290613-2**

Date Collected: 09/12/24 15:30

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| Dibromofluoromethane (Surr) | 101       |           | 73 - 130 |          | 09/17/24 15:34 | 1       |
| Toluene-d8 (Surr)           | 99        |           | 80 - 120 |          | 09/17/24 15:34 | 1       |

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

| Analyte       | Result        | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------|---------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony      | <0.00200      |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Arsenic       | <0.00200      |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| <b>Barium</b> | <b>0.0953</b> |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Beryllium     | <0.00100      |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:44 | 1       |
| Cadmium       | <0.000200     |           | 0.000200 |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:44 | 1       |
| Chromium      | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Cobalt        | <0.000500     |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Copper        | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Lead          | <0.000500     |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Nickel        | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:44 | 1       |
| Selenium      | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Silver        | <0.00100      |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Thallium      | <0.00100      |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Vanadium      | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |
| Zinc          | <0.0200       |           | 0.0200   |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:19 | 1       |

**General Chemistry**

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>2.0</b> |           | 1.9 |     | mg/L |   |          | 09/17/24 20:21 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-28**

**Lab Sample ID: 310-290613-3**

Date Collected: 09/12/24 16:33

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,1,1-Dichloroethene        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 15:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 80 - 120 |          | 09/17/24 15:57 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-28**

**Lab Sample ID: 310-290613-3**

Date Collected: 09/12/24 16:33

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| Dibromofluoromethane (Surr) | 102       |           | 73 - 130 |          | 09/17/24 15:57 | 1       |
| Toluene-d8 (Surr)           | 100       |           | 80 - 120 |          | 09/17/24 15:57 | 1       |

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

| Analyte       | Result        | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------|---------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony      | <0.00200      |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Arsenic       | <0.00200      |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| <b>Barium</b> | <b>0.0470</b> |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Beryllium     | <0.00100      |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:48 | 1       |
| Cadmium       | <0.000200     |           | 0.000200 |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:48 | 1       |
| Chromium      | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Cobalt        | <0.000500     |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Copper        | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Lead          | <0.000500     |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Nickel        | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:48 | 1       |
| Selenium      | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Silver        | <0.00100      |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Thallium      | <0.00100      |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Vanadium      | <0.00500      |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |
| Zinc          | <0.0200       |           | 0.0200   |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:21 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>10.0</b> |           | 1.9 |     | mg/L |   |          | 09/17/24 20:21 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-D**

**Lab Sample ID: 310-290613-4**

Date Collected: 09/12/24 16:02

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                       | Result      | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                       | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Acrylonitrile                 | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| <b>Benzene</b>                | <b>2.36</b> |           | 0.500 |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Bromochloromethane            | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Bromodichloromethane          | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Bromoform                     | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Bromomethane                  | <4.00       |           | 4.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 2-Butanone (MEK)              | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Carbon disulfide              | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Carbon tetrachloride          | <2.00       |           | 2.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Chlorobenzene                 | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Chlorodibromomethane          | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Chloroethane                  | <4.00       |           | 4.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Chloroform                    | <3.00       |           | 3.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Chloromethane                 | <3.00       |           | 3.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>67.1</b> |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| cis-1,3-Dichloropropene       | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,2-Dibromo-3-Chloropropane   | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,2-Dibromoethane (EDB)       | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Dibromomethane                | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,2-Dichlorobenzene           | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,4-Dichlorobenzene           | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,1-Dichloroethane            | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,2-Dichloroethane            | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,1-Dichloroethene            | <2.00       |           | 2.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,2-Dichloropropane           | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Ethylbenzene                  | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 2-Hexanone                    | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Iodomethane                   | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Methylene Chloride            | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 4-Methyl-2-pentanone (MIBK)   | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Styrene                       | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,1,1,2-Tetrachloroethane     | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,1,2,2-Tetrachloroethane     | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Tetrachloroethene             | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Toluene                       | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| trans-1,4-Dichloro-2-butene   | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| trans-1,2-Dichloroethene      | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| trans-1,3-Dichloropropene     | <5.00       |           | 5.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,1,1-Trichloroethane         | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,1,2-Trichloroethane         | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Trichloroethene               | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Trichlorofluoromethane        | <4.00       |           | 4.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| 1,2,3-Trichloropropane        | <1.00       |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Vinyl acetate                 | <10.0       |           | 10.0  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| <b>Vinyl chloride</b>         | <b>7.43</b> |           | 1.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |
| Xylenes, Total                | <3.00       |           | 3.00  |     | ug/L |   |          | 09/17/24 16:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 80 - 120 |          | 09/17/24 16:19 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-D**

**Lab Sample ID: 310-290613-4**

Date Collected: 09/12/24 16:02

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| Dibromofluoromethane (Surr) | 105       |           | 73 - 130 |          | 09/17/24 16:19 | 1       |
| Toluene-d8 (Surr)           | 99        |           | 80 - 120 |          | 09/17/24 16:19 | 1       |

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

| Analyte        | Result         | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Antimony       | <0.00200       |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| <b>Arsenic</b> | <b>0.00331</b> |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| <b>Barium</b>  | <b>0.315</b>   |           | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Beryllium      | <0.00100       |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:55 | 1       |
| Cadmium        | <0.000200      |           | 0.000200 |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:55 | 1       |
| Chromium       | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| <b>Cobalt</b>  | <b>0.00281</b> |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Copper         | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Lead           | <0.000500      |           | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| <b>Nickel</b>  | <b>0.00696</b> |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 17:55 | 1       |
| Selenium       | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Silver         | <0.00100       |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Thallium       | <0.00100       |           | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Vanadium       | <0.00500       |           | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |
| Zinc           | <0.0200        |           | 0.0200   |     | mg/L |   | 09/18/24 09:00 | 09/19/24 13:25 | 1       |

**General Chemistry**

| Analyte  | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| <b>Total Suspended Solids (USGS I-3765-85)</b> | <b>21.5</b> |           | 7.5 |     | mg/L |   |          | 09/17/24 20:21 | 1       |



# Client Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-290613-5**

Date Collected: 09/13/24 00:00

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 23:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 80 - 120 |          | 09/17/24 23:51 | 1       |

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-290613-5**

Date Collected: 09/13/24 00:00

Matrix: Water

Date Received: 09/13/24 16:26

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

| <u>Surrogate</u>            | <u>%Recovery</u> | <u>Qualifier</u> | <u>Limits</u> | <u>Prepared</u> | <u>Analyzed</u> | <u>Dil Fac</u> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| Dibromofluoromethane (Surr) | 104              |                  | 73 - 130      |                 | 09/17/24 23:51  | 1              |
| Toluene-d8 (Surr)           | 99               |                  | 80 - 120      |                 | 09/17/24 23:51  | 1              |

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

# Definitions/Glossary

Client: SCS Engineers

Job ID: 310-290613-1

Project/Site: 2nd 2024 Semi-Annual Sampling

## 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   |

# Surrogate Summary

Client: SCS Engineers  
Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | BFB      | DBFM     | TOL      |
|------------------|--------------------|----------|----------|----------|
|                  |                    | (80-120) | (73-130) | (80-120) |
| 310-290613-1     | MW-22B             | 104      | 106      | 99       |
| 310-290613-2     | MW-26              | 103      | 101      | 99       |
| 310-290613-3     | MW-28              | 105      | 102      | 100      |
| 310-290613-4     | MW-D               | 103      | 105      | 99       |
| 310-290613-5     | Trip Blank         | 105      | 104      | 99       |
| LCS 310-433388/6 | Lab Control Sample | 100      | 99       | 100      |
| LCS 310-433388/7 | Lab Control Sample | 103      | 103      | 99       |
| LCS 310-433390/6 | Lab Control Sample | 100      | 99       | 100      |
| LCS 310-433390/7 | Lab Control Sample | 104      | 101      | 98       |
| MB 310-433388/5  | Method Blank       | 102      | 102      | 100      |
| MB 310-433390/5  | Method Blank       | 103      | 103      | 100      |

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-433388/5

Matrix: Water

Analysis Batch: 433388

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB     | MB        | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
|                             | Result | Qualifier |       |     |      |   |          |                |         |
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Dibromomethane              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Iodomethane                 | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Styrene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Toluene                     | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Trichloroethene             | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 11:48 | 1       |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 310-433388/5**

**Matrix: Water**

**Analysis Batch: 433388**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Surrogate                   | MB MB     |           | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
|                             | %Recovery | Qualifier |          |          |                |         |
| 4-Bromofluorobenzene (Surr) | 102       |           | 80 - 120 |          | 09/17/24 11:48 | 1       |
| Dibromofluoromethane (Surr) | 102       |           | 73 - 130 |          | 09/17/24 11:48 | 1       |
| Toluene-d8 (Surr)           | 100       |           | 80 - 120 |          | 09/17/24 11:48 | 1       |

**Lab Sample ID: LCS 310-433388/6**

**Matrix: Water**

**Analysis Batch: 433388**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
|                             |             |            |               |      |   |      |             |
| Acrylonitrile               | 200         | 186.7      |               | ug/L |   | 93   | 50 - 150    |
| Benzene                     | 20.0        | 18.75      |               | ug/L |   | 94   | 72 - 124    |
| Bromochloromethane          | 20.0        | 18.36      |               | ug/L |   | 92   | 73 - 130    |
| Bromodichloromethane        | 20.0        | 18.33      |               | ug/L |   | 92   | 74 - 122    |
| Bromoform                   | 20.0        | 17.98      |               | ug/L |   | 90   | 61 - 122    |
| 2-Butanone (MEK)            | 40.0        | 37.26      |               | ug/L |   | 93   | 50 - 150    |
| Carbon disulfide            | 20.0        | 19.07      |               | ug/L |   | 95   | 59 - 135    |
| Carbon tetrachloride        | 20.0        | 19.21      |               | ug/L |   | 96   | 67 - 132    |
| Chlorobenzene               | 20.0        | 19.30      |               | ug/L |   | 96   | 76 - 120    |
| Chlorodibromomethane        | 20.0        | 19.19      |               | ug/L |   | 96   | 71 - 121    |
| Chloroform                  | 20.0        | 17.76      |               | ug/L |   | 89   | 72 - 125    |
| cis-1,2-Dichloroethene      | 20.0        | 18.66      |               | ug/L |   | 93   | 74 - 123    |
| cis-1,3-Dichloropropene     | 20.0        | 17.53      |               | ug/L |   | 88   | 71 - 125    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 18.29      |               | ug/L |   | 91   | 50 - 150    |
| 1,2-Dibromoethane (EDB)     | 20.0        | 18.91      |               | ug/L |   | 95   | 75 - 125    |
| Dibromomethane              | 20.0        | 19.41      |               | ug/L |   | 97   | 74 - 125    |
| 1,2-Dichlorobenzene         | 20.0        | 19.08      |               | ug/L |   | 95   | 74 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 19.22      |               | ug/L |   | 96   | 72 - 120    |
| 1,1-Dichloroethane          | 20.0        | 18.76      |               | ug/L |   | 94   | 70 - 127    |
| 1,2-Dichloroethane          | 20.0        | 17.79      |               | ug/L |   | 89   | 71 - 125    |
| 1,1-Dichloroethene          | 20.0        | 19.39      |               | ug/L |   | 97   | 63 - 132    |
| 1,2-Dichloropropane         | 20.0        | 18.98      |               | ug/L |   | 95   | 73 - 124    |
| Ethylbenzene                | 20.0        | 19.26      |               | ug/L |   | 96   | 74 - 122    |
| 2-Hexanone                  | 40.0        | 39.42      |               | ug/L |   | 99   | 60 - 140    |
| Iodomethane                 | 20.0        | 14.17      |               | ug/L |   | 71   | 10 - 150    |
| Methylene Chloride          | 20.0        | 19.33      |               | ug/L |   | 97   | 50 - 150    |
| 4-Methyl-2-pentanone (MIBK) | 40.0        | 37.13      |               | ug/L |   | 93   | 60 - 139    |
| Styrene                     | 20.0        | 19.82      |               | ug/L |   | 99   | 74 - 121    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 17.42      |               | ug/L |   | 87   | 71 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 17.97      |               | ug/L |   | 90   | 68 - 124    |
| Tetrachloroethene           | 20.0        | 19.56      |               | ug/L |   | 98   | 71 - 130    |
| Toluene                     | 20.0        | 19.08      |               | ug/L |   | 95   | 74 - 123    |
| trans-1,4-Dichloro-2-butene | 20.0        | 18.95      |               | ug/L |   | 95   | 50 - 150    |
| trans-1,2-Dichloroethene    | 20.0        | 18.85      |               | ug/L |   | 94   | 70 - 126    |
| trans-1,3-Dichloropropene   | 20.0        | 18.04      |               | ug/L |   | 90   | 69 - 123    |
| 1,1,1-Trichloroethane       | 20.0        | 19.17      |               | ug/L |   | 96   | 73 - 129    |
| 1,1,2-Trichloroethane       | 20.0        | 18.57      |               | ug/L |   | 93   | 73 - 123    |
| Trichloroethene             | 20.0        | 17.63      |               | ug/L |   | 88   | 72 - 126    |

Eurofins Cedar Falls



# QC Sample Results

Client: SCS Engineers  
Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-433388/6

Matrix: Water

Analysis Batch: 433388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike | LCS    | LCS       | Unit | D | %Rec | %Rec Limits |
|------------------------|-------|--------|-----------|------|---|------|-------------|
|                        | Added | Result | Qualifier |      |   |      |             |
| 1,2,3-Trichloropropane | 20.0  | 18.33  |           | ug/L |   | 92   | 65 - 127    |
| Vinyl acetate          | 40.0  | 38.97  |           | ug/L |   | 97   | 50 - 150    |
| Xylenes, Total         | 40.0  | 39.17  |           | ug/L |   | 98   | 73 - 123    |

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 100       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 99        |           | 73 - 130 |
| Toluene-d8 (Surr)           | 100       |           | 80 - 120 |

Lab Sample ID: LCS 310-433388/7

Matrix: Water

Analysis Batch: 433388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike | LCS    | LCS       | Unit | D | %Rec | %Rec Limits |
|------------------------|-------|--------|-----------|------|---|------|-------------|
|                        | Added | Result | Qualifier |      |   |      |             |
| Bromomethane           | 20.0  | 17.42  |           | ug/L |   | 87   | 23 - 150    |
| Chloroethane           | 20.0  | 20.35  |           | ug/L |   | 102  | 54 - 136    |
| Chloromethane          | 20.0  | 24.31  |           | ug/L |   | 122  | 38 - 150    |
| Trichlorofluoromethane | 20.0  | 21.50  |           | ug/L |   | 107  | 54 - 149    |
| Vinyl chloride         | 20.0  | 24.08  |           | ug/L |   | 120  | 56 - 140    |

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 103       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 103       |           | 73 - 130 |
| Toluene-d8 (Surr)           | 99        |           | 80 - 120 |

Lab Sample ID: MB 310-433390/5

Matrix: Water

Analysis Batch: 433390

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB     | MB        | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
|                             | Result | Qualifier |       |     |      |   |          |                |         |
| Acetone                     | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Acrylonitrile               | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Benzene                     | <0.500 |           | 0.500 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Bromochloromethane          | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Bromodichloromethane        | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Bromoform                   | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Bromomethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 2-Butanone (MEK)            | <10.0  |           | 10.0  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Carbon disulfide            | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Carbon tetrachloride        | <2.00  |           | 2.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Chlorobenzene               | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Chlorodibromomethane        | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Chloroethane                | <4.00  |           | 4.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Chloroform                  | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Chloromethane               | <3.00  |           | 3.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| cis-1,2-Dichloroethene      | <1.00  |           | 1.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| cis-1,3-Dichloropropene     | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,2-Dibromo-3-Chloropropane | <5.00  |           | 5.00  |     | ug/L |   |          | 09/17/24 22:43 | 1       |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-433390/5

Matrix: Water

Analysis Batch: 433390

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB     | MB        | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
|                             | Result | Qualifier |      |     |      |   |          |                |         |
| 1,2-Dibromoethane (EDB)     | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Dibromomethane              | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,2-Dichlorobenzene         | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,4-Dichlorobenzene         | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,1-Dichloroethane          | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,2-Dichloroethane          | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,1-Dichloroethene          | <2.00  |           | 2.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,2-Dichloropropane         | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Ethylbenzene                | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 2-Hexanone                  | <10.0  |           | 10.0 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Iodomethane                 | <10.0  |           | 10.0 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Methylene Chloride          | <5.00  |           | 5.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 4-Methyl-2-pentanone (MIBK) | <10.0  |           | 10.0 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Styrene                     | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,1,1,2-Tetrachloroethane   | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,1,2,2-Tetrachloroethane   | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Tetrachloroethene           | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Toluene                     | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| trans-1,4-Dichloro-2-butene | <10.0  |           | 10.0 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| trans-1,2-Dichloroethene    | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| trans-1,3-Dichloropropene   | <5.00  |           | 5.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,1,1-Trichloroethane       | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,1,2-Trichloroethane       | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Trichloroethene             | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Trichlorofluoromethane      | <4.00  |           | 4.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| 1,2,3-Trichloropropane      | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Vinyl acetate               | <10.0  |           | 10.0 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Vinyl chloride              | <1.00  |           | 1.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |
| Xylenes, Total              | <3.00  |           | 3.00 |     | ug/L |   |          | 09/17/24 22:43 | 1       |

| Surrogate                   | MB        | MB        | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
|                             | %Recovery | Qualifier |          |          |                |         |
| 4-Bromofluorobenzene (Surr) | 103       |           | 80 - 120 |          | 09/17/24 22:43 | 1       |
| Dibromofluoromethane (Surr) | 103       |           | 73 - 130 |          | 09/17/24 22:43 | 1       |
| Toluene-d8 (Surr)           | 100       |           | 80 - 120 |          | 09/17/24 22:43 | 1       |

Lab Sample ID: LCS 310-433390/6

Matrix: Water

Analysis Batch: 433390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|------|---|------|-------------|
|                      |             |            |               |      |   |      |             |
| Acrylonitrile        | 200         | 197.1      |               | ug/L |   | 99   | 50 - 150    |
| Benzene              | 20.0        | 18.70      |               | ug/L |   | 93   | 72 - 124    |
| Bromochloromethane   | 20.0        | 18.38      |               | ug/L |   | 92   | 73 - 130    |
| Bromodichloromethane | 20.0        | 18.38      |               | ug/L |   | 92   | 74 - 122    |
| Bromoform            | 20.0        | 18.27      |               | ug/L |   | 91   | 61 - 122    |
| 2-Butanone (MEK)     | 40.0        | 39.13      |               | ug/L |   | 98   | 50 - 150    |
| Carbon disulfide     | 20.0        | 18.87      |               | ug/L |   | 94   | 59 - 135    |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-433390/6

Matrix: Water

Analysis Batch: 433390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Carbon tetrachloride        | 20.0        | 19.26      |               | ug/L |   | 96   | 67 - 132    |
| Chlorobenzene               | 20.0        | 19.45      |               | ug/L |   | 97   | 76 - 120    |
| Chlorodibromomethane        | 20.0        | 19.34      |               | ug/L |   | 97   | 71 - 121    |
| Chloroform                  | 20.0        | 17.95      |               | ug/L |   | 90   | 72 - 125    |
| cis-1,2-Dichloroethene      | 20.0        | 18.50      |               | ug/L |   | 92   | 74 - 123    |
| cis-1,3-Dichloropropene     | 20.0        | 17.46      |               | ug/L |   | 87   | 71 - 125    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 20.02      |               | ug/L |   | 100  | 50 - 150    |
| 1,2-Dibromoethane (EDB)     | 20.0        | 19.09      |               | ug/L |   | 95   | 75 - 125    |
| Dibromomethane              | 20.0        | 19.15      |               | ug/L |   | 96   | 74 - 125    |
| 1,2-Dichlorobenzene         | 20.0        | 19.06      |               | ug/L |   | 95   | 74 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 18.95      |               | ug/L |   | 95   | 72 - 120    |
| 1,1-Dichloroethane          | 20.0        | 18.56      |               | ug/L |   | 93   | 70 - 127    |
| 1,2-Dichloroethane          | 20.0        | 18.14      |               | ug/L |   | 91   | 71 - 125    |
| 1,1-Dichloroethene          | 20.0        | 19.55      |               | ug/L |   | 98   | 63 - 132    |
| 1,2-Dichloropropane         | 20.0        | 19.72      |               | ug/L |   | 99   | 73 - 124    |
| Ethylbenzene                | 20.0        | 19.03      |               | ug/L |   | 95   | 74 - 122    |
| 2-Hexanone                  | 40.0        | 40.92      |               | ug/L |   | 102  | 60 - 140    |
| Iodomethane                 | 20.0        | 13.09      |               | ug/L |   | 65   | 10 - 150    |
| Methylene Chloride          | 20.0        | 19.67      |               | ug/L |   | 98   | 50 - 150    |
| 4-Methyl-2-pentanone (MIBK) | 40.0        | 39.27      |               | ug/L |   | 98   | 60 - 139    |
| Styrene                     | 20.0        | 19.43      |               | ug/L |   | 97   | 74 - 121    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 17.00      |               | ug/L |   | 85   | 71 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 18.64      |               | ug/L |   | 93   | 68 - 124    |
| Tetrachloroethene           | 20.0        | 19.46      |               | ug/L |   | 97   | 71 - 130    |
| Toluene                     | 20.0        | 18.81      |               | ug/L |   | 94   | 74 - 123    |
| trans-1,4-Dichloro-2-butene | 20.0        | 17.83      |               | ug/L |   | 89   | 50 - 150    |
| trans-1,2-Dichloroethene    | 20.0        | 18.74      |               | ug/L |   | 94   | 70 - 126    |
| trans-1,3-Dichloropropene   | 20.0        | 17.78      |               | ug/L |   | 89   | 69 - 123    |
| 1,1,1-Trichloroethane       | 20.0        | 19.29      |               | ug/L |   | 96   | 73 - 129    |
| 1,1,2-Trichloroethane       | 20.0        | 18.62      |               | ug/L |   | 93   | 73 - 123    |
| Trichloroethene             | 20.0        | 18.06      |               | ug/L |   | 90   | 72 - 126    |
| 1,2,3-Trichloropropane      | 20.0        | 18.55      |               | ug/L |   | 93   | 65 - 127    |
| Vinyl acetate               | 40.0        | 36.59      |               | ug/L |   | 91   | 50 - 150    |
| Xylenes, Total              | 40.0        | 38.73      |               | ug/L |   | 97   | 73 - 123    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 80 - 120 |
| Dibromofluoromethane (Surr) | 99            |               | 73 - 130 |
| Toluene-d8 (Surr)           | 100           |               | 80 - 120 |

Lab Sample ID: LCS 310-433390/7

Matrix: Water

Analysis Batch: 433390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------|-------------|------------|---------------|------|---|------|-------------|
| Bromomethane  | 20.0        | 18.26      |               | ug/L |   | 91   | 23 - 150    |
| Chloroethane  | 20.0        | 22.03      |               | ug/L |   | 110  | 54 - 136    |
| Chloromethane | 20.0        | 24.05      |               | ug/L |   | 120  | 38 - 150    |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID:** LCS 310-433390/7  
**Matrix:** Water  
**Analysis Batch:** 433390

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

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
|                        |             |            |               |      |   |      |             |
| Trichlorofluoromethane | 20.0        | 20.92      |               | ug/L |   | 105  | 54 - 149    |
| Vinyl chloride         | 20.0        | 24.03      |               | ug/L |   | 120  | 56 - 140    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | LCS Limits |
|-----------------------------|---------------|---------------|------------|
|                             |               |               |            |
| 4-Bromofluorobenzene (Surr) | 104           |               | 80 - 120   |
| Dibromofluoromethane (Surr) | 101           |               | 73 - 130   |
| Toluene-d8 (Surr)           | 98            |               | 80 - 120   |

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

**Lab Sample ID:** MB 310-433443/1-A  
**Matrix:** Water  
**Analysis Batch:** 433771

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 433443

| Analyte   | MB Result | MB Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|----------|-----|------|---|----------------|----------------|---------|
|           |           |              |          |     |      |   |                |                |         |
| Antimony  | <0.00200  |              | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Arsenic   | <0.00200  |              | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Barium    | <0.00200  |              | 0.00200  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Beryllium | <0.00100  |              | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Chromium  | <0.00500  |              | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Cobalt    | <0.000500 |              | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Copper    | <0.00500  |              | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Lead      | <0.000500 |              | 0.000500 |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Selenium  | <0.00500  |              | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Silver    | <0.00100  |              | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Thallium  | <0.00100  |              | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Vanadium  | <0.00500  |              | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |
| Zinc      | <0.0200   |              | 0.0200   |     | mg/L |   | 09/18/24 09:00 | 09/19/24 12:36 | 1       |

**Lab Sample ID:** MB 310-433443/1-A  
**Matrix:** Water  
**Analysis Batch:** 434059

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 433443

| Analyte | MB Result | MB Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|----------|-----|------|---|----------------|----------------|---------|
|         |           |              |          |     |      |   |                |                |         |
| Cadmium | <0.000200 |              | 0.000200 |     | mg/L |   | 09/18/24 09:00 | 09/23/24 16:50 | 1       |
| Nickel  | <0.00500  |              | 0.00500  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 16:50 | 1       |
| Silver  | <0.00100  |              | 0.00100  |     | mg/L |   | 09/18/24 09:00 | 09/23/24 16:50 | 1       |

**Lab Sample ID:** LCS 310-433443/2-A  
**Matrix:** Water  
**Analysis Batch:** 433771

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 433443

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
|           |             |            |               |      |   |      |             |
| Antimony  | 0.200       | 0.2206     |               | mg/L |   | 110  | 80 - 120    |
| Arsenic   | 0.200       | 0.2209     |               | mg/L |   | 110  | 80 - 120    |
| Barium    | 0.100       | 0.1070     |               | mg/L |   | 107  | 80 - 120    |
| Beryllium | 0.100       | 0.1064     |               | mg/L |   | 106  | 80 - 120    |
| Chromium  | 0.100       | 0.09961    |               | mg/L |   | 100  | 80 - 120    |
| Cobalt    | 0.100       | 0.1014     |               | mg/L |   | 101  | 80 - 120    |

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

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

**Lab Sample ID: LCS 310-433443/2-A**  
**Matrix: Water**  
**Analysis Batch: 433771**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 433443**

| Analyte  | Spike | LCS    | LCS       | Unit | D | %Rec | %Rec     |
|----------|-------|--------|-----------|------|---|------|----------|
|          | Added | Result | Qualifier |      |   |      |          |
| Copper   | 0.200 | 0.2102 |           | mg/L |   | 105  | 80 - 120 |
| Lead     | 0.200 | 0.2130 |           | mg/L |   | 106  | 80 - 120 |
| Selenium | 0.400 | 0.4106 |           | mg/L |   | 103  | 80 - 120 |
| Silver   | 0.100 | 0.1122 |           | mg/L |   | 112  | 80 - 120 |
| Thallium | 0.100 | 0.1031 |           | mg/L |   | 103  | 80 - 120 |
| Vanadium | 0.100 | 0.1062 |           | mg/L |   | 106  | 80 - 120 |
| Zinc     | 0.200 | 0.2045 |           | mg/L |   | 102  | 80 - 120 |

**Lab Sample ID: LCS 310-433443/2-A**  
**Matrix: Water**  
**Analysis Batch: 434059**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 433443**

| Analyte | Spike | LCS     | LCS       | Unit | D | %Rec | %Rec     |
|---------|-------|---------|-----------|------|---|------|----------|
|         | Added | Result  | Qualifier |      |   |      |          |
| Cadmium | 0.100 | 0.09573 |           | mg/L |   | 96   | 80 - 120 |
| Nickel  | 0.200 | 0.2031  |           | mg/L |   | 102  | 80 - 120 |

**Lab Sample ID: 310-290613-3 DU**  
**Matrix: Water**  
**Analysis Batch: 433771**

**Client Sample ID: MW-28**  
**Prep Type: Total/NA**  
**Prep Batch: 433443**

| Analyte  | Sample    | Sample    | DU        | DU        | Unit | D | RPD | RPD |
|----------|-----------|-----------|-----------|-----------|------|---|-----|-----|
|          | Result    | Qualifier | Result    | Qualifier |      |   |     |     |
| Antimony | <0.00200  |           | <0.00200  |           | mg/L |   | NC  | 20  |
| Arsenic  | <0.00200  |           | <0.00200  |           | mg/L |   | NC  | 20  |
| Barium   | 0.0470    |           | 0.04609   |           | mg/L |   | 2   | 20  |
| Chromium | <0.00500  |           | <0.00500  |           | mg/L |   | NC  | 20  |
| Cobalt   | <0.000500 |           | <0.000500 |           | mg/L |   | NC  | 20  |
| Copper   | <0.00500  |           | <0.00500  |           | mg/L |   | NC  | 20  |
| Lead     | <0.000500 |           | <0.000500 |           | mg/L |   | NC  | 20  |
| Selenium | <0.00500  |           | <0.00500  |           | mg/L |   | NC  | 20  |
| Silver   | <0.00100  |           | <0.00100  |           | mg/L |   | NC  | 20  |
| Thallium | <0.00100  |           | <0.00100  |           | mg/L |   | NC  | 20  |
| Vanadium | <0.00500  |           | <0.00500  |           | mg/L |   | NC  | 20  |
| Zinc     | <0.0200   |           | <0.0200   |           | mg/L |   | NC  | 20  |

**Lab Sample ID: 310-290613-3 DU**  
**Matrix: Water**  
**Analysis Batch: 434059**

**Client Sample ID: MW-28**  
**Prep Type: Total/NA**  
**Prep Batch: 433443**

| Analyte   | Sample    | Sample    | DU        | DU        | Unit | D | RPD | RPD |
|-----------|-----------|-----------|-----------|-----------|------|---|-----|-----|
|           | Result    | Qualifier | Result    | Qualifier |      |   |     |     |
| Beryllium | <0.00100  |           | <0.00100  |           | mg/L |   | NC  | 20  |
| Cadmium   | <0.000200 |           | <0.000200 |           | mg/L |   | NC  | 20  |
| Nickel    | <0.00500  |           | <0.00500  |           | mg/L |   | NC  | 20  |

# QC Sample Results

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

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

**Lab Sample ID: MB 310-433449/1**

**Matrix: Water**

**Analysis Batch: 433449**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | <5.0         |                 | 5.0 |     | mg/L |   |          | 09/17/24 20:21 | 1       |

**Lab Sample ID: LCS 310-433449/2**

**Matrix: Water**

**Analysis Batch: 433449**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|----------------|
| Total Suspended Solids | 100            | 102.0         |                  | mg/L |   | 102  | 81 - 116       |



# QC Association Summary

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## GC/MS VOA

### Analysis Batch: 433388

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-290613-1     | MW-22B             | Total/NA  | Water  | 8260D  |            |
| 310-290613-2     | MW-26              | Total/NA  | Water  | 8260D  |            |
| 310-290613-3     | MW-28              | Total/NA  | Water  | 8260D  |            |
| 310-290613-4     | MW-D               | Total/NA  | Water  | 8260D  |            |
| MB 310-433388/5  | Method Blank       | Total/NA  | Water  | 8260D  |            |
| LCS 310-433388/6 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |
| LCS 310-433388/7 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |

### Analysis Batch: 433390

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-290613-5     | Trip Blank         | Total/NA  | Water  | 8260D  |            |
| MB 310-433390/5  | Method Blank       | Total/NA  | Water  | 8260D  |            |
| LCS 310-433390/6 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |
| LCS 310-433390/7 | Lab Control Sample | Total/NA  | Water  | 8260D  |            |

## Metals

### Prep Batch: 433443

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-290613-1       | MW-22B             | Total/NA  | Water  | 3005A  |            |
| 310-290613-2       | MW-26              | Total/NA  | Water  | 3005A  |            |
| 310-290613-3       | MW-28              | Total/NA  | Water  | 3005A  |            |
| 310-290613-4       | MW-D               | Total/NA  | Water  | 3005A  |            |
| MB 310-433443/1-A  | Method Blank       | Total/NA  | Water  | 3005A  |            |
| LCS 310-433443/2-A | Lab Control Sample | Total/NA  | Water  | 3005A  |            |
| 310-290613-3 DU    | MW-28              | Total/NA  | Water  | 3005A  |            |

### Analysis Batch: 433771

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-290613-1       | MW-22B             | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-2       | MW-26              | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-3       | MW-28              | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-4       | MW-D               | Total/NA  | Water  | 6020B  | 433443     |
| MB 310-433443/1-A  | Method Blank       | Total/NA  | Water  | 6020B  | 433443     |
| LCS 310-433443/2-A | Lab Control Sample | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-3 DU    | MW-28              | Total/NA  | Water  | 6020B  | 433443     |

### Analysis Batch: 434059

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-290613-1       | MW-22B             | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-2       | MW-26              | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-3       | MW-28              | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-4       | MW-D               | Total/NA  | Water  | 6020B  | 433443     |
| MB 310-433443/1-A  | Method Blank       | Total/NA  | Water  | 6020B  | 433443     |
| LCS 310-433443/2-A | Lab Control Sample | Total/NA  | Water  | 6020B  | 433443     |
| 310-290613-3 DU    | MW-28              | Total/NA  | Water  | 6020B  | 433443     |

## General Chemistry

### Analysis Batch: 433449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method    | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 310-290613-1  | MW-22B           | Total/NA  | Water  | I-3765-85 |            |

Eurofins Cedar Falls

# QC Association Summary

Client: SCS Engineers  
Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

## General Chemistry (Continued)

### Analysis Batch: 433449 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 310-290613-2     | MW-26              | Total/NA  | Water  | I-3765-85 |            |
| 310-290613-3     | MW-28              | Total/NA  | Water  | I-3765-85 |            |
| 310-290613-4     | MW-D               | Total/NA  | Water  | I-3765-85 |            |
| MB 310-433449/1  | Method Blank       | Total/NA  | Water  | I-3765-85 |            |
| LCS 310-433449/2 | Lab Control Sample | Total/NA  | Water  | I-3765-85 |            |

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

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: MW-22B**

**Lab Sample ID: 310-290613-1**

Date Collected: 09/12/24 16:02

Matrix: Water

Date Received: 09/13/24 16:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 433388       | FE5V          | EET CF | 09/17/24 15:11       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 434059       | NFT2          | EET CF | 09/23/24 17:41       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 433771       | NFT2          | EET CF | 09/19/24 13:17       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 433449       | MDU9          | EET CF | 09/17/24 20:21       |

**Client Sample ID: MW-26**

**Lab Sample ID: 310-290613-2**

Date Collected: 09/12/24 15:30

Matrix: Water

Date Received: 09/13/24 16:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 433388       | FE5V          | EET CF | 09/17/24 15:34       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 434059       | NFT2          | EET CF | 09/23/24 17:44       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 433771       | NFT2          | EET CF | 09/19/24 13:19       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 433449       | MDU9          | EET CF | 09/17/24 20:21       |

**Client Sample ID: MW-28**

**Lab Sample ID: 310-290613-3**

Date Collected: 09/12/24 16:33

Matrix: Water

Date Received: 09/13/24 16:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 433388       | FE5V          | EET CF | 09/17/24 15:57       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 434059       | NFT2          | EET CF | 09/23/24 17:48       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 433771       | NFT2          | EET CF | 09/19/24 13:21       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 433449       | MDU9          | EET CF | 09/17/24 20:21       |

**Client Sample ID: MW-D**

**Lab Sample ID: 310-290613-4**

Date Collected: 09/12/24 16:02

Matrix: Water

Date Received: 09/13/24 16:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 433388       | FE5V          | EET CF | 09/17/24 16:19       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 434059       | NFT2          | EET CF | 09/23/24 17:55       |
| Total/NA  | Prep       | 3005A        |     |                 | 433443       | F5MW          | EET CF | 09/18/24 09:00       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 433771       | NFT2          | EET CF | 09/19/24 13:25       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 433449       | MDU9          | EET CF | 09/17/24 20:21       |

# Lab Chronicle

Client: SCS Engineers  
Project/Site: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-290613-5**

Date Collected: 09/13/24 00:00

Matrix: Water

Date Received: 09/13/24 16:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 433390       | FE5V    | EET CF | 09/17/24 23:51       |

**Laboratory References:**

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

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

# Accreditation/Certification Summary

Client: SCS Engineers

Job ID: 310-290613-1

Project/Site: 2nd 2024 Semi-Annual Sampling

## 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: 2nd 2024 Semi-Annual Sampling

Job ID: 310-290613-1

| Method    | Method Description                  | Protocol | Laboratory |
|-----------|-------------------------------------|----------|------------|
| 8260D     | Volatile Organic Compounds by GC/MS | SW846    | EET CF     |
| 6020B     | Metals (ICP/MS)                     | SW846    | EET CF     |
| I-3765-85 | Residue, Non-filterable (TSS)       | USGS     | EET CF     |
| 3005A     | Preparation, Total Metals           | SW846    | EET CF     |
| 5030B     | Purge and Trap                      | SW846    | EET CF     |

**Protocol References:**

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

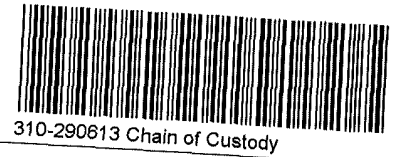
**Laboratory References:**

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





Environment Testing America



Cooler/Sample Receipt and Temperature Log Form

|   |  |   |                        |
|---|--|---|------------------------|
| <b>Client Information</b>   |  |   |                        |
| Client: <u>SCS</u>  |  |   |                        |
| City/State:   | CITY   | STATE   | Project:               |
| <b>Receipt Information</b>  |  |   |                        |
| Date/Time Received:   | DATE <u>9/13/24</u>  | TIME <u>1626</u>  | Received By: <u>XS</u> |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee<br><input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ |  |   |                        |
| <b>Condition of Cooler/Containers</b>   |  |   |                        |
| Sample(s) received in Cooler?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Cooler ID: _____  |                        |
| Multiple Coolers?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Cooler # _____ of _____   |                        |
| Cooler Custody Seals Present?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |                        |
| Sample Custody Seals Present?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |                        |
| Trip Blank Present?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If yes: Which VOA samples are in cooler? ↓  |                        |
| <u>all</u>  |  |   |                        |
| <b>Temperature Record</b>   |  |   |                        |
| Coolant:  | <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE |   |                        |
| Thermometer ID:   | <u>Z</u>   | Correction Factor (°C):   | <u>0</u>               |
| • <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature   |  |   |                        |
| Uncorrected Temp (°C):  | <u>1.0</u>   | Corrected Temp (°C):  | <u>1.0</u>             |
| • <b>Sample Container Temperature</b>   |  |   |                        |
| Container(s) used:  | <u>CONTAINER 1</u>   | <u>CONTAINER 2</u>  |                        |
| Uncorrected Temp (°C):  |  |   |                        |
| Corrected Temp (°C):  |  |   |                        |
| <b>Exceptions Noted</b>   |  |   |                        |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |   |                        |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No  |  |   |                        |
| NOTE If yes, contact PM before proceeding If no, proceed with login   |  |   |                        |
| <b>Additional Comments</b>  |  |   |                        |
|   |  |   |                        |
|   |  |   |                        |
|   |  |   |                        |





| <b>Client Information</b>   |             | Sampler: <i>Kramer Roth</i>  |                              | Lab PM                          | Carrier Tracking No(s):           | COC No:                    |                    |  |  |
|---|-------------|--|------------------------------|---------------------------------|-----------------------------------|----------------------------|--------------------|--|--|
| Client Contact: Nathan Ohrt   |             | Phone:   |                              | Yang, Mary E                    | 310-96308-26494 1                 |                            |                    |  |  |
| Company: SCS Engineers  |             | E-Mail: Mary Yang@ET EurofinsUS.com  |                              | State of Origin:                | Page:                             | Job #:                     |                    |  |  |
| Address: 1690 All State Court Suite 100   |             | PWSID:   |                              | Analysis Requested              |                                   |                            |                    |  |  |
| City: West Des Moines   |             | Due Date Requested:  |                              | Preservation Codes:             |                                   |                            |                    |  |  |
| State, Zip: IA, 50265   |             | TAT Requested (days):  |                              | D - HNO3<br>N - None<br>A - HCL |                                   |                            |                    |  |  |
| Phone: 319-331-9613(Tel)  |             | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |                              | Other:                          |                                   |                            |                    |  |  |
| Email: nohrt@scsengineers.com   |             | PO #: 27223408 25  |                              | Total Number of Containers      |                                   |                            |                    |  |  |
| Project Name: 2nd 2024 Semi-Annual Sampling   |             | WO #: 31016904   |                              | Special Instructions/Note:      |                                   |                            |                    |  |  |
| Site:   |             | Project #: 31016904  |                              |                                 |                                   |                            |                    |  |  |
|   |             | SSOW#:   |                              |                                 |                                   |                            |                    |  |  |
| Sample Identification   | Sample Date | Sample Time  | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other)    | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020B - Appendix 1 | 1.3765 - Residue, Non-Filterable (TSS) | 8280D - (MOD) Volatile Appendix 1 Sublet |
| MW-22B  | 9-12-24     | 1602   | G                            | Water                           | X                                 | X                          | X                  | X                                      | X  |
| MW-26   | 9-12-24     | 1530   | G                            | Water                           | X                                 | X                          | X                  | X                                      | X  |
| MW-28   | 9-12-24     | 1633   | G                            | Water                           | X                                 | X                          | X                  | X                                      | X  |
| MW-D  | 9-12-24     | 1602   | G                            | Water                           | X                                 | X                          | X                  | X                                      | X  |
| Trip Blank  |             |  |                              | Water                           |                                   |                            |                    |  |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested I, II, III, IV, Other (specify) |             |  |                              |                                 |                                   |                            |                    |  |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months   |             |  |                              |                                 |                                   |                            |                    |  |  |
| Special Instructions/QC Requirements:   |             |  |                              |                                 |                                   |                            |                    |  |  |
| Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____  |             |  |                              |                                 |                                   |                            |                    |  |  |
| Relinquished by: <i>Kramer Roth</i> Date/Time: 9-13-24 / 10:00am Company: SCS<br>Relinquished by: _____ Date/Time: _____ Company: _____<br>Relinquished by: _____ Date/Time: _____ Company: _____   |             |  |                              |                                 |                                   |                            |                    |  |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Cooler Temperature(s) °C and Other Remarks: _____   |             |  |                              |                                 |                                   |                            |                    |  |  |



## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-290613-1

**Login Number: 290613**

**List Source: Eurofins Cedar Falls**

**List Number: 1**

**Creator: Collins, Charlotte**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | 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 <6mm (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: Nathan Ohrt  
SCS Engineers  
1690 All State Court  
Suite 100  
West Des Moines, Iowa 50265

Generated 11/18/2024 8:59:09 AM

## JOB DESCRIPTION

Kossuth County Landfill

## JOB NUMBER

310-294910-1

# 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



Generated  
11/18/2024 8:59:09 AM

Authorized for release by  
Samuel Miller, Project Management Assistant I  
[Samuel.Miller@et.eurofinsus.com](mailto:Samuel.Miller@et.eurofinsus.com)  
(319)277-2401



# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 3  |
| Case Narrative . . . . .        | 4  |
| Sample Summary . . . . .        | 5  |
| Detection Summary . . . . .     | 6  |
| Client Sample Results . . . . . | 7  |
| Definitions . . . . .           | 9  |
| QC Sample Results . . . . .     | 10 |
| QC Association . . . . .        | 11 |
| Chronicle . . . . .             | 12 |
| Certification Summary . . . . . | 13 |
| Method Summary . . . . .        | 14 |
| Chain of Custody . . . . .      | 15 |
| Receipt Checklists . . . . .    | 17 |

# Case Narrative

Client: SCS Engineers  
Project: Kossuth County Landfill

Job ID: 310-294910-1

**Job ID: 310-294910-1**

**Eurofins Cedar Falls**

## Job Narrative 310-294910-1

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 11/8/2024 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

### 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: Kossuth County Landfill

Job ID: 310-294910-1

---

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-294910-3  | MWPz-8B2         | Water  | 11/06/24 12:52 | 11/08/24 16:25 |
| 310-294910-4  | MW-19            | Water  | 11/06/24 11:50 | 11/08/24 16:25 |

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



# Detection Summary

Client: SCS Engineers  
Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

## Client Sample ID: MWPz-8B2

Lab Sample ID: 310-294910-3

| Analyte                | Result  | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|---------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Arsenic                | 0.0157  |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 0.159   |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cadmium                | 0.00563 |           | 0.000200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.0124  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Lead                   | 0.0134  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.249   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Selenium               | 0.0224  |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Zinc                   | 0.0337  |           | 0.0200   |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 664     |           | 30.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

## Client Sample ID: MW-19

Lab Sample ID: 310-294910-4

| Analyte                | Result   | Qualifier | RL       | MDL | Unit | Dil Fac | D | Method    | Prep Type |
|------------------------|----------|-----------|----------|-----|------|---------|---|-----------|-----------|
| Arsenic                | 0.130    |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Barium                 | 1.19     |           | 0.00200  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cadmium                | 0.000405 |           | 0.000200 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Cobalt                 | 0.00441  |           | 0.000500 |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Nickel                 | 0.0311   |           | 0.00500  |     | mg/L | 1       |   | 6020B     | Total/NA  |
| Total Suspended Solids | 164      |           | 30.0     |     | mg/L | 1       |   | I-3765-85 | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

**Client Sample ID: MWPz-8B2**

**Lab Sample ID: 310-294910-3**

Date Collected: 11/06/24 12:52

Matrix: Water

Date Received: 11/08/24 16:25

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

| Analyte  | Result  | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|---------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic  | 0.0157  |           | 0.00200  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Barium   | 0.159   |           | 0.00200  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Cadmium  | 0.00563 |           | 0.000200 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Cobalt   | 0.0124  |           | 0.000500 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Lead     | 0.0134  |           | 0.000500 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Nickel   | 0.249   |           | 0.00500  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Selenium | 0.0224  |           | 0.00500  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |
| Zinc     | 0.0337  |           | 0.0200   |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:07 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | 664    |           | 30.0 |     | mg/L |   |          | 11/12/24 16:31 | 1       |

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

**Client Sample ID: MW-19**

**Lab Sample ID: 310-294910-4**

Date Collected: 11/06/24 11:50

Matrix: Water

Date Received: 11/08/24 16:25

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

| Analyte  | Result    | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Arsenic  | 0.130     |           | 0.00200  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Barium   | 1.19      |           | 0.00200  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Cadmium  | 0.000405  |           | 0.000200 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Cobalt   | 0.00441   |           | 0.000500 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Lead     | <0.000500 |           | 0.000500 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Nickel   | 0.0311    |           | 0.00500  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Selenium | <0.00500  |           | 0.00500  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |
| Zinc     | <0.0200   |           | 0.0200   |     | mg/L |   | 11/15/24 09:30 | 11/15/24 17:09 | 1       |

**General Chemistry**

| Analyte                                 | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Suspended Solids (USGS I-3765-85) | 164    |           | 30.0 |     | mg/L |   |          | 11/12/24 16:31 | 1       |

# Definitions/Glossary

Client: SCS Engineers  
Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

## 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: Kossuth County Landfill

Job ID: 310-294910-1

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

**Lab Sample ID: MB 310-439749/1-A**  
**Matrix: Water**  
**Analysis Batch: 440003**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 439749**

| Analyte  | MB MB     |           | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
|          | Result    | Qualifier |          |     |      |   |                |                |         |
| Arsenic  | <0.00200  |           | 0.00200  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Barium   | <0.00200  |           | 0.00200  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Cadmium  | <0.000200 |           | 0.000200 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Cobalt   | <0.000500 |           | 0.000500 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Lead     | <0.000500 |           | 0.000500 |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Nickel   | <0.00500  |           | 0.00500  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Selenium | <0.00500  |           | 0.00500  |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |
| Zinc     | <0.0200   |           | 0.0200   |     | mg/L |   | 11/15/24 09:30 | 11/15/24 16:26 | 1       |

**Lab Sample ID: LCS 310-439749/2-A**  
**Matrix: Water**  
**Analysis Batch: 440003**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 439749**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
|          |             |            |               |      |   |      |             |
| Barium   | 0.100       | 0.1030     |               | mg/L |   | 103  | 80 - 120    |
| Cadmium  | 0.100       | 0.09884    |               | mg/L |   | 99   | 80 - 120    |
| Cobalt   | 0.100       | 0.1007     |               | mg/L |   | 101  | 80 - 120    |
| Lead     | 0.200       | 0.2016     |               | mg/L |   | 101  | 80 - 120    |
| Nickel   | 0.200       | 0.1925     |               | mg/L |   | 96   | 80 - 120    |
| Selenium | 0.400       | 0.3948     |               | mg/L |   | 99   | 80 - 120    |
| Zinc     | 0.200       | 0.1857     |               | mg/L |   | 93   | 80 - 120    |

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

**Lab Sample ID: MB 310-439468/1**  
**Matrix: Water**  
**Analysis Batch: 439468**

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

| Analyte                | MB MB  |           | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
|                        | Result | Qualifier |     |     |      |   |          |                |         |
| Total Suspended Solids | <5.0   |           | 5.0 |     | mg/L |   |          | 11/12/24 16:31 | 1       |

**Lab Sample ID: LCS 310-439468/2**  
**Matrix: Water**  
**Analysis Batch: 439468**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
|         |             |            |               |      |   |      |             |

# QC Association Summary

Client: SCS Engineers  
Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

## Metals

### Prep Batch: 439749

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-294910-3       | MWPz-8B2           | Total/NA  | Water  | 3005A  |            |
| 310-294910-4       | MW-19              | Total/NA  | Water  | 3005A  |            |
| MB 310-439749/1-A  | Method Blank       | Total/NA  | Water  | 3005A  |            |
| LCS 310-439749/2-A | Lab Control Sample | Total/NA  | Water  | 3005A  |            |

### Analysis Batch: 440003

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-294910-3       | MWPz-8B2           | Total/NA  | Water  | 6020B  | 439749     |
| 310-294910-4       | MW-19              | Total/NA  | Water  | 6020B  | 439749     |
| MB 310-439749/1-A  | Method Blank       | Total/NA  | Water  | 6020B  | 439749     |
| LCS 310-439749/2-A | Lab Control Sample | Total/NA  | Water  | 6020B  | 439749     |

## General Chemistry

### Analysis Batch: 439468

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 310-294910-3     | MWPz-8B2           | Total/NA  | Water  | I-3765-85 |            |
| 310-294910-4     | MW-19              | Total/NA  | Water  | I-3765-85 |            |
| MB 310-439468/1  | Method Blank       | Total/NA  | Water  | I-3765-85 |            |
| LCS 310-439468/2 | Lab Control Sample | Total/NA  | Water  | I-3765-85 |            |

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

**Client Sample ID: MWPz-8B2**

**Lab Sample ID: 310-294910-3**

Date Collected: 11/06/24 12:52

Matrix: Water

Date Received: 11/08/24 16:25

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Prep       | 3005A        |     |                 | 439749       | F5MW          | EET CF | 11/15/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 440003       | A6US          | EET CF | 11/15/24 17:07       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 439468       | MDU9          | EET CF | 11/12/24 16:31       |

**Client Sample ID: MW-19**

**Lab Sample ID: 310-294910-4**

Date Collected: 11/06/24 11:50

Matrix: Water

Date Received: 11/08/24 16:25

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA  | Prep       | 3005A        |     |                 | 439749       | F5MW          | EET CF | 11/15/24 09:30       |
| Total/NA  | Analysis   | 6020B        |     | 1               | 440003       | A6US          | EET CF | 11/15/24 17:09       |
| Total/NA  | Analysis   | I-3765-85    |     | 1               | 439468       | MDU9          | EET CF | 11/12/24 16:31       |

**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: Kossuth County Landfill

Job ID: 310-294910-1

## 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

# Method Summary

Client: SCS Engineers  
Project/Site: Kossuth County Landfill

Job ID: 310-294910-1

| Method    | Method Description            | Protocol | Laboratory |
|-----------|-------------------------------|----------|------------|
| 6020B     | Metals (ICP/MS)               | SW846    | EET CF     |
| I-3765-85 | Residue, Non-filterable (TSS) | USGS     | EET CF     |
| 3005A     | Preparation, Total Metals     | SW846    | EET CF     |

**Protocol References:**

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





**Cooler/Sample Receipt and Temperature Log Form**

|  |                    |                                  |              |
|--|--------------------|----------------------------------|--------------|
| <b>Client Information</b>  |                    |                                  |              |
| Client: <b>SCS Engineers</b>   |                    |                                  |              |
| City/State:  | CITY               | STATE                            | Project:     |
| <b>Receipt Information</b>   |                    |                                  |              |
| Date/Time Received:  | DATE               | TIME                             | Received By: |
|  | <b>11.08.24</b>    | <b>1625</b>                      | <b>CGC</b>   |
| Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee  |                    |                                  |              |
| <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____   |                    |                                  |              |
| <b>Condition of Cooler/Containers</b>  |                    |                                  |              |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>  |                    |                                  |              |
| Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # _____ of _____</i>   |                    |                                  |              |
| Cooler Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>                           |                    |                                  |              |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>                           |                    |                                  |              |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>  |                    |                                  |              |
| <b>Temperature Record</b>  |                    |                                  |              |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE                                      |                    |                                  |              |
| Thermometer ID: <b>P</b>   |                    | Correction Factor (°C): <b>0</b> |              |
| • <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature  |                    |                                  |              |
| Uncorrected Temp (°C): <b>1.2</b>  |                    | Corrected Temp (°C): <b>1.2</b>  |              |
| • <b>Sample Container Temperature</b>  |                    |                                  |              |
| Container(s) used:   | <u>CONTAINER 1</u> | <u>CONTAINER 2</u>               |              |
| Uncorrected Temp (°C):   |                    |                                  |              |
| Corrected Temp (°C):   |                    |                                  |              |
| <b>Exceptions Noted</b>  |                    |                                  |              |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No  |                    |                                  |              |
| a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No  |                    |                                  |              |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No |                    |                                  |              |
| NOTE If yes, contact PM before proceeding If no, proceed with login  |                    |                                  |              |
| <b>Additional Comments</b>   |                    |                                  |              |
|  |                    |                                  |              |
|  |                    |                                  |              |



**Chain of Custody Record**

|  |         |  |   |  |  |
|--|---------|--|---|--|--|
| <b>Client Information</b><br>Client Contact: Nathan Ohrt<br>Company: SCS Engineers<br>Address: 1690 All State Court Suite 100<br>City: West Des Moines<br>State, Zip: IA, 50265<br>Phone: 319-331-9613(Tel)<br>Email: nohrt@scsengineers.com<br>Project Name: Kossuth County Landfill<br>Site:                   |         | Lab PM: Miller, Samuel<br>E-Mail: Samuel.Miller@et.eurofins.com<br>Carrier Tracking No(s):<br>State of Origin: |   | CCC No: 310-99531-26979 1<br>Page: Page 1 of 1<br>Job #: |  |
| Due Date Requested:<br>TAT Requested (days):<br>Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>PO #: Purchase Order not required<br>WO #:   |         | <b>Analysis Requested</b>  |   |  |  |
| Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)<br>Preservation Code:  |         | Field Filtered Sample (Yes or No)  |   | Perform MS/MSD (Yes or No)                               |  |
| Sample Date<br>Sample Time<br>Sample Type (C=Comp, G=grab)<br>Matrix   |         | Preservation Code:   |   | Special Instructions/Note:                               |  |
| MW-12  |         |  |   |  |  |
| MWPz-8A  |         |  |   |  |  |
| MWPz-8B2   | 11-6-24 | 12:52  | G | Water  |  |
| MW-19  | 11-6-24 | 11:50  | G | Water  |  |
| Total Number of containers:  |         |  |   |  |  |
| Preservation Codes:<br>D - HNO3<br>N - None<br>Other:  |         |  |   |  |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested I, II, III, IV Other (specify) |         |  |   |  |  |
| Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months   |         |  |   |  |  |
| Special Instructions/QC Requirements:  |         |  |   |  |  |
| Empty Kit Relinquished by:   |         | Date:  |   | Method of Shipment:                                      |  |
| Relinquished by: <i>Korhorts</i>   |         | Date/Time: 11-8-24/12:00   |   | Received by: <i>Evml</i>                                 |  |
| Relinquished by:   |         | Date/Time:   |   | Received by: <i>EGC</i>                                  |  |
| Relinquished by:   |         | Date/Time:   |   | Received by:   |  |
| Custody Seals Intact:<br><input type="checkbox"/> Yes <input type="checkbox"/> No  |         | Custody Seal No  |   | Cooler Temperature(s) °C and Other Remarks:              |  |



## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-294910-1

**Login Number: 294910**

**List Source: Eurofins Cedar Falls**

**List Number: 1**

**Creator: Collins, Charlotte G**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | 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 <6mm (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 Documentation**

Completed by: Michael Morgan  
 Sample Date: 5/22/2024  
 Lab Report Date: 6/12/2024  
 Site Name: Kossuth County Sanitary Landfill  
 Project Type: 1<sup>st</sup> 2024 HMSP  
 Lab Report Number: 310-282075-1

OK NO N/A NOTES

**Sample Collection and Sample Handling**

Chain of Custody  
 Temperature  
 Preservation  
 Condition  
 Case Narrative  
 Holding Times

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |

**Analytical Sensitivity and Blanks**

Method Blank Detections  
 Trip Blank Detections

|   |  |  |               |
|---|--|--|---------------|
| X |  |  | No detections |
| X |  |  | No detections |

**Accuracy**

ICV/CCV  
 LCS/LCSD  
 MS/MSD  
 Surrogates (organics only)

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |

**Precision**

QA/QC Sample RPDs  
 Field Duplicates

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  | Sample MW-20 and duplicate sample MW-D had <50% RPD for analyzed parameters. |



Completed by: Michael Morgan  
 Sample Date: 9/12/2024  
 Lab Report Date: 9/26/2024  
 Site Name: Kossuth County Sanitary Landfill  
 Project Type: 2<sup>nd</sup> 2024 HMSP  
 Lab Report Number: 310-290613-1

OK NO N/A NOTES

**Sample Collection and Sample Handling**

Chain of Custody  
 Temperature  
 Preservation  
 Condition  
 Case Narrative  
 Holding Times

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
|   |  |  |  |
| X |  |  |  |
| X |  |  |  |

**Analytical Sensitivity and Blanks**

Method Blank Detections  
 Trip Blank Detections

|   |  |  |               |
|---|--|--|---------------|
| X |  |  | No detections |
| X |  |  | No detections |

**Accuracy**

ICV/CCV

|  |   |  |   |
|--|---|--|---|
|  | X |  | Method 8260D: The CCV associated with batch 310-433388 recovered above the upper control limit for Dichlorodifluoromethane (105.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.<br><br>Method 8260D: The continuing calibration verification (CCV) associated with batch 310-433390 recovered above the upper control limit for Dichlorodifluoromethane (95.3%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. |
|--|---|--|---|

LCS/LCSD

|  |   |  |   |
|--|---|--|---|
|  | X |  | Method 8260D: The laboratory control sample (LCS) for analytical batch 310-433388 recovered outside control limits for Dichlorodifluoromethane.; this analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.<br><br>Method 8260D: The LCS for analytical batch 310-433390 recovered outside control limits for Dichlorodifluoromethane; this analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. |
|--|---|--|---|

MS/MSD  
 Surrogates (organics only)

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  |  |

**Precision**

QA/QC Sample RPDs  
 Field Duplicates

|   |  |  |   |
|---|--|--|---|
| X |  |  |   |
| X |  |  | Sample MW-22B and duplicate sample MW-D had <50% RPD for analyzed parameters. |

Completed by: Michael Morgan  
 Sample Date: 11/6/2024  
 Lab Report Date: 11/18/2024  
 Site Name: Kossuth County Sanitary Landfill  
 Project Type: November Resample HMSP  
 Lab Report Number: 310-294910-1

OK NO N/A NOTES

**Sample Collection and Sample Handling**

Chain of Custody  
 Temperature  
 Preservation  
 Condition  
 Case Narrative  
 Holding Times

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |

**Analytical Sensitivity and Blanks**

Method Blank Detections  
 Trip Blank Detections

|   |  |   |               |
|---|--|---|---------------|
| X |  |   | No detections |
|   |  | X |               |

**Accuracy**

ICV/CCV  
 LCS/LCSD  
 MS/MSD  
 Surrogates (organics only)

|   |  |  |  |
|---|--|--|--|
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |
| X |  |  |  |

**Precision**

QA/QC Sample RPDs  
 Field Duplicates

|   |  |   |  |
|---|--|---|--|
| X |  |   |  |
|   |  | X |  |

**Appendix C**  
**Summary of Groundwater Chemistry**

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents           | Sample Date                        | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|-------------------------------------|------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| Antimony, mg/L (CAS NO - 7440-36-0) | 3/17/2009                          | < 0.006    | N/A       | < 0.006     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.006   | N/A       | < 0.006      |         |
|                                     | 7/10/2009                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.006    | < 0.006   | < 0.006   | N/A       | N/A       | N/A          |         |
|                                     | 10/27/2009                         | N/A        | < 0.006   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 4/28/2010                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.006   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 1/13/2011                          | N/A        | N/A       | N/A         | N/A          | < 0.006   | < 0.006   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 4/28/2011                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.006   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 5/13/2013                          | < 0.006    | N/A       | N/A         | N/A          | < 0.006   | N/A       | N/A       | N/A       | < 0.006    | < 0.006   | < 0.006   | N/A       | N/A       | < 0.006      |         |
|                                     | 5/14/2013                          | N/A        | < 0.006   | N/A         | N/A          | N/A       | < 0.006   | N/A       | < 0.006   | N/A        | N/A       | N/A       | < 0.006   | N/A       | N/A          |         |
|                                     | 7/23/2013                          | N/A        | N/A       | < 0.006     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 11/19/2013                         | < 0.006    | < 0.006   | N/A         | N/A          | < 0.006   | < 0.006   | N/A       | < 0.006   | < 0.006    | < 0.006   | < 0.006   | < 0.006   | N/A       | < 0.006      |         |
|                                     | 5/21/2014                          | < 0.006    | < 0.006   | N/A         | N/A          | < 0.006   | < 0.006   | N/A       | < 0.006   | < 0.006    | < 0.006   | < 0.006   | < 0.006   | N/A       | < 0.006      |         |
|                                     | 6/24/2014                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.006   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 11/10/2014                         | < 0.006    | < 0.006   | N/A         | N/A          | < 0.006   | < 0.006   | N/A       | < 0.006   | < 0.006    | < 0.006   | < 0.006   | < 0.006   | N/A       | < 0.006      |         |
|                                     | 5/4/2015                           | < 0.001    | < 0.001   | < 0.001     | N/A          | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |         |
|                                     | 11/10/2015                         | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 5/5/2016                           | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 11/7/2016                          | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 5/16/2017                          | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 11/7/2017                          | < 0.001    | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 5/14/2018                          | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 7/17/2018                          | 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          |         |
|                                     | 11/7/2018                          | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 2/5/2019                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.001   | N/A       | N/A       | N/A          |         |
|                                     | 5/15/2019                          | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 11/19/2019                         | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 5/27/2020                          | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 11/18/2020                         | N/A        | < 0.001   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|                                     | 5/13/2021                          | N/A        | < 0.002   | N/A         | N/A          | N/A       | < 0.002   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |         |
|                                     | 11/23/2021                         | N/A        | < 0.002   | N/A         | < 0.002      | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |         |
|                                     | 5/23/2022                          | < 0.002    | < 0.002   | < 0.002     | < 0.002      | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |         |
|                                     | 11/15/2022                         | N/A        | < 0.002   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |         |
|                                     | 5/22/2023                          | < 0.002    | < 0.002   | N/A         | < 0.002      | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |         |
|                                     | 11/30/2023                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 11/30/2023                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | N/A       | N/A       | N/A       | N/A          |         |
|                                     | 5/22/2024                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | N/A       | N/A       | < 0.002   | < 0.002      |         |
|                                     | 9/12/2024                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | N/A       | N/A       | < 0.002   | < 0.002      |         |
|                                     | 9/12/2024                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | N/A       | N/A       | N/A       | N/A          |         |
|                                     | Arsenic, mg/L (CAS NO - 7440-38-2) | 3/17/2009  | 0.00282   | N/A         | < 0.001      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.001   | N/A          | < 0.001 |
|                                     |                                    | 5/4/2009   | 0.00189   | 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     |
|                                     |                                    | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 0.00904   | 0.022     | 0.00446   | N/A       | N/A          |         |
| 10/27/2009                          |                                    | N/A        | 0.0031    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 10/28/2009                          |                                    | 0.00136    | N/A       | 0.00163     | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00206    | 0.00128   | < 0.001   | N/A       | N/A       |              |         |
| 4/28/2010                           |                                    | 0.00276    | < 0.001   | < 0.001     | N/A          | N/A       | N/A       | N/A       | < 0.001   | < 0.001    | 0.0011    | < 0.001   | N/A       | N/A       |              |         |
| 7/28/2010                           |                                    | N/A        | 0.00182   | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00146    | 0.00174   | < 0.001   | N/A       | N/A       |              |         |
| 7/28/2010                           |                                    | N/A        | 0.00189   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 10/28/2010                          |                                    | N/A        | 0.00196   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 1/13/2011                           |                                    | N/A        | N/A       | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 4/28/2011                           |                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 0.00686   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 7/20/2011                           |                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.001   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 10/26/2011                          |                                    | 0.00661    | 0.00126   | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | < 0.001   | < 0.001   | N/A       | N/A       |              |         |
| 1/11/2012                           |                                    | < 0.001    | < 0.001   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | < 0.001   | < 0.002   | N/A       | N/A       |              |         |
| 5/9/2012                            |                                    | < 0.001    | < 0.001   | N/A         | N/A          | N/A       | N/A       | < 0.003   | N/A       | < 0.001    | < 0.003   | < 0.002   | N/A       | N/A       |              |         |
| 5/13/2013                           |                                    | < 0.001    | N/A       | N/A         | N/A          | < 0.001   | N/A       | N/A       | N/A       | < 0.001    | < 0.001   | < 0.001   | N/A       | N/A       |              |         |
| 5/14/2013                           |                                    | N/A        | < 0.001   | N/A         | N/A          | N/A       | < 0.001   | N/A       | 0.00134   | N/A        | N/A       | N/A       | < 0.001   | N/A       |              |         |
| 7/23/2013                           |                                    | N/A        | N/A       | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 11/19/2013                          |                                    | 0.00101    | 0.001     | N/A         | N/A          | < 0.001   | 0.00408   | N/A       | < 0.001   | < 0.002    | < 0.002   | < 0.002   | < 0.001   | N/A       |              |         |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents          | Sample Date                       | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |       |
|------------------------------------|-----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-------|
| Arsenic, mg/L (CAS NO - 7440-38-2) | 5/21/2014                         | < 0.001    | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |       |
|                                    | 6/24/2014                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.001   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                    | 11/10/2014                        | < 0.001    | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |       |
|                                    | 5/4/2015                          | < 0.002    | < 0.002   | < 0.002     | N/A          | < 0.002   | < 0.002   | 0.00272   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | N/A       | < 0.002      |       |
|                                    | 11/10/2015                        | < 0.002    | 0.00226   | < 0.002     | < 0.002      | < 0.002   | 0.00232   | 0.00409   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/5/2016                          | < 0.002    | < 0.002   | < 0.002     | 0.0249       | < 0.002   | < 0.002   | 0.00777   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/7/2016                         | 0.00243    | 0.00211   | < 0.002     | 0.0386       | < 0.002   | < 0.002   | 0.00471   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/16/2017                         | < 0.002    | < 0.002   | < 0.002     | 0.0379       | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/7/2017                         | < 0.002    | 0.00238   | N/A         | 0.0238       | < 0.002   | < 0.002   | N/A       | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/14/2018                         | < 0.002    | < 0.002   | < 0.002     | 0.0425       | < 0.002   | < 0.002   | 0.0031    | < 0.002   | < 0.002    | 0.00537   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/7/2018                         | 0.00254    | 0.00206   | < 0.002     | 0.00975      | < 0.002   | < 0.002   | 0.0092    | 0.00204   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/15/2019                         | 0.003      | < 0.002   | < 0.002     | 0.0238       | < 0.002   | < 0.002   | 0.017     | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/19/2019                        | 0.00209    | 0.0028    | < 0.002     | 0.0203       | < 0.002   | 0.00292   | 0.00358   | 0.00208   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/27/2020                         | 0.0036     | 0.00233   | < 0.002     | 0.0436       | < 0.002   | < 0.002   | 0.0177    | 0.00229   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/18/2020                        | N/A        | 0.00285   | N/A         | N/A          | N/A       | N/A       | 0.0271    | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/13/2021                         | N/A        | < 0.002   | N/A         | N/A          | N/A       | < 0.002   | < 0.002   | 0.00977   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/23/2021                        | N/A        | < 0.002   | N/A         | < 0.002      | < 0.002   | < 0.002   | 0.00209   | 0.0376    | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/23/2022                         | 0.00377    | < 0.002   | < 0.002     | < 0.002      | < 0.002   | < 0.002   | 0.0361    | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/15/2022                        | N/A        | 0.00252   | N/A         | N/A          | N/A       | N/A       | N/A       | 0.0694    | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/22/2023                         | 0.00313    | < 0.002   | N/A         | < 0.002      | < 0.002   | < 0.002   | 0.0566    | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.002    | N/A       | N/A       | < 0.002   | N/A       | N/A          |       |
|                                    | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.002    | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                    | 5/22/2024                         | 0.00219    | < 0.002   | N/A         | 0.0089       | < 0.002   | 0.00471   | 0.0968    | 0.00212   | 0.00394    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |       |
|                                    | 5/22/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 0.00214   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                    | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00331    | N/A       | N/A       | < 0.002   | < 0.002   | N/A          |       |
|                                    | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00397    | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                    | 11/6/2024                         | N/A        | N/A       | N/A         | N/A          | 0.0157    | N/A       | N/A       | 0.13      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                    | Barium, mg/L (CAS NO - 7440-39-3) | 3/17/2009  | 0.333     | N/A         | 0.151        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | 0.119     | N/A          | 0.313 |
|                                    |                                   | 5/4/2009   | 0.166     | N/A         | 0.114        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | 0.113     | N/A          | 0.273 |
|                                    |                                   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 0.369     | 0.999     | 0.262     | N/A       | N/A          | N/A   |
| 10/27/2009                         |                                   | N/A        | 0.134     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 10/28/2009                         |                                   | 0.18       | N/A       | 0.149       | N/A          | N/A       | N/A       | N/A       | N/A       | 0.333      | 0.526     | 0.0915    | 0.108     | N/A       | 0.282        |       |
| 4/28/2010                          |                                   | 0.124      | 0.0439    | 0.0934      | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0735     | 0.289     | 0.492     | 0.134     | 0.0652    | N/A          | 0.26  |
| 7/28/2010                          |                                   | N/A        | 0.0519    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0941     | 0.229     | 0.559     | 0.0995    | N/A       | N/A          | N/A   |
| 7/28/2010                          |                                   | N/A        | 0.0793    | 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   |
| 10/28/2010                         |                                   | N/A        | 0.075     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.134      | N/A       | N/A       | N/A       | N/A       | N/A          | N/A   |
| 1/13/2011                          |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | 0.397     | 0.091     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A   |
| 4/28/2011                          |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | 0.183     | 0.185     | 0.452     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A   |
| 7/20/2011                          |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | 0.208     | 0.108     | 0.394     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A   |
| 10/26/2011                         |                                   | 0.744      | 0.0519    | 0.288       | N/A          | 0.21      | 0.0983    | N/A       | 0.128     | 0.357      | 0.473     | 0.158     | 0.121     | N/A       | N/A          | 0.306 |
| 1/11/2012                          |                                   | 0.217      | 0.11      | N/A         | N/A          | 0.383     | 0.101     | N/A       | 0.109     | 0.442      | 0.474     | 0.145     | 0.103     | N/A       | N/A          | 0.313 |
| 5/9/2012                           |                                   | 0.219      | 0.09      | N/A         | N/A          | 0.187     | 0.0975    | 0.411     | 0.112     | 0.426      | 0.496     | 0.102     | 0.0894    | N/A       | N/A          | 0.296 |
| 5/13/2013                          |                                   | 0.155      | N/A       | N/A         | N/A          | 0.209     | N/A       | N/A       | N/A       | 0.338      | 0.323     | 0.0743    | N/A       | N/A       | N/A          | 0.313 |
| 5/14/2013                          |                                   | N/A        | 0.0342    | N/A         | N/A          | N/A       | 0.0769    | N/A       | 0.0578    | N/A        | N/A       | N/A       | 0.131     | N/A       | N/A          | N/A   |
| 7/23/2013                          |                                   | N/A        | N/A       | 0.093       | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A   |
| 11/19/2013                         |                                   | 0.265      | 0.0562    | N/A         | N/A          | 0.292     | 0.0959    | N/A       | 0.0533    | 0.365      | 0.374     | 0.0739    | 0.102     | N/A       | N/A          | 0.296 |
| 5/21/2014                          |                                   | 0.209      | 0.0503    | N/A         | N/A          | 0.212     | 0.0704    | N/A       | 0.0667    | 0.372      | 0.442     | 0.0836    | 0.0961    | N/A       | N/A          | 0.31  |
| 6/24/2014                          |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 0.321     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A   |
| 11/10/2014                         |                                   | 0.175      | 0.0482    | N/A         | N/A          | 0.19      | 0.101     | N/A       | 0.0588    | 0.351      | 0.421     | 0.0819    | 0.0847    | N/A       | N/A          | 0.296 |
| 5/4/2015                           |                                   | 0.127      | 0.0378    | 0.0908      | N/A          | 0.199     | 0.101     | 0.388     | 0.0776    | 0.348      | 0.409     | 0.0747    | 0.0786    | N/A       | N/A          | 0.291 |
| 11/10/2015                         |                                   | 0.24       | 0.0542    | 0.103       | 0.534        | 0.212     | 0.103     | 0.419     | 0.0626    | 0.275      | 0.397     | 0.0924    | 0.104     | 0.0547    | N/A          | 0.31  |
| 5/5/2016                           |                                   | 0.211      | 0.0371    | 0.103       | 0.139        | 0.204     | 0.0901    | 0.382     | 0.102     | 0.334      | 0.48      | 0.085     | 0.0716    | 0.0507    | N/A          | 0.293 |
| 11/7/2016                          |                                   | 0.143      | 0.0518    | 0.109       | 0.125        | 0.227     | 0.0904    | 0.399     | 0.116     | 0.278      | 0.581     | 0.0981    | 0.0899    | 0.0502    | N/A          | 0.309 |
| 5/16/2017                          |                                   | 0.135      | 0.0389    | 0.114       | 0.12         | 0.231     | 0.0871    | 0.403     | 0.112     | 0.313      | 0.556     | 0.116     | 0.0697    | 0.0661    | N/A          | 0.284 |
| 11/7/2017                          |                                   | 0.173      | 0.0493    | N/A         | 0.164        | 0.179     | 0.0875    | N/A       | 0.089     | 0.319      | 0.475     | 0.117     | 0.0985    | 0.0476    | N/A          | 0.319 |
| 5/14/2018                          |                                   | 0.136      | 0.0314    | 0.0876      | 0.787        | 0.219     | 0.0762    | 0.495     | 0.0853    | 0.335      | 0.429     | 0.0769    | 0.0716    | 0.0549    | N/A          | 0.288 |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents         | Sample Date                          | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|-----------------------------------|--------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| Barium, mg/L (CAS NO - 7440-39-3) | 11/7/2018                            | 0.126      | 0.0429    | 0.114       | 0.101        | 0.211     | 0.12      | 0.595     | 0.126     | 0.272      | 0.476     | 0.0951    | 0.0938    | 0.0556    | 0.273        |         |
|                                   | 5/15/2019                            | 0.121      | 0.029     | 0.104       | 0.0994       | 0.222     | 0.0968    | 0.797     | 0.0828    | 0.293      | 0.405     | 0.0861    | 0.0787    | 0.0585    | 0.3          |         |
|                                   | 7/16/2019                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 0.611     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 11/19/2019                           | 0.122      | 0.0389    | 0.0995      | 0.0943       | 0.179     | 0.0851    | 0.657     | 0.103     | 0.248      | 0.403     | 0.11      | 0.0927    | 0.0518    | 0.293        |         |
|                                   | 5/27/2020                            | 0.116      | 0.0352    | 0.0932      | 0.0984       | 0.212     | 0.0931    | 0.787     | 0.141     | 0.316      | 0.212     | 0.1       | 0.0816    | 0.0468    | 0.306        |         |
|                                   | 11/18/2020                           | N/A        | 0.0462    | N/A         | N/A          | N/A       | N/A       | 0.905     | 0.0929    | 0.317      | 0.393     | 0.0936    | 0.0919    | 0.0451    | 0.314        |         |
|                                   | 5/13/2021                            | N/A        | 0.037     | N/A         | N/A          | 0.191     | 0.0596    | 0.77      | 0.0787    | 0.31       | 0.393     | 0.0929    | 0.0974    | 0.0524    | 0.322        |         |
|                                   | 11/23/2021                           | N/A        | 0.0694    | N/A         | 0.0534       | 0.19      | 0.089     | 0.859     | 0.0929    | 0.33       | 0.39      | 0.11      | 0.119     | 0.0493    | 0.304        |         |
|                                   | 5/23/2022                            | 0.147      | 0.038     | 0.0978      | 0.0994       | 0.209     | 0.0711    | 0.87      | 0.0759    | 0.425      | 0.506     | 0.0744    | 0.0867    | 0.0614    | 0.326        |         |
|                                   | 8/3/2022                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.39       | 0.385     | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 11/15/2022                           | N/A        | 0.0508    | N/A         | N/A          | N/A       | N/A       | 0.962     | 0.0638    | 0.326      | 0.389     | 0.0835    | 0.0947    | 0.046     | 0.31         |         |
|                                   | 5/22/2023                            | 0.118      | 0.0315    | N/A         | 0.0835       | 0.186     | 0.0801    | 0.912     | 0.0657    | 0.333      | 0.389     | 0.0486    | 0.0732    | 0.0435    | 0.291        |         |
|                                   | 11/30/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.321      | N/A       | N/A       | 0.0804    | 0.0702    | N/A          |         |
|                                   | 11/30/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.323      | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 5/22/2024                            | 0.237      | 0.0479    | N/A         | 0.243        | 0.225     | 0.423     | 1.36      | 0.0896    | 0.345      | 0.369     | 0.0894    | 0.0851    | 0.0715    | 0.312        |         |
|                                   | 5/22/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 0.0911    | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 9/12/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.315      | N/A       | N/A       | 0.0953    | 0.047     | N/A          |         |
|                                   | 9/12/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.329      | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 11/6/2024                            | N/A        | N/A       | N/A         | 0.159        | N/A       | N/A       | 1.19      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | Beryllium, mg/L (CAS NO - 7440-41-7) | 3/17/2009  | < 0.001   | N/A         | < 0.001      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.001   | N/A          | < 0.001 |
|                                   |                                      | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | 0.00112   | 0.00101   | N/A       | N/A          | N/A     |
|                                   |                                      | 10/27/2009 | N/A       | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A     |
|                                   |                                      | 10/28/2009 | N/A       | N/A         | < 0.001      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.001   | N/A       | N/A       | N/A          | N/A     |
| 4/28/2010                         |                                      | N/A        | N/A       | < 0.001     | N/A          | N/A       | N/A       | N/A       | < 0.001   | N/A        | < 0.001   | < 0.001   | N/A       | N/A       | N/A          |         |
| 7/28/2010                         |                                      | N/A        | N/A       | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | < 0.001   | N/A       | N/A       | N/A          |         |
| 1/13/2011                         |                                      | N/A        | N/A       | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | N/A       | N/A        | N/A       | < 0.001   | N/A       | N/A       | N/A          |         |
| 4/28/2011                         |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.001   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 10/26/2011                        |                                      | N/A        | N/A       | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | < 0.001   | N/A       | N/A       | N/A          |         |
| 1/11/2012                         |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | < 0.001   | N/A       | N/A       | N/A          |         |
| 5/9/2012                          |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | < 0.001   | N/A       | N/A       | N/A          |         |
| 5/13/2013                         |                                      | < 0.001    | N/A       | N/A         | N/A          | < 0.001   | N/A       | N/A       | N/A       | < 0.001    | < 0.001   | < 0.001   | N/A       | N/A       | < 0.001      |         |
| 5/14/2013                         |                                      | N/A        | < 0.001   | N/A         | N/A          | N/A       | < 0.001   | N/A       | < 0.001   | N/A        | N/A       | N/A       | < 0.001   | N/A       | N/A          |         |
| 7/23/2013                         |                                      | N/A        | N/A       | < 0.001     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 11/19/2013                        |                                      | < 0.001    | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |         |
| 5/21/2014                         |                                      | < 0.001    | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |         |
| 6/24/2014                         |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.001   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 11/10/2014                        |                                      | < 0.001    | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |         |
| 5/4/2015                          |                                      | < 0.001    | < 0.001   | < 0.001     | N/A          | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |         |
| 11/10/2015                        |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/5/2016                          |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/7/2016                         |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/16/2017                         |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/7/2017                         |                                      | < 0.001    | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/14/2018                         |                                      | < 0.001    | < 0.001   | < 0.001     | 0.00242      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/7/2018                         |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/15/2019                         |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/19/2019                        |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/27/2020                         |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/18/2020                        |                                      | N/A        | < 0.001   | N/A         | N/A          | N/A       | N/A       | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/13/2021                         |                                      | N/A        | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/23/2021                        |                                      | N/A        | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/23/2022                         |                                      | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/15/2022                        | N/A                                  | < 0.001    | N/A       | N/A         | N/A          | N/A       | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |         |
| 5/22/2023                         | < 0.001                              | < 0.001    | N/A       | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |         |
| 11/30/2023                        | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.001   | N/A        | N/A       | < 0.001   | < 0.001   | N/A       |              |         |
| 11/30/2023                        | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.001   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

|   | Sample Date | MW-22A UPG      | MW-27 UPG       | MWPz-8A UPG     | MWPz-8B2 UPG    | MW-12 DNG          | MW-18 DNG       | MW-19 DNG       | MW-20 DNG       | MW-22B DNG      | MW-23 DNG       | MW-25 DNG       | MW-26 DNG       | MW-28 DNG       | MWPz-16A DNG    |
|---|-------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Total Metals Constituents</b>            |             |                 |                 |                 |                 |                    |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>Beryllium, mg/L (CAS NO - 7440-41-7)</b> | 5/22/2024   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.001         | N/A             | N/A             | < 0.001         | < 0.001         | N/A             |
|   | 9/12/2024   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.001         | N/A             | N/A             | < 0.001         | < 0.001         | N/A             |
|   | 9/12/2024   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.001         | N/A             | N/A             | N/A             | N/A             | N/A             |
| <b>Cadmium, mg/L (CAS NO - 7440-43-9)</b>   | 3/17/2009   | <b>0.000963</b> | N/A             | < 0.0005        | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | <b>0.000506</b> | N/A             | < 0.0005        |
|   | 5/4/2009    | < 0.0005        | 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             |
|   | 7/10/2009   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | <b>0.000638</b> | <b>0.00234</b>  | <b>0.000581</b> | N/A             | N/A             | N/A             |
|   | 10/27/2009  | N/A             | <b>0.00188</b>  | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 10/28/2009  | < 0.0005        | N/A             | <b>0.00107</b>  | N/A             | N/A                | N/A             | N/A             | N/A             | <b>0.00112</b>  | <b>0.000616</b> | < 0.0005        | < 0.0005        | N/A             | N/A             |
|   | 4/28/2010   | < 0.0005        | <b>0.000893</b> | < 0.0005        | N/A             | N/A                | N/A             | N/A             | < 0.0005        | <b>0.000509</b> | <b>0.000598</b> | < 0.0005        | < 0.0005        | N/A             | N/A             |
|   | 7/28/2010   | N/A             | < 0.0005        | < 0.0005        | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | N/A             | N/A             |
|   | 7/28/2010   | N/A             | < 0.0005        | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 10/28/2010  | N/A             | < 0.0005        | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 1/13/2011   | N/A             | N/A             | N/A             | N/A             | <b>0.000991</b>    | < 0.0005        | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 4/28/2011   | N/A             | N/A             | N/A             | N/A             | < 0.0005           | N/A             | < 0.0005        | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 7/20/2011   | N/A             | N/A             | N/A             | N/A             | <b>0.000787</b>    | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 10/26/2011  | <b>0.00547</b>  | < 0.0005        | <b>0.00131</b>  | N/A             | <b>0.000744</b>    | N/A             | N/A             | N/A             | <b>0.000604</b> | <b>0.000837</b> | <b>0.000527</b> | < 0.0005        | N/A             | N/A             |
|   | 10/26/2011  | <b>0.00249</b>  | 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             |
|   | 1/11/2012   | < 0.0005        | < 0.0005        | N/A             | N/A             | <b>0.00121</b>     | N/A             | N/A             | N/A             | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | N/A             | N/A             |
|   | 5/9/2012    | < 0.0005        | <b>0.00111</b>  | N/A             | N/A             | < 0.0005           | N/A             | N/A             | N/A             | <b>0.000526</b> | <b>0.000505</b> | < 0.0005        | < 0.0005        | N/A             | <b>0.000513</b> |
|   | 5/13/2013   | < 0.0005        | N/A             | N/A             | N/A             | <b>0.000775</b>    | N/A             | N/A             | N/A             | <b>0.00102</b>  | < 0.0005        | < 0.0005        | N/A             | N/A             | <b>0.000504</b> |
|   | 5/14/2013   | N/A             | < 0.0005        | N/A             | N/A             | N/A                | < 0.0005        | N/A             | < 0.0005        | N/A             | N/A             | N/A             | < 0.0005        | N/A             | N/A             |
|   | 7/23/2013   | N/A             | N/A             | < 0.0005        | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 11/19/2013  | < 0.0005        | < 0.0005        | N/A             | N/A             | <b>0.00161</b>     | < 0.0005        | N/A             | < 0.0005        | <b>0.000636</b> | <b>0.000803</b> | < 0.0005        | < 0.0005        | N/A             | < 0.0005        |
|   | 5/21/2014   | < 0.0005        | < 0.0005        | N/A             | N/A             | < 0.0005           | < 0.0005        | N/A             | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | N/A             | < 0.0005        |
|   | 6/24/2014   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | < 0.0005        | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 11/10/2014  | < 0.0005        | < 0.0005        | N/A             | N/A             | < 0.0005           | < 0.0005        | N/A             | < 0.0005        | < 0.0005        | <b>0.000852</b> | < 0.0005        | < 0.0005        | N/A             | < 0.0005        |
|   | 5/4/2015    | < 0.0005        | < 0.0005        | < 0.0005        | N/A             | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | <b>0.000512</b> | < 0.0005        | < 0.0005        | < 0.0005        | N/A             | < 0.0005        |
|   | 11/10/2015  | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 5/5/2016    | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | <b>0.000533</b> | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 11/7/2016   | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 5/16/2017   | < 0.0005        | <b>0.000549</b> | < 0.0005        | < 0.0005        | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 11/7/2017   | < 0.0005        | < 0.0005        | N/A             | < 0.0005        | < 0.0005           | < 0.0005        | N/A             | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 5/14/2018   | < 0.0005        | < 0.0005        | < 0.0005        | <b>0.00231</b>  | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | <b>0.00102</b>  | <b>0.000548</b> | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 11/7/2018   | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | <b>0.000605</b> | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 5/15/2019   | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005           | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        | < 0.0005        |
|   | 11/19/2019  | <b>0.000232</b> | <b>0.00215</b>  | <b>0.000147</b> | <b>0.000271</b> | <b>0.000139</b>    | <b>0.000113</b> | <b>0.000643</b> | <b>0.000156</b> | <b>0.000493</b> | <b>0.000103</b> | <b>0.000444</b> | < 0.0001        | <b>0.000211</b> | <b>0.000162</b> |
|   | 5/27/2020   | <b>0.000257</b> | <b>0.000182</b> | <b>0.000192</b> | <b>0.000162</b> | <b>0.000394</b>    | <b>0.000129</b> | <b>0.000251</b> | <b>0.000303</b> | <b>0.0013</b>   | <b>0.000551</b> | <b>0.000682</b> | <b>0.000125</b> | <b>0.000346</b> | <b>0.000211</b> |
|   | 11/18/2020  | N/A             | <b>0.0001</b>   | N/A             | N/A             | N/A                | N/A             | <b>0.00075</b>  | < 0.0001        | <b>0.000597</b> | <b>0.000136</b> | <b>0.000188</b> | < 0.0001        | <b>0.000182</b> | <b>0.000116</b> |
|   | 5/13/2021   | N/A             | <b>0.000598</b> | N/A             | N/A             | < 0.0001           | < 0.0001        | < 0.0001        | <b>0.000128</b> | <b>0.000714</b> | <b>0.000244</b> | <b>0.000306</b> | < 0.0001        | <b>0.000113</b> | <b>0.000128</b> |
|   | 11/23/2021  | N/A             | < 0.0001        | N/A             | <b>0.00024</b>  | < 0.0001           | < 0.0001        | <b>0.00103</b>  | <b>0.000108</b> | <b>0.000273</b> | < 0.0001        | <b>0.000164</b> | < 0.0001        | <b>0.000205</b> | <b>0.000636</b> |
|   | 5/23/2022   | <b>0.000158</b> | <b>0.000118</b> | <b>0.000134</b> | <b>0.000334</b> | <b>0.000173</b>    | < 0.0001        | <b>0.000163</b> | <b>0.000115</b> | <b>0.000502</b> | <b>0.000167</b> | <b>0.000217</b> | < 0.0001        | <b>0.000134</b> | < 0.0001        |
|   | 11/15/2022  | N/A             | <b>0.00013</b>  | N/A             | N/A             | N/A                | N/A             | < 0.0001        | < 0.0001        | <b>0.000704</b> | <b>0.000125</b> | <b>0.000248</b> | < 0.0001        | <b>0.000172</b> | <b>0.000266</b> |
|   | 5/22/2023   | <b>0.000249</b> | < 0.0002        | N/A             | <b>0.000297</b> | <b>0.000451</b>    | <b>0.000409</b> | < 0.0002        | <b>0.00025</b>  | <b>0.000932</b> | < 0.0002        | < 0.0002        | < 0.0002        | <b>0.000302</b> | < 0.0002        |
|   | 11/30/2023  | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | <b>0.000746</b> | N/A             | N/A             | < 0.0002        | < 0.0002        | N/A             |
|   | 11/30/2023  | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | <b>0.000359</b> | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 5/22/2024   | < 0.0002        | < 0.0002        | N/A             | <b>0.00109</b>  | <b>&lt; 0.0002</b> | <b>0.000483</b> | <b>0.000951</b> | < 0.0002        | < 0.0002        | <b>0.000208</b> | < 0.0002        | < 0.0002        | < 0.0002        | < 0.0002        |
|   | 5/22/2024   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | < 0.0002        | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 9/12/2024   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.0002        | N/A             | N/A             | < 0.0002        | < 0.0002        | N/A             |
|   | 9/12/2024   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.0002        | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 11/6/2024   | N/A             | N/A             | N/A             | <b>0.00563</b>  | N/A                | N/A             | <b>0.000405</b> | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
| <b>Chromium, mg/L (CAS NO - 7440-47-3)</b>  | 3/17/2009   | < 0.02          | N/A             | < 0.02          | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | < 0.02          | N/A             | < 0.02          |
|   | 7/10/2009   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | < 0.02          | < 0.02          | < 0.02          | N/A             | N/A             | N/A             |
|   | 10/27/2009  | N/A             | < 0.02          | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 4/28/2010   | N/A             | N/A             | N/A             | N/A             | N/A                | N/A             | N/A             | < 0.02          | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 7/28/2010   | N/A             | < 0.02          | N/A             | N/A             | N/A                | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |
|   | 1/13/2011   | N/A             | N/A             | N/A             | N/A             | < 0.02             | < 0.02          | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             | N/A             |



# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents           | Sample Date                       | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|-------------------------------------|-----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Chromium, mg/L (CAS NO - 7440-47-3) | 4/28/2011                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 5/13/2013                         | < 0.02     | N/A       | N/A         | N/A          | < 0.02    | N/A       | N/A       | N/A       | < 0.02     | < 0.02    | < 0.02    | N/A       | N/A       | < 0.02       |
|                                     | 5/14/2013                         | N/A        | < 0.02    | N/A         | N/A          | N/A       | < 0.02    | N/A       | < 0.02    | N/A        | N/A       | N/A       | < 0.02    | N/A       | N/A          |
|                                     | 7/23/2013                         | N/A        | N/A       | < 0.02      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 11/19/2013                        | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |
|                                     | 5/21/2014                         | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |
|                                     | 6/24/2014                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 11/10/2014                        | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |
|                                     | 5/4/2015                          | < 0.005    | < 0.005   | < 0.005     | N/A          | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       | < 0.005      |
|                                     | 11/10/2015                        | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/5/2016                          | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/7/2016                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/16/2017                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/7/2017                         | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | N/A       | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/14/2018                         | < 0.005    | < 0.005   | < 0.005     | 0.0585       | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/7/2018                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/15/2019                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/19/2019                        | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/27/2020                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/18/2020                        | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/13/2021                         | N/A        | < 0.005   | N/A         | N/A          | N/A       | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/23/2021                        | N/A        | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/23/2022                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/15/2022                        | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/22/2023                         | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | N/A          |
|                                     | 5/22/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | < 0.005      |
|                                     | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | N/A          |
|                                     | 9/12/2024                         | 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          |
|                                     | Cobalt, mg/L (CAS NO - 7440-48-4) | 3/17/2009  | < 0.02    | N/A         | < 0.02       | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.02    | N/A          |
| 7/10/2009                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.02     | < 0.02    | < 0.02    | N/A       | N/A       | N/A          |
| 10/27/2009                          |                                   | N/A        | < 0.02    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.02    | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                           |                                   | N/A        | N/A       | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013                           |                                   | < 0.007    | N/A       | N/A         | N/A          | < 0.007   | N/A       | N/A       | N/A       | < 0.007    | < 0.007   | < 0.007   | N/A       | N/A       | < 0.007      |
| 5/14/2013                           |                                   | N/A        | < 0.007   | N/A         | N/A          | N/A       | < 0.007   | N/A       | < 0.007   | N/A        | N/A       | N/A       | < 0.007   | N/A       | N/A          |
| 7/23/2013                           |                                   | N/A        | N/A       | < 0.007     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 11/19/2013                          |                                   | < 0.007    | < 0.007   | N/A         | N/A          | < 0.007   | < 0.007   | N/A       | < 0.007   | < 0.007    | < 0.007   | < 0.007   | < 0.007   | N/A       | < 0.007      |
| 5/21/2014                           |                                   | < 0.007    | < 0.007   | N/A         | N/A          | < 0.007   | < 0.007   | N/A       | < 0.007   | < 0.007    | < 0.007   | < 0.007   | < 0.007   | N/A       | < 0.007      |
| 6/24/2014                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.007   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 11/10/2014                          |                                   | < 0.007    | < 0.007   | N/A         | N/A          | < 0.007   | < 0.007   | N/A       | < 0.007   | < 0.007    | < 0.007   | < 0.007   | < 0.007   | N/A       | < 0.007      |
| 5/4/2015                            |                                   | < 0.0005   | < 0.0005  | < 0.0005    | N/A          | < 0.0005  | < 0.0005  | 0.0014    | < 0.0005  | 0.00193    | 0.00167   | < 0.0005  | < 0.0005  | N/A       | < 0.0005     |
| 11/10/2015                          |                                   | 0.000825   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | 0.00638   | < 0.0005  | 0.000883   | 0.00171   | < 0.0005  | < 0.0005  | < 0.0005  | 0.00211      |
| 5/5/2016                            |                                   | < 0.0005   | < 0.0005  | < 0.0005    | 0.000777     | < 0.0005  | < 0.0005  | 0.00124   | < 0.0005  | 0.00145    | 0.00578   | < 0.0005  | < 0.0005  | < 0.0005  | 0.000656     |
| 11/7/2016                           |                                   | 0.000635   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | 0.00106   | < 0.0005  | 0.0011     | 0.00484   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 5/16/2017                           |                                   | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | 0.000647  | < 0.0005  | < 0.0005   | 0.00438   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 11/7/2017                           |                                   | < 0.0005   | < 0.0005  | N/A         | 0.00126      | < 0.0005  | < 0.0005  | N/A       | < 0.0005  | 0.000775   | 0.00265   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 5/14/2018                           |                                   | < 0.0005   | < 0.0005  | < 0.0005    | 0.0328       | < 0.0005  | < 0.0005  | 0.000632  | < 0.0005  | 0.00145    | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 11/7/2018                           |                                   | < 0.0005   | < 0.0005  | < 0.0005    | 0.00111      | < 0.0005  | < 0.0005  | 0.00148   | < 0.0005  | 0.00143    | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 2/5/2019                            |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 0.00122   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/15/2019                           |                                   | < 0.0005   | < 0.0005  | < 0.0005    | 0.000619     | < 0.0005  | < 0.0005  | 0.00113   | < 0.0005  | 0.000729   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 11/19/2019                          |                                   | < 0.0005   | < 0.0005  | < 0.0005    | 0.000769     | < 0.0005  | < 0.0005  | 0.0012    | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 5/27/2020                           |                                   | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | 0.0031    | < 0.0005  | 0.0011     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |
| 11/18/2020                          |                                   | N/A        | < 0.0005  | N/A         | N/A          | N/A       | N/A       | 0.00428   | < 0.0005  | 0.00146    | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents         | Sample Date                       | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|-----------------------------------|-----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| Cobalt, mg/L (CAS NO - 7440-48-4) | 2/2/2021                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00183    | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|                                   | 5/13/2021                         | N/A        | < 0.0005  | N/A         | N/A          | < 0.0005  | < 0.0005  | 0.00155   | < 0.0005  | 0.000608   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |        |
|                                   | 11/23/2021                        | N/A        | < 0.0005  | N/A         | 0.00313      | < 0.0005  | < 0.0005  | 0.00272   | < 0.0005  | 0.00413    | < 0.0005  | 0.000607  | < 0.0005  | < 0.0005  | < 0.0005     |        |
|                                   | 1/31/2022                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0065     | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|                                   | 5/23/2022                         | 0.00112    | < 0.0005  | < 0.0005    | 0.00208      | < 0.0005  | < 0.0005  | 0.00195   | < 0.0005  | 0.00347    | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |        |
|                                   | 11/15/2022                        | N/A        | < 0.0005  | N/A         | N/A          | N/A       | N/A       | 0.00267   | < 0.0005  | 0.00104    | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |        |
|                                   | 5/22/2023                         | < 0.0005   | < 0.0005  | N/A         | 0.000768     | < 0.0005  | < 0.0005  | 0.00245   | < 0.0005  | 0.0014     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     |        |
|                                   | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00323    | N/A       | N/A       | < 0.0005  | 0.000506  | N/A          |        |
|                                   | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00297    | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|                                   | 5/22/2024                         | < 0.0005   | < 0.0005  | N/A         | 0.0112       | 0.00784   | 0.0367    | 0.00535   | < 0.0005  | 0.00338    | 0.00147   | < 0.0005  | < 0.0005  | < 0.0005  | 0.00071      |        |
|                                   | 5/22/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.0005  | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|                                   | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00281    | N/A       | N/A       | < 0.0005  | < 0.0005  | N/A          |        |
|                                   | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00215    | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|                                   | 11/6/2024                         | N/A        | N/A       | N/A         | 0.0124       | N/A       | N/A       | 0.00441   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|                                   | Copper, mg/L (CAS NO - 7440-50-8) | 3/17/2009  | < 0.02    | N/A         | < 0.02       | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.02    | N/A          | < 0.02 |
|                                   |                                   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.02    | 0.0223    | < 0.02    | N/A       | N/A          | N/A    |
|                                   |                                   | 10/27/2009 | N/A       | < 0.02      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A    |
| 10/28/2009                        |                                   | N/A        | N/A       | < 0.02      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.02    | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010                         |                                   | N/A        | N/A       | < 0.02      | N/A          | N/A       | N/A       | N/A       | < 0.02    | N/A        | < 0.02    | N/A       | N/A       | N/A       | N/A          |        |
| 7/28/2010                         |                                   | N/A        | < 0.02    | < 0.02      | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.02     | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011                         |                                   | N/A        | N/A       | N/A         | N/A          | 0.0219    | < 0.02    | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011                         |                                   | N/A        | < 0.02    | N/A         | N/A          | < 0.02    | N/A       | 0.0247    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 7/20/2011                         |                                   | < 0.02     | < 0.02    | N/A         | N/A          | 0.0443    | N/A       | 0.209     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 10/26/2011                        |                                   | 0.0345     | < 0.02    | 0.0239      | N/A          | < 0.02    | N/A       | N/A       | N/A       | N/A        | 0.0224    | N/A       | N/A       | N/A       | N/A          |        |
| 1/11/2012                         |                                   | < 0.02     | < 0.02    | N/A         | N/A          | 0.0246    | N/A       | N/A       | N/A       | N/A        | < 0.02    | N/A       | N/A       | N/A       | N/A          |        |
| 5/9/2012                          |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | N/A       | < 0.02    | N/A       | N/A        | < 0.02    | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013                         |                                   | < 0.02     | N/A       | N/A         | N/A          | < 0.02    | N/A       | N/A       | N/A       | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |        |
| 5/14/2013                         |                                   | N/A        | < 0.02    | N/A         | N/A          | N/A       | < 0.02    | N/A       | < 0.02    | N/A        | N/A       | N/A       | < 0.02    | N/A       | N/A          |        |
| 7/23/2013                         |                                   | N/A        | N/A       | < 0.02      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 11/19/2013                        |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |        |
| 5/21/2014                         |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |        |
| 6/24/2014                         |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 11/10/2014                        |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |        |
| 5/4/2015                          |                                   | < 0.002    | < 0.002   | < 0.002     | N/A          | 0.00357   | < 0.002   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | N/A       | < 0.002      |        |
| 11/10/2015                        |                                   | < 0.002    | < 0.002   | 0.00257     | < 0.002      | < 0.002   | 0.00211   | < 0.002   | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | < 0.002   | < 0.002      |        |
| 5/5/2016                          |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/7/2016                         |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 5/16/2017                         |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | 0.00563   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/7/2017                         |                                   | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | N/A       | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 5/14/2018                         |                                   | < 0.005    | < 0.005   | < 0.005     | 0.0857       | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/7/2018                         |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 5/15/2019                         |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/19/2019                        |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 5/27/2020                         |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/18/2020                        |                                   | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 5/13/2021                         |                                   | N/A        | < 0.005   | N/A         | N/A          | N/A       | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/23/2021                        |                                   | N/A        | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 5/23/2022                         |                                   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |        |
| 11/15/2022                        | N/A                               | < 0.005    | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   |              |        |
| 5/22/2023                         | < 0.005                           | < 0.005    | N/A       | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   |              |        |
| 11/30/2023                        | N/A                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | < 0.005   | < 0.005   | N/A       |              |        |
| 11/30/2023                        | 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       |              |        |
| 5/22/2024                         | N/A                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | < 0.005   | < 0.005   | N/A       |              |        |
| 9/12/2024                         | N/A                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | < 0.005   | < 0.005   | N/A       |              |        |
| 9/12/2024                         | 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       | N/A       |              |        |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

|  | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |          |
|--|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|----------|
| Total Metals Constituents<br>Lead, mg/L (CAS NO - 7439-92-1) | 3/17/2009   | 0.00754    | N/A       | < 0.004     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.004   | N/A       | < 0.004      |          |
|  | 5/4/2009    | < 0.004    | 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          |          |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.004    | < 0.004   | 0.00528   | N/A       | N/A       | N/A          |          |
|  | 10/27/2009  | N/A        | < 0.004   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 10/28/2009  | < 0.004    | N/A       | < 0.004     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.004   | N/A       | N/A       | N/A          |          |
|  | 4/28/2010   | < 0.004    | N/A       | < 0.004     | N/A          | N/A       | N/A       | N/A       | < 0.004   | N/A        | N/A       | 0.00451   | N/A       | N/A       | N/A          |          |
|  | 7/28/2010   | N/A        | < 0.004   | < 0.004     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.004   | N/A       | N/A       | N/A          |          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 0.004   | < 0.004   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.004   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 10/26/2011  | 0.00802    | N/A       | < 0.004     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.004   | N/A       | N/A       | N/A          |          |
|  | 1/11/2012   | < 0.004    | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.004   | N/A       | N/A       | N/A          |          |
|  | 5/9/2012    | < 0.004    | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.004   | N/A       | N/A       | N/A          |          |
|  | 5/13/2013   | < 0.004    | N/A       | N/A         | N/A          | N/A       | < 0.004   | N/A       | N/A       | N/A        | < 0.004   | < 0.004   | < 0.004   | N/A       | < 0.004      |          |
|  | 5/14/2013   | N/A        | < 0.004   | N/A         | N/A          | N/A       | < 0.004   | N/A       | < 0.004   | N/A        | N/A       | N/A       | < 0.004   | N/A       | N/A          |          |
|  | 7/23/2013   | N/A        | N/A       | < 0.004     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 11/19/2013  | < 0.004    | < 0.004   | N/A         | N/A          | < 0.004   | < 0.004   | N/A       | < 0.004   | < 0.004    | < 0.004   | < 0.004   | < 0.004   | < 0.004   | N/A          | < 0.004  |
|  | 5/21/2014   | < 0.004    | < 0.004   | N/A         | N/A          | < 0.004   | < 0.004   | N/A       | < 0.004   | < 0.004    | < 0.004   | < 0.004   | < 0.004   | < 0.004   | N/A          | < 0.004  |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.004   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A      |
|  | 11/10/2014  | < 0.004    | < 0.004   | N/A         | N/A          | < 0.004   | < 0.004   | N/A       | < 0.004   | < 0.004    | < 0.004   | < 0.004   | < 0.004   | < 0.004   | N/A          | < 0.004  |
|  | 5/4/2015    | < 0.0005   | < 0.0005  | < 0.0005    | N/A          | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | 0.000519  | < 0.0005  | < 0.0005  | < 0.0005  | N/A          | < 0.0005 |
|  | 11/10/2015  | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | 0.000523  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | 0.00057   | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/5/2016    | < 0.0005   | < 0.0005  | < 0.0005    | 0.00174      | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/7/2016   | 0.000934   | 0.000502  | 0.00063     | < 0.0005     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/16/2017   | < 0.0005   | < 0.0005  | < 0.0005    | 0.000674     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | 0.000596  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/7/2017   | < 0.0005   | < 0.0005  | N/A         | < 0.0005     | < 0.0005  | < 0.0005  | N/A       | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/14/2018   | < 0.0005   | < 0.0005  | < 0.0005    | 0.0338       | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/7/2018   | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/15/2019   | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | 0.000763  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/19/2019  | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | 0.000947  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/27/2020   | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/18/2020  | N/A        | < 0.0005  | N/A         | N/A          | N/A       | N/A       | N/A       | 0.000638  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/13/2021   | N/A        | < 0.0005  | N/A         | N/A          | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | 0.000792  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/23/2021  | N/A        | < 0.0005  | N/A         | < 0.0005     | < 0.0005  | < 0.0005  | 0.000502  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | 0.00194   | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/23/2022   | < 0.0005   | < 0.0005  | < 0.0005    | < 0.0005     | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 11/15/2022  | N/A        | < 0.0005  | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.0005  | < 0.0005   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/22/2023   | 0.000618   | < 0.0005  | N/A         | < 0.0005     | < 0.0005  | 0.0007    | < 0.0005  | < 0.0005  | 0.00136    | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005  | 0.000847     | < 0.0005 |
|  | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.0005  | N/A       | N/A       | < 0.0005  | 0.000622     | N/A      |
|  | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.0005  | N/A       | N/A       | N/A       | N/A          | N/A      |
|  | 5/22/2024   | < 0.0005   | < 0.0005  | N/A         | 0.0081       | 0.00104   | 0.000756  | 0.00053   | < 0.0005  | < 0.0005   | 0.00144   | < 0.0005  | < 0.0005  | < 0.0005  | < 0.0005     | < 0.0005 |
|  | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.0005  | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A      |
| 9/12/2024  | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.0005   | N/A       | N/A       | < 0.0005  | < 0.0005  | N/A          |          |
| 9/12/2024  | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.0005   | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 11/6/2024  | N/A         | N/A        | N/A       | 0.0134      | N/A          | N/A       | N/A       | < 0.0005  | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| Mercury, mg/L (CAS NO - 7439-97-6)                           | 3/17/2009   | < 0.0002   | N/A       | < 0.0002    | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.0002  | N/A       | < 0.0002     |          |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.0002   | < 0.0002  | < 0.0002  | N/A       | N/A       | N/A          |          |
|  | 10/27/2009  | N/A        | < 0.0002  | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.0002  | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 7/28/2010   | N/A        | < 0.0002  | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 0.0002  | < 0.0002  | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.0002  | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 5/13/2013   | < 0.0002   | N/A       | N/A         | N/A          | < 0.0002  | N/A       | N/A       | N/A       | < 0.0002   | < 0.0002  | < 0.0002  | N/A       | N/A       | < 0.0002     |          |
|  | 5/14/2013   | N/A        | < 0.0002  | N/A         | N/A          | N/A       | < 0.0002  | N/A       | < 0.0002  | N/A        | N/A       | N/A       | < 0.0002  | N/A       | N/A          |          |
|  | 7/23/2013   | N/A        | N/A       | < 0.0002    | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.0002  | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.0002  | < 0.0002  | < 0.0002   | < 0.0002  | < 0.0002  | < 0.0002  | N/A       | < 0.0002     |          |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.0002  | < 0.0002  | < 0.0002   | < 0.0002  | < 0.0002  | N/A       | N/A       | < 0.0002     |          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents         | Sample Date                         | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|-----------------------------------|-------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| Nickel, mg/L (CAS NO - 7440-02-0) | 3/17/2009                           | < 0.05     | N/A       | < 0.05      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.05    | N/A       | < 0.05       |         |
|                                   | 7/10/2009                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.05     | < 0.05    | < 0.05    | N/A       | N/A       | N/A          |         |
|                                   | 10/27/2009                          | N/A        | < 0.05    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 4/28/2010                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.05    | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 1/13/2011                           | 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          |         |
|                                   | 4/28/2011                           | N/A        | 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          |         |
|                                   | 5/13/2013                           | < 0.05     | N/A       | N/A         | N/A          | < 0.05    | N/A       | N/A       | N/A       | 0.0644     | < 0.05    | < 0.05    | N/A       | N/A       | < 0.05       |         |
|                                   | 5/14/2013                           | N/A        | < 0.05    | N/A         | N/A          | N/A       | < 0.05    | N/A       | < 0.05    | N/A        | N/A       | N/A       | < 0.05    | N/A       | N/A          |         |
|                                   | 7/23/2013                           | 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       | N/A          |         |
|                                   | 11/19/2013                          | < 0.05     | < 0.05    | N/A         | N/A          | < 0.05    | < 0.05    | N/A       | < 0.05    | < 0.05     | < 0.05    | < 0.05    | < 0.05    | < 0.05    | N/A          |         |
|                                   | 5/21/2014                           | < 0.05     | < 0.05    | N/A         | N/A          | < 0.05    | < 0.05    | N/A       | < 0.05    | < 0.05     | < 0.05    | < 0.05    | < 0.05    | < 0.05    | N/A          |         |
|                                   | 6/24/2014                           | N/A        | 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          |         |
|                                   | 11/10/2014                          | < 0.05     | < 0.05    | N/A         | N/A          | < 0.05    | < 0.05    | N/A       | < 0.05    | < 0.05     | < 0.05    | < 0.05    | < 0.05    | < 0.05    | N/A          |         |
|                                   | 5/4/2015                            | < 0.005    | < 0.005   | < 0.005     | N/A          | 0.00688   | < 0.005   | 0.0154    | < 0.005   | 0.0186     | 0.0159    | < 0.005   | < 0.005   | N/A       | 0.0065       |         |
|                                   | 11/10/2015                          | 0.0073     | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | 0.0297    | < 0.005   | 0.0115     | 0.0199    | < 0.005   | < 0.005   | < 0.005   | 0.00626      |         |
|                                   | 5/5/2016                            | < 0.005    | < 0.005   | < 0.005     | < 0.005      | 0.00536   | < 0.005   | 0.0104    | < 0.005   | 0.0177     | 0.0281    | < 0.005   | < 0.005   | < 0.005   | 0.00519      |         |
|                                   | 11/7/2016                           | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | 0.00948   | < 0.005   | 0.0197     | 0.0249    | < 0.005   | 0.00529   | < 0.005   | < 0.005      |         |
|                                   | 5/16/2017                           | < 0.005    | < 0.005   | < 0.005     | < 0.005      | 0.00506   | < 0.005   | 0.0113    | < 0.005   | 0.0147     | 0.0324    | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/7/2017                           | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | N/A       | < 0.005   | 0.0125     | 0.0229    | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 5/14/2018                           | < 0.005    | < 0.005   | < 0.005     | 0.1          | < 0.005   | < 0.005   | 0.0147    | < 0.005   | 0.0239     | 0.00977   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/7/2018                           | < 0.005    | < 0.005   | < 0.005     | < 0.005      | 0.00595   | < 0.005   | 0.019     | < 0.005   | 0.0134     | 0.0157    | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 5/15/2019                           | < 0.005    | < 0.005   | < 0.005     | < 0.005      | 0.00624   | < 0.005   | 0.0198    | < 0.005   | 0.0184     | 0.00724   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/19/2019                          | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | 0.0207    | < 0.005   | 0.0186     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 5/27/2020                           | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | 0.0164    | < 0.005   | 0.0177     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/18/2020                          | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | 0.0264    | < 0.005   | 0.0156     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 5/13/2021                           | N/A        | < 0.005   | N/A         | N/A          | < 0.005   | < 0.005   | 0.0198    | < 0.005   | 0.0122     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/23/2021                          | N/A        | < 0.005   | N/A         | 0.0126       | < 0.005   | < 0.005   | 0.0245    | < 0.005   | 0.0142     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | 0.0052       |         |
|                                   | 1/31/2022                           | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0147     | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 5/23/2022                           | < 0.005    | < 0.005   | < 0.005     | 0.0109       | < 0.005   | < 0.005   | 0.0204    | < 0.005   | 0.0248     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/15/2022                          | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | 0.0216    | < 0.005   | 0.0167     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | 0.00506      |         |
|                                   | 5/22/2023                           | < 0.005    | < 0.005   | N/A         | 0.011        | < 0.005   | < 0.005   | 0.0227    | < 0.005   | 0.0161     | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 11/30/2023                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0141     | N/A       | N/A       | < 0.005   | < 0.005   | N/A          |         |
|                                   | 11/30/2023                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0141     | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | 5/22/2024                           | < 0.005    | 0.00534   | N/A         | 0.144        | 0.273     | 0.0151    | 0.0424    | < 0.005   | 0.0148     | 0.0108    | < 0.005   | < 0.005   | < 0.005   | < 0.005      |         |
|                                   | 5/22/2024                           | N/A        | 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          |         |
|                                   | 9/12/2024                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00696    | N/A       | N/A       | < 0.005   | < 0.005   | N/A          |         |
|                                   | 9/12/2024                           | N/A        | 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          |         |
|                                   | 11/6/2024                           | N/A        | N/A       | N/A         | 0.249        | N/A       | N/A       | 0.0311    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|                                   | Selenium, mg/L (CAS NO - 7782-49-2) | 3/17/2009  | < 0.005   | N/A         | < 0.005      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.005   | N/A          | < 0.005 |
|                                   |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | < 0.005   | < 0.005   | N/A       | N/A          |         |
| 10/27/2009                        |                                     | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 4/28/2010                         |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 0.00611   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 7/28/2010                         |                                     | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 10/28/2010                        |                                     | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 1/13/2011                         |                                     | N/A        | < 0.005   | N/A         | N/A          | < 0.005   | < 0.005   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 4/28/2011                         |                                     | 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       |              |         |
| 10/26/2011                        |                                     | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 1/11/2012                         |                                     | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 5/9/2012                          |                                     | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | N/A        | N/A       | N/A       | N/A       | N/A       |              |         |
| 5/13/2013                         |                                     | < 0.005    | N/A       | N/A         | N/A          | < 0.005   | N/A       | N/A       | N/A       | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       |              |         |
| 5/14/2013                         |                                     | N/A        | 0.00568   | N/A         | N/A          | N/A       | 0.00805   | N/A       | 0.00531   | N/A        | N/A       | N/A       | 0.00591   | N/A       |              |         |
| 7/23/2013                         |                                     | 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       |              |         |
| 11/19/2013                        |                                     | < 0.005    | < 0.005   | N/A         | N/A          | < 0.005   | < 0.005   | N/A       | 0.011     | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       |              |         |
| 5/21/2014                         |                                     | < 0.005    | 0.00523   | N/A         | N/A          | < 0.005   | < 0.005   | N/A       | 0.005     | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       |              |         |
| 6/24/2014                         |                                     | 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       |              |         |
| 11/10/2014                        |                                     | < 0.005    | < 0.005   | N/A         | N/A          | < 0.005   | < 0.005   | N/A       | 0.0136    | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       |              |         |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents           | Sample Date                       | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|-------------------------------------|-----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Selenium, mg/L (CAS NO - 7782-49-2) | 2/11/2015                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 0.00731   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 5/4/2015                          | < 0.005    | < 0.005   | < 0.005     | N/A          | < 0.005   | 0.00738   | < 0.005   | 0.00515   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       | < 0.005      |
|                                     | 6/29/2015                         | N/A        | N/A       | N/A         | N/A          | N/A       | 0.00703   | N/A       | 0.00947   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 11/10/2015                        | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | 0.0074    | < 0.005    | < 0.005   | 0.00571   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 1/5/2016                          | 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          |
|                                     | 5/5/2016                          | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | 0.00932   | < 0.005    | < 0.005   | 0.00614   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 6/29/2016                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | 0.00689   | N/A       | N/A       | N/A          |
|                                     | 11/7/2016                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/16/2017                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | 0.00551   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/7/2017                         | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | N/A       | < 0.005    | < 0.005   | 0.00506   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/14/2018                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | 0.00522   | < 0.005    | 0.00526   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/7/2018                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/15/2019                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/19/2019                        | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | 0.00552   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/27/2020                         | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | 0.00794   | < 0.005   | 0.0072     | < 0.005   | 0.00536   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 7/22/2020                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 0.00672   | N/A       | < 0.005    | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 11/18/2020                        | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/13/2021                         | N/A        | 0.00904   | N/A         | N/A          | N/A       | < 0.005   | 0.00533   | < 0.005   | 0.00724    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 11/23/2021                        | N/A        | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | 0.00662   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/23/2022                         | < 0.005    | 0.00526   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | 0.00565   | < 0.005   | 0.0108     | < 0.005   | < 0.005   | 0.00507   | < 0.005   | < 0.005      |
|                                     | 8/3/2022                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0142     | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 11/15/2022                        | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.005   | 0.00682    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|                                     | 5/22/2023                         | < 0.005    | 0.00629   | N/A         | < 0.005      | < 0.005   | 0.00951   | < 0.005   | 0.00799   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | 0.00636   | < 0.005      |
|                                     | 8/10/2023                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 0.00556   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | < 0.005      |
|                                     | 11/30/2023                        | 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          |
|                                     | 5/22/2024                         | < 0.005    | 0.00592   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | 0.00688    | < 0.005   | < 0.005   | < 0.005   | 0.00832   | < 0.005      |
|                                     | 5/22/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.00701    | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | < 0.005      |
|                                     | 9/12/2024                         | 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          |
|                                     | 11/6/2024                         | N/A        | N/A       | N/A         | N/A          | 0.0224    | N/A       | N/A       | < 0.005   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                     | Silver, mg/L (CAS NO - 7440-22-4) | 3/17/2009  | < 0.02    | N/A         | < 0.02       | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.02    | N/A          |
| 7/10/2009                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.02     | < 0.02    | < 0.02    | N/A       | N/A       |              |
| 10/27/2009                          |                                   | N/A        | < 0.02    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 4/28/2010                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.02    | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 1/13/2011                           |                                   | N/A        | N/A       | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 4/28/2011                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 5/13/2013                           |                                   | < 0.02     | N/A       | N/A         | N/A          | < 0.02    | N/A       | N/A       | N/A       | < 0.02     | < 0.02    | < 0.02    | N/A       | N/A       |              |
| 5/14/2013                           |                                   | N/A        | < 0.02    | N/A         | N/A          | N/A       | < 0.02    | N/A       | < 0.02    | N/A        | N/A       | N/A       | < 0.02    | N/A       |              |
| 7/23/2013                           |                                   | N/A        | N/A       | < 0.02      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 11/19/2013                          |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       |              |
| 5/21/2014                           |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       |              |
| 6/24/2014                           |                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 11/10/2014                          |                                   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       |              |
| 5/4/2015                            |                                   | < 0.001    | < 0.001   | < 0.001     | N/A          | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       |              |
| 11/10/2015                          |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 5/5/2016                            |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 11/7/2016                           |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 5/16/2017                           |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 11/7/2017                           |                                   | < 0.001    | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 5/14/2018                           |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 11/7/2018                           |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 5/15/2019                           |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 11/19/2019                          |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 5/27/2020                           |                                   | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   |              |
| 11/18/2020                          |                                   | N/A        | < 0.001   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

|  | Sample Date                         | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|--|-------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| Total Metals Constituents<br>Silver, mg/L (CAS NO - 7440-22-4) | 5/13/2021                           | N/A        | < 0.001   | N/A         | N/A          | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|  | 11/23/2021                          | N/A        | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|  | 5/23/2022                           | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | 0.00134    | < 0.001   | < 0.001   | < 0.001   | 0.00134   | < 0.001      |         |
|  | 8/3/2022                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | N/A       | N/A       | N/A       | < 0.001   | N/A          |         |
|  | 11/15/2022                          | N/A        | < 0.001   | N/A         | N/A          | N/A       | N/A       | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|  | 5/22/2023                           | < 0.001    | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
|  | 11/30/2023                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | N/A       | N/A       | < 0.001   | < 0.001   | N/A          |         |
|  | 11/30/2023                          | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/22/2024                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | N/A       | N/A       | < 0.001   | < 0.001   | N/A          |         |
|  | 9/12/2024                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | N/A       | N/A       | < 0.001   | < 0.001   | N/A          |         |
|  | 9/12/2024                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.001    | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | Thallium, mg/L (CAS NO - 7440-28-0) | 3/17/2009  | < 0.002   | N/A         | < 0.002      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.002   | N/A          | < 0.002 |
|  |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | < 0.002   | < 0.002   | N/A       | N/A          | N/A     |
|  |                                     | 10/27/2009 | N/A       | < 0.002     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A     |
|  |                                     | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.002   | N/A       | N/A       | N/A       | N/A          | N/A     |
| 1/13/2011  |                                     | N/A        | N/A       | N/A         | N/A          | < 0.002   | < 0.002   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011  |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.002   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013  |                                     | < 0.002    | N/A       | N/A         | N/A          | < 0.002   | N/A       | N/A       | N/A       | < 0.002    | < 0.002   | < 0.002   | N/A       | N/A       | < 0.002      |         |
| 5/14/2013  |                                     | N/A        | < 0.002   | N/A         | N/A          | N/A       | < 0.002   | N/A       | < 0.002   | N/A        | N/A       | N/A       | < 0.002   | N/A       | N/A          |         |
| 7/23/2013  |                                     | N/A        | N/A       | < 0.002     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 11/19/2013   |                                     | < 0.002    | < 0.002   | N/A         | N/A          | < 0.002   | < 0.002   | N/A       | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | N/A       | < 0.002      |         |
| 5/21/2014  |                                     | < 0.002    | < 0.002   | N/A         | N/A          | < 0.002   | < 0.002   | N/A       | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | N/A       | < 0.002      |         |
| 6/24/2014  |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.002   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 11/10/2014   |                                     | < 0.002    | < 0.002   | N/A         | N/A          | < 0.002   | < 0.002   | N/A       | < 0.002   | < 0.002    | < 0.002   | < 0.002   | < 0.002   | N/A       | < 0.002      |         |
| 5/4/2015   |                                     | < 0.001    | < 0.001   | < 0.001     | N/A          | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | N/A       | < 0.001      |         |
| 11/10/2015   |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/5/2016   |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/7/2016  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/16/2017  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/7/2017  |                                     | < 0.001    | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/14/2018  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/7/2018  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/15/2019  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/19/2019   |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/27/2020  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/18/2020   |                                     | N/A        | < 0.001   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.001   | < 0.001    | 0.00196   | < 0.001   | < 0.001   | < 0.001   | < 0.001      | < 0.001 |
| 2/2/2021   |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | N/A       | N/A          | N/A     |
| 2/2/2021   |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | N/A       | N/A          | N/A     |
| 5/13/2021  |                                     | N/A        | < 0.001   | N/A         | N/A          | N/A       | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/23/2021   |                                     | N/A        | < 0.001   | N/A         | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/23/2022  |                                     | < 0.001    | < 0.001   | < 0.001     | < 0.001      | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 11/15/2022   |                                     | N/A        | < 0.001   | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.001   | < 0.001    | < 0.001   | < 0.001   | < 0.001   | < 0.001   | < 0.001      |         |
| 5/22/2023  |                                     | < 0.001    | < 0.001   | N/A         | < 0.001      | < 0.001   | 0.00456   | < 0.001   | < 0.001   | < 0.001    | 0.00284   | < 0.001   | < 0.001   | < 0.001   | 0.00437      | < 0.001 |
| 8/10/2023  |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.001   | N/A       | N/A        | < 0.001   | N/A       | N/A       | N/A       | < 0.001      | N/A     |
| 11/30/2023   |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | < 0.001   | < 0.001      | N/A     |
| 11/30/2023   |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | N/A       | N/A          | N/A     |
| 5/22/2024  |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | < 0.001   | < 0.001      | N/A     |
| 9/12/2024  |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | < 0.001   | < 0.001      | N/A     |
| 9/12/2024  |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.001   | N/A       | N/A       | N/A       | N/A          | N/A     |
| Tin, mg/L (CAS NO - 7440-31-5)                                 |                                     | 3/17/2009  | < 0.1     | N/A         | < 0.1        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.1     | N/A          | < 0.1   |
|  |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.1     | < 0.1     | < 0.1     | N/A       | N/A          | N/A     |
|  | 10/27/2009                          | N/A        | < 0.1     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010                           | N/A        | 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          |         |
|  | 1/13/2011                           | 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          |         |
|  | 4/28/2011                           | N/A        | 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          |         |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

|   | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Total Metals Constituents<br>Tin, mg/L (CAS NO - 7440-31-5) | 5/13/2013   | < 0.1      | N/A       | N/A         | N/A          | < 0.1     | N/A       | N/A       | N/A       | < 0.1      | < 0.1     | < 0.1     | N/A       | N/A       | < 0.1        |
|   | 5/14/2013   | N/A        | < 0.1     | N/A         | N/A          | N/A       | < 0.1     | N/A       | < 0.1     | N/A        | N/A       | N/A       | < 0.1     | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 6/24/2014   | 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          |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | N/A       | N/A       | < 0.005      |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | N/A       | N/A       | < 0.005      |
| Vanadium, mg/L (CAS NO - 7440-62-2)                         | 3/17/2009   | < 0.05     | N/A       | < 0.05      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.05    | N/A       | < 0.05       |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.05     | < 0.05    | < 0.05    | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | < 0.05    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.05    | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | 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          |
|   | 4/28/2011   | N/A        | 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          |
|   | 5/13/2013   | < 0.05     | N/A       | N/A         | N/A          | < 0.05    | N/A       | N/A       | N/A       | < 0.05     | < 0.05    | < 0.05    | N/A       | N/A       | < 0.05       |
|   | 5/14/2013   | N/A        | < 0.05    | N/A         | N/A          | N/A       | < 0.05    | N/A       | < 0.05    | N/A        | N/A       | N/A       | < 0.05    | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | < 0.05     | < 0.05    | N/A         | N/A          | < 0.05    | < 0.05    | N/A       | < 0.05    | < 0.05     | < 0.05    | < 0.05    | < 0.05    | N/A       | < 0.05       |
|   | 5/21/2014   | < 0.05     | < 0.05    | N/A         | N/A          | < 0.05    | < 0.05    | N/A       | < 0.05    | < 0.05     | < 0.05    | < 0.05    | < 0.05    | N/A       | < 0.05       |
|   | 6/24/2014   | N/A        | 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          |
|   | 11/10/2014  | < 0.05     | < 0.05    | N/A         | N/A          | < 0.05    | < 0.05    | N/A       | < 0.05    | < 0.05     | < 0.05    | < 0.05    | < 0.05    | N/A       | < 0.05       |
|   | 5/4/2015    | < 0.005    | < 0.005   | < 0.005     | N/A          | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | N/A       | < 0.005      |
|   | 11/10/2015  | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 5/5/2016    | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 11/7/2016   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 5/16/2017   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 11/7/2017   | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | N/A       | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 5/14/2018   | < 0.005    | < 0.005   | < 0.005     | 0.124        | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 11/7/2018   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | 0.00589   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 2/5/2019    | N/A        | 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          |
|   | 5/15/2019   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 11/19/2019  | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | 0.00503   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 1/30/2020   | N/A        | 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          |
|   | 5/27/2020   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | 0.00636   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 7/22/2020   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 0.00564   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/18/2020  | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 5/13/2021   | N/A        | < 0.005   | N/A         | N/A          | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 11/23/2021  | N/A        | < 0.005   | N/A         | < 0.005      | < 0.005   | 0.00505   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 1/31/2022   | 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          |
|   | 5/23/2022   | < 0.005    | < 0.005   | < 0.005     | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 11/15/2022  | N/A        | < 0.005   | N/A         | N/A          | N/A       | N/A       | < 0.005   | < 0.005   | < 0.005    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 5/22/2023   | < 0.005    | < 0.005   | N/A         | < 0.005      | < 0.005   | < 0.005   | < 0.005   | < 0.005   | 0.00512    | < 0.005   | < 0.005   | < 0.005   | < 0.005   | < 0.005      |
|   | 8/10/2023   | N/A        | 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          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | < 0.005      |
|   | 11/30/2023  | 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          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | < 0.005      |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.005   | N/A       | N/A       | < 0.005   | < 0.005      |
|   | 9/12/2024   | 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          |
| Zinc, mg/L (CAS NO - 7440-66-6)                             | 3/17/2009   | 0.075      | N/A       | 0.0535      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | 0.0605    | N/A       | 0.0516       |
|   | 5/4/2009    | < 0.02     | N/A       | 0.0354      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | 0.0719    | N/A       | 0.0482       |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0915     | 0.239     | 0.098     | N/A       | N/A       |              |
|   | 10/27/2009  | N/A        | 0.0733    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 10/28/2009  | 0.0293     | N/A       | 0.0671      | N/A          | N/A       | N/A       | N/A       | N/A       | 0.411      | 0.119     | 0.031     | 0.0729    | N/A       | 0.0489       |
|   | 4/28/2010   | < 0.02     | 0.0514    | < 0.02      | N/A          | N/A       | N/A       | N/A       | < 0.02    | 0.0314     | 0.0533    | 0.0297    | < 0.02    | N/A       | 0.0309       |
|   | 7/28/2010   | N/A        | < 0.02    | 0.0348      | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0427     | 0.0586    | 0.0266    | N/A       | N/A       | N/A          |
|   | 7/28/2010   | N/A        | 0.0555    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 10/28/2010  | N/A        | 0.032     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | 0.121     | 0.032     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |



# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

|  | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| <b>Total Metals Constituents</b>                   |             |            |           |             |              |           |           |           |           |            |           |           |           |           |              |
| Zinc, mg/L (CAS NO - 7440-66-6)                    | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | < 0.02    | 0.0363    | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 7/20/2011   | N/A        | N/A       | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 10/26/2011  | 0.0836     | < 0.02    | 0.0215      | N/A          | < 0.02    | < 0.02    | N/A       | N/A       | 0.0381     | 0.0296    | 0.0502    | < 0.02    | N/A       | < 0.02       |
|  | 1/11/2012   | < 0.02     | < 0.02    | N/A         | N/A          | 0.0244    | < 0.02    | N/A       | N/A       | 0.0235     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |
|  | 5/9/2012    | < 0.02     | 0.0234    | N/A         | N/A          | < 0.02    | 0.0584    | N/A       | N/A       | 0.0558     | 0.0281    | < 0.02    | < 0.02    | N/A       | 0.0219       |
|  | 5/13/2013   | 0.0345     | N/A       | N/A         | N/A          | 0.0637    | N/A       | N/A       | N/A       | 0.0934     | 0.0734    | 0.0264    | N/A       | N/A       | 0.0685       |
|  | 5/14/2013   | N/A        | 0.0369    | N/A         | N/A          | N/A       | 0.0369    | N/A       | < 0.02    | N/A        | N/A       | N/A       | 0.0572    | N/A       | N/A          |
|  | 7/23/2013   | N/A        | N/A       | 0.0495      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/19/2013  | 0.184      | 0.076     | N/A         | N/A          | 0.18      | 0.0916    | N/A       | 0.123     | 0.138      | 0.132     | 0.127     | 0.131     | N/A       | 0.151        |
|  | 5/21/2014   | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.04    | < 0.02    | < 0.02    | N/A       | < 0.04       |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.06    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/10/2014  | < 0.02     | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | N/A       | < 0.02       |
|  | 5/4/2015    | < 0.01     | < 0.01    | < 0.01      | N/A          | < 0.01    | < 0.01    | < 0.01    | < 0.01    | 0.0373     | 0.0109    | < 0.01    | < 0.01    | N/A       | < 0.01       |
|  | 11/10/2015  | < 0.01     | < 0.01    | < 0.01      | < 0.01       | < 0.01    | < 0.01    | < 0.01    | < 0.01    | < 0.01     | 0.0146    | < 0.01    | < 0.01    | < 0.01    | < 0.01       |
|  | 5/5/2016    | < 0.01     | < 0.01    | < 0.01      | < 0.01       | < 0.01    | < 0.01    | < 0.01    | < 0.01    | < 0.01     | < 0.01    | < 0.01    | 0.083     | < 0.01    | < 0.01       |
|  | 11/7/2016   | < 0.01     | < 0.01    | < 0.01      | < 0.01       | 0.0111    | < 0.01    | < 0.01    | < 0.01    | < 0.01     | 0.0102    | < 0.01    | < 0.01    | < 0.01    | < 0.01       |
|  | 5/16/2017   | < 0.02     | < 0.02    | < 0.02      | < 0.02       | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | 0.0893    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 7/19/2017   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 0.02    | N/A       | N/A       | N/A          |
|  | 11/7/2017   | < 0.02     | < 0.02    | N/A         | < 0.02       | < 0.02    | < 0.02    | N/A       | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/14/2018   | < 0.02     | < 0.02    | < 0.02      | 0.28         | < 0.02    | < 0.02    | < 0.02    | 0.0224    | 0.0333     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 11/7/2018   | < 0.02     | < 0.02    | < 0.02      | < 0.02       | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/15/2019   | < 0.02     | < 0.02    | < 0.02      | < 0.02       | < 0.02    | < 0.02    | 0.0265    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | 0.0443    | < 0.02       |
|  | 11/19/2019  | < 0.02     | < 0.02    | < 0.02      | < 0.02       | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/27/2020   | < 0.02     | < 0.02    | < 0.02      | < 0.02       | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 11/18/2020  | N/A        | < 0.02    | N/A         | N/A          | N/A       | N/A       | 0.0299    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/13/2021   | N/A        | < 0.02    | N/A         | N/A          | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 11/23/2021  | N/A        | < 0.02    | N/A         | < 0.02       | < 0.02    | < 0.02    | 0.0318    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/23/2022   | < 0.02     | < 0.02    | < 0.02      | < 0.02       | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 11/15/2022  | N/A        | < 0.02    | N/A         | N/A          | N/A       | N/A       | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/22/2023   | < 0.02     | < 0.02    | N/A         | < 0.02       | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.0228     | N/A       | N/A       | < 0.02    | < 0.02    | N/A          |
|  | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.02     | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/22/2024   | < 0.02     | < 0.02    | N/A         | 0.0584       | < 0.02    | < 0.02    | 0.0364    | < 0.02    | < 0.02     | < 0.02    | < 0.02    | < 0.02    | < 0.02    | < 0.02       |
|  | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.02    | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.02     | N/A       | N/A       | < 0.02    | < 0.02    | N/A          |
|  | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.02     | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/6/2024   | N/A        | N/A       | N/A         | 0.0337       | N/A       | N/A       | < 0.02    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| <b>Total Suspended Solids, mg/L (CAS NO - TSS)</b> | 11/10/2014  | 190        | 24        | N/A         | N/A          | 71        | 142       | N/A       | 24.8      | 5          | 292       | 199       | 5.1       | N/A       | 10.9         |
|  | 2/11/2015   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 90        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/4/2015    | 101        | 11        | 21.1        | N/A          | 101       | 66.6      | 44        | 10.6      | 12.4       | 124       | 297       | 45.3      | N/A       | 15.5         |
|  | 6/29/2015   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 146       | 67        | 50.3       | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/10/2015  | 114        | 132       | 2690        | 157          | 157       | 74.9      | 208       | 20.1      | 6.1        | 75.3      | 834       | 67.1      | 321       | 8.4          |
|  | 1/5/2016    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | 70.8      | N/A       | N/A       | N/A          |
|  | 5/5/2016    | 159        | 2.8       | 19.8        | 122          | 16.1      | 45.6      | 15        | 2.9       | 10.6       | 30.8      | 11.9      | 3.1       | 33        | 6.5          |
|  | 6/29/2016   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 83.9      | 47        | N/A       | N/A       | N/A          |
|  | 11/7/2016   | 174        | 4         | 58.7        | 168          | 22.5      | 32.6      | 31        | 4.6       | 6.4        | 121       | 215       | 10.9      | 44.7      | 5.4          |
|  | 5/16/2017   | 135        | < 1.9     | 35          | 836          | 42        | 54.4      | 25        | 2.1       | 4.4        | 127       | 319       | 6.5       | 47.5      | 10.4         |
|  | 7/19/2017   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 58.5      | N/A       | N/A       | N/A       | N/A          |
|  | 11/7/2017   | 91.3       | 26.5      | N/A         | 329          | 123       | 11        | N/A       | 12.4      | 4.9        | 50.7      | 476       | 8.7       | 24.5      | 4.2          |
|  | 5/14/2018   | 24.1       | 2.6       | 13          | 13400        | 9.1       | 22        | 32        | < 1.9     | 4.4        | 44.7      | 7         | 4.8       | 25.6      | 5.3          |
|  | 7/17/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 135       | N/A       | N/A       | N/A       | N/A          |
|  | 11/7/2018   | 35.8       | 3.6       | 17.1        | 920          | 55.4      | 55        | 12.7      | 2.6       | 1.9        | 143       | 275       | 15.8      | 7.5       | 5.9          |
|  | 2/5/2019    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 38        | 5         | N/A        | 154       | N/A       | N/A       | N/A       | N/A          |
|  | 5/15/2019   | 14.4       | < 1.9     | 21.1        | 836          | 27.9      | 150       | 38        | < 1.9     | 7.2        | 116       | 47.6      | 5.3       | 4.9       | 9.8          |
|  | 7/16/2019   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 17.7      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/19/2019  | 93.5       | < 1.9     | 106         | 420          | 115       | 99.3      | 12.3      | 3.4       | 2.6        | 44.1      | 262       | 48        | 29        | 7.6          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Total Metals Constituents                   | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Total Suspended Solids, mg/L (CAS NO - TSS) | 1/30/2020   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 1.9     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/27/2020   | 6.1        | < 1.9     | 6.9         | 45.5         | 5.7       | 23.9      | 21.3      | < 1.9     | 2.1        | 19.8      | 6.9       | 3.8       | 2.1       | 13.1         |      |
|   | 7/22/2020   | N/A        | N/A       | N/A         | N/A          | N/A       | 23.4      | N/A       | < 1.9     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 11/18/2020  | N/A        | 29.5      | N/A         | N/A          | N/A       | N/A       | 68        | 6.5       | 8.6        | 13.3      | 28.8      | 100       | 65.4      | 28.4         |      |
|   | 2/2/2021    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1.9      | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 2/2/2021    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1.9      | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2021   | N/A        | 18.8      | N/A         | N/A          | 216       | 30.9      | 77        | 7.5       | 3.3        | 40.2      | 51.6      | 39.6      | 44.4      | 39.6         |      |
|   | 11/23/2021  | N/A        | 253       | N/A         | 38           | 120       | 106       | 70        | 12.5      | 5.3        | 19.4      | 1750      | 40        | 23.4      | 3.8          |      |
|   | 1/31/2022   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 19.7      | N/A       | N/A        | 5.7       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/23/2022   | 52.1       | 10.3      | 50.3        | 35.3         | 118       | 141       | 34.5      | 4         | 12.1       | 150       | 714       | 25.4      | 20.9      | 5.5          |      |
|   | 8/3/2022    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 13.5      | 6.4        | 59.8      | N/A       | N/A       | 8.3       | N/A          |      |
|   | 11/15/2022  | N/A        | 14.3      | N/A         | N/A          | N/A       | N/A       | N/A       | 67        | 23.1       | 2         | 48.3      | 7.9       | 232       | 82.8         | 15.3 |
|   | 5/22/2023   | 69.3       | 18.6      | N/A         | 80.3         | 41.3      | 50.6      | 32.3      | 2.3       | 8.5        | 52.9      | 148       | 24.5      | 20.9      | 9.5          |      |
|   | 8/10/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | 33.3      | N/A       | 6.4       | 1.9        | N/A       | N/A       | N/A       | 14.1      | N/A          |      |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 7.5        | N/A       | N/A       | 16.6      | 114       | N/A          |      |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 6.3        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/22/2024   | 4.4        | 182       | 10500       | 4450         | 666       | 79        | 11700     | < 1.9     | 29         | 297       | 70.6      | < 1.9     | 33.1      | 27           |      |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 1.9     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 21.5       | N/A       | N/A       | 2         | 10        | N/A          |      |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 17.3       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 11/6/2024                                   | N/A         | N/A        | N/A       | 664         | N/A          | N/A       | 164       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | 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.

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                         | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6) | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | <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          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <4        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | 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          |
|   | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 6/24/2014   | 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          |
|   | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/16/2017   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2017   | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/14/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/15/2019   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/19/2019  | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/27/2020   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/18/2020  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/13/2021   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/23/2021  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/23/2022   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/15/2022  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/22/2023   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|   | 11/30/2023  | 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       | N/A          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/22/2024   | 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       | N/A          |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | N/A        | N/A       | <1        | <1        | N/A       |              |
| 9/12/2024   | 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       | N/A       |              |
| 1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)      | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 7/28/2010   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | 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          |
|   | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 6/24/2014   | 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          |
|   | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/7/2016   | <1          | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        |              |
| 5/16/2017   | <1          | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        |              |
| 11/7/2017   | <1          | <1         | N/A       | <1          | <1           | <1        | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        |              |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                    | Sample Date  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| 1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6) | 5/14/2018  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/7/2018  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/15/2019  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/19/2019   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/27/2020  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/18/2020   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/13/2021  | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/23/2021   | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/23/2022  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/15/2022   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/22/2023  | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/30/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|  | 11/30/2023   | 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       | N/A          |     |
|  | 5/22/2024  | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/22/2024  | N/A        | 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          |     |
|  | 9/12/2024  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|  | 9/12/2024  | 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       | N/A          |     |
|  | 1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5) | 3/17/2009  | <1        | N/A         | <1           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <1        | N/A          | <1  |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | <1        | <1        | N/A       | N/A          | N/A |
|  |  | 10/27/2009 | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
| 4/28/2010                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <10        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/13/2011                                      |  | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                      |  | 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          |     |
| 5/13/2013                                      |  | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
| 5/14/2013                                      |  | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
| 7/23/2013                                      |  | 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       | N/A          |     |
| 11/19/2013                                     |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/21/2014                                      |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 6/24/2014                                      |  | 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          |     |
| 11/10/2014                                     |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/4/2015                                       |  | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 11/10/2015                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/5/2016                                       |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2016                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/16/2017                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2017                                      |  | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/14/2018                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2018                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/15/2019                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/19/2019                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/27/2020                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/18/2020                                     |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/13/2021                                      |  | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/23/2021                                     |  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/23/2022                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/15/2022                                     |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/22/2023                                      |  | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/30/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
| 11/30/2023                                     |  | 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       | N/A          |     |
| 5/22/2024                                      |  | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/22/2024                                      |  | 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       | N/A          |     |
| 9/12/2024                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | N/A       | <1        | N/A          |     |
| 9/12/2024                                      |  | 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       | N/A          |     |
| 1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5) |  | 3/17/2009  | <1        | N/A         | <1           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | N/A          | <1  |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | <1        | <1        | N/A       | N/A          | N/A |
|  |  | 10/27/2009 | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                    | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| 1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5) | 4/28/2010   | N/A        | 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          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011   | 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          |
|  | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
|  | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|  | 7/23/2013   | 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       | N/A          |
|  | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|  | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|  | 6/24/2014   | 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          |
|  | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|  | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|  | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/16/2017   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/7/2017   | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/14/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/7/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/15/2019   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/19/2019  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/27/2020   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/18/2020  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/13/2021   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/23/2021  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/23/2022   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/15/2022  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/22/2023   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|  | 11/30/2023  | 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       | N/A          |
|  | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|  | 5/22/2024   | N/A        | 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          |
|  | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
| 9/12/2024                                      | 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       | N/A       |              |
| 1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)    | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | 3.04         |
|  | 5/4/2009    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | 2.47         |
|  | 7/10/2009   | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
|  | 10/27/2009  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010   | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | <1        | N/A        | N/A       | N/A       | N/A       | N/A       | 2.15         |
|  | 7/28/2010   | 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       | 1.88         |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011   | 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          |
|  | 10/26/2011  | 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       | 2.49         |
|  | 1/11/2012   | 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       | 1.7          |
|  | 5/9/2012    | 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       | 2.63         |
|  | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | 2.56         |
|  | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|  | 7/23/2013   | 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       | N/A          |
|  | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | 2.33         |
|  | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | 2.1          |
|  | 6/24/2014   | 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          |
|  | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | 1.85         |
|  | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | 1.89         |
|  | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | 1.9          |
|  | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | 2.21         |
|  | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | 2.37         |
|  | 5/16/2017   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | 1.72         |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                 | Sample Date                                 | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| 1,1-Dichloroethane, ug/L (CAS NO - 75-34-3) | 11/7/2017                                   | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | 1.96         |     |
|   | 5/14/2018                                   | <1         | <1        | <1          | <1           | <1        | <1        | 3.17      | <1        | <1         | <1        | <1        | <1        | <1        | 2.44         |     |
|   | 7/17/2018                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 2.82      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 11/7/2018                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 2.89      | <1         | <1        | <1        | <1        | <1        | 2.17         |     |
|   | 5/15/2019                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 4.08      | <1         | <1        | <1        | <1        | <1        | 2.15         |     |
|   | 11/19/2019                                  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 4.08      | <1         | <1        | <1        | <1        | <1        | 1.87         |     |
|   | 5/27/2020                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 3.36      | <1         | <1        | <1        | <1        | <1        | 1.57         |     |
|   | 11/18/2020                                  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | 3.49      | <1         | <1        | <1        | <1        | <1        | 1.42         |     |
|   | 5/13/2021                                   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | 3.93      | <1         | <1        | <1        | <1        | <1        | 1.78         |     |
|   | 11/23/2021                                  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | 3.57      | <1         | <1        | <1        | <1        | <1        | 1.51         |     |
|   | 5/23/2022                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 3.94      | <1         | <1        | <1        | <1        | <1        | 1.58         |     |
|   | 11/15/2022                                  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | 4.34      | <1         | <1        | <1        | <1        | <1        | 1.49         |     |
|   | 5/22/2023                                   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | 5.06      | <1         | <1        | <1        | <1        | <1        | 2.14         |     |
|   | 11/30/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|   | 11/30/2023                                  | 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       | N/A          |     |
|   | 5/22/2024                                   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | 3.51      | <1         | <1        | <1        | <1        | <1        | 1.7          |     |
|   | 5/22/2024                                   | 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       | N/A          |     |
|   | 9/12/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | N/A          |     |
|   | 9/12/2024                                   | 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          |     |
|   | 1,1-Dichloroethene, ug/L (CAS NO - 75-35-4) | 3/17/2009  | <2        | N/A         | <2           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <2        | N/A          | <2  |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <2        | <2        | <2        | N/A       | N/A          | N/A |
|   |   | 10/27/2009 | N/A       | <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 |
|   |   | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <2        | N/A       | N/A       | N/A       | N/A          | N/A |
|   |   | 7/28/2010  | N/A       | <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 |
| 1/13/2011                                   |   | N/A        | N/A       | N/A         | N/A          | <2        | <2        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                   |   | N/A        | 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          |     |
| 5/13/2013                                   |   | <2         | N/A       | N/A         | N/A          | <2        | N/A       | N/A       | N/A       | N/A        | <2        | <2        | <2        | N/A       | <2           |     |
| 5/14/2013                                   |   | N/A        | <2        | N/A         | N/A          | N/A       | <2        | N/A       | <2        | N/A        | N/A       | N/A       | <2        | N/A       | N/A          |     |
| 7/23/2013                                   |   | 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       | N/A          |     |
| 11/19/2013                                  |   | <2         | <2        | N/A         | N/A          | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | N/A       | <2           |     |
| 5/21/2014                                   |   | <2         | <2        | N/A         | N/A          | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | N/A       | <2           |     |
| 6/24/2014                                   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014                                  |   | <2         | <2        | N/A         | N/A          | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | N/A       | <2           |     |
| 5/4/2015                                    |   | <2         | <2        | <2          | N/A          | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | N/A       | <2           |     |
| 11/10/2015                                  |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/5/2016                                    |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/7/2016                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/16/2017                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/7/2017                                   |   | <2         | <2        | N/A         | <2           | <2        | <2        | <2        | N/A       | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/14/2018                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/7/2018                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/15/2019                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/19/2019                                  |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/27/2020                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/18/2020                                  |   | N/A        | <2        | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/13/2021                                   |   | N/A        | <2        | N/A         | N/A          | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/23/2021                                  |   | N/A        | <2        | N/A         | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/23/2022                                   |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/15/2022                                  |   | N/A        | <2        | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/22/2023                                   |   | <2         | <2        | N/A         | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 11/30/2023                                  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <2        | N/A       | N/A       | <2        | N/A          |     |
| 11/30/2023                                  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <2        | N/A       | N/A       | N/A       | N/A          |     |
| 5/22/2024                                   |   | N/A        | N/A       | N/A         | N/A          | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/22/2024                                   | N/A   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | N/A        | N/A       | N/A       | N/A       | N/A       |              |     |
| 9/12/2024                                   | N/A   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <2         | N/A       | N/A       | <2        | N/A       |              |     |
| 9/12/2024                                   | N/A   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <2         | N/A       | N/A       | N/A       | N/A       |              |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                          | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| 1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)      | 3/17/2009   | < 1        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 1       | N/A       | < 1          |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | N/A          |
|  | 10/27/2009  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011   | N/A        | 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          |
|  | 5/13/2013   | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
|  | 5/14/2013   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |
|  | 7/23/2013   | 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       | N/A          |
|  | 11/19/2013  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 5/21/2014   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 6/24/2014   | 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          |
|  | 11/10/2014  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 5/4/2015    | < 1        | < 1       | < 1         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 11/10/2015  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/5/2016    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/7/2016   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/16/2017   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/7/2017   | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/14/2018   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/7/2018   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/15/2019   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/19/2019  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/27/2020   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/18/2020  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/13/2021   | N/A        | < 1       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/23/2021  | N/A        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/23/2022   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/15/2022  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/22/2023   | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | < 1       | < 1       | N/A          |
|  | 11/30/2023  | 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       | N/A          |
|  | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 5/22/2024  | 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       | N/A       |              |
| 9/12/2024  | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 1       | N/A        | N/A       | < 1       | < 1       | N/A       |              |
| 9/12/2024  | 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       | N/A       |              |
| 1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8) | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013   | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10      | N/A       | N/A          |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/19/2013  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
|  | 5/21/2014   | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 11/10/2014  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
|  | 5/4/2015    | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
|  | 11/10/2015  | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|  | 5/5/2016    | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|  | 11/7/2016   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|  | 5/16/2017   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/7/2017  | < 5         | < 5        | N/A       | < 5         | < 5          | < 5       | N/A       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       |              |
| 5/14/2018  | < 5         | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       |              |



# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                                 | Sample Date  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| <b>1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)</b> | 11/7/2018  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/15/2019  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/19/2019   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/27/2020  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/18/2020   | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/13/2021  | N/A        | <5        | N/A         | N/A          | N/A       | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/23/2021   | N/A        | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/23/2022  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/15/2022   | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/22/2023  | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/30/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | <5        | N/A          |     |
|   | 11/30/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/22/2024  | N/A        | N/A       | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/22/2024  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 9/12/2024  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | <5        | N/A          |     |
|   | 9/12/2024  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | N/A       | N/A          |     |
|   | <b>1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)</b> | 3/17/2009  | <10       | N/A         | <10          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <10       | N/A          | <10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | <10       | <10       | N/A       | N/A          | N/A |
| 10/27/2009  |  | N/A        | <10       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2010   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <10       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | <10       | <10       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/13/2013   |  | <10        | N/A       | N/A         | N/A          | <10       | N/A       | N/A       | N/A       | <10        | <10       | <10       | N/A       | N/A       | <10          |     |
| 5/14/2013   |  | N/A        | <10       | N/A         | N/A          | N/A       | <10       | N/A       | <10       | N/A        | N/A       | N/A       | N/A       | <10       | N/A          |     |
| 7/23/2013   |  | N/A        | N/A       | <10         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/19/2013  |  | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 5/21/2014   |  | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 6/24/2014   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014  |  | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 5/4/2015  |  | <10        | <10       | <10         | N/A          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 11/10/2015  |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/5/2016  |  | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2016   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/16/2017   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2017   |  | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/14/2018   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2018   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/15/2019   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/19/2019  |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/27/2020   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/18/2020  |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/13/2021   |  | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/23/2021  |  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/23/2022   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/15/2022  |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/22/2023   |  | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/30/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | N/A          |     |
| 11/30/2023  |  | 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          |     |
| 5/22/2024   | N/A  | N/A        | N/A       | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        |              |     |
| 5/22/2024   | 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       | N/A       |              |     |
| 9/12/2024   | N/A  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | N/A       |              |     |
| 9/12/2024   | 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       |              |     |
| <b>1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)</b>         | 3/17/2009  | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |     |
|   | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |     |
|   | 10/27/2009   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 4/28/2010  | 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       | N/A          |     |
|   |  |            |           |             |              |           |           |           |           |            |           |           |           |           |              |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                  | Sample Date                                  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| 1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1) | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                    | 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          |
|  | 5/13/2013                                    | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
|  | 5/14/2013                                    | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |
|  | 7/23/2013                                    | 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       | N/A          |
|  | 11/19/2013                                   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 5/21/2014                                    | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 6/24/2014                                    | 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          |
|  | 11/10/2014                                   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 5/4/2015                                     | < 1        | < 1       | < 1         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|  | 11/10/2015                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/5/2016                                     | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/7/2016                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/16/2017                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/7/2017                                    | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | N/A       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/14/2018                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/7/2018                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/15/2019                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/19/2019                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/27/2020                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/18/2020                                   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/13/2021                                    | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/23/2021                                   | N/A        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/23/2022                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/15/2022                                   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/22/2023                                    | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/30/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 11/30/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/22/2024                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 5/22/2024                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 9/12/2024                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 9/12/2024                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|  | 1,2-Dichloroethane, ug/L (CAS NO - 107-06-2) | 3/17/2009  | < 1       | N/A         | < 1          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          |
| 7/10/2009                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | N/A          |
| 10/27/2009                                   |  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                                    |  | N/A        | 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          |
| 7/28/2010                                    |  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                                    |  | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                    |  | 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          |
| 5/13/2013                                    |  | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
| 5/14/2013                                    |  | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |
| 7/23/2013                                    |  | 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       | N/A          |
| 11/19/2013                                   |  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
| 5/21/2014                                    |  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
| 6/24/2014                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 1.42      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 11/10/2014                                   |  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
| 2/11/2015                                    |  | 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          |
| 5/4/2015                                     |  | < 1        | < 1       | < 1         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
| 6/29/2015                                    |  | 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          |
| 11/10/2015                                   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 5/5/2016                                     |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 11/7/2016                                    |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 5/16/2017                                    |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 11/7/2017                                    |  | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | N/A       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 5/14/2018                                    |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
| 11/7/2018                                    | < 1  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       |              |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                   | Sample Date                                  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| 1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)  | 5/15/2019                                    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/19/2019                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/27/2020                                    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/18/2020                                   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/13/2021                                    | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/23/2021                                   | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/23/2022                                    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/15/2022                                   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/22/2023                                    | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/30/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|   | 11/30/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|   | 5/22/2024                                    | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/22/2024                                    | N/A        | 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          |
|   | 9/12/2024                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|   | 9/12/2024                                    | 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       | N/A          |
|   | 1,2-Dichloropropane, ug/L (CAS NO - 78-87-5) | 3/17/2009  | <1        | N/A         | <1           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <1        | N/A          |
| 7/10/2009                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
| 10/27/2009                                    |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                                     |  | N/A        | 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          |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                     |  | 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          |
| 5/13/2013                                     |  | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
| 5/14/2013                                     |  | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
| 7/23/2013                                     |  | 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       | N/A          |
| 11/19/2013                                    |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
| 5/21/2014                                     |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
| 6/24/2014                                     |  | 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          |
| 11/10/2014                                    |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
| 5/4/2015                                      |  | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
| 11/10/2015                                    |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/5/2016                                      |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/7/2016                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/16/2017                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/7/2017                                     |  | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/14/2018                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/7/2018                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/15/2019                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/19/2019                                    |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/27/2020                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/18/2020                                    |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/13/2021                                     |  | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/23/2021                                    |  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/23/2022                                     |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/15/2022                                    |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 5/22/2023                                     |  | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
| 11/30/2023                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
| 11/30/2023                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
| 5/22/2024                                     | N/A  | N/A        | N/A       | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        |              |
| 5/22/2024                                     | N/A  | 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       |              |
| 9/12/2024                                     | N/A  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | N/A        | N/A       | <1        | <1        | N/A       |              |
| 9/12/2024                                     | 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       | N/A       |              |
| 1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7) | 3/17/2009                                    | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |
|   | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
|   | 10/27/2009                                   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                                    | N/A        | 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          |
|   | 7/28/2010                                    | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 7/28/2010                                    | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                   | Sample Date                         | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|-------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| 1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7) | 1/13/2011                           | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 4/28/2011                           | 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          |     |
|   | 5/13/2013                           | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
|   | 5/14/2013                           | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
|   | 7/23/2013                           | 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       | N/A          |     |
|   | 11/19/2013                          | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 5/21/2014                           | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 6/24/2014                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <1        | N/A       | <1         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 11/10/2014                          | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 5/4/2015                            | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 11/10/2015                          | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/5/2016                            | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2016                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/16/2017                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2017                           | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/14/2018                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2018                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/15/2019                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/19/2019                          | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/27/2020                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/18/2020                          | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/13/2021                           | N/A        | <1        | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/23/2021                          | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/23/2022                           | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/15/2022                          | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2023                           | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/30/2023                          | 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          |     |
|   | 5/22/2024                           | N/A        | N/A       | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2024                           | 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       | N/A          |     |
|   | 9/12/2024                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | <1           | N/A |
|   | 9/12/2024                           | 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          | N/A |
|   | 2-Butanone, ug/L (CAS NO - 78-93-3) | 3/17/2009  | <10       | N/A         | <10          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <10       | N/A          | <10 |
| 7/10/2009                                     |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <10        | <10       | <10       | N/A       | N/A       | N/A          |     |
| 10/27/2009                                    |                                     | N/A        | <10       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2010                                     |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <10        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/13/2011                                     |                                     | N/A        | N/A       | N/A         | N/A          | <10       | <10       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                     |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/13/2013                                     |                                     | <10        | N/A       | N/A         | N/A          | <10       | N/A       | N/A       | N/A       | <10        | <10       | <10       | N/A       | N/A       | <10          |     |
| 5/14/2013                                     |                                     | N/A        | <10       | N/A         | N/A          | N/A       | <10       | N/A       | <10       | N/A        | N/A       | N/A       | <10       | N/A       | N/A          |     |
| 7/23/2013                                     |                                     | N/A        | N/A       | <10         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/19/2013                                    |                                     | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 5/21/2014                                     |                                     | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 6/24/2014                                     |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014                                    |                                     | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 5/4/2015                                      |                                     | <10        | <10       | <10         | N/A          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 11/10/2015                                    |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/5/2016                                      |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2016                                     |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/16/2017                                     |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2017                                     |                                     | <10        | <10       | N/A         | <10          | <10       | <10       | <10       | N/A       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/14/2018                                     |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2018                                     |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/15/2019                                     |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/19/2019                                    |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/27/2020                                     |                                     | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                    | Sample Date                          | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|--------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 2-Butanone, ug/L (CAS NO - 78-93-3)            | 11/18/2020                           | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/13/2021                            | N/A        | < 10      | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/23/2021                           | N/A        | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/23/2022                            | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/15/2022                           | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/22/2023                            | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/30/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | < 10      | < 10         | N/A  |
|  | 11/30/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          | N/A  |
|  | 5/22/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|  | 5/22/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|  | 9/12/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | < 10      | < 10         | N/A  |
|  | 9/12/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          | N/A  |
|  | 9/12/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          | N/A  |
|  | 2-Hexanone, ug/L (CAS NO - 591-78-6) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
| 7/10/2009                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
| 10/27/2009                                     |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                      |                                      | < 10       | N/A       | N/A         | N/A          | N/A       | < 10      | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |      |
| 5/14/2013                                      |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | < 10      | N/A       | < 10       | N/A       | N/A       | N/A       | < 10      | N/A          |      |
| 7/23/2013                                      |                                      | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 11/19/2013                                     |                                      | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | N/A          |      |
| 5/21/2014                                      |                                      | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | N/A          |      |
| 6/24/2014                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 11/10/2014                                     |                                      | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | N/A          |      |
| 5/4/2015                                       |                                      | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | N/A          |      |
| 11/10/2015                                     |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/5/2016                                       |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/7/2016                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/16/2017                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/7/2017                                      |                                      | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/14/2018                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/7/2018                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/15/2019                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/19/2019                                     |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/27/2020                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/18/2020                                     |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/13/2021                                      |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/23/2021                                     |                                      | N/A        | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/23/2022                                      |                                      | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/15/2022                                     |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/22/2023                                      |                                      | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/30/2023                                     |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | < 10      | < 10         | N/A  |
| 11/30/2023                                     |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          | N/A  |
| 5/22/2024                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
| 5/22/2024                                      |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 9/12/2024                                      | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | < 10      | < 10      | N/A          |      |
| 9/12/2024                                      | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | < 10      | < 10      | N/A          |      |
| 4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1) | 3/17/2009                            | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|  | 7/10/2009                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|  | 10/27/2009                           | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011                            | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013                            | < 10       | N/A       | N/A         | N/A          | N/A       | < 10      | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | < 10         |      |
|  | 5/14/2013                            | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | < 10       | N/A       | N/A       | N/A       | < 10      | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                    | Sample Date                      | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1) | 7/23/2013                        | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 11/19/2013                       | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
|  | 5/21/2014                        | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
|  | 6/24/2014                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 11/10/2014                       | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
|  | 5/4/2015                         | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
|  | 11/10/2015                       | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/5/2016                         | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/7/2016                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/16/2017                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/7/2017                        | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/14/2018                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/7/2018                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/15/2019                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/19/2019                       | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/27/2020                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/18/2020                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/13/2021                        | N/A        | < 10      | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/23/2021                       | N/A        | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/23/2022                        | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/15/2022                       | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/22/2023                        | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 11/30/2023                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | < 10      | < 10      | N/A          |      |
|  | 11/30/2023                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/22/2024                        | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|  | 5/22/2024                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 9/12/2024                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | < 10      | N/A          |      |
|  | 9/12/2024                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | Acetone, ug/L (CAS NO - 67-64-1) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |                                  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |      |
| 10/27/2009                                     |                                  | N/A        | 10.8      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                                      |                                  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 7/28/2010                                      |                                  | N/A        | < 10      | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 10/28/2010                                     |                                  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                      |                                  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                      |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | 43.8      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 7/20/2011                                      |                                  | < 10       | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 10/26/2011                                     |                                  | < 10       | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/11/2012                                      |                                  | < 10       | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/9/2012                                       |                                  | < 10       | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                      |                                  | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |      |
| 5/14/2013                                      |                                  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10      | N/A       | N/A          |      |
| 7/23/2013                                      |                                  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 11/19/2013                                     |                                  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
| 5/21/2014                                      |                                  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
| 6/24/2014                                      |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 11/10/2014                                     |                                  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
| 5/4/2015                                       |                                  | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |      |
| 11/10/2015                                     |                                  | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/5/2016                                       |                                  | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/7/2016                                      |                                  | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/16/2017                                      |                                  | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 11/7/2017                                      |                                  | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | N/A       | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 5/14/2018                                      |                                  | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | 11.8      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
| 7/17/2018                                      |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 11/7/2018                                      |                                  | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents      | Sample Date                             | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|----------------------------------|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Acetone, ug/L (CAS NO - 67-64-1) | 5/15/2019                               | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | 26.7      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 7/16/2019                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                  | 11/19/2019                              | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 5/27/2020                               | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 11/18/2020                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | 35.8      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 2/2/2021                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                  | 2/2/2021                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                  | 5/13/2021                               | N/A        | < 10      | N/A         | N/A          | < 10      | < 10      | 10.2      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 11/23/2021                              | N/A        | < 10      | N/A         | < 10         | < 10      | < 10      | 12.5      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 5/23/2022                               | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 11/15/2022                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 5/22/2023                               | < 10       | < 10      | N/A         | < 10         | < 10      | 10.7      | < 10      | < 10      | 10.6       | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 8/10/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | 12        | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                  | 11/30/2023                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | < 10      | < 10      | N/A          |
|                                  | 11/30/2023                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                  | 5/22/2024                               | N/A        | N/A       | N/A         | N/A          | < 10      | 45.7      | 24.3      | < 10      | 14         | < 10      | < 10      | < 10      | < 10      | < 10         |
|                                  | 5/22/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                  | 9/12/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | < 10      | N/A          |
|                                  | 9/12/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          |
|                                  | Acrylonitrile, ug/L (CAS NO - 107-13-1) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
| 10/27/2009                       |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                        |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013                        |   | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |
| 5/14/2013                        |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10      | N/A       | N/A          |
| 7/23/2013                        |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 11/19/2013                       |   | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
| 5/21/2014                        |   | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
| 6/24/2014                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 11/10/2014                       |   | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
| 5/4/2015                         |   | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |
| 11/10/2015                       |   | < 20       | < 20      | < 20        | < 20         | < 20      | < 20      | < 20      | < 20      | < 20       | < 20      | < 20      | < 20      | < 20      | < 20         |
| 5/5/2016                         |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
| 11/7/2016                        |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
| 5/16/2017                        |   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/7/2017                        |   | < 5        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | N/A       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 5/14/2018                        |   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/7/2018                        |   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 5/15/2019                        |   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/19/2019                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |
| 5/27/2020                        |   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/18/2020                       |   | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 5/13/2021                        |   | N/A        | < 5       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/23/2021                       |   | N/A        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 5/23/2022                        |   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/15/2022                       |   | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 5/22/2023                        |   | < 5        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 11/30/2023                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | < 5       | < 5          |
| 11/30/2023                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | < 5       | < 5          |
| 5/22/2024                        |   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
| 5/22/2024                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 9/12/2024                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | < 5       | < 5          |
| 9/12/2024                        |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | N/A       | N/A          |



# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                 | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Benzene, ug/L (CAS NO - 71-43-2)            | 3/17/2009   | < 0.5      | N/A       | < 0.5       | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.5     | N/A       | < 0.5        |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 1.06       | < 0.5     | < 0.5     | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | < 0.5     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 10/28/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 1.38       | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.5     | 0.93       | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 7/28/2010   | N/A        | < 0.5     | < 0.5       | N/A          | N/A       | N/A       | N/A       | N/A       | 2.08       | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 10/28/2010  | N/A        | N/A       | < 0.5       | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | < 0.5       | N/A          | < 0.5     | < 0.5     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.5     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 10/26/2011  | N/A        | N/A       | < 0.5       | N/A          | N/A       | N/A       | N/A       | N/A       | 1.87       | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/11/2012   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 0.71       | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/9/2012    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.5      | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/6/2012   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.5      | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013   | < 0.5      | N/A       | N/A         | N/A          | < 0.5     | N/A       | N/A       | N/A       | < 0.5      | < 0.5     | < 0.5     | < 0.5     | N/A       | < 0.5        |
|   | 5/14/2013   | N/A        | < 0.5     | N/A         | N/A          | N/A       | < 0.5     | N/A       | < 0.5     | N/A        | N/A       | N/A       | N/A       | < 0.5     | N/A          |
|   | 7/23/2013   | N/A        | N/A       | < 0.5       | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/19/2013  | < 0.5      | < 0.5     | N/A         | N/A          | < 0.5     | < 0.5     | N/A       | < 0.5     | < 0.5      | < 0.5     | < 0.5     | < 0.5     | N/A       | < 0.5        |
|   | 5/21/2014   | < 0.5      | < 0.5     | N/A         | N/A          | < 0.5     | < 0.5     | N/A       | < 0.5     | < 0.5      | < 0.5     | < 0.5     | < 0.5     | N/A       | < 0.5        |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.5     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/10/2014  | < 0.5      | < 0.5     | N/A         | N/A          | < 0.5     | < 0.5     | N/A       | < 0.5     | 1.52       | < 0.5     | < 0.5     | < 0.5     | N/A       | < 0.5        |
|   | 5/4/2015    | < 0.5      | < 0.5     | < 0.5       | N/A          | < 0.5     | < 0.5     | < 0.5     | < 0.5     | 0.632      | < 0.5     | < 0.5     | < 0.5     | N/A       | < 0.5        |
|   | 11/10/2015  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|   | 5/5/2016    | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5      | 2.09      | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 6/29/2016   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.25      | N/A       | N/A       | N/A       | N/A          |
|   | 11/7/2016   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5      | 1.39      | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 5/16/2017   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5      | 1.06      | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/7/2017   | < 0.5      | < 0.5     | N/A         | < 0.5        | < 0.5     | < 0.5     | N/A       | < 0.5     | 1          | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 5/14/2018   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5      | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/7/2018   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | 1.04       | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 5/15/2019   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5      | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/19/2019  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|   | 5/27/2020   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | 0.56      | < 0.5     | 0.621      | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/18/2020  | N/A        | < 0.5     | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.5     | 0.57       | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 5/13/2021   | N/A        | < 0.5     | N/A         | N/A          | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5      | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/23/2021  | N/A        | < 0.5     | N/A         | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | 1.83       | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 5/23/2022   | < 0.5      | < 0.5     | < 0.5       | < 0.5        | < 0.5     | < 0.5     | < 0.5     | < 0.5     | 2.13       | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/15/2022  | N/A        | < 0.5     | N/A         | N/A          | N/A       | N/A       | 0.907     | < 0.5     | 1.24       | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 5/22/2023   | < 0.5      | < 0.5     | N/A         | < 0.5        | < 0.5     | < 0.5     | 0.785     | < 0.5     | 1.71       | < 0.5     | < 0.5     | < 0.5     | < 0.5     | < 0.5        |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 3.42       | N/A       | N/A       | < 0.5     | < 0.5     | N/A          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 3.4        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/22/2024                                   | N/A         | N/A        | N/A       | N/A         | < 0.5        | < 0.5     | < 0.5     | < 0.5     | 2.31      | < 0.5      | < 0.5     | < 0.5     | < 0.5     | < 0.5     |              |
| 5/22/2024                                   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.5     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 9/12/2024                                   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 2.36      | N/A        | N/A       | N/A       | < 0.5     | < 0.5     |              |
| 9/12/2024                                   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 2.4       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| Bromochloromethane, ug/L (CAS NO - 74-97-5) | 3/17/2009   | < 5        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 5       | N/A       | < 5          |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | < 5       | < 5       | N/A       | N/A       |              |
|   | 10/27/2009  | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 5/13/2013   | < 5        | N/A       | N/A         | N/A          | < 5       | N/A       | N/A       | N/A       | < 5        | < 5       | < 5       | N/A       | N/A       |              |
|   | 5/14/2013   | N/A        | < 5       | N/A         | N/A          | N/A       | < 5       | N/A       | < 5       | N/A        | N/A       | < 5       | < 5       | N/A       |              |
|   | 7/23/2013   | N/A        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 11/19/2013  | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | N/A       |              |
|   | 5/21/2014   | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | N/A       |              |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                   | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Bromochloromethane, ug/L (CAS NO - 74-97-5)   | 11/10/2014  | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |
|   | 5/4/2015    | <5         | <5        | <5          | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/7/2016   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/16/2017   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/7/2017   | <5         | <5        | N/A         | <5           | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/14/2018   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/7/2018   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/15/2019   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/19/2019  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/27/2020   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/18/2020  | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/13/2021   | N/A        | <5        | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/23/2021  | N/A        | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/23/2022   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/15/2022  | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/22/2023   | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | <5        | <5        | N/A          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | <5        | <5        | N/A          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |
| Bromodichloromethane, ug/L (CAS NO - 75-27-4) | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <4        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | 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          |
|   | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 6/24/2014   | 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          |
|   | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/16/2017   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2017   | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/14/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/15/2019   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/19/2019  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/27/2020   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/18/2020  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/13/2021   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/23/2021  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/23/2022   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/15/2022  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/22/2023   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|   | 11/30/2023  | 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       | N/A          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                   | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Bromodichloromethane, ug/L (CAS NO - 75-27-4) | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|   | 5/22/2024   | N/A        | 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          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | < 1       | < 1       | N/A          |
|   | 9/12/2024   | 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       | N/A          |
| Bromoform, ug/L (CAS NO - 75-25-2)            | 3/17/2009   | < 5        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 5       | N/A       | < 5          |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 5       | < 5       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | < 20      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013   | < 5        | N/A       | N/A         | N/A          | < 5       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |
|   | 5/14/2013   | N/A        | < 5       | N/A         | N/A          | N/A       | < 5       | N/A       | < 5       | N/A        | N/A       | N/A       | < 5       | N/A       | N/A          |
|   | 7/23/2013   | N/A        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/19/2013  | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | N/A       | < 5          |
|   | 5/21/2014   | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | N/A       | < 5          |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/10/2014  | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | N/A       | < 5          |
|   | 5/4/2015    | < 5        | < 5       | < 5         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | N/A       | < 5          |
|   | 11/10/2015  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |
|   | 5/5/2016    | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/7/2016   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/16/2017   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/7/2017   | < 5        | < 5       | N/A         | < 5          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/14/2018   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/7/2018   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/15/2019   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/19/2019  | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/27/2020   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/18/2020  | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/13/2021   | N/A        | < 5       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/23/2021  | N/A        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/23/2022   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/15/2022  | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/22/2023   | < 5        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | < 5       | N/A          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | N/A       | N/A          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | < 5       | N/A          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          |
| Bromomethane, ug/L (CAS NO - 74-83-9)         | 3/17/2009   | < 4        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 4       | N/A       | < 4          |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | N/A       | N/A       | < 4       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013   | < 4        | N/A       | N/A         | N/A          | < 4       | N/A       | N/A       | N/A       | < 4        | < 4       | < 4       | N/A       | N/A       | < 4          |
|   | 5/14/2013   | N/A        | < 4       | N/A         | N/A          | N/A       | < 4       | N/A       | < 4       | N/A        | N/A       | N/A       | < 4       | N/A       | N/A          |
|   | 7/23/2013   | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/19/2013  | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|   | 5/21/2014   | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/10/2014  | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|   | 5/4/2015    | < 4        | < 4       | < 4         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|   | 11/10/2015  | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|   | 5/5/2016    | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents           | Sample Date                               | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---------------------------------------|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Bromomethane, ug/L (CAS NO - 74-83-9) | 11/7/2016                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/16/2017                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/7/2017                                 | <4         | <4        | N/A         | <4           | <4        | <4        | <4        | N/A       | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/14/2018                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/7/2018                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/15/2019                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/19/2019                                | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/27/2020                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/18/2020                                | N/A        | <4        | N/A         | N/A          | N/A       | N/A       | N/A       | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/13/2021                                 | N/A        | <4        | N/A         | N/A          | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/23/2021                                | N/A        | <4        | N/A         | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/23/2022                                 | <4         | <4        | <4          | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/15/2022                                | N/A        | <4        | N/A         | N/A          | N/A       | N/A       | N/A       | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/22/2023                                 | <4         | <4        | N/A         | <4           | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 11/30/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <4        | N/A       | N/A       | <4        | <4           |     |
|                                       | 11/30/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <4        | N/A       | N/A       | N/A       | N/A          |     |
|                                       | 5/22/2024                                 | N/A        | N/A       | N/A         | N/A          | <4        | <4        | <4        | <4        | <4         | <4        | <4        | <4        | <4        | <4           |     |
|                                       | 5/22/2024                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <4         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|                                       | 9/12/2024                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <4        | N/A       | N/A       | <4        | <4           |     |
|                                       | 9/12/2024                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <4        | N/A       | N/A       | N/A       | N/A          |     |
|                                       | Carbon Disulfide, ug/L (CAS NO - 75-15-0) | 3/17/2009  | <1        | N/A         | <1           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <1        | N/A          | <1  |
|                                       |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | <1        | <1        | N/A       | N/A          | N/A |
|                                       |   | 10/27/2009 | N/A       | <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 |
|                                       |   | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | N/A       | N/A          | N/A |
| 1/13/2011                             |   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                             |   | 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          |     |
| 5/13/2013                             |   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
| 5/14/2013                             |   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
| 7/23/2013                             |   | 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       | N/A          |     |
| 11/19/2013                            |   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/21/2014                             |   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 6/24/2014                             |   | N/A        | 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          |     |
| 11/10/2014                            |   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/4/2015                              |   | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 11/10/2015                            |   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |     |
| 5/5/2016                              |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2016                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/16/2017                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 2.9       | <1         | <1        | <1        | <1        | 1.66      | <1           |     |
| 7/19/2017                             |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | N/A        | N/A       | N/A       | N/A       | <1        | N/A          |     |
| 11/7/2017                             |   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/14/2018                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2018                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 4.76      | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 2/5/2019                              |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 5.13      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/15/2019                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | 1.74      | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/19/2019                            |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/27/2020                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/18/2020                            |   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/13/2021                             |   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/23/2021                            |   | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/23/2022                             |   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/15/2022                            |   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/22/2023                             |   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/30/2023                            |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | <1           |     |
| 11/30/2023                            |   | 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          |     |
| 5/22/2024                             | N/A                                       | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        |              |     |
| 5/22/2024                             | 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       | N/A       |              |     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                   | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Carbon Disulfide, ug/L (CAS NO - 75-15-0)     | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |
|   | 9/12/2024   | 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       | N/A          |
| Carbon Tetrachloride, ug/L (CAS NO - 56-23-5) | 3/17/2009   | <2         | N/A       | <2          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <2        | N/A       | <2           |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <2         | <2        | <2        | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | <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          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 7/28/2010   | N/A        | <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          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <2        | <2        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | 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          |
|   | 5/13/2013   | <2         | N/A       | N/A         | N/A          | <2        | N/A       | N/A       | N/A       | <2         | <2        | <2        | N/A       | N/A       | <2           |
|   | 5/14/2013   | N/A        | <2        | N/A         | N/A          | N/A       | <2        | N/A       | <2        | N/A        | N/A       | N/A       | <2        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | <2         | <2        | N/A         | N/A          | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | <2        | N/A          |
|   | 5/21/2014   | <2         | <2        | N/A         | N/A          | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | <2        | N/A          |
|   | 6/24/2014   | N/A        | 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          |
|   | 11/10/2014  | <2         | <2        | N/A         | N/A          | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | <2        | N/A          |
|   | 5/4/2015    | <2         | <2        | <2          | N/A          | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | N/A          |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/7/2016   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/16/2017   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/7/2017   | <2         | <2        | N/A         | <2           | <2        | <2        | N/A       | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/14/2018   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/7/2018   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/15/2019   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/19/2019  | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/27/2020   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/18/2020  | N/A        | <2        | N/A         | N/A          | N/A       | N/A       | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/13/2021   | N/A        | <2        | N/A         | N/A          | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/23/2021  | N/A        | <2        | N/A         | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/23/2022   | <2         | <2        | <2          | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/15/2022  | N/A        | <2        | N/A         | N/A          | N/A       | N/A       | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 5/22/2023   | <2         | <2        | N/A         | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        | <2           |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <2        | N/A       | N/A       | <2        | <2           |
| 11/30/2023                                    | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <2         | N/A       | N/A       | N/A       | N/A       |              |
| 5/22/2024                                     | N/A         | N/A        | N/A       | N/A         | <2           | <2        | <2        | <2        | <2        | <2         | <2        | <2        | <2        | <2        |              |
| 5/22/2024                                     | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 9/12/2024                                     | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <2         | N/A       | N/A       | <2        | <2        |              |
| 9/12/2024                                     | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | N/A        | N/A       | N/A       | <2        | <2        |              |
| Chlorobenzene, ug/L (CAS NO - 108-90-7)       | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | 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       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | 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          |
|   | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 6/24/2014   | 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          |
|   | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents             | Sample Date                                    | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Chlorobenzene, ug/L (CAS NO - 108-90-7) | 5/16/2017                                      | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2017                                      | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/14/2018                                      | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2018                                      | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/15/2019                                      | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/19/2019                                     | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/27/2020                                      | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/18/2020                                     | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/13/2021                                      | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/23/2021                                     | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/23/2022                                      | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/15/2022                                     | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2023                                      | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/30/2023                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | <1           |     |
|   | 11/30/2023                                     | 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          |     |
|   | 5/22/2024                                      | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2024                                      | 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       | N/A          |     |
|   | 9/12/2024                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | <1           |     |
|   | 9/12/2024                                      | 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          |     |
|   | Chlorodibromomethane, ug/L (CAS NO - 124-48-1) | 3/17/2009  | <5        | N/A         | <5           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <5        | N/A          | <5  |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | <5        | <5        | N/A       | N/A          | N/A |
|   |  | 10/27/2009 | N/A       | <10         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|   |  | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|   |  | 1/13/2011  | N/A       | N/A         | N/A          | N/A       | <5        | <5        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
| 4/28/2011                               |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <5        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/13/2013                               |  | <5         | N/A       | N/A         | N/A          | <5        | N/A       | N/A       | N/A       | <5         | <5        | <5        | N/A       | N/A       | <5           |     |
| 5/14/2013                               |  | N/A        | <5        | N/A         | N/A          | N/A       | <5        | N/A       | <5        | N/A        | N/A       | N/A       | N/A       | <5        | N/A          |     |
| 7/23/2013                               |  | N/A        | N/A       | <5          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/19/2013                              |  | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 5/21/2014                               |  | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 6/24/2014                               |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <5        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014                              |  | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 5/4/2015                                |  | <5         | <5        | <5          | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 11/10/2015                              |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/5/2016                                |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/7/2016                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/16/2017                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/7/2017                               |  | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | N/A       | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/14/2018                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/7/2018                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/15/2019                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/19/2019                              |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/27/2020                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/18/2020                              |  | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/13/2021                               |  | N/A        | <5        | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/23/2021                              |  | N/A        | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/23/2022                               |  | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/15/2022                              |  | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/22/2023                               |  | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/30/2023                              |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | <5        | <5           |     |
| 11/30/2023                              |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | N/A       | N/A          |     |
| 5/22/2024                               |  | N/A        | N/A       | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/22/2024                               |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 9/12/2024                               | N/A  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | <5        | <5        |              |     |
| 9/12/2024                               | N/A  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       |              |     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents           | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---------------------------------------|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Chloroethane, ug/L (CAS NO - 75-00-3) | 3/17/2009   | < 4        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 4       | N/A       | < 4          |
|                                       | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 4.34       | < 4       | < 4       | N/A       | N/A       | N/A          |
|                                       | 10/27/2009  | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 10/28/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 5.94       | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | 5.14      | N/A       | N/A       | N/A       | N/A          |
|                                       | 7/28/2010   | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 7.79      | N/A       | N/A       | N/A       | N/A          |
|                                       | 10/28/2010  | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 1/13/2011   | N/A        | N/A       | < 4         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 10/26/2011  | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 6.54      | N/A       | N/A       | N/A       | N/A          |
|                                       | 1/11/2012   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | N/A       | N/A          |
|                                       | 5/9/2012    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | N/A       | N/A          |
|                                       | 11/6/2012   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | N/A       | N/A          |
|                                       | 5/13/2013   | < 4        | N/A       | N/A         | N/A          | < 4       | N/A       | N/A       | N/A       | < 4        | < 4       | < 4       | N/A       | N/A       | < 4          |
|                                       | 5/14/2013   | N/A        | < 4       | N/A         | N/A          | N/A       | < 4       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | < 4       | N/A          |
|                                       | 7/23/2013   | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 11/19/2013  | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|                                       | 5/21/2014   | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|                                       | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 11/10/2014  | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|                                       | 5/4/2015    | < 4        | < 4       | < 4         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |
|                                       | 11/10/2015  | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |
|                                       | 5/5/2016    | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/7/2016   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/16/2017   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/7/2017   | < 4        | < 4       | N/A         | < 4          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/14/2018   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/7/2018   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/15/2019   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/19/2019  | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/27/2020   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/18/2020  | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/13/2021   | N/A        | < 4       | N/A         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/23/2021  | N/A        | < 4       | N/A         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/23/2022   | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/15/2022  | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 5/22/2023   | < 4        | < 4       | N/A         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
|                                       | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | < 4       | N/A          |
|                                       | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | N/A       | N/A          |
|                                       | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |
| 5/22/2024                             | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| 9/12/2024                             | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | N/A       | N/A       | < 4       | N/A       |              |
| 9/12/2024                             | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | N/A       | N/A       | N/A       | N/A       |              |
| Chloroform, ug/L (CAS NO - 67-66-3)   | 3/17/2009   | < 1        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 1       | N/A       | < 1          |
|                                       | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | N/A          |
|                                       | 10/27/2009  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 4/28/2010   | N/A        | 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          |
|                                       | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|                                       | 4/28/2011   | 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          |
|                                       | 5/13/2013   | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
|                                       | 5/14/2013   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |
|                                       | 7/23/2013   | 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       | N/A          |
|                                       | 11/19/2013  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|                                       | 5/21/2014   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |
|                                       | 6/24/2014   | 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          |
|                                       | 11/10/2014  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents         | Sample Date                            | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|-------------------------------------|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Chloroform, ug/L (CAS NO - 67-66-3) | 5/4/2015                               | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|                                     | 11/10/2015                             | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|                                     | 5/5/2016                               | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|                                     | 11/7/2016                              | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|                                     | 5/16/2017                              | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|                                     | 11/7/2017                              | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
|                                     | 5/14/2018                              | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|                                     | 11/7/2018                              | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 5/15/2019                              | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 11/19/2019                             | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 5/27/2020                              | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 11/18/2020                             | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 5/13/2021                              | N/A        | <3        | N/A         | N/A          | N/A       | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 11/23/2021                             | N/A        | <3        | N/A         | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 5/23/2022                              | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 11/15/2022                             | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 5/22/2023                              | <3         | <3        | N/A         | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 11/30/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|                                     | 11/30/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|                                     | 5/22/2024                              | N/A        | N/A       | N/A         | N/A          | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |     |
|                                     | 5/22/2024                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|                                     | 9/12/2024                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | <3        | <3           | N/A |
|                                     | 9/12/2024                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|                                     | Chloromethane, ug/L (CAS NO - 74-87-3) | 3/17/2009  | <3        | N/A         | <3           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <3        | N/A          | <3  |
|                                     |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <3        | <3        | <3        | N/A       | N/A          | N/A |
|                                     |  | 10/27/2009 | N/A       | <3          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|                                     |  | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|                                     |  | 1/13/2011  | N/A       | N/A         | N/A          | N/A       | <3        | <3        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|                                     |  | 4/28/2011  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|                                     |  | 5/13/2013  | <3        | N/A         | N/A          | N/A       | <3        | N/A       | N/A       | N/A        | <3        | <3        | <3        | N/A       | N/A          | <3  |
| 5/14/2013                           |  | N/A        | <3        | N/A         | N/A          | N/A       | <3        | N/A       | <3        | N/A        | N/A       | N/A       | <3        | N/A       | N/A          |     |
| 7/23/2013                           |  | N/A        | N/A       | <3          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/19/2013                          |  | <3         | <3        | N/A         | N/A          | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |     |
| 5/21/2014                           |  | <3         | <3        | N/A         | N/A          | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |     |
| 6/24/2014                           |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <3        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014                          |  | <3         | <3        | N/A         | N/A          | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |     |
| 5/4/2015                            |  | <3         | <3        | <3          | N/A          | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | N/A          | <3  |
| 11/10/2015                          |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           | <1  |
| 5/5/2016                            |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/7/2016                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/16/2017                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/7/2017                           |  | <3         | <3        | N/A         | <3           | <3        | <3        | <3        | N/A       | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/14/2018                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/7/2018                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/15/2019                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/19/2019                          |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/27/2020                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/18/2020                          |  | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/13/2021                           |  | N/A        | <3        | N/A         | N/A          | N/A       | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/23/2021                          |  | N/A        | <3        | N/A         | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/23/2022                           |  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/15/2022                          |  | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 5/22/2023                           |  | <3         | <3        | N/A         | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           | <3  |
| 11/30/2023                          | N/A                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | <3        | <3        | N/A          |     |
| 11/30/2023                          | N/A                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | N/A       | <3        | N/A          |     |



# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                         | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Chloromethane, ug/L (CAS NO - 74-87-3)              | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | <3        | <3        | N/A          |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          |
| cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)    | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | 4.35         |
|   | 5/4/2009    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | 2.16         |
|   | 7/10/2009   | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | 118        | <1        | <1        | N/A       | N/A       | N/A          |
|   | 10/27/2009  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 10/28/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 199        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | <1        | 115        | N/A       | N/A       | N/A       | N/A       | 2.55         |
|   | 7/28/2010   | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | 190        | N/A       | N/A       | N/A       | N/A       | 2.24         |
|   | 10/28/2010  | 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       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | 1.61      | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | <1        | N/A         | N/A          | 2.09      | N/A       | <1        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 7/20/2011   | N/A        | <1        | N/A         | N/A          | 2.63      | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 10/26/2011  | N/A        | <1        | <1          | N/A          | 2.22      | N/A       | N/A       | N/A       | N/A        | 159       | N/A       | N/A       | N/A       | 4.08         |
|   | 1/11/2012   | N/A        | <1        | N/A         | N/A          | 1.35      | N/A       | N/A       | N/A       | N/A        | 91.4      | N/A       | N/A       | N/A       | 3.67         |
|   | 5/9/2012    | N/A        | <1        | N/A         | N/A          | 3.6       | N/A       | N/A       | N/A       | N/A        | 67.5      | N/A       | N/A       | N/A       | 4.56         |
|   | 11/6/2012   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 44.2      | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013   | <1         | N/A       | N/A         | N/A          | 1.88      | N/A       | N/A       | N/A       | N/A        | 10.8      | <1        | <1        | N/A       | 3.92         |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | N/A       | <1        | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | 29         | <1        | <1        | <1        | N/A       | 4.45         |
|   | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | 24.5       | <1        | <1        | <1        | N/A       | 4.03         |
|   | 6/24/2014   | 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          |
|   | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | 151        | <1        | <1        | <1        | N/A       | 4.72         |
|   | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | 66.6       | <1        | <1        | <1        | N/A       | 3.11         |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 25.3       | <1        | <1        | <1        | <1        | 2.88         |
|   | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 9.11       | <1        | <1        | <1        | <1        | 3.71         |
|   | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 13.2       | <1        | <1        | <1        | <1        | 3.82         |
|   | 5/16/2017   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 10.9       | <1        | <1        | <1        | <1        | 3.08         |
|   | 11/7/2017   | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | 99.5       | <1        | <1        | <1        | <1        | 3.06         |
|   | 5/14/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 24.8       | <1        | <1        | <1        | <1        | 4.03         |
|   | 11/7/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 70.3       | <1        | <1        | <1        | <1        | 2.68         |
|   | 5/15/2019   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 27.5       | <1        | <1        | <1        | <1        | 2.93         |
|   | 11/19/2019  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 33.5       | <1        | <1        | <1        | <1        | 2.89         |
|   | 5/27/2020   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 43.3       | <1        | <1        | <1        | <1        | 2.51         |
|   | 11/18/2020  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | 44.5       | <1        | <1        | <1        | <1        | 3.32         |
|   | 5/13/2021   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | 37.3       | <1        | <1        | <1        | <1        | 2.97         |
|   | 11/23/2021  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | 54.9       | <1        | <1        | <1        | <1        | 2.54         |
|   | 5/23/2022   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | 54.4       | <1        | <1        | <1        | <1        | 2.47         |
|   | 11/15/2022  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | 55.1       | <1        | <1        | <1        | <1        | 2.59         |
|   | 5/22/2023   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | 67.8       | <1        | <1        | <1        | <1        | 3.28         |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 129        | N/A       | N/A       | <1        | <1        | N/A          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 125        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | <1        | <1        | <1        | 77.6       | <1        | <1        | <1        | <1        | 2.49         |
| 5/22/2024   | N/A         | 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       |              |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 67.1      | N/A        | N/A       | N/A       | <1        | N/A       |              |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 70.8      | N/A        | N/A       | N/A       | N/A       | N/A       |              |
| cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5) | 3/17/2009   | <5         | N/A       | <5          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <5        | N/A       | <5           |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | <5        | <5        | N/A       | N/A       |              |
|   | 10/27/2009  | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | <5        | <5        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | N/A        | N/A       | N/A       | N/A       | N/A       |              |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                         | Sample Date                            | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5) | 5/13/2013                              | <5         | N/A       | N/A         | N/A          | <5        | N/A       | N/A       | N/A       | <5         | <5        | <5        | N/A       | N/A       | <5           |     |
|   | 5/14/2013                              | N/A        | <5        | N/A         | N/A          | N/A       | <5        | N/A       | <5        | N/A        | N/A       | N/A       | <5        | N/A       | N/A          |     |
|   | 7/23/2013                              | N/A        | N/A       | <5          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 11/19/2013                             | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
|   | 5/21/2014                              | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
|   | 6/24/2014                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <5        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 11/10/2014                             | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
|   | 5/4/2015                               | <5         | <5        | <5          | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
|   | 11/10/2015                             | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/5/2016                               | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/7/2016                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/16/2017                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/7/2017                              | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | N/A       | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/14/2018                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/7/2018                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/15/2019                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/19/2019                             | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/27/2020                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/18/2020                             | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/13/2021                              | N/A        | <5        | N/A         | N/A          | N/A       | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/23/2021                             | N/A        | <5        | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/23/2022                              | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/15/2022                             | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/22/2023                              | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 11/30/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | <5        | <5        | N/A          |     |
|   | 11/30/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/22/2024                              | N/A        | N/A       | N/A         | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
|   | 5/22/2024                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 9/12/2024                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | <5        | <5        | N/A          |     |
|   | 9/12/2024                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | Ethylbenzene, ug/L (CAS NO - 100-41-4) | 3/17/2009  | <1        | N/A         | <1           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <1        | N/A          | <1  |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | <1        | <1        | N/A       | N/A          | N/A |
| 10/27/2009  |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2010   |  | 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       | N/A          |     |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011   |  | 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          |     |
| 5/13/2013   |  | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
| 5/14/2013   |  | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
| 7/23/2013   |  | 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       | N/A          |     |
| 11/19/2013  |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/21/2014   |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 6/24/2014   |  | 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          |     |
| 11/10/2014  |  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/4/2015  |  | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 11/10/2015  |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/5/2016  |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2016   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/16/2017   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2017   |  | <1         | <1        | N/A         | <1           | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/14/2018   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2018   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/15/2019   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/19/2019  |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/27/2020   |  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/18/2020  |  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/13/2021   |  | N/A        | <1        | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                | Sample Date                          | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|--|--------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Ethylbenzene, ug/L (CAS NO - 100-41-4)     | 11/23/2021                           | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/23/2022                            | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/15/2022                           | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/22/2023                            | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/30/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|  | 11/30/2023                           | 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       | N/A          |     |
|  | 5/22/2024                            | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/22/2024                            | N/A        | 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          |     |
|  | 9/12/2024                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | N/A       | <1        | <1           | N/A |
|  | 9/12/2024                            | 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       | N/A          | N/A |
|  | Iodomethane, ug/L (CAS NO - 74-88-4) | 3/17/2009  | <10       | N/A         | <10          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <10       | N/A          | <10 |
|  |                                      | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <20       | <20       | <20       | N/A       | N/A          | N/A |
|  |                                      | 10/27/2009 | N/A       | <50         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
| 4/28/2010                                  |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <10       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/13/2011                                  |                                      | N/A        | N/A       | N/A         | N/A          | <10       | <10       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                  |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/13/2013                                  |                                      | <10        | N/A       | N/A         | N/A          | <10       | N/A       | N/A       | N/A       | <10        | <10       | <10       | N/A       | N/A       | <10          |     |
| 5/14/2013                                  |                                      | N/A        | <10       | N/A         | N/A          | N/A       | <10       | N/A       | <10       | N/A        | N/A       | N/A       | <10       | N/A       | N/A          |     |
| 7/23/2013                                  |                                      | N/A        | N/A       | <10         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/19/2013                                 |                                      | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 5/21/2014                                  |                                      | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 6/24/2014                                  |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014                                 |                                      | <10        | <10       | N/A         | N/A          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 5/4/2015                                   |                                      | <10        | <10       | <10         | N/A          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | N/A       | <10          |     |
| 11/10/2015                                 |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/5/2016                                   |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2016                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/16/2017                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2017                                  |                                      | <10        | <10       | N/A         | <10          | <10       | <10       | N/A       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/14/2018                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/7/2018                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/15/2019                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/19/2019                                 |                                      | <100       | <100      | <100        | <100         | <100      | <100      | <100      | <100      | <100       | <100      | <100      | <100      | <100      | <100         |     |
| 5/27/2020                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/18/2020                                 |                                      | N/A        | <10       | N/A         | N/A          | N/A       | N/A       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/13/2021                                  |                                      | N/A        | <10       | N/A         | N/A          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/23/2021                                 |                                      | N/A        | <10       | N/A         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/23/2022                                  |                                      | <10        | <10       | <10         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/15/2022                                 |                                      | N/A        | <10       | N/A         | N/A          | N/A       | N/A       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 5/22/2023                                  |                                      | <10        | <10       | N/A         | <10          | <10       | <10       | <10       | <10       | <10        | <10       | <10       | <10       | <10       | <10          |     |
| 11/30/2023                                 |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <10        | N/A       | N/A       | <10       | <10       | N/A          |     |
| 11/30/2023                                 |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <10        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/22/2024                                  | N/A                                  | N/A        | N/A       | N/A         | <10          | <10       | <10       | <10       | <10       | <10        | N/A       | <10       | <10       | <10       |              |     |
| 5/22/2024                                  | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <10       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       |              |     |
| 9/12/2024                                  | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <10       | N/A        | N/A       | N/A       | <10       | <10       | N/A          |     |
| 9/12/2024                                  | N/A                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <10       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| Methylene Bromide, ug/L (CAS NO - 74-95-3) | 3/17/2009                            | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |     |
|  | 7/10/2009                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | N/A          |     |
|  | 10/27/2009                           | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|  | 4/28/2010                            | N/A        | 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          |     |
|  | 1/13/2011                            | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|  | 4/28/2011                            | 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          |     |
|  | 5/13/2013                            | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
|  | 5/14/2013                            | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
|  | 7/23/2013                            | 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       | N/A          |     |
|  | 11/19/2013                           | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                | Sample Date                                 | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|--|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Methylene Bromide, ug/L (CAS NO - 74-95-3) | 5/21/2014                                   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|  | 6/24/2014                                   | 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          |     |
|  | 11/10/2014                                  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|  | 5/4/2015                                    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|  | 11/10/2015                                  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/5/2016                                    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/7/2016                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/16/2017                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/7/2017                                   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/14/2018                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/7/2018                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/15/2019                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/19/2019                                  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/27/2020                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/18/2020                                  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/13/2021                                   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/23/2021                                  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/23/2022                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/15/2022                                  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/22/2023                                   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 11/30/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | N/A          |     |
|  | 11/30/2023                                  | 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          |     |
|  | 5/22/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|  | 5/22/2024                                   | 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       | N/A          |     |
|  | 9/12/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | N/A       | N/A       | <1        | N/A          |     |
|  | 9/12/2024                                   | 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          |     |
|  | Methylene Chloride, ug/L (CAS NO - 75-09-2) | 3/17/2009  | <5        | N/A         | <5           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <5        | N/A          | <5  |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | <5        | <5        | N/A       | N/A          | N/A |
|  |   | 10/27/2009 | N/A       | <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 |
|  |   | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <5        | N/A       | N/A       | N/A       | N/A          | N/A |
|  |   | 1/13/2011  | N/A       | N/A         | N/A          | N/A       | <5        | <5        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|  |   | 4/28/2011  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
| 5/13/2013                                  |   | <5         | N/A       | N/A         | N/A          | <5        | N/A       | N/A       | N/A       | <5         | <5        | <5        | N/A       | N/A       | <5           |     |
| 5/14/2013                                  |   | N/A        | <5        | N/A         | N/A          | N/A       | <5        | N/A       | <5        | N/A        | N/A       | N/A       | <5        | N/A       | N/A          |     |
| 7/23/2013                                  |   | N/A        | N/A       | <5          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/19/2013                                 |   | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 5/21/2014                                  |   | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 6/24/2014                                  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/10/2014                                 |   | <5         | <5        | N/A         | N/A          | <5        | <5        | N/A       | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 5/4/2015                                   |   | <5         | <5        | <5          | N/A          | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | N/A       | <5           |     |
| 11/10/2015                                 |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/5/2016                                   |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/7/2016                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/16/2017                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/7/2017                                  |   | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | N/A       | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/14/2018                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/7/2018                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/15/2019                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/19/2019                                 |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/27/2020                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/18/2020                                 |   | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/13/2021                                  |   | N/A        | <5        | N/A         | N/A          | N/A       | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/23/2021                                 |   | N/A        | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/23/2022                                  |   | <5         | <5        | <5          | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 11/15/2022                                 |   | N/A        | <5        | N/A         | N/A          | N/A       | N/A       | N/A       | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |
| 5/22/2023                                  |   | <5         | <5        | N/A         | <5           | <5        | <5        | <5        | <5        | <5         | <5        | <5        | <5        | <5        | <5           |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                 | Sample Date                                 | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Methylene Chloride, ug/L (CAS NO - 75-09-2) | 11/30/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | < 5       | < 5       | N/A          |     |
|   | 11/30/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/22/2024                                   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          |     |
|   | 5/22/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 9/12/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | < 5       | < 5       | N/A          |     |
|   | 9/12/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| Styrene, ug/L (CAS NO - 100-42-5)           | 3/17/2009                                   | < 1        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 1       | N/A       | < 1          |     |
|   | 7/10/2009                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | N/A          |     |
|   | 10/27/2009                                  | N/A        | < 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          |     |
|   | 4/28/2010                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 1/13/2011                                   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 4/28/2011                                   | 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          |     |
|   | 5/13/2013                                   | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |     |
|   | 5/14/2013                                   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |     |
|   | 7/23/2013                                   | 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       | N/A          |     |
|   | 11/19/2013                                  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |     |
|   | 5/21/2014                                   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |     |
|   | 6/24/2014                                   | 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          |     |
|   | 11/10/2014                                  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |     |
|   | 5/4/2015                                    | < 1        | < 1       | < 1         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |     |
|   | 11/10/2015                                  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/5/2016                                    | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/7/2016                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/16/2017                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/7/2017                                   | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/14/2018                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/7/2018                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/15/2019                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/19/2019                                  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/27/2020                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/18/2020                                  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/13/2021                                   | N/A        | < 1       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/23/2021                                  | N/A        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/23/2022                                   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/15/2022                                  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/22/2023                                   | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 11/30/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1       | N/A       | N/A       | < 1       | < 1          | N/A |
|   | 11/30/2023                                  | 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          | N/A |
|   | 5/22/2024                                   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/22/2024                                   | N/A        | 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          |     |
|   | 9/12/2024                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | < 1       | < 1       | N/A          |     |
|   | 9/12/2024                                   | 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       | N/A          |     |
|   | Tetrachloroethene, ug/L (CAS NO - 127-18-4) | 3/17/2009  | < 1       | N/A         | < 1          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          | < 1 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.15      | < 1       | < 1       | N/A       | N/A          | N/A |
|   |   | 10/27/2009 | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
|   |   | 10/28/2009 | 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          | N/A |
| 4/28/2010                                   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 1       | < 1        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 7/28/2010                                   |   | N/A        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 10/28/2010                                  |   | 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       | N/A          |     |
| 1/13/2011                                   |   | N/A        | N/A       | < 1         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                   |   | 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          |     |
| 10/26/2011                                  |   | N/A        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/11/2012                                   |   | 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       | N/A          |     |
| 5/9/2012                                    |   | 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       | N/A          |     |
| 11/6/2012                                   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.13      | N/A       | N/A       | N/A       | N/A          |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                 | Sample Date                       | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|-----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Tetrachloroethene, ug/L (CAS NO - 127-18-4) | 5/13/2013                         | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
|   | 5/14/2013                         | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
|   | 7/23/2013                         | 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       | N/A          |     |
|   | 11/19/2013                        | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 5/21/2014                         | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 6/24/2014                         | 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          |     |
|   | 11/10/2014                        | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 5/4/2015                          | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 11/10/2015                        | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/5/2016                          | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2016                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/16/2017                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2017                         | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/14/2018                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2018                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/15/2019                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/19/2019                        | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/27/2020                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/18/2020                        | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/13/2021                         | N/A        | <1        | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/23/2021                        | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/23/2022                         | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/15/2022                        | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2023                         | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/30/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|   | 11/30/2023                        | 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       | N/A          |     |
|   | 5/22/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2024                         | 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       | N/A          |     |
|   | 9/12/2024                         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|   | 9/12/2024                         | 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       | N/A          |     |
|   | Toluene, ug/L (CAS NO - 108-88-3) | 3/17/2009  | <1        | N/A         | <1           | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | <1        | N/A          | <1  |
|   |                                   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <1        | <1        | <1        | N/A       | N/A          | N/A |
|   |                                   | 10/27/2009 | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A |
| 4/28/2010                                   |                                   | 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       | N/A          |     |
| 1/13/2011                                   |                                   | N/A        | N/A       | N/A         | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                   |                                   | 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          |     |
| 5/13/2013                                   |                                   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
| 5/14/2013                                   |                                   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
| 7/23/2013                                   |                                   | 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       | N/A          |     |
| 11/19/2013                                  |                                   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/21/2014                                   |                                   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 6/24/2014                                   |                                   | 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          |     |
| 11/10/2014                                  |                                   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 5/4/2015                                    |                                   | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
| 11/10/2015                                  |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/5/2016                                    |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2016                                   |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/16/2017                                   |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2017                                   |                                   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/14/2018                                   |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/7/2018                                   |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/15/2019                                   |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/19/2019                                  |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/27/2020                                   |                                   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 11/18/2020                                  |                                   | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
| 5/13/2021                                   |                                   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                           | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Toluene, ug/L (CAS NO - 108-88-3)                     | 11/23/2021  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/23/2022   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/15/2022  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2023   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        | N/A          |     |
|   | 11/30/2023  | 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       | N/A          |     |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | <1        | 7.72      | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2024   | N/A        | 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          |     |
|   | 9/12/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | N/A       | <1        | <1           | N/A |
|   | 9/12/2024   | 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       | N/A          |     |
| trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)    | 3/17/2009   | <1         | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <1        | N/A       | <1           |     |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.45      | <1        | N/A       | N/A       | N/A          |     |
|   | 10/27/2009  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 10/28/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.58      | N/A       | N/A       | N/A       | N/A          |     |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | N/A        | 1.33      | N/A       | N/A       | N/A       | N/A          |     |
|   | 7/28/2010   | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.83      | N/A       | N/A       | N/A       | N/A          |     |
|   | 10/28/2010  | 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       | N/A          |     |
|   | 1/13/2011   | N/A        | N/A       | <1          | N/A          | <1        | <1        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 4/28/2011   | 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          |     |
|   | 10/26/2011  | N/A        | N/A       | <1          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.72      | N/A       | N/A       | N/A       | N/A          |     |
|   | 1/11/2012   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.07      | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/9/2012    | 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       | N/A          |     |
|   | 11/6/2012   | 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       | N/A          |     |
|   | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |     |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |     |
|   | 7/23/2013   | 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       | N/A          |     |
|   | 11/19/2013  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 5/21/2014   | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | N/A       | <1           |     |
|   | 6/24/2014   | 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          |     |
|   | 11/10/2014  | <1         | <1        | N/A         | N/A          | <1        | <1        | N/A       | <1        | N/A        | 1.46      | <1        | <1        | <1        | N/A          |     |
|   | 5/4/2015    | <1         | <1        | <1          | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | N/A          |     |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/5/2016    | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2016   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/16/2017   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2017   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | N/A       | <1         | 1.18      | <1        | <1        | <1        | <1           |     |
|   | 5/14/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/7/2018   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/15/2019   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/19/2019  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/27/2020   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/18/2020  | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/13/2021   | N/A        | <1        | N/A         | N/A          | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/23/2021  | N/A        | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | 1.35      | <1        | <1        | <1        | <1           |     |
|   | 1/31/2022   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.25      | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/23/2022   | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 11/15/2022  | N/A        | <1        | N/A         | N/A          | N/A       | N/A       | N/A       | <1        | <1         | <1        | <1        | <1        | <1        | <1           |     |
|   | 5/22/2023   | <1         | <1        | N/A         | <1           | <1        | <1        | <1        | <1        | <1         | 1.03      | <1        | <1        | <1        | <1           |     |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.76      | N/A       | N/A       | <1        | <1           |     |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 1.22      | N/A       | N/A       | N/A       | N/A          |     |
| 5/22/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | <1        | <1        | <1        | <1        | 1.08       | <1        | <1        | <1        | <1        |              |     |
| 5/22/2024   | N/A         | 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       |              |     |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        |              |     |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <1         | N/A       | N/A       | <1        | <1        |              |     |
| trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6) | 3/17/2009   | <5         | N/A       | <5          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | <5        | N/A       | <5           |     |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <5         | <5        | <5        | N/A       | N/A       | N/A          |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                           | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6) | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013   | < 5        | N/A       | N/A         | N/A          | < 5       | N/A       | N/A       | N/A       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |      |
|   | 5/14/2013   | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | < 5        | N/A       | N/A       | N/A       | < 5       | N/A          | N/A  |
|   | 7/23/2013   | N/A        | N/A       | < 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  |
|   | 11/19/2013  | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | N/A          | < 5  |
|   | 5/21/2014   | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | N/A          | < 5  |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 11/10/2014  | < 5        | < 5       | N/A         | N/A          | < 5       | < 5       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | N/A          | < 5  |
|   | 5/4/2015    | < 5        | < 5       | < 5         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | N/A          | < 5  |
|   | 11/10/2015  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          | < 1  |
|   | 5/5/2016    | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/7/2016   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/16/2017   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/7/2017   | < 5        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | N/A       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/14/2018   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/7/2018   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/15/2019   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/19/2019  | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/27/2020   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/18/2020  | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/13/2021   | N/A        | < 5       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/23/2021  | N/A        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/23/2022   | < 5        | < 5       | < 5         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/15/2022  | N/A        | < 5       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/22/2023   | < 5        | < 5       | N/A         | < 5          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | N/A       | N/A       | < 5       | N/A          | N/A  |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | < 5       | < 5       | < 5          | < 5  |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | < 5       | < 5       | N/A          |      |
| 9/12/2024   | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 5        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6) | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|   | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013   | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |      |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | < 10      | N/A          | N/A  |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 11/19/2013  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         | < 10 |
|   | 5/21/2014   | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         | < 10 |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 11/10/2014  | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | N/A          | < 10 |
|   | 5/4/2015    | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | N/A          | < 10 |
|   | 11/10/2015  | < 2        | < 2       | < 2         | < 2          | < 2       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | < 2       | < 2       | < 2          | < 2  |
|   | 5/5/2016    | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 11/7/2016   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 5/16/2017   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 11/7/2017   | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | N/A       | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 5/14/2018   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 11/7/2018   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 5/15/2019   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |



# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                           | Sample Date                              | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6) | 11/19/2019                               | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 5/27/2020                                | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 11/18/2020                               | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 5/13/2021                                | N/A        | < 10      | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 11/23/2021                               | N/A        | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 5/23/2022                                | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 11/15/2022                               | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 5/22/2023                                | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |      |
|   | 11/30/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 5/22/2024                                | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         | < 10 |
|   | 5/22/2024                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 9/12/2024                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | < 10      | < 10         | N/A  |
|   | 9/12/2024                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | Trichloroethene, ug/L (CAS NO - 79-01-6) | 3/17/2009  | < 1       | N/A         | < 1          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          | < 1  |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1       | < 1       | < 1       | N/A       | N/A          | N/A  |
|   |  | 10/27/2009 | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   |  | 4/28/2010  | N/A       | 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  |
| 7/28/2010   |  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |  | 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          |      |
| 5/13/2013   |  | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
| 5/14/2013   |  | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |      |
| 7/23/2013   |  | 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       | N/A          |      |
| 11/19/2013  |  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |      |
| 5/21/2014   |  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |      |
| 6/24/2014   |  | 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          |      |
| 11/10/2014  |  | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |      |
| 5/4/2015  |  | < 1        | < 1       | < 1         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |      |
| 11/10/2015  |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/5/2016  |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/7/2016   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/16/2017   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/7/2017   |  | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/14/2018   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/7/2018   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/15/2019   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/19/2019  |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/27/2020   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/18/2020  |  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/13/2021   |  | N/A        | < 1       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/23/2021  |  | N/A        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/23/2022   |  | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/15/2022  |  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 5/22/2023   |  | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |      |
| 11/30/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | < 1       | < 1       | N/A          |      |
| 11/30/2023  | 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       | N/A       |              |      |
| 5/22/2024   | N/A                                      | N/A        | N/A       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       |              |      |
| 5/22/2024   | N/A                                      | 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       |              |      |
| 9/12/2024   | N/A                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | < 1       | < 1       | N/A          |      |
| 9/12/2024   | 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       | N/A          |      |
| Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)       | 3/17/2009                                | < 4        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 4       | N/A       | < 4          |      |
|   | 7/10/2009                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | < 4       | < 4       | N/A       | N/A       | N/A          |      |
|   | 10/27/2009                               | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents                     | Sample Date                             | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Trichlorofluoromethane, ug/L (CAS NO - 75-69-4) | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/13/2013                               | < 4        | N/A       | N/A         | N/A          | < 4       | N/A       | N/A       | N/A       | < 4        | < 4       | < 4       | N/A       | N/A       | < 4          |     |
|   | 5/14/2013                               | N/A        | < 4       | N/A         | N/A          | N/A       | < 4       | N/A       | < 4       | N/A        | N/A       | N/A       | < 4       | N/A       | N/A          |     |
|   | 7/23/2013                               | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 11/19/2013                              | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |     |
|   | 5/21/2014                               | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |     |
|   | 6/24/2014                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 11/10/2014                              | < 4        | < 4       | N/A         | N/A          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |     |
|   | 5/4/2015                                | < 4        | < 4       | < 4         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | N/A       | < 4          |     |
|   | 11/10/2015                              | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
|   | 5/5/2016                                | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/7/2016                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/16/2017                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/7/2017                               | < 4        | < 4       | N/A         | < 4          | < 4       | < 4       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/14/2018                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/7/2018                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/15/2019                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/19/2019                              | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/27/2020                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/18/2020                              | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/13/2021                               | N/A        | < 4       | N/A         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/23/2021                              | N/A        | < 4       | N/A         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/23/2022                               | < 4        | < 4       | < 4         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/15/2022                              | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/22/2023                               | < 4        | < 4       | N/A         | < 4          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 11/30/2023                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | < 4       | N/A          |     |
|   | 5/22/2024                               | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | < 4       | < 4       | < 4          |     |
|   | 5/22/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 9/12/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | < 4       | N/A          |     |
|   | 9/12/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 4       | N/A       | N/A       | N/A       | N/A          |     |
|   | Vinyl Acetate, ug/L (CAS NO - 108-05-4) | 3/17/2009  | < 2       | N/A         | < 2          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 2 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 2       | < 2       | N/A       | N/A          | N/A |
| 10/27/2009                                      |   | N/A        | < 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          |     |
| 4/28/2010                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 2       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/13/2011                                       |   | N/A        | N/A       | N/A         | N/A          | < 2       | < 2       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/13/2013                                       |   | < 2        | N/A       | N/A         | N/A          | < 2       | N/A       | N/A       | N/A       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |     |
| 5/14/2013                                       |   | N/A        | < 2       | N/A         | N/A          | N/A       | < 2       | N/A       | < 2       | N/A        | N/A       | N/A       | < 2       | N/A       | N/A          |     |
| 7/23/2013                                       |   | 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       | N/A          |     |
| 11/19/2013                                      |   | < 2        | < 2       | N/A         | N/A          | < 2       | < 2       | N/A       | < 2       | < 2        | < 2       | < 2       | < 2       | N/A       | < 2          |     |
| 5/21/2014                                       |   | < 2        | < 2       | N/A         | N/A          | < 2       | < 2       | N/A       | < 2       | < 2        | < 2       | < 2       | < 2       | N/A       | < 2          |     |
| 6/24/2014                                       |   | N/A        | 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          |     |
| 11/10/2014                                      |   | < 10       | < 10      | N/A         | N/A          | < 10      | < 10      | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |     |
| 5/4/2015  |   | < 10       | < 10      | < 10        | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | N/A       | < 10         |     |
| 11/10/2015                                      |   | < 2        | < 2       | < 2         | < 2          | < 2       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | < 2       | < 2       | < 2          |     |
| 5/5/2016  |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 11/7/2016                                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 5/16/2017                                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 11/7/2017                                       |   | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | N/A       | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 5/14/2018                                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 11/7/2018                                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 5/15/2019                                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 11/19/2019                                      |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 5/27/2020                                       |   | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
| 11/18/2020                                      |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents               | Sample Date                             | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |     |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-----|
| Vinyl Acetate, ug/L (CAS NO - 108-05-4)   | 5/13/2021                               | N/A        | < 10      | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
|   | 11/23/2021                              | N/A        | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
|   | 5/23/2022                               | < 10       | < 10      | < 10        | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
|   | 11/15/2022                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
|   | 5/22/2023                               | < 10       | < 10      | N/A         | < 10         | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
|   | 11/30/2023                              | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 5/22/2024                               | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | < 10      | < 10      | < 10         |     |
|   | 5/22/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | 9/12/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | < 10      | < 10      | N/A          |     |
|   | 9/12/2024                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
|   | Vinyl Chloride, ug/L (CAS NO - 75-01-4) | 3/17/2009  | < 1       | N/A         | < 1          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          | < 1 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | 2.32      | < 1       | < 1       | N/A       | N/A          | N/A |
| 10/27/2009                                |   | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 10/28/2009                                |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 3.15       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2010                                 |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 1       | 2.76       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 7/28/2010                                 |   | N/A        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | 3.44       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 10/28/2010                                |   | 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       | N/A          |     |
| 1/13/2011                                 |   | N/A        | N/A       | < 1         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 4/28/2011                                 |   | 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          |     |
| 10/26/2011                                |   | N/A        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | 2.29       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 1/11/2012                                 |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 1.08       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/9/2012                                  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 1.09       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 11/6/2012                                 |   | 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       | N/A          |     |
| 5/13/2013                                 |   | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |     |
| 5/14/2013                                 |   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |     |
| 7/23/2013                                 |   | 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       | N/A          |     |
| 11/19/2013                                |   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |     |
| 5/21/2014                                 |   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | < 1        | < 1       | < 1       | < 1       | N/A       | < 1          |     |
| 6/24/2014                                 |   | 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          |     |
| 11/10/2014                                |   | < 1        | < 1       | N/A         | N/A          | < 1       | < 1       | N/A       | < 1       | 2.47       | < 1       | < 1       | < 1       | N/A       | < 1          |     |
| 5/4/2015                                  |   | < 1        | < 1       | < 1         | N/A          | < 1       | < 1       | < 1       | < 1       | 1.59       | < 1       | < 1       | < 1       | N/A       | < 1          |     |
| 11/10/2015                                |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/5/2016                                  |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/7/2016                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/16/2017                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/7/2017                                 |   | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | N/A       | < 1       | 2.91       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/14/2018                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/7/2018                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | 1.33       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/15/2019                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/19/2019                                |   | < 2        | < 2       | < 2         | < 2          | < 2       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | < 2       | < 2       | < 2          |     |
| 5/27/2020                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | 2.55       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/18/2020                                |   | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | 2.01       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/13/2021                                 |   | N/A        | < 1       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | 1.38       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/23/2021                                |   | N/A        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | 5.43       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/23/2022                                 |   | < 1        | < 1       | < 1         | < 1          | < 1       | < 1       | < 1       | < 1       | 5.17       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/15/2022                                |   | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | < 1       | < 1       | 3.46       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/22/2023                                 |   | < 1        | < 1       | N/A         | < 1          | < 1       | < 1       | < 1       | < 1       | 4.63       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 11/30/2023                                |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | N/A       | N/A       | < 1       | < 1       | N/A          |     |
| 11/30/2023                                |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 7.35       | N/A       | N/A       | N/A       | N/A       | N/A          |     |
| 5/22/2024                                 |   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | < 1       | < 1       | 5.71       | < 1       | < 1       | < 1       | < 1       | < 1          |     |
| 5/22/2024                                 |   | N/A        | 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          |     |
| 9/12/2024                                 |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | 7.43       | N/A       | N/A       | < 1       | < 1       | N/A          |     |
| 9/12/2024                                 | N/A                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | 8.22      | N/A        | N/A       | N/A       | N/A       | N/A       |              |     |
| Xylenes, total, ug/L (CAS NO - 1330-20-7) | 3/17/2009                               | < 3        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 3       | N/A       | < 3          |     |
|   | 7/10/2009                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 3        | < 3       | < 3       | N/A       | N/A       |              |     |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Appendix I VOC Constituents               | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Xylenes, total, ug/L (CAS NO - 1330-20-7) | 10/27/2009  | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | <3        | <3        | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013   | <3         | N/A       | N/A         | N/A          | N/A       | <3        | N/A       | N/A       | <3         | <3        | <3        | N/A       | N/A       | <3           |
|   | 5/14/2013   | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | <3        | N/A       | <3         | N/A       | N/A       | N/A       | <3        | N/A          |
|   | 7/23/2013   | N/A        | N/A       | <3          | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/19/2013  | <3         | <3        | N/A         | N/A          | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |
|   | 5/21/2014   | <3         | <3        | N/A         | N/A          | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 11/10/2014  | <3         | <3        | N/A         | N/A          | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |
|   | 5/4/2015    | <3         | <3        | <3          | N/A          | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | N/A       | <3           |
|   | 11/10/2015  | <1         | <1        | <1          | <1           | <1        | <1        | <1        | <1        | <1         | <1        | <1        | <1        | <1        | <1           |
|   | 5/5/2016    | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/7/2016   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/16/2017   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/7/2017   | <3         | <3        | N/A         | <3           | <3        | <3        | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/14/2018   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/7/2018   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/15/2019   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/19/2019  | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/27/2020   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/18/2020  | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/13/2021   | N/A        | <3        | N/A         | N/A          | N/A       | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/23/2021  | N/A        | <3        | N/A         | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/23/2022   | <3         | <3        | <3          | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/15/2022  | N/A        | <3        | N/A         | N/A          | N/A       | N/A       | N/A       | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/22/2023   | <3         | <3        | N/A         | <3           | <3        | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <3        | N/A       | N/A       | <3        | N/A          |
|   | 11/30/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | <3        | N/A       | N/A       | N/A       | N/A          |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | <3        | <3        | <3        | <3         | <3        | <3        | <3        | <3        | <3           |
|   | 5/22/2024   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       | N/A          |
| 9/12/2024                                 | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | <3        | N/A       |              |
| 9/12/2024                                 | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | <3         | N/A       | N/A       | N/A       | N/A       |              |
| M&P-Xylene, ug/L (CAS NO - 179601-23-1)   | 5/13/2013   | <2         | N/A       | N/A         | N/A          | <2        | N/A       | N/A       | N/A       | <2         | <2        | <2        | N/A       | N/A       | <2           |
|   | 5/14/2013   | N/A        | <2        | N/A         | N/A          | N/A       | <2        | N/A       | <2        | N/A        | N/A       | N/A       | <2        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 6/24/2014   | N/A        | 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          |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <2        | <2        | <2         | <2        | <2        | N/A       | N/A       | <2           |
| 5/22/2023                                 | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | <2        | <2        | <2        | <2         | <2        | N/A       | N/A       | <2        |              |
| O-Xylene, ug/L (CAS NO - 95-47-6)         | 5/13/2013   | <1         | N/A       | N/A         | N/A          | <1        | N/A       | N/A       | N/A       | <1         | <1        | <1        | N/A       | N/A       | <1           |
|   | 5/14/2013   | N/A        | <1        | N/A         | N/A          | N/A       | <1        | N/A       | <1        | N/A        | N/A       | N/A       | <1        | N/A       | N/A          |
|   | 7/23/2013   | 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       | N/A          |
|   | 6/24/2014   | 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          |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | <1        | <1        | <1         | <1        | <1        | N/A       | N/A       | <1           |
| 5/22/2023                                 | N/A         | N/A        | N/A       | N/A         | N/A          | N/A       | <1        | <1        | <1        | <1         | <1        | N/A       | N/A       | <1        |              |

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.

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date   | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)    | 3/17/2009   | < 1        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 1       | N/A       | < 1          |      |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | N/A          |      |
|  | 10/27/2009  | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010   | N/A        | 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          |      |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011   | 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          |      |
|  | 5/13/2013   | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
|  | 5/14/2013   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |      |
|  | 7/23/2013   | 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       | N/A          |      |
|  | 6/24/2014   | 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          |      |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
|  | 1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37.7       |      |
| 1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1) |   | 3/17/2009  | < 5       | N/A         | < 5          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 5       | N/A          | < 5  |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | < 5       | < 5       | N/A       | N/A          | N/A  |
|  |   | 10/27/2009 | N/A       | < 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  |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013   | < 5        | N/A       | N/A         | N/A          | < 5       | N/A       | N/A       | N/A       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |      |
|  | 5/14/2013   | N/A        | < 5       | N/A         | N/A          | N/A       | < 5       | N/A       | < 5       | N/A        | N/A       | N/A       | < 5       | N/A       | N/A          |      |
|  | 7/23/2013   | N/A        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |      |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |      |
|  | 1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)      | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37.7       |      |
| 1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)    |   | 3/17/2009  | < 1       | N/A         | < 1          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          | < 1  |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1       | < 1       | < 1       | N/A       | N/A          | N/A  |
|  |   | 10/27/2009 | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|  | 4/28/2010   | N/A        | 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          |      |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011   | 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          |      |
|  | 5/13/2013   | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
|  | 5/14/2013   | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                            | Sample Date                                    | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| 1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1) | 7/23/2013                                      | 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       | N/A          |
|   | 6/24/2014                                      | 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          |
|   | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
|   | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | N/A       | N/A       | N/A       | < 1          |
| 1,3-Dichloropropane, ug/L (CAS NO - 142-28-9) | 3/17/2009                                      | < 1        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 1       | N/A       | < 1          |
|   | 7/10/2009                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1       | < 1       | < 1       | N/A       | N/A          |
|   | 10/27/2009                                     | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                                      | N/A        | 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          |
|   | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                                      | 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          |
|   | 5/13/2013                                      | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
|   | 5/14/2013                                      | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          |
|   | 7/23/2013                                      | 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       | N/A          |
|   | 6/24/2014                                      | 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          |
|   | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |
|   | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | N/A       | N/A       | N/A       | < 1          |
|   | 1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)    | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |
| 10/27/2009                                    |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013                                     |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
| 5/14/2013                                     |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | < 10.1    | N/A          |
| 7/23/2013                                     |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |
| 1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)  |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
|   | 7/10/2009                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |
|   | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|   | 5/14/2013                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | < 10.1    | N/A          |
|   | 7/23/2013                                      | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|   | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |
|   | 1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |
| 10/27/2009                                    |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013                                     |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
| 5/14/2013                                     |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | < 10.1    | N/A          |
| 7/23/2013                                     |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |
| 1-Naphthylamine, ug/L (CAS NO - 134-32-7)     |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
|   | 7/10/2009                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |
|   | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                            | Sample Date  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |       |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-------|
| 1-Naphthylamine, ug/L (CAS NO - 134-32-7)     | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |       |
|   | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |       |
|   | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |       |
|   | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |       |
| 2,2-Dichloropropane, ug/L (CAS NO - 594-20-7) | 3/17/2009  | < 4        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 4       | N/A       | < 4          |       |
|   | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 4        | < 4       | < 4       | N/A       | N/A       | N/A          |       |
|   | 10/27/2009   | N/A        | < 4       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/13/2013  | < 4        | N/A       | N/A         | N/A          | < 4       | N/A       | N/A       | N/A       | < 4        | < 4       | < 4       | N/A       | N/A       | < 4          |       |
|   | 5/14/2013  | N/A        | < 4       | N/A         | N/A          | N/A       | < 4       | N/A       | < 4       | N/A        | N/A       | N/A       | < 4       | N/A       | N/A          |       |
|   | 7/23/2013  | N/A        | N/A       | < 4         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 4       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 4       | < 4       | < 4       | < 4        | < 4       | < 4       | N/A       | N/A       | < 4          |       |
|   | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 4       | < 4       | < 4       | < 4        | < 4       | N/A       | N/A       | N/A       | < 4          |       |
|   | 2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10  |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A   |
| 10/27/2009                                    |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2010                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2011                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/13/2013                                     |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |       |
| 5/14/2013                                     |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |       |
| 7/23/2013                                     |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 6/24/2014                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/14/2018                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |       |
| 5/22/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |       |
| 2,4,5-T [2C], ug/L (CAS NO - 93-76-5)         |  | 3/17/2009  | < 0.2     | N/A         | < 0.2        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 0.2 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.2     | < 0.27    | < 0.2     | N/A       | N/A          | N/A   |
|   | 10/27/2009   | 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          |       |
|   | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.5     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 0.5     | < 0.5     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.52    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/13/2013  | < 1.02     | N/A       | N/A         | N/A          | < 1.02    | N/A       | N/A       | N/A       | < 1.02     | < 1.03    | < 1.04    | N/A       | N/A       | < 1.01       |       |
|   | 5/14/2013  | N/A        | < 1.02    | N/A         | N/A          | N/A       | < 1.02    | N/A       | < 1.02    | N/A        | N/A       | N/A       | < 1.01    | N/A       | N/A          |       |
|   | 7/23/2013  | N/A        | N/A       | < 1.03      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 1.01    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 1.01    | < 1.02    | < 1.01    | < 1        | < 1.01    | < 1.02    | N/A       | N/A       | < 1.01       |       |
|   | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.957   | < 0.975   | < 0.957   | < 0.962    | < 0.958   | N/A       | N/A       | N/A       | < 0.958      |       |
|   | 2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)    | 3/17/2009  | < 0.2     | N/A         | < 0.2        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 0.2 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.2     | < 0.27    | < 0.2     | N/A       | N/A          | N/A   |
| 10/27/2009                                    |  | 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          |       |
| 4/28/2010                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.5     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | < 0.5     | < 0.5     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2011                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.52    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/13/2013                                     |  | < 1.02     | N/A       | N/A         | N/A          | < 1.02    | N/A       | N/A       | N/A       | < 1.02     | < 1.03    | < 1.04    | N/A       | N/A       | < 1.01       |       |
| 5/14/2013                                     |  | N/A        | < 1.02    | N/A         | N/A          | N/A       | < 1.02    | N/A       | < 1.02    | N/A        | N/A       | N/A       | < 1.01    | N/A       | N/A          |       |
| 7/23/2013                                     |  | N/A        | N/A       | < 1.03      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 6/24/2014                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 1.01    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/14/2018                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 1.01    | < 1.02    | < 1.01    | < 1        | < 1.01    | < 1.02    | N/A       | N/A       | < 1.01       |       |
| 5/22/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.957   | < 0.975   | < 0.957   | < 0.962    | < 0.958   | N/A       | N/A       | N/A       | < 0.958      |       |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                             | Sample Date                                    | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| 2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4) | 3/17/2009                                      | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|  | 7/10/2009                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|  | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013                                      | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
|  | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |        |
|  | 2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A    |
| 10/27/2009                                     |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011                                      |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013                                      |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
| 5/14/2013                                      |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013                                      |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |        |
| 2,4-D [2C], ug/L (CAS NO - 94-75-7)            |  | 3/17/2009  | < 0.99    | N/A         | < 0.99       | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 0.99 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1       | < 1.4     | < 1       | N/A       | N/A          | N/A    |
|  | 10/27/2009                                     | N/A        | < 0.99    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                      | N/A        | 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          |        |
|  | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                      | 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          |        |
|  | 5/13/2013                                      | < 1.02     | N/A       | N/A         | N/A          | < 1.02    | N/A       | N/A       | N/A       | < 1.02     | < 1.03    | < 1.04    | N/A       | N/A       | < 1.01       |        |
|  | 5/14/2013                                      | N/A        | < 1.02    | N/A         | N/A          | N/A       | < 1.02    | N/A       | < 1.02    | N/A        | N/A       | N/A       | < 1.01    | N/A       | N/A          |        |
|  | 7/23/2013                                      | N/A        | N/A       | < 1.03      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 1.01    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 1.01    | < 1.02    | < 1.01    | < 1        | < 1.01    | < 1.02    | N/A       | N/A       | < 1.01       |        |
|  | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.957   | < 0.975   | < 0.957   | < 0.962    | < 0.958   | N/A       | N/A       | N/A       | < 0.958      |        |
|  | 2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A    |
| 10/27/2009                                     |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011                                      |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013                                      |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
| 5/14/2013                                      |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013                                      |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023                                      |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |        |
| 2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)   |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A    |
|  | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |



# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                    | Sample Date   | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| <b>2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)</b>   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | < 10.1       |      |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 37.7    | < 42.6    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|   | 3/17/2009   | < 20       | N/A       | < 20        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 20      | N/A       | < 20         |      |
| <b>2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)</b>     | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 20      | < 20      | < 20      | N/A       | N/A          |      |
|   | 10/27/2009  | N/A        | < 20      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 20      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | < 20      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013   | < 20.2     | N/A       | N/A         | N/A          | < 20      | N/A       | N/A       | N/A       | < 20.2     | < 20      | < 20.2    | N/A       | N/A       | < 20         |      |
|   | 5/14/2013   | N/A        | < 20      | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | < 20       | N/A       | N/A       | N/A       | < 20.2    | N/A          |      |
|   | 7/23/2013   | N/A        | N/A       | < 20        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20.2    | < 20.2    | < 20.2     | < 20.2    | < 20.2    | < 20.2    | N/A       | < 20.2       |      |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 75.5    | < 85.1    | < 75.5     | < 75.5    | < 75.5    | N/A       | N/A       | < 74.1       |      |
|   | <b>2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)</b> | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 10      | < 10      | < 10      | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   |   | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013   |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013   |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | < 10       | N/A       | N/A       | N/A       | < 10.1    | N/A          |      |
| 7/23/2013   |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | < 10.1       |      |
| 5/22/2023   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 37.7    | < 42.6    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| <b>2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)</b>    |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 10      | < 10      | < 10      | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | < 10       | N/A       | N/A       | N/A       | < 10.1    | N/A          |      |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | < 10.1       |      |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 37.7    | < 42.6    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|   | <b>2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)</b> | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 10      | < 10      | < 10      | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013   |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013   |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | < 10       | N/A       | N/A       | N/A       | < 10.1    | N/A          |      |
| 7/23/2013   |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | < 10.1       |      |
| 5/22/2023   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 37.7    | < 42.6    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| <b>2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)</b> |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 10      | < 10      | < 10      | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                             | Sample Date                             | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3) | 1/13/2011                               | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013                               | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013                               | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013                               | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| 2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)   | 3/17/2009                               | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|  | 7/10/2009                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|  | 10/27/2009                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011                               | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013                               | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013                               | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013                               | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | 2-Chlorophenol, ug/L (CAS NO - 95-57-8) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                                     |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                      |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                      |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013                                      |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013                                      |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| 2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)   |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011                               | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013                               | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013                               | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013                               | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | 2-Methylphenol, ug/L (CAS NO - 95-48-7) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                                     |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                      |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                      |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013                                      |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013                                      |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                              | Sample Date                                    | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 2-Naphthylamine, ug/L (CAS NO - 91-59-8)        | 3/17/2009                                      | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|   | 7/10/2009                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|   | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                                      | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|   | 2-Nitroaniline, ug/L (CAS NO - 88-74-4)        | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                                      |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                       |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                       |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013                                       |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| 2-Nitrophenol, ug/L (CAS NO - 88-75-5)          |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                                      | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|   | 3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1) | 3/17/2009  | < 85      | N/A         | < 85         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 85      | N/A          | < 85 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                                      |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                       |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                       |  | < 50.5     | N/A       | N/A         | N/A          | < 50      | N/A       | N/A       | N/A       | < 50.5     | < 50      | < 50.5    | N/A       | N/A       | < 50         |      |
| 5/14/2013                                       |  | N/A        | < 50      | N/A         | N/A          | N/A       | < 50      | N/A       | < 50      | N/A        | N/A       | N/A       | < 50.5    | N/A       | N/A          |      |
| 7/23/2013                                       |  | N/A        | N/A       | < 50        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 50      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                                       |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| 3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7) |  | 3/17/2009  | < 20      | N/A         | < 20         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 20      | N/A          | < 20 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 20      | < 20      | < 20      | N/A       | N/A          | N/A  |
|   | 10/27/2009                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                              | Sample Date                               | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| 3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7) | 7/23/2013                                 | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 6/24/2014                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 5/14/2018                                 | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|   | 5/22/2023                                 | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
|   | 3/17/2009                                 | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |         |
| 3/4-Methylphenol, ug/L (CAS NO - T-34MP)        | 7/10/2009                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |         |
|   | 10/27/2009                                | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 4/28/2010                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 1/13/2011                                 | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 4/28/2011                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 5/13/2013                                 | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | < 10.1    | N/A       | N/A       | < 10         |         |
|   | 5/14/2013                                 | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|   | 7/23/2013                                 | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 6/24/2014                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 5/14/2018                                 | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|   | 5/22/2023                                 | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
|   | 3-Chloropropene, ug/L (CAS NO - 107-05-1) | 3/17/2009  | < 2       | N/A         | < 2          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 2     |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 2       | < 2       | N/A       | N/A          | N/A     |
|   |   | 10/27/2009 | N/A       | < 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     |
|   |   | 4/28/2010  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 2        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A     |
| 1/13/2011                                       |   | N/A        | N/A       | N/A         | N/A          | < 2       | < 2       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013                                       |   | < 2        | N/A       | N/A         | N/A          | < 2       | N/A       | N/A       | N/A       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |         |
| 5/14/2013                                       |   | N/A        | < 2       | N/A         | N/A          | N/A       | < 2       | N/A       | < 2       | N/A        | N/A       | N/A       | < 2       | N/A       | N/A          |         |
| 7/23/2013                                       |   | 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       | N/A          |         |
| 6/24/2014                                       |   | N/A        | 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          |         |
| 5/14/2018                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |         |
| 5/22/2023                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | < 2       | < 2        | < 2       | N/A       | N/A       | N/A       | < 2          |         |
| 3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)   |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 10      | < 10      | < 10      | N/A          | N/A     |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A     |
|   | 4/28/2010                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 1/13/2011                                 | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 4/28/2011                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 5/13/2013                                 | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
|   | 5/14/2013                                 | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|   | 7/23/2013                                 | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 6/24/2014                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|   | 5/14/2018                                 | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|   | 5/22/2023                                 | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
|   | 3-Nitroaniline, ug/L (CAS NO - 99-09-2)   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | < 10      | < 10      | < 10      | N/A          | N/A     |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A     |
| 4/28/2010                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011                                       |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013                                       |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
| 5/14/2013                                       |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
| 7/23/2013                                       |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/14/2018                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
| 5/22/2023                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
| 4,4'-DDD, ug/L (CAS NO - 72-54-8)               |   | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          | < 0.032 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.032   | < 0.032   | < 0.032   | N/A       | N/A          | N/A     |
|   |   | 10/27/2009 | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A     |
|   | 4/28/2010                                 | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                   | Sample Date                              | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| 4,4'-DDD, ug/L (CAS NO - 72-54-8)                    | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013                                | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | < 0.032   | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |         |
|  | 5/14/2013                                | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |         |
|  | 7/23/2013                                | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |         |
|  | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | 0.135     | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |         |
|  | 8/10/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.0604  | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4,4'-DDE, ug/L (CAS NO - 72-55-9)                    | 3/17/2009                                | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |         |
|  | 7/10/2009                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |         |
|  | 10/27/2009                               | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013                                | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |         |
|  | 5/14/2013                                | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |         |
|  | 7/23/2013                                | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |         |
|  | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |         |
|  | 4,4'-DDT, ug/L (CAS NO - 50-29-3)        | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          | < 0.032 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.032   | < 0.032   | < 0.032   | N/A       | N/A          | N/A     |
| 10/27/2009   |  | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013  |  | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |         |
| 5/14/2013  |  | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |         |
| 7/23/2013  |  | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |         |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |         |
| 4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1) |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A     |
|  | 10/27/2009                               | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013                                | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
|  | 5/14/2013                                | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|  | 7/23/2013                                | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|  | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
|  | 4-Aminobiphenyl, ug/L (CAS NO - 92-67-1) | 3/17/2009  | < 20      | N/A         | < 20         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 20      | N/A          | < 20    |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 20      | < 20      | < 20      | N/A       | N/A          | N/A     |
| 10/27/2009   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                   | Sample Date  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)             | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| 4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3) | 3/17/2009  | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|  | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|  | 10/27/2009   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | 4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)       | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| 4-Chloroaniline, ug/L (CAS NO - 106-47-8)            |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | 4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| 4-Nitroaniline, ug/L (CAS NO - 100-01-6)             |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents  | Sample Date                                  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| 4-Nitroaniline, ug/L (CAS NO - 100-01-6)                  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| 4-Nitrophenol, ug/L (CAS NO - 100-02-7)                   | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|   | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|   | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|   | 5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009  |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013   |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013   |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013   |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| 7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6) |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|   | Acenaphthene, ug/L (CAS NO - 83-32-9)        | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009  |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013   |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013   |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013   |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| Acenaphthylene, ug/L (CAS NO - 208-96-8)                  |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                       | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|--|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| Acenaphthylene, ug/L (CAS NO - 208-96-8) | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | N/A          | < 10.1 |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | N/A          | < 37   |
| Acetonitrile, ug/L (CAS NO - 75-05-8)    | 3/17/2009   | < 10000    | N/A       | < 10000     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10000   | N/A       | < 10000      |        |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10000    | < 10000   | < 10000   | N/A       | N/A       | N/A          |        |
|  | 10/27/2009  | N/A        | < 10000   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10000   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10000   | < 10000   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10000   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013   | < 10000    | N/A       | N/A         | N/A          | < 10000   | N/A       | N/A       | N/A       | < 10000    | < 10000   | < 10000   | < 10000   | N/A       | < 10000      |        |
|  | 5/14/2013   | N/A        | < 10000   | N/A         | N/A          | N/A       | < 10000   | N/A       | < 10000   | N/A        | N/A       | N/A       | < 10000   | N/A       | N/A          |        |
|  | 7/23/2013   | N/A        | N/A       | < 10000     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10000   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| Acetophenone, ug/L (CAS NO - 98-86-2)    | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|  | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| Acrolein, ug/L (CAS NO - 107-02-8)       | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|  | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013   | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |        |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10      | N/A       | N/A          |        |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| Aldrin, ug/L (CAS NO - 309-00-2)         | 3/17/2009   | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |        |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |        |
|  | 10/27/2009  | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |        |
|  | 5/14/2013   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |        |
|  | 7/23/2013   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |



# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date                                      | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Aldrin, ug/L (CAS NO - 309-00-2)                 | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |      |
| Anthracene, ug/L (CAS NO - 120-12-7)             | 3/17/2009  | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|  | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |      |
|  | 10/27/2009                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)    | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)        |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2) |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date                              | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2) | 5/13/2013                                | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013                                | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013                                | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|  | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
| Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9) | 3/17/2009                                | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|  | 7/10/2009                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009                               | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013                                | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013                                | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013                                | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|  | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
|  | Benzyl alcohol, ug/L (CAS NO - 100-51-6) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
| 10/27/2009                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
| Alpha-BHC, ug/L (CAS NO - 319-84-6)              |  | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          |
|  | 7/10/2009                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |
|  | 10/27/2009                               | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.32    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013                                | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |
|  | 5/14/2013                                | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
|  | 7/23/2013                                | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |
|  | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | < 0.0593  | N/A       | N/A       | < 0.0593     |
|  | Beta-BHC, ug/L (CAS NO - 319-85-7)       | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          |
| 7/10/2009  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |
| 10/27/2009                                       |  | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.32    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013  |  | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |
| 5/14/2013  |  | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
| 7/23/2013  |  | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | < 0.0593  | N/A       | N/A       | < 0.0593     |
| Delta-BHC, ug/L (CAS NO - 319-86-8)              |  | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          |
|  | 7/10/2009                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                    | Sample Date                                       | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |          |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|----------|
| Delta-BHC, ug/L (CAS NO - 319-86-8)                   | 10/27/2009  | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.32    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 5/13/2013   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |          |
|   | 5/14/2013   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |          |
|   | 7/23/2013   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | < 0.0323  | N/A       | N/A          | < 0.0323 |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | N/A          | < 0.0593 |
|   | Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)      | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          | < 0.032  |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.032   | < 0.032   | < 0.032   | N/A       | N/A          | N/A      |
|   |   | 10/27/2009 | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A      |
| 4/28/2010   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.32    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 5/13/2013   |   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |          |
| 5/14/2013   |   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |          |
| 7/23/2013   |   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | < 0.0323  | N/A       | N/A          | < 0.0323 |
| 5/22/2023   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | N/A          | < 0.0593 |
| Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)  |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10     |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |          |
|   | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |          |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |          |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |          |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |          |
|   | Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10     |
| 7/10/2009   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |          |
| 10/27/2009  |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 4/28/2010   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 5/13/2013   |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |          |
| 5/14/2013   |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |          |
| 7/23/2013   |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |          |
| 5/22/2023   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |          |
| Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1) |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10     |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |          |
|   | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |          |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |          |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                    | Sample Date                                     | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1) | 5/14/2018                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)  | 3/17/2009                                       | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|   | 7/10/2009                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|   | 10/27/2009                                      | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                                       | < 10.1     | N/A       | N/A         | N/A          | N/A       | < 10      | N/A       | N/A       | N/A        | < 10.1    | < 10      | < 10.1    | N/A       | < 10         |      |
|   | 5/14/2013                                       | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | < 10.1    | N/A          |      |
|   | 7/23/2013                                       | N/A        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 6       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 6.06    | < 6.06    | < 6.06     | < 6.06    | < 6.06    | < 6.06    | N/A       | < 6.06       |      |
|   | 5/22/2023                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 22.6    | < 25.5    | < 22.6     | < 22.6    | < 22.6    | N/A       | N/A       | < 22.2       |      |
|   | Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013   |   | < 10.1     | N/A       | N/A         | N/A          | N/A       | < 10      | N/A       | N/A       | N/A        | < 10.1    | < 10      | < 10.1    | N/A       | < 10         |      |
| 5/14/2013   |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | < 10.1    | N/A          |      |
| 7/23/2013   |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | < 10.1       |      |
| 5/22/2023   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 37.7    | < 42.6    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| Chlordane, ug/L (CAS NO - 57-74-9)                    |   | 3/17/2009  | < 2       | N/A         | < 2          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 2  |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 2       | < 2       | < 2       | N/A       | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 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  |
|   | 4/28/2010                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 2       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                       | N/A        | 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          |      |
|   | 5/13/2013                                       | < 2        | N/A       | N/A         | N/A          | N/A       | < 2       | N/A       | N/A       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |      |
|   | 5/14/2013                                       | N/A        | < 2       | N/A         | N/A          | N/A       | < 2       | N/A       | < 2       | N/A        | N/A       | N/A       | < 2       | N/A       | N/A          |      |
|   | 7/23/2013                                       | 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       | N/A          |      |
|   | 6/24/2014                                       | N/A        | 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          |      |
|   | 5/14/2018                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 2.02    | < 20.2    | < 2.02     | < 2.02    | < 2.02    | < 2.02    | N/A       | < 2.02       |      |
|   | 5/22/2023                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 1.89    | < 1.85    | < 1.85     | < 1.85    | < 1.85    | N/A       | N/A       | < 1.85       |      |
|   | Chlorobenzilate, ug/L (CAS NO - 510-15-6)       | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013   |   | < 10.1     | N/A       | N/A         | N/A          | N/A       | < 10      | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013   |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013   |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | < 10.1       |      |
| 5/22/2023   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 37.7    | < 42.6    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| Chloroprene, ug/L (CAS NO - 126-99-8)                 |   | 3/17/2009  | < 1       | N/A         | < 1          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 1       | N/A          | < 1  |
|   |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1       | < 1       | < 1       | N/A       | N/A          | N/A  |
|   |   | 10/27/2009 | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 4/28/2010                                       | N/A        | 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          |      |
|   | 1/13/2011                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                                       | 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          |      |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                 | Sample Date                                      | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Chloroprene, ug/L (CAS NO - 126-99-8)              | 5/13/2013  | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
|  | 5/14/2013  | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |      |
|  | 7/23/2013  | 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       | N/A          |      |
|  | 6/24/2014  | 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          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 1       | < 1       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |      |
| Chrysene, ug/L (CAS NO - 218-01-9)                 | 3/17/2009  | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|  | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|  | 10/27/2009                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|  | Cyanide, ug/L (CAS NO - 57-12-5)                 | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | 13.1       | < 10      | < 10      | N/A       | N/A       | < 10         |      |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10      | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |      |
| Diallate [cis or trans], ug/L (CAS NO - 2303-16-4) |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
|  | Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |      |
| Dibenzofuran, ug/L (CAS NO - 132-64-9)             |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date                                | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| Dibenzofuran, ug/L (CAS NO - 132-64-9)           | 10/27/2009                                 | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013                                  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013                                  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | N/A          | < 10.1 |
|  | 5/22/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |        |
| Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8) | 3/17/2009                                  | < 3        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 3       | N/A       | 3.51         |        |
|  | 5/4/2009                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | < 3          |        |
|  | 7/10/2009                                  | N/A        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | N/A       | < 3        | < 3       | < 3       | N/A       | N/A       | N/A          |        |
|  | 10/27/2009                                 | N/A        | < 3       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                  | N/A        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | < 3       | N/A        | N/A       | N/A       | N/A       | N/A       | < 3          |        |
|  | 7/28/2010                                  | N/A        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | < 3          |        |
|  | 1/13/2011                                  | N/A        | N/A       | N/A         | N/A          | < 3       | < 3       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 3       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 10/26/2011                                 | N/A        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | < 3          |        |
|  | 1/11/2012                                  | 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          |        |
|  | 5/9/2012                                   | 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          |        |
|  | 5/13/2013                                  | < 3        | N/A       | N/A         | N/A          | < 3       | N/A       | N/A       | N/A       | < 3        | < 3       | < 3       | N/A       | N/A       | < 3          |        |
|  | 5/14/2013                                  | N/A        | < 3       | N/A         | N/A          | N/A       | < 3       | N/A       | < 3       | N/A        | N/A       | N/A       | < 3       | N/A       | N/A          |        |
|  | 7/23/2013                                  | N/A        | N/A       | < 3         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 11/19/2013                                 | < 3        | < 3       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | < 3          |        |
|  | 5/21/2014                                  | < 3        | < 3       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | < 3          |        |
|  | 6/24/2014                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 3       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 11/10/2014                                 | < 3        | 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          |        |
|  | 5/14/2018                                  | N/A        | N/A       | N/A         | N/A          | N/A       | < 3       | < 3       | < 3       | < 3        | < 3       | < 3       | N/A       | N/A       | < 3          |        |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 3       | < 3       | < 3       | < 3       | < 3        | N/A       | N/A       | N/A       | < 3       |              |        |
| Dieldrin, ug/L (CAS NO - 60-57-1)                | 3/17/2009                                  | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |        |
|  | 7/10/2009                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |        |
|  | 10/27/2009                                 | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                  | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                  | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |        |
|  | 5/14/2013                                  | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |        |
|  | 7/23/2013                                  | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |        |
|  | 5/22/2023                                  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |        |
|  | Diethyl phthalate, ug/L (CAS NO - 84-66-2) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A    |
| 10/27/2009                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |        |
| Dimethoate, ug/L (CAS NO - 60-51-5)              |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|  | 7/10/2009                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date                                  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| Dimethoate, ug/L (CAS NO - 60-51-5)              | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | N/A          | < 10.1 |
|  | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |        |
|  | Dimethyl phthalate, ug/L (CAS NO - 131-11-3) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
| 7/10/2009  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
| 10/27/2009                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7) | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)    | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)   | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 5/13/2013                                    | < 20.2     | N/A       | N/A         | N/A          | < 20      | N/A       | N/A       | N/A       | < 20.2     | < 20      | < 20.2    | N/A       | N/A       | < 20         |        |
|  | 5/14/2013                                    | N/A        | < 20      | N/A         | N/A          | N/A       | < 20      | N/A       | < 20      | N/A        | N/A       | N/A       | < 20.2    | N/A       | N/A          |        |
|  | 7/23/2013                                    | N/A        | N/A       | < 20        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                             | Sample Date                             | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|--|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0) | 5/14/2018                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 20.2    | < 20.2    | < 20.2    | < 20.2     | < 20.2    | < 20.2    | N/A       | N/A       | < 20.2       |         |
|  | 5/22/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 75.5    | < 85.1    | < 75.5    | < 75.5     | < 75.5    | N/A       | N/A       | N/A       | < 74.1       |         |
| Dinoseb, ug/L (CAS NO - 88-85-7)               | 3/17/2009                               | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |         |
|  | 7/10/2009                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |         |
|  | 10/27/2009                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011                               | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013                               | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
|  | 5/14/2013                               | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|  | 7/23/2013                               | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|  | 5/22/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
|  | Diphenylamine, ug/L (CAS NO - 122-39-4) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A     |
| 10/27/2009                                     |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2010                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011                                      |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013                                      |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
| 5/14/2013                                      |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
| 7/23/2013                                      |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/14/2018                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
| 5/22/2023                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
| Disulfoton, ug/L (CAS NO - 298-04-4)           |   | 3/17/2009  | < 70      | N/A         | < 70         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 70      | N/A          | < 70    |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 70      | < 70      | < 70      | N/A       | N/A          | N/A     |
|  | 10/27/2009                              | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011                               | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013                               | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
|  | 5/14/2013                               | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|  | 7/23/2013                               | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|  | 5/22/2023                               | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |         |
|  | Endosulfan I, ug/L (CAS NO - 959-98-8)  | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          | < 0.032 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.032   | < 0.032   | < 0.032   | N/A       | N/A          | N/A     |
| 10/27/2009                                     |   | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2010                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011                                      |   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013                                      |   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |         |
| 5/14/2013                                      |   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |         |
| 7/23/2013                                      |   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/14/2018                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.0323  | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |         |
| 5/22/2023                                      |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |         |
| Endosulfan II, ug/L (CAS NO - 33213-65-9)      |   | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          | < 0.032 |
|  |   | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.032   | < 0.032   | < 0.032   | N/A       | N/A          | N/A     |
|  | 10/27/2009                              | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011                               | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011                               | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |



# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                              | Sample Date                                 | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Endosulfan II, ug/L (CAS NO - 33213-65-9)       | 5/13/2013                                   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |
|   | 5/14/2013                                   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
|   | 7/23/2013                                   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |
|   | 5/22/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | < 0.0593  | N/A       | N/A       | < 0.0593     |
| Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)   | 3/17/2009                                   | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |
|   | 7/10/2009                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |
|   | 10/27/2009                                  | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                                   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                                   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |
|   | 5/14/2013                                   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
|   | 7/23/2013                                   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |
|   | 5/22/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | < 0.0593  | N/A       | N/A       | < 0.0593     |
|   | Endrin, ug/L (CAS NO - 72-20-8)             | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          |
| 7/10/2009                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |
| 10/27/2009                                      |   | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                                       |   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013                                       |   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |
| 5/14/2013                                       |   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
| 7/23/2013                                       |   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |
| 5/22/2023                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | < 0.0593  | N/A       | N/A       | < 0.0593     |
| Endrin aldehyde, ug/L (CAS NO - 7421-93-4)      |   | 3/17/2009  | < 0.032   | N/A         | < 0.032      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          |
|   | 7/10/2009                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |
|   | 10/27/2009                                  | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                                   | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                                   | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |
|   | 5/14/2013                                   | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
|   | 7/23/2013                                   | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |
|   | 5/22/2023                                   | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | < 0.0593  | N/A       | N/A       | < 0.0593     |
|   | Ethyl Methacrylate, ug/L (CAS NO - 97-63-2) | 3/17/2009  | < 2       | N/A         | < 2          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          |
| 7/10/2009                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 2        | < 2       | < 2       | N/A       | N/A       | N/A          |
| 10/27/2009                                      |   | N/A        | < 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          |
| 4/28/2010                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                                       |   | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                       |   | N/A        | 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          |
| 5/13/2013                                       |   | < 2        | N/A       | N/A         | N/A          | < 2       | N/A       | N/A       | N/A       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |
| 5/14/2013                                       |   | N/A        | < 2       | N/A         | N/A          | N/A       | < 2       | N/A       | < 2       | N/A        | N/A       | N/A       | < 2       | N/A       | N/A          |
| 7/23/2013                                       |   | 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       | N/A          |
| 6/24/2014                                       |   | N/A        | 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          |
| 5/14/2018                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |
| 5/22/2023                                       |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |
| Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0) |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
|   | 7/10/2009                                   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                              | Sample Date                      | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|---|----------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0) | 10/27/2009                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                        | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                        | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |
|   | 5/14/2013                        | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|   | 7/23/2013                        | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                        | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|   | 5/22/2023                        | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |
|   | Famphur, ug/L (CAS NO - 52-85-7) | 3/17/2009  | < 20      | N/A         | < 20         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 20      | N/A          |
| 7/10/2009                                       |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 20       | < 20      | < 20      | N/A       | N/A       | N/A          |
| 10/27/2009                                      |                                  | N/A        | < 20      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010                                       |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011                                       |                                  | N/A        | N/A       | N/A         | N/A          | < 20      | < 20      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011                                       |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013                                       |                                  | < 20.2     | N/A       | N/A         | N/A          | < 20      | N/A       | N/A       | < 20.2    | < 20       | < 20.2    | < 20.2    | N/A       | N/A       | < 20         |
| 5/14/2013                                       |                                  | N/A        | < 20      | N/A         | N/A          | N/A       | < 20      | N/A       | < 20      | N/A        | N/A       | N/A       | < 20.2    | N/A       | N/A          |
| 7/23/2013                                       |                                  | N/A        | N/A       | < 20        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014                                       |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018                                       |                                  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023                                       | N/A                              | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |
| Fluoranthene, ug/L (CAS NO - 206-44-0)          | 3/17/2009                        | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|   | 7/10/2009                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|   | 10/27/2009                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                        | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                        | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |
|   | 5/14/2013                        | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|   | 7/23/2013                        | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                        | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023                                       | N/A                              | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |
| Fluorene, ug/L (CAS NO - 86-73-7)               | 3/17/2009                        | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|   | 7/10/2009                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|   | 10/27/2009                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                        | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                        | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |
|   | 5/14/2013                        | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|   | 7/23/2013                        | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/14/2018                        | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023                                       | N/A                              | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |
| Heptachlor, ug/L (CAS NO - 76-44-8)             | 3/17/2009                        | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |
|   | 7/10/2009                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |
|   | 10/27/2009                       | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2010                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 1/13/2011                        | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 4/28/2011                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.32    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 5/13/2013                        | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | < 0.032   | < 0.032    | < 0.032   | N/A       | N/A       | N/A       | < 0.032      |
|   | 5/14/2013                        | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |
|   | 7/23/2013                        | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|   | 6/24/2014                        | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                            | Sample Date  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Heptachlor, ug/L (CAS NO - 76-44-8)           | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |      |
|   | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |      |
| Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3) | 3/17/2009  | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |      |
|   | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |      |
|   | 10/27/2009   | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013  | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |      |
|   | 5/14/2013  | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | N/A       | < 0.032   | N/A          |      |
|   | 7/23/2013  | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.323   | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |      |
|   | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |      |
|   | Hexachlorobenzene, ug/L (CAS NO - 118-74-1)        | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   |  | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                     |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013                                     |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013                                     |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)  |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   |  | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|   | Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   |  | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
| 4/28/2010                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                                     |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                                     |  | < 20.2     | N/A       | N/A         | N/A          | < 20      | N/A       | N/A       | N/A       | < 20.2     | < 20      | < 20.2    | N/A       | N/A       | < 20         |      |
| 5/14/2013                                     |  | N/A        | < 20      | N/A         | N/A          | N/A       | < 20      | N/A       | < 20      | N/A        | N/A       | N/A       | < 20.2    | N/A       | N/A          |      |
| 7/23/2013                                     |  | N/A        | N/A       | < 20        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 20      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                                     |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Hexachloroethane, ug/L (CAS NO - 67-72-1)     |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   |  | 10/27/2009 | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          | N/A  |
|   | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                           | Sample Date  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |         |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|---------|
| Hexachloroethane, ug/L (CAS NO - 67-72-1)    | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |         |
| Hexachloropropene, ug/L (CAS NO - 1888-71-7) | 3/17/2009  | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |         |
|  | 7/10/2009  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |         |
|  | 10/27/2009   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
|  | 5/14/2013  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
|  | 7/23/2013  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |         |
|  | Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A     |
| 10/27/2009                                   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2010                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011                                    |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013                                    |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
| 5/14/2013                                    |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
| 7/23/2013                                    |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/14/2018                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
| 5/22/2023                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |         |
| Isobutanol, ug/L (CAS NO - 78-83-1)          |  | 3/17/2009  | < 10000   | N/A         | < 10000      | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10000   | N/A          | < 10000 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10000   | < 10000   | < 10000   | N/A       | N/A          | N/A     |
|  | 10/27/2009   | N/A        | < 10000   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2010  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10000   | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 1/13/2011  | N/A        | N/A       | N/A         | N/A          | < 10000   | < 10000   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 4/28/2011  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10000   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/13/2013  | < 10000    | N/A       | N/A         | N/A          | < 10000   | N/A       | N/A       | N/A       | < 10000    | < 10000   | < 10000   | N/A       | N/A       | < 10000      |         |
|  | 5/14/2013  | N/A        | < 10000   | N/A         | N/A          | N/A       | < 10000   | N/A       | < 10000   | N/A        | N/A       | N/A       | < 10000   | N/A       | N/A          |         |
|  | 7/23/2013  | N/A        | N/A       | < 10000     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 6/24/2014  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10000   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
|  | 5/14/2018  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10000   | < 10000   | < 10000   | < 10000    | < 10000   | < 10000   | N/A       | N/A       | < 10000      |         |
|  | 5/22/2023  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10000   | < 10000   | < 10000   | < 10000    | < 10000   | < 10000   | N/A       | N/A       | < 10000      |         |
|  | Isodrin, ug/L (CAS NO - 465-73-6)                  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A     |
| 10/27/2009                                   |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2010                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 1/13/2011                                    |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 4/28/2011                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/13/2013                                    |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |         |
| 5/14/2013                                    |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |         |
| 7/23/2013                                    |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 6/24/2014                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |         |
| 5/14/2018                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |         |
| 5/22/2023                                    |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |         |
| Isophorone, ug/L (CAS NO - 78-59-1)          |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10    |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A     |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                          | Sample Date                          | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|---|--------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| Isophorone, ug/L (CAS NO - 78-59-1)         | 10/27/2009                           | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011                            | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013                            | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013                            | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013                            | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018                            | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | N/A          | < 10.1 |
|   | 5/22/2023                            | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |        |
|   | Isosafrole, ug/L (CAS NO - 120-58-1) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
| 7/10/2009                                   |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
| 10/27/2009                                  |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010                                   |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011                                   |                                      | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011                                   |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013                                   |                                      | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
| 5/14/2013                                   |                                      | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013                                   |                                      | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014                                   |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018                                   |                                      | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023                                   | N/A                                  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| Kepone, ug/L (CAS NO - 143-50-0)            | 3/17/2009                            | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|   | 7/10/2009                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|   | 10/27/2009                           | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011                            | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013                            | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013                            | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013                            | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018                            | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023                                   | N/A                                  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| Methacrylonitrile, ug/L (CAS NO - 126-98-7) | 3/17/2009                            | < 1        | N/A       | < 1         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 1       | N/A       | < 1          |        |
|   | 7/10/2009                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 1        | < 1       | < 1       | N/A       | N/A       | N/A          |        |
|   | 10/27/2009                           | N/A        | < 1       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010                            | 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          |        |
|   | 1/13/2011                            | N/A        | N/A       | N/A         | N/A          | < 1       | < 1       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011                            | 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          |        |
|   | 5/13/2013                            | < 1        | N/A       | N/A         | N/A          | < 1       | N/A       | N/A       | < 1       | < 1        | < 1       | < 1       | N/A       | N/A       | < 1          |        |
|   | 5/14/2013                            | N/A        | < 1       | N/A         | N/A          | N/A       | < 1       | N/A       | < 1       | N/A        | N/A       | N/A       | < 1       | N/A       | N/A          |        |
|   | 7/23/2013                            | 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       | N/A          |        |
|   | 6/24/2014                            | 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          |        |
|   | 5/14/2018                            | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |        |
| 5/22/2023                                   | N/A                                  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | < 10      | < 10      | < 10       | N/A       | N/A       | N/A       | < 10      |              |        |
| Methapyrilene, ug/L (CAS NO - 91-80-5)      | 3/17/2009                            | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|   | 7/10/2009                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|   | 10/27/2009                           | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011                            | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013                            | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013                            | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013                            | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014                            | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date                                  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Methapyrilene, ug/L (CAS NO - 91-80-5)           | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Methoxychlor, ug/L (CAS NO - 72-43-5)            | 3/17/2009                                    | < 0.032    | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 0.032   | N/A       | < 0.032      |      |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | N/A          |      |
|  | 10/27/2009                                   | N/A        | < 0.032   | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 0.032    | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 0.032   | < 0.032   | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013                                    | < 0.032    | N/A       | N/A         | N/A          | < 0.032   | N/A       | N/A       | N/A       | < 0.032    | < 0.032   | < 0.032   | N/A       | N/A       | < 0.032      |      |
|  | 5/14/2013                                    | N/A        | < 0.032   | N/A         | N/A          | N/A       | < 0.032   | N/A       | < 0.032   | N/A        | N/A       | N/A       | < 0.032   | N/A       | N/A          |      |
|  | 7/23/2013                                    | N/A        | N/A       | < 0.032     | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.032   | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0323  | < 0.0323  | < 0.0323  | < 0.0323   | < 0.0323  | < 0.0323  | N/A       | N/A       | < 0.0323     |      |
|  | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.0604  | < 0.0593  | < 0.0593  | < 0.0593   | < 0.0593  | N/A       | N/A       | N/A       | < 0.0593     |      |
|  | Methyl Methacrylate, ug/L (CAS NO - 80-62-6) | 3/17/2009  | < 2       | N/A         | < 2          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 2  |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 2       | < 2       | < 2       | N/A       | N/A          | N/A  |
| 10/27/2009                                       |  | N/A        | < 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          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 4       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 4       | < 4       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | 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          |      |
| 5/13/2013  |  | < 2        | N/A       | N/A         | N/A          | < 2       | N/A       | N/A       | N/A       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |      |
| 5/14/2013  |  | N/A        | < 2       | N/A         | N/A          | N/A       | < 2       | N/A       | < 2       | N/A        | N/A       | N/A       | < 2       | N/A       | N/A          |      |
| 7/23/2013  |  | 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       | N/A          |      |
| 6/24/2014  |  | N/A        | 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          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | < 2       | < 2        | < 2       | < 2       | N/A       | N/A       | < 2          |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 2       | < 2       | < 2       | < 2        | < 2       | N/A       | N/A       | N/A       | < 2          |      |
| Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3) |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|  | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|  | Naphthalene, ug/L (CAS NO - 91-20-3)         | 3/17/2009  | < 5       | N/A         | < 5          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 5       | N/A          | < 5  |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 5       | < 5       | < 5       | N/A       | N/A          | N/A  |
| 10/27/2009                                       |  | N/A        | < 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          |      |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 5       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 5       | < 5       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013  |  | < 5        | N/A       | N/A         | N/A          | < 5       | N/A       | N/A       | N/A       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |      |
| 5/14/2013  |  | N/A        | < 5       | N/A         | N/A          | N/A       | < 5       | N/A       | < 5       | N/A        | N/A       | N/A       | < 5       | N/A       | N/A          |      |
| 7/23/2013  |  | N/A        | N/A       | < 5         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 5       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 5       | < 5       | < 5       | < 5        | < 5       | < 5       | N/A       | N/A       | < 5          |      |
| 5/22/2023  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 5       | < 5       | < 5       | < 5        | < 5       | N/A       | N/A       | N/A       | < 5          |      |
| Nitrobenzene, ug/L (CAS NO - 98-95-3)            |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|  |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                                 | Sample Date   | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| Nitrobenzene, ug/L (CAS NO - 98-95-3)              | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
| N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)     | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
|  | N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)     | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
| 10/27/2009   |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011  |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013  |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
| 5/14/2013  |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
| 7/23/2013  |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
| N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3) |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
|  | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
|  | N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
| 10/27/2009   |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011  |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013  |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
| 5/14/2013  |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
| 7/23/2013  |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014  |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023  |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |
| N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)    |   | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          |
|  | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents  | Sample Date   | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|---|---|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)           | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | < 10.1    | N/A       | N/A          | < 10.1 |
|   | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |        |
|   | N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
| 7/10/2009   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
| 10/27/2009  |   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011   |   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013   |   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
| 5/14/2013   |   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013   |   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014   |   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018   |   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023   | N/A   | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)             | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|   | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023   | N/A   | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)            | 3/17/2009   | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|   | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023   | N/A   | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |        |
| O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1) | 3/17/2009   | < 30       | N/A       | < 30        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 30      | N/A       | < 30         |        |
|   | 7/10/2009   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 30       | < 30      | < 30      | N/A       | N/A       | N/A          |        |
|   | 10/27/2009  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013   | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | < 10.1    | < 10       | < 10.1    | N/A       | N/A       | N/A       | < 10         |        |
|   | 5/14/2013   | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013   | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |



# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents  | Sample Date                              | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |       |
|---|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-------|
| O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1) | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |       |
|   | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |       |
| O-Toluidine, ug/L (CAS NO - 95-53-4)                      | 3/17/2009                                | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |       |
|   | 7/10/2009                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |       |
|   | 10/27/2009                               | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/13/2013                                | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |       |
|   | 5/14/2013                                | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |       |
|   | 7/23/2013                                | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |       |
|   | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |       |
|   | Parathion-Ethyl, ug/L (CAS NO - 56-38-2) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10  |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A   |
| 10/27/2009  |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2010   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2011   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/13/2013   |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |       |
| 5/14/2013   |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |       |
| 7/23/2013   |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 6/24/2014   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/14/2018   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |       |
| 5/22/2023   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |       |
| Parathion-Methyl, ug/L (CAS NO - 298-00-0)                |  | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10  |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A   |
|   | 10/27/2009                               | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/13/2013                                | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |       |
|   | 5/14/2013                                | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |       |
|   | 7/23/2013                                | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 6/24/2014                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 5/14/2018                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |       |
|   | 5/22/2023                                | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |       |
|   | PCB-1016, ug/L (CAS NO - 12674-11-2)     | 3/17/2009  | < 0.8     | N/A         | < 0.8        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.8     | N/A          | < 0.8 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.8     | < 0.8     | < 0.8     | N/A       | N/A          | N/A   |
| 10/27/2009  |  | N/A        | < 0.8     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2010   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.8     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 1/13/2011   |  | N/A        | N/A       | N/A         | N/A          | < 0.8     | < 0.8     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 4/28/2011   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.8     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/13/2013   |  | < 0.8      | N/A       | N/A         | N/A          | < 0.8     | N/A       | N/A       | N/A       | < 0.8      | < 0.808   | < 0.8     | N/A       | N/A       | < 0.8        |       |
| 5/14/2013   |  | N/A        | < 0.8     | N/A         | N/A          | N/A       | < 0.808   | N/A       | < 0.8     | N/A        | N/A       | N/A       | < 0.8     | N/A       | N/A          |       |
| 7/23/2013   |  | N/A        | N/A       | < 0.8       | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 6/24/2014   |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.8     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
| 5/14/2018   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.808   | < 0.816   | < 0.808   | < 0.825    | < 0.833   | < 0.816   | N/A       | N/A       | < 0.816      |       |
| 5/22/2023   |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.755   | < 0.741   | < 0.741   | < 0.741    | < 0.741   | N/A       | N/A       | N/A       | < 0.741      |       |
| PCB-1221, ug/L (CAS NO - 11104-28-2)                      |  | 3/17/2009  | < 0.8     | N/A         | < 0.8        | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 0.8     | N/A          | < 0.8 |
|   |  | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 0.8     | < 0.8     | < 0.8     | N/A       | N/A          | N/A   |
|   | 10/27/2009                               | N/A        | < 0.8     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2010                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.8     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 1/13/2011                                | N/A        | N/A       | N/A         | N/A          | < 0.8     | < 0.8     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|   | 4/28/2011                                | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.8     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |



# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                               | Sample Date                                  | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |
|--|--|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|
| PCB-1260, ug/L (CAS NO - 11096-82-5)             | 10/27/2009                                   | N/A        | < 0.8     | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 0.8     | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 0.8     | < 0.8     | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.8     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013                                    | < 0.8      | N/A       | N/A         | N/A          | < 0.8     | N/A       | N/A       | N/A       | < 0.8      | < 0.808   | < 0.8     | N/A       | N/A       | < 0.8        |
|  | 5/14/2013                                    | N/A        | < 0.8     | N/A         | N/A          | N/A       | < 0.808   | N/A       | < 0.8     | N/A        | N/A       | N/A       | < 0.8     | N/A       | N/A          |
|  | 7/23/2013                                    | N/A        | N/A       | < 0.8       | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 0.8     | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.808   | < 0.816   | < 0.808   | < 0.825    | < 0.833   | < 0.816   | N/A       | N/A       | < 0.816      |
|  | 5/22/2023                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 0.755   | < 0.741   | < 0.741   | < 0.741    | < 0.741   | N/A       | N/A       | N/A       | < 0.741      |
|  | Pentachlorobenzene, ug/L (CAS NO - 608-93-5) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          |
| 7/10/2009  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
| 10/27/2009                                       |  | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2010  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 1/13/2011  |  | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 4/28/2011  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/13/2013  |  | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
| 5/14/2013  |  | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
| 7/23/2013  |  | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 6/24/2014  |  | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
| 5/14/2018  |  | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |
| Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8) | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |
| Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)  | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/14/2018                                    | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |
| 5/22/2023  | N/A  | N/A        | N/A       | N/A         | N/A          | < 37.7    | < 42.6    | < 37.7    | < 37.7    | < 37.7     | N/A       | N/A       | N/A       | < 37      |              |
| Phenacetin, ug/L (CAS NO - 62-44-2)              | 3/17/2009                                    | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |
|  | 7/10/2009                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |
|  | 10/27/2009                                   | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2010                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 1/13/2011                                    | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 4/28/2011                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 5/13/2013                                    | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |
|  | 5/14/2013                                    | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |
|  | 7/23/2013                                    | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |
|  | 6/24/2014                                    | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                      | Sample Date                           | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |      |
|---|---------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|------|
| Phenacetin, ug/L (CAS NO - 62-44-2)     | 5/14/2018                             | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Phenanthrene, ug/L (CAS NO - 85-01-8)   | 3/17/2009                             | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |      |
|   | 7/10/2009                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |      |
|   | 10/27/2009                            | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                             | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                             | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                             | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                             | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                             | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|   | Phenol, ug/L (CAS NO - 108-95-2)      | 3/17/2009  | < 20      | N/A         | < 20         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 20      | N/A          | < 20 |
|   |                                       | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 20      | < 20      | < 20      | N/A       | N/A          | N/A  |
| 10/27/2009                              |                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                               |                                       | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                               |                                       | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013                               |                                       | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013                               |                                       | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Phorate, ug/L (CAS NO - 298-02-2)       |                                       | 3/17/2009  | < 60      | N/A         | < 60         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 60      | N/A          | < 60 |
|   |                                       | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 60      | < 60      | < 60      | N/A       | N/A          | N/A  |
|   | 10/27/2009                            | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                             | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/13/2013                             | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
|   | 5/14/2013                             | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
|   | 7/23/2013                             | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 6/24/2014                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 5/14/2018                             | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
|   | 5/22/2023                             | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
|   | Pronamide, ug/L (CAS NO - 23950-58-5) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |                                       | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
| 10/27/2009                              |                                       | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2010                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 1/13/2011                               |                                       | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 4/28/2011                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/13/2013                               |                                       | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |      |
| 5/14/2013                               |                                       | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |      |
| 7/23/2013                               |                                       | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 6/24/2014                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
| 5/14/2018                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |      |
| 5/22/2023                               |                                       | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | N/A       | N/A       | N/A       | < 37         |      |
| Propionitrile, ug/L (CAS NO - 107-12-0) |                                       | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10 |
|   |                                       | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A  |
|   | 10/27/2009                            | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2010                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 1/13/2011                             | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |
|   | 4/28/2011                             | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |      |

# SCS ENGINEERS

Summary of Groundwater Chemistry  
Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                      | Sample Date                         | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |        |
|---|-------------------------------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|--------|
| Propionitrile, ug/L (CAS NO - 107-12-0) | 5/13/2013                           | < 10       | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |        |
|   | 5/14/2013                           | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10      | N/A       | N/A          |        |
|   | 7/23/2013                           | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018                           | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |        |
|   | 5/22/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | < 10      | < 10      | < 10      | < 10       | < 10      | < 10      | N/A       | N/A       | < 10         |        |
| Pyrene, ug/L (CAS NO - 129-00-0)        | 3/17/2009                           | < 10       | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | < 10      | N/A       | < 10         |        |
|   | 7/10/2009                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | < 10       | < 10      | < 10      | N/A       | N/A       | N/A          |        |
|   | 10/27/2009                          | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011                           | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013                           | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
|   | 5/14/2013                           | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
|   | 7/23/2013                           | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018                           | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
|   | 5/22/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |        |
|   | Safrole, ug/L (CAS NO - 94-59-7)    | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|   |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A    |
| 10/27/2009                              |                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011                               |                                     | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013                               |                                     | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
| 5/14/2013                               |                                     | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013                               |                                     | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |        |
| Sulfide, ug/L (CAS NO - 18496-25-8)     |                                     | 3/17/2009  | < 5000    | N/A         | < 5000       | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 5000    | N/A          | < 5000 |
|   |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 1000    | < 1000    | < 1000    | N/A       | N/A          | N/A    |
|   | 10/27/2009                          | N/A        | < 1000    | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2010                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 1000    | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 1/13/2011                           | N/A        | N/A       | N/A         | N/A          | < 1000    | < 1000    | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 4/28/2011                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 1000    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/13/2013                           | < 1000     | N/A       | N/A         | N/A          | < 1000    | N/A       | N/A       | N/A       | < 1000     | < 1000    | < 1000    | N/A       | N/A       | < 1000       |        |
|   | 5/14/2013                           | N/A        | < 1000    | N/A         | N/A          | N/A       | < 1000    | N/A       | < 1000    | N/A        | N/A       | N/A       | < 1000    | N/A       | N/A          |        |
|   | 7/23/2013                           | N/A        | N/A       | < 1000      | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 6/24/2014                           | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 1000    | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
|   | 5/14/2018                           | N/A        | N/A       | N/A         | N/A          | N/A       | 6080      | 3760      | < 1000    | 1200       | 1250      | < 1000    | N/A       | N/A       | 4420         |        |
|   | 5/22/2023                           | N/A        | N/A       | N/A         | N/A          | N/A       | < 1000    | < 1000    | < 1000    | < 1000     | < 1000    | N/A       | N/A       | N/A       | < 1000       |        |
|   | Thionazin, ug/L (CAS NO - 297-97-2) | 3/17/2009  | < 10      | N/A         | < 10         | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 10      | N/A          | < 10   |
|   |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 10      | < 10      | < 10      | N/A       | N/A          | N/A    |
| 10/27/2009                              |                                     | N/A        | < 10      | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2010                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | < 10      | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 1/13/2011                               |                                     | N/A        | N/A       | N/A         | N/A          | < 10      | < 10      | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 4/28/2011                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/13/2013                               |                                     | < 10.1     | N/A       | N/A         | N/A          | < 10      | N/A       | N/A       | N/A       | < 10.1     | < 10      | < 10.1    | N/A       | N/A       | < 10         |        |
| 5/14/2013                               |                                     | N/A        | < 10      | N/A         | N/A          | N/A       | < 10      | N/A       | < 10      | N/A        | N/A       | N/A       | < 10.1    | N/A       | N/A          |        |
| 7/23/2013                               |                                     | N/A        | N/A       | < 10        | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 6/24/2014                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | < 10      | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |        |
| 5/14/2018                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | < 10.1    | < 10.1    | < 10.1    | < 10.1     | < 10.1    | < 10.1    | N/A       | N/A       | < 10.1       |        |
| 5/22/2023                               |                                     | N/A        | N/A       | N/A         | N/A          | N/A       | < 37.7    | < 42.6    | < 37.7    | < 37.7     | < 37.7    | < 37.7    | N/A       | N/A       | < 37         |        |
| Toxaphene, ug/L (CAS NO - 8001-35-2)    |                                     | 3/17/2009  | < 2       | N/A         | < 2          | N/A       | N/A       | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | < 2       | N/A          | < 2    |
|   |                                     | 7/10/2009  | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | N/A       | N/A        | < 2       | < 2       | < 2       | N/A       | N/A          | N/A    |

# SCS ENGINEERS

## Summary of Groundwater Chemistry Kossuth County Sanitary Landfill - 55-SDP-01-75C

| Other Constituents                   | Sample Date | MW-22A UPG | MW-27 UPG | MWPz-8A UPG | MWPz-8B2 UPG | MW-12 DNG | MW-18 DNG | MW-19 DNG | MW-20 DNG | MW-22B DNG | MW-23 DNG | MW-25 DNG | MW-26 DNG | MW-28 DNG | MWPz-16A DNG |       |
|--------------------------------------|-------------|------------|-----------|-------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|--------------|-------|
| Toxaphene, ug/L (CAS NO - 8001-35-2) | 10/27/2009  | N/A        | <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          |       |
|                                      | 4/28/2010   | N/A        | N/A       | N/A         | N/A          | N/A       | N/A       | N/A       | <2        | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                      | 1/13/2011   | N/A        | N/A       | N/A         | N/A          | <2        | <2        | N/A       | N/A       | N/A        | N/A       | N/A       | N/A       | N/A       | N/A          |       |
|                                      | 4/28/2011   | N/A        | 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          |       |
|                                      | 5/13/2013   | <2         | N/A       | N/A         | N/A          | <2        | N/A       | N/A       | <2        | <2         | <2        | <2        | N/A       | N/A       | <2           |       |
|                                      | 5/14/2013   | N/A        | <2        | N/A         | N/A          | N/A       | <2        | N/A       | <2        | N/A        | N/A       | N/A       | <2        | N/A       | N/A          |       |
|                                      | 7/23/2013   | 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       | N/A          |       |
|                                      | 6/24/2014   | N/A        | 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          |       |
|                                      | 5/14/2018   | N/A        | N/A       | N/A         | N/A          | N/A       | <2.02     | <20.2     | <2.02     | <2.02      | <2.02     | <2.02     | <2.02     | N/A       | N/A          | <2.02 |
|                                      | 5/22/2023   | N/A        | N/A       | N/A         | N/A          | N/A       | <1.89     | <1.85     | <1.85     | <1.85      | <1.85     | N/A       | N/A       | N/A       | <1.85        |       |

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 Method and Output**

## Statistical Method and Output

### Purpose

The purpose of this document is to provide the statistical evaluation of groundwater analytical data collected from the groundwater monitoring network of the Kossuth County Sanitary Landfill (Landfill).

### ***Diagnostic and Exploratory Evaluations and Tests of Assumptions***

The detection and assessment/corrective action monitoring statistical programs include diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time Series Plots
- Shapiro-Wilk test for normality
- Ohio Environmental Protection Agency (EPA) Method for identification of outliers
- Mann-Kendall/Sen's Slope trend test

### ***Management of Non-Detect Data***

Non-detect values in the dataset are managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data are non-detects, simple substitution is used, where non-detect values are assigned a concentration of one-half ( $\frac{1}{2}$ ) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detects, the Kaplan-Meier estimator is used to define the distribution for the dataset. If non-detects comprise greater than 50% of the available data, non-parametric statistical methods are used.

### ***Management of Outliers***

Background datasets are evaluated for outliers using the Ohio EPA Method as included in the Sanitas™ statistical software program and described below, which includes the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets that contain less than 75% of the measured concentrations below the PQL. Outliers are not confirmed unless a physical cause or explanation for the outlier is determined.

### ***Management of Data (ND data < 75%)***

If less than 75% of the background dataset is below the PQL, outliers are statistically evaluated using the following guidelines.

- A parametric dataset with  $n < 20$  is evaluated with the Dixon's outlier test.
- A parametric dataset with  $n \geq 20$  is evaluated with the Rosner's outlier test.
- A non-parametric dataset is evaluated with the Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier is not found using the above tests, but the highest value data point exceeds the second highest data point by an order of magnitude, the highest point is considered an outlier.

### ***Management of Data (ND data $\geq$ 75%)***

If greater than or equal to 75% of the background dataset is less than the PQL, outliers are statistically evaluated using the following guidelines.



- Single detection  $\geq$  the PQL:
  - o If  $\geq 50\%$  of the background dataset has detections  $\geq$  the method detection limit (MDL), any value  $\geq$  two times the PQL of background is considered an outlier.
  - o If  $< 50\%$  of the background dataset has detections  $\geq$  the MDL, any value  $\geq$  the PQL of background is considered an outlier.
- Two or more detections  $\geq$  the PQL:
  - o If  $\geq 50\%$  of the background dataset has detections  $\geq$  the MDL, any value  $\geq$  three times the PQL of background is considered an outlier.
  - o If  $< 50\%$  of the background dataset has detections  $\geq$  the MDL, any value  $\geq$  two times the PQL of background is considered an outlier.

Confirmed outliers, if any, are shown in the Summary of Groundwater Chemistry included in the Annual Water Quality Report.

#### **Detection Monitoring Statistical Program**

The detection monitoring statistical program for the Landfill is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g". Interwell prediction limits with retesting were selected as the appropriate statistical methods for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historical detections in background. Prediction limits are established using the process below. Data from the most recent sampling event is compared to the prediction limits for the determination of SSIs.

#### **Interwell Prediction Limits with Retesting**

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, nonparametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).
- If an SSI above the prediction limit is indicated, retesting samples using the 1-of-2 retesting scheme are collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If the retesting result is above the prediction limit, the SSI is confirmed, and the monitoring point is placed into the assessment monitoring program. If the retesting sample concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

#### **Double Quantification Rule**

The quasi-statistical "double quantification" rule is used for constituents not detected in the associated background data set. If a constituent is detected in the compliance dataset that has not been historically detected in the background dataset, that constituent must be retested before the next regularly scheduled sampling event. If the retesting results confirm the original detection with a quantifiable detection, the SSI is confirmed, and the monitoring point must be placed into the assessment monitoring program.

#### **Assessment Monitoring/Corrective Action Statistical Program**

Confidence intervals or confidence bands, as appropriate, were selected as the appropriate statistical methods for comparison of the groundwater analytical data against a fixed groundwater protection standard (GWPS). The assessment/corrective action monitoring statistical evaluations are performed using the most recent eight samples or all samples if less than eight samples are

available. The confidence intervals or confidence bands used for the assessment/corrective action monitoring statistical evaluation are established using the process below. Transformation of the distribution is not considered.

#### ***Confidence Intervals or Confidence Bands***

- A parametric confidence interval around a normal mean is calculated if the dataset has a normal distribution and no statistically significant trend is present.
- A non-parametric confidence interval around a median is calculated if the dataset does not have a normal distribution and no statistically significant trend is present.
- Non-parametric confidence bands around a Theil-Sen trend line are calculated if the dataset has a statistically significant trend.

If the lower confidence limit or any part of the lower confidence band, as appropriate, exceeds the GWPS, then the monitoring point is declared out of compliance, and an assessment of corrective measures (ACM) is required. An ACM dated July 17, 2014 (Doc #80880) and an addendum dated December 23, 2014 (Doc #82187) were approved in correspondence dated April 22, 2015 (Doc #83119).

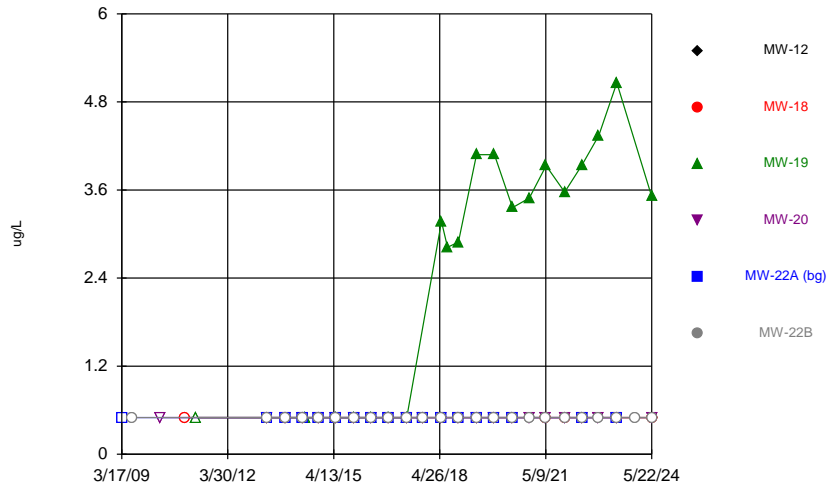
#### ***Statistical Software Output***

Sanitas™ statistical software is used to perform the statistical evaluations. Graphical output for the 1<sup>st</sup> and 2<sup>nd</sup> 2024 statistical evaluations is included in Attachments A and B of this appendix, respectively.

**Attachment A**  
**1<sup>st</sup> 2024 Statistical Output**

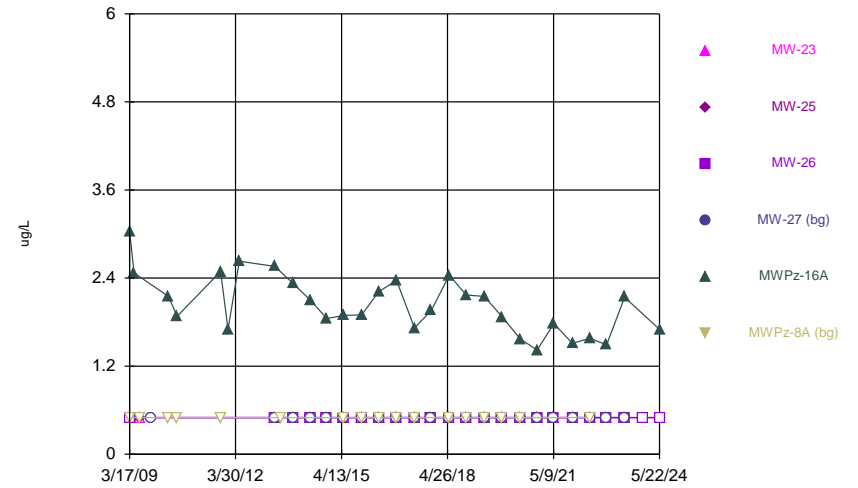
## Time Series Plots

Time Series



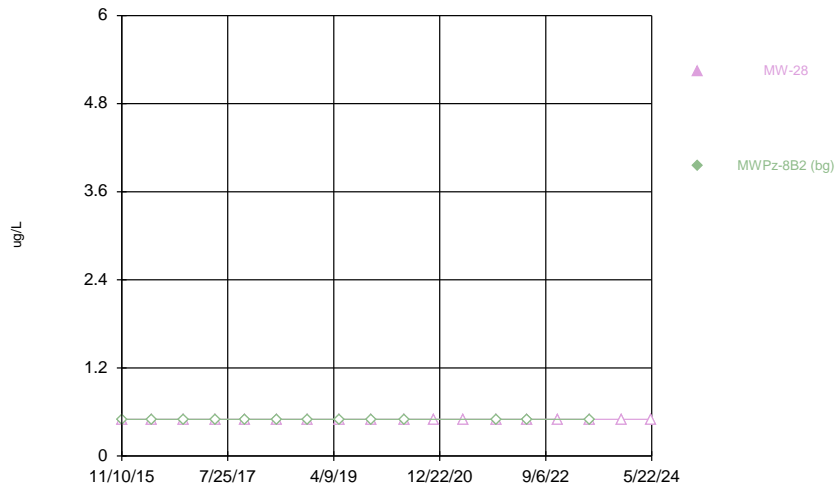
Constituent: 1,1-Dichloroethane Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



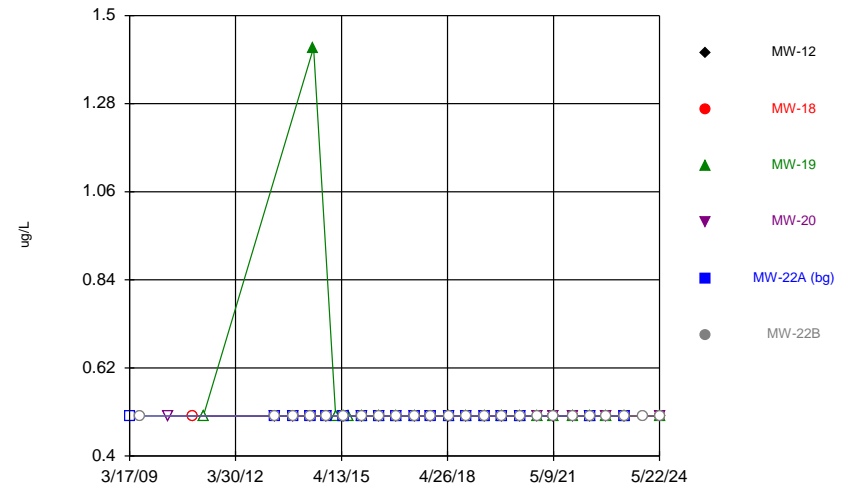
Constituent: 1,1-Dichloroethane Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



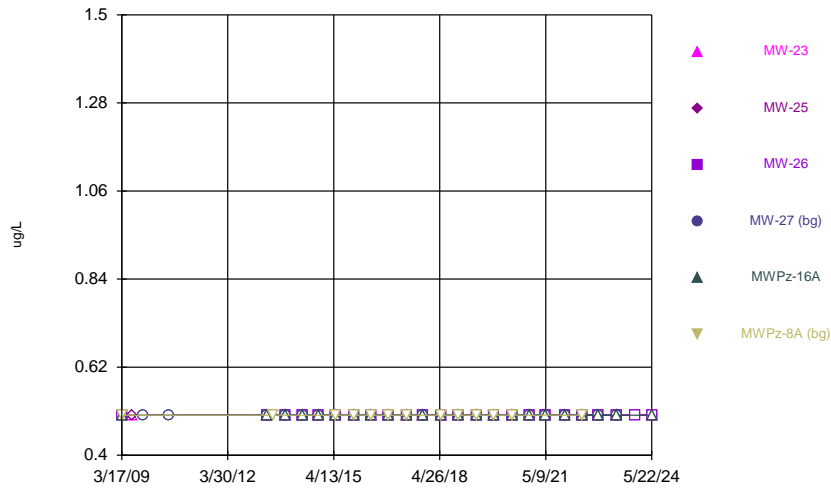
Constituent: 1,1-Dichloroethane Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



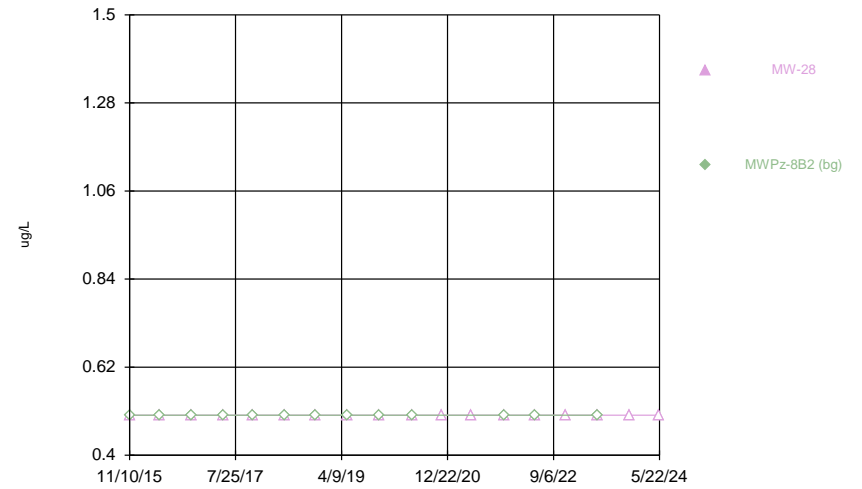
Constituent: 1,2-Dichloroethane Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



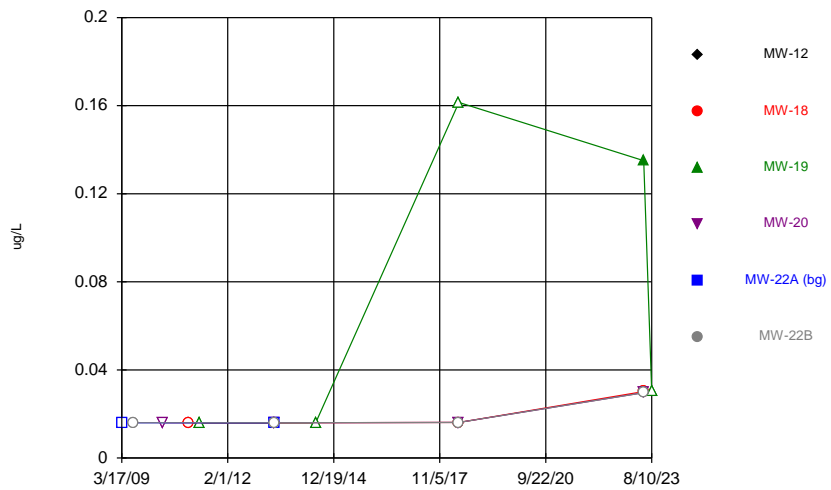
Constituent: 1,2-Dichloroethane Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



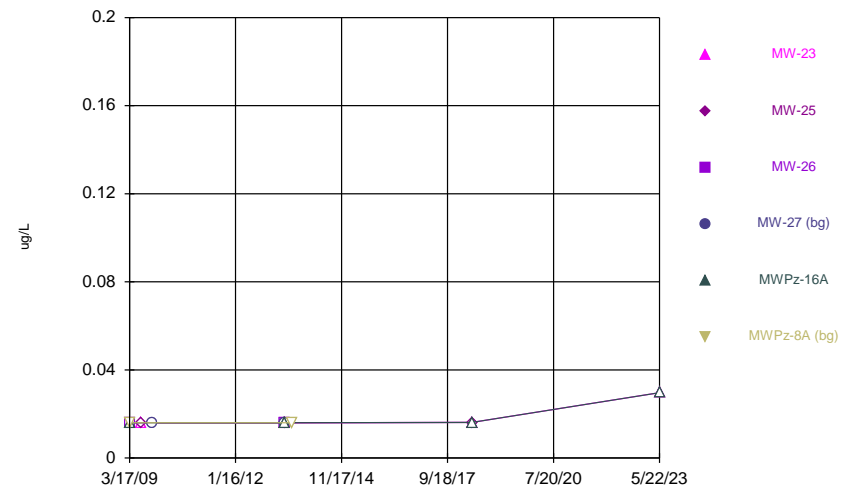
Constituent: 1,2-Dichloroethane Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



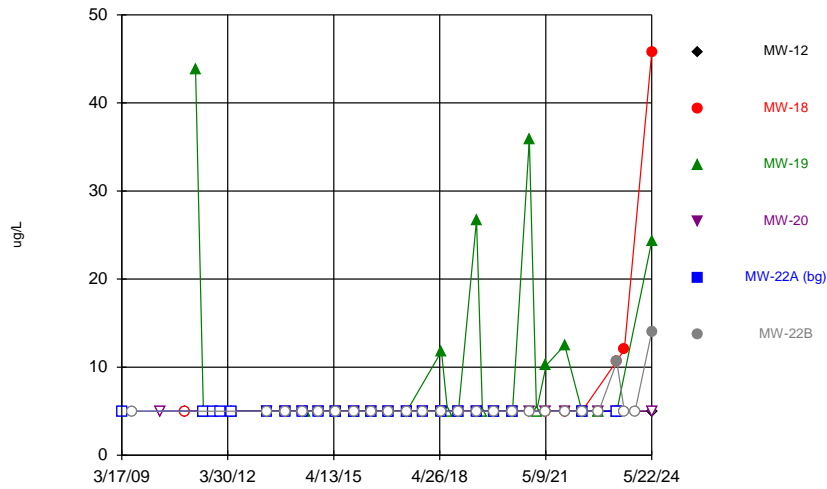
Constituent: 4,4'-DDD Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



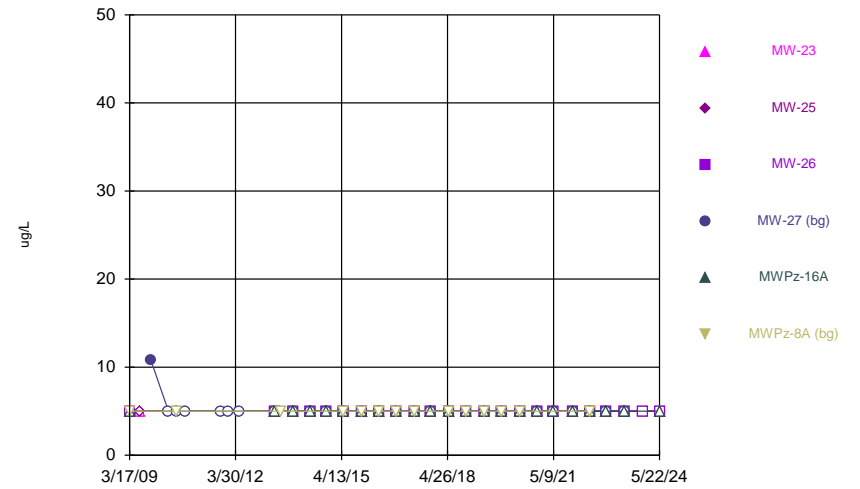
Constituent: 4,4'-DDD Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



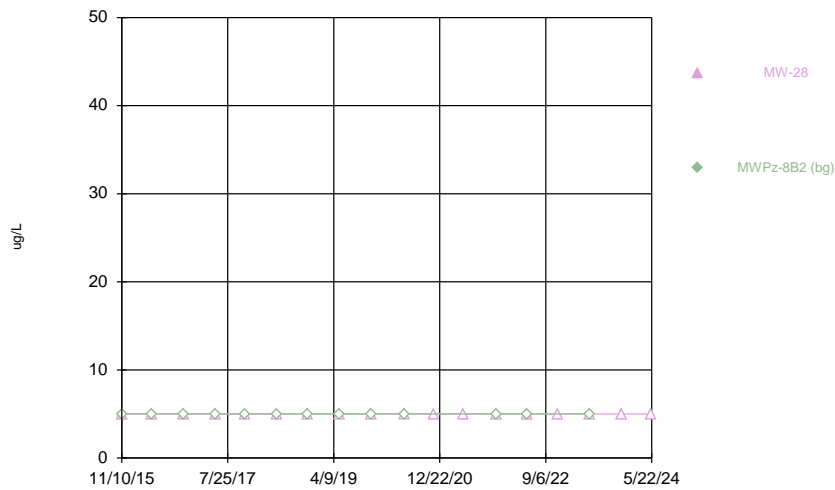
Constituent: Acetone Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



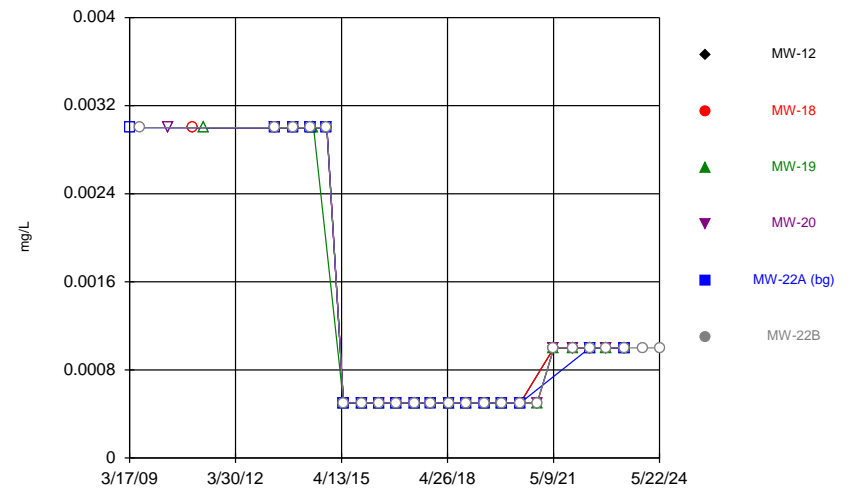
Constituent: Acetone Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



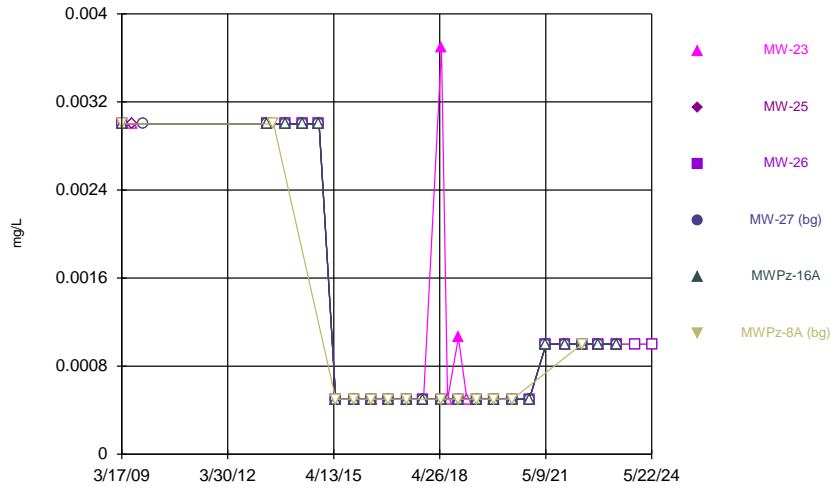
Constituent: Acetone Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



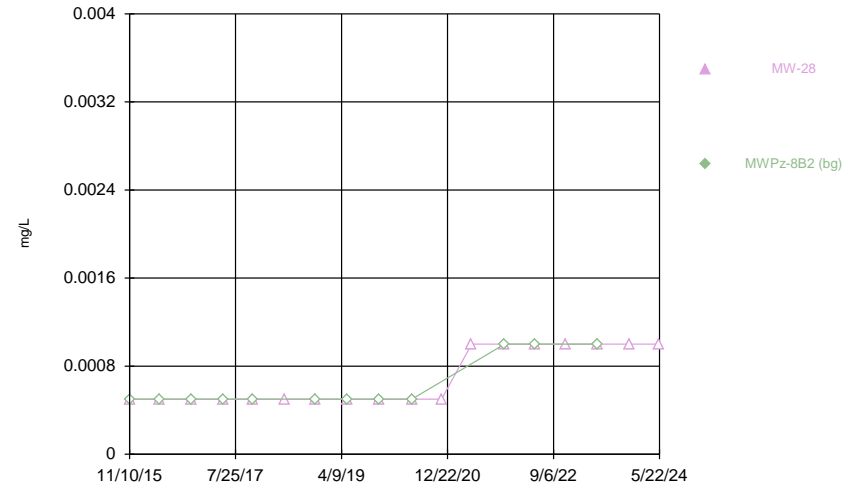
Constituent: Antimony Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



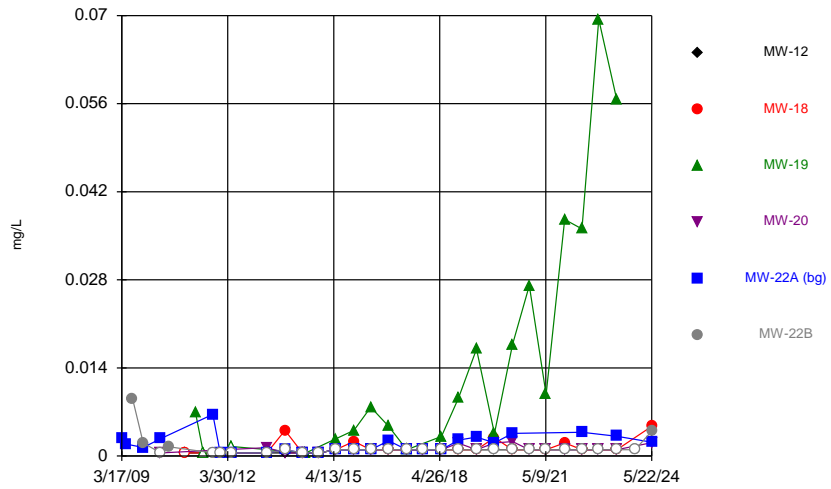
Constituent: Antimony Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



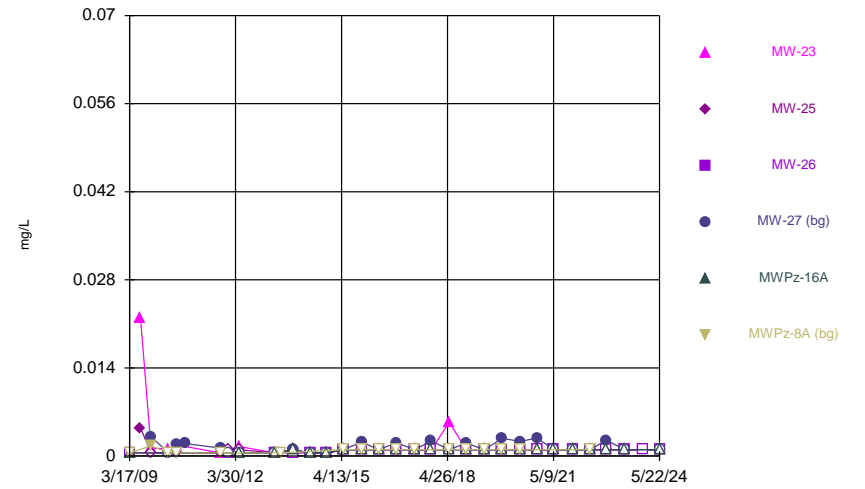
Constituent: Antimony Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



Constituent: Arsenic Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

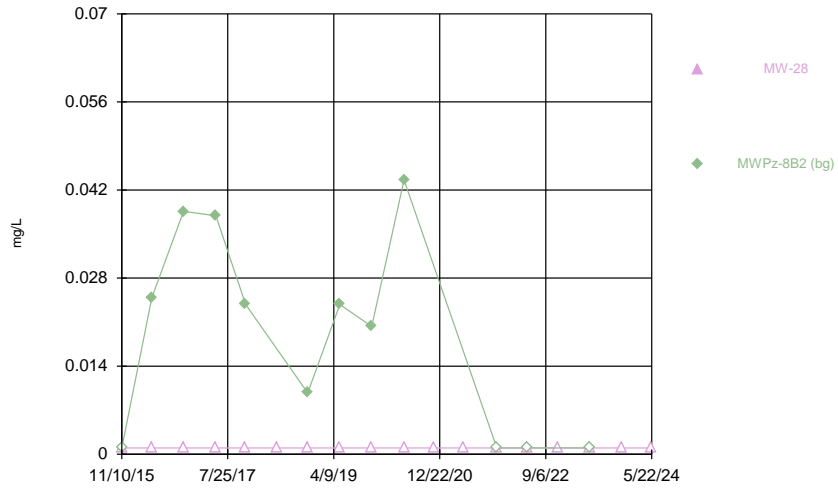
Time Series



Constituent: Arsenic Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

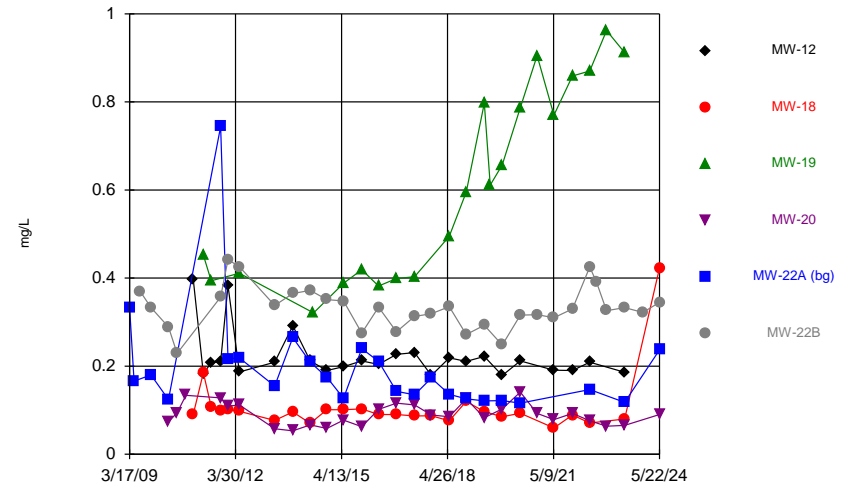


### Time Series



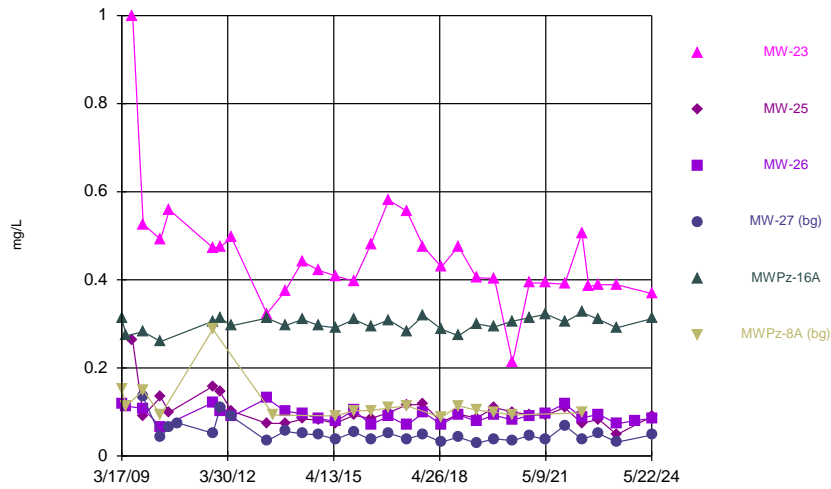
Constituent: Arsenic Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



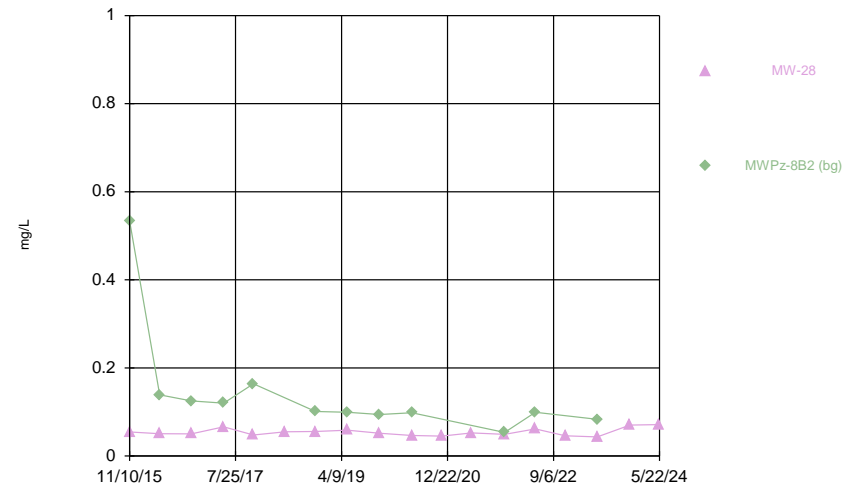
Constituent: Barium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



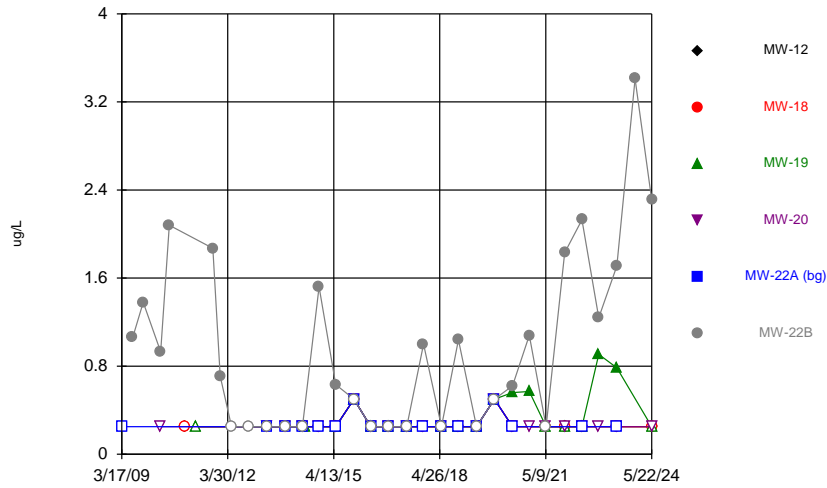
Constituent: Barium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



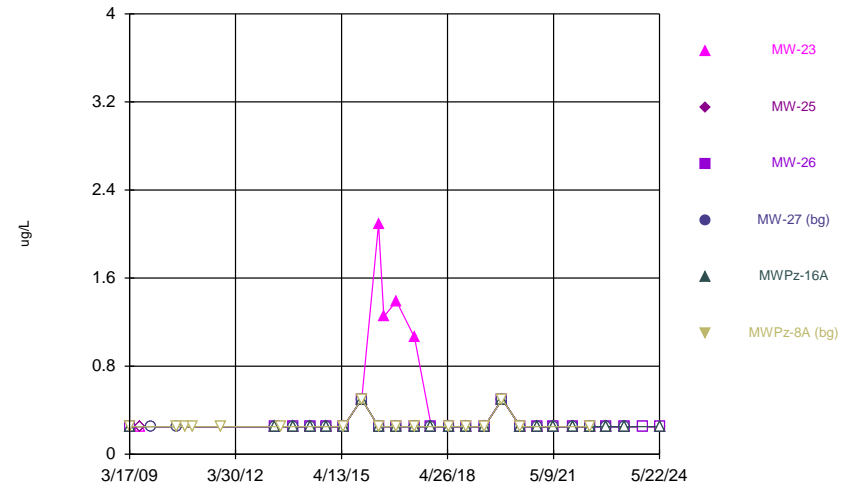
Constituent: Barium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



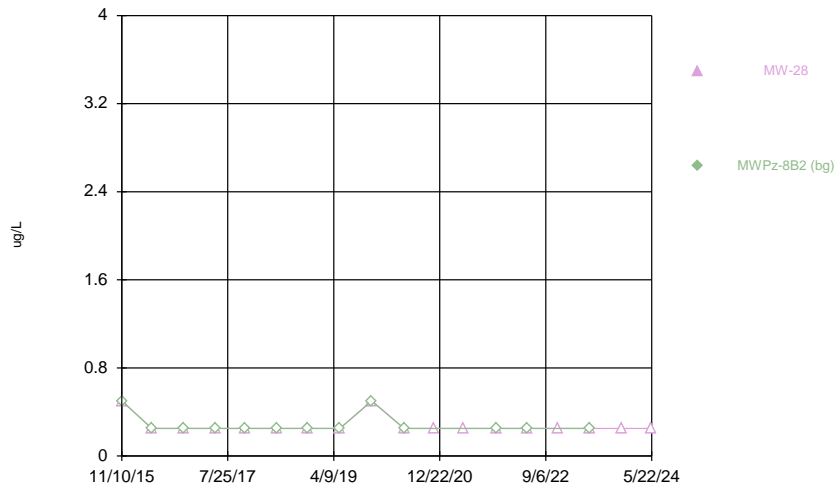
Constituent: Benzene Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



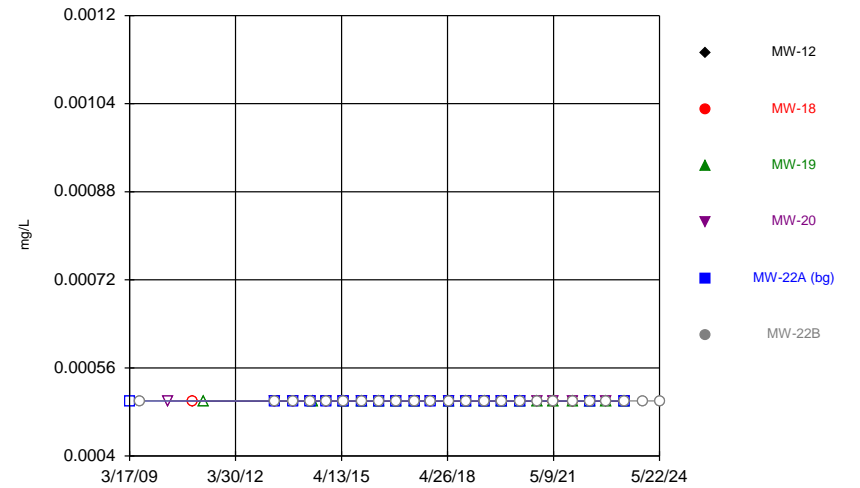
Constituent: Benzene Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



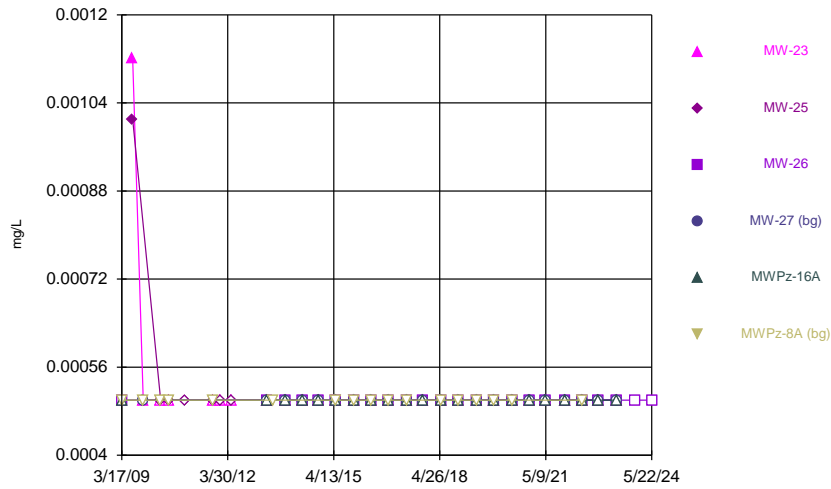
Constituent: Benzene Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



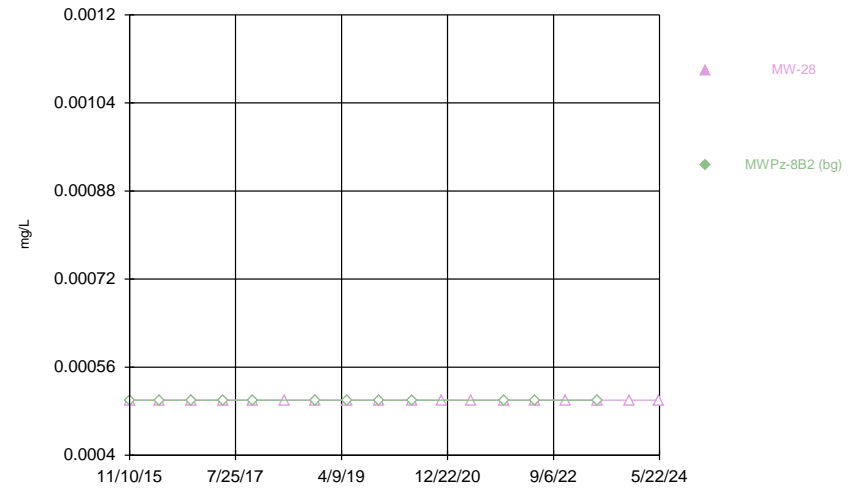
Constituent: Beryllium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

### Time Series



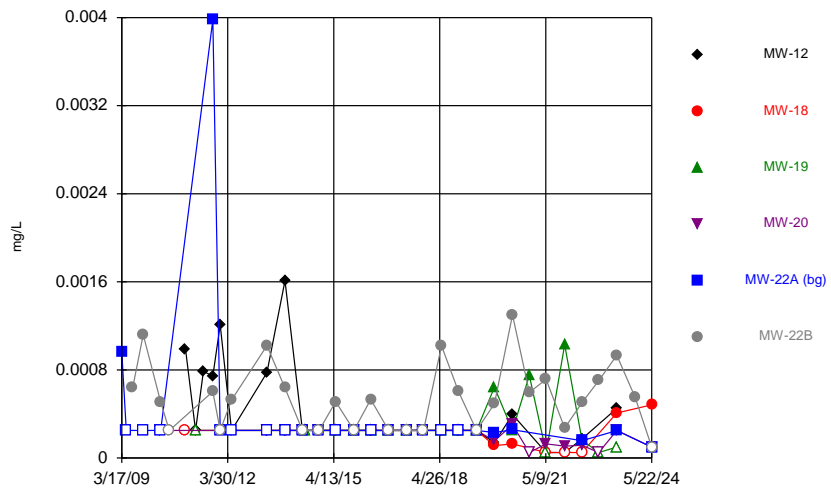
Constituent: Beryllium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



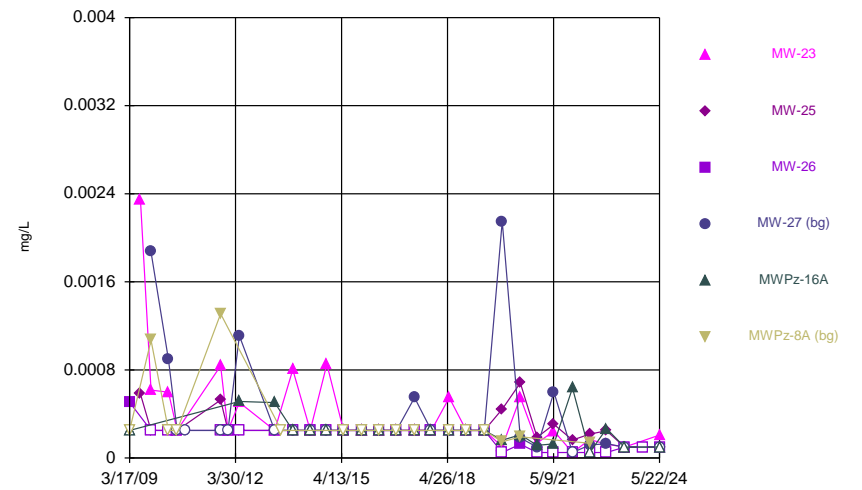
Constituent: Beryllium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



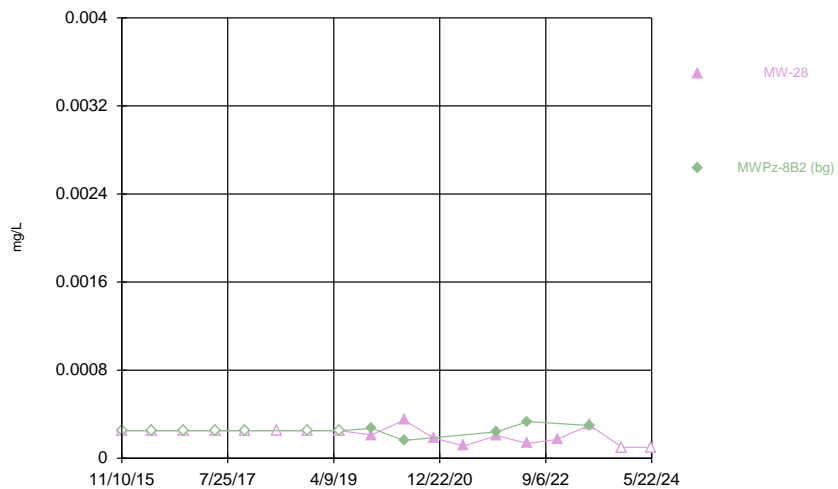
Constituent: Cadmium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



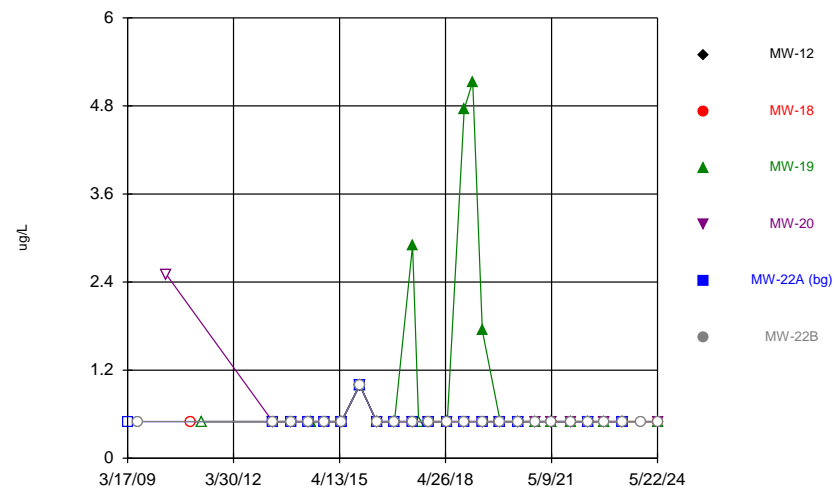
Constituent: Cadmium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



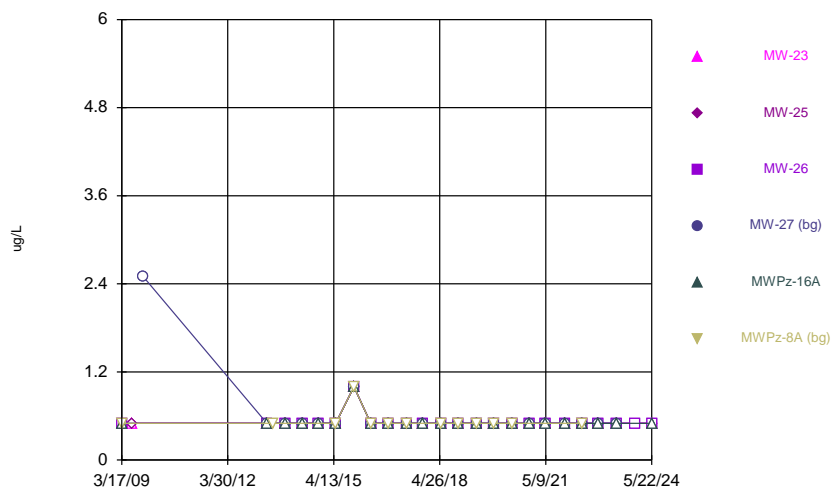
Constituent: Cadmium Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



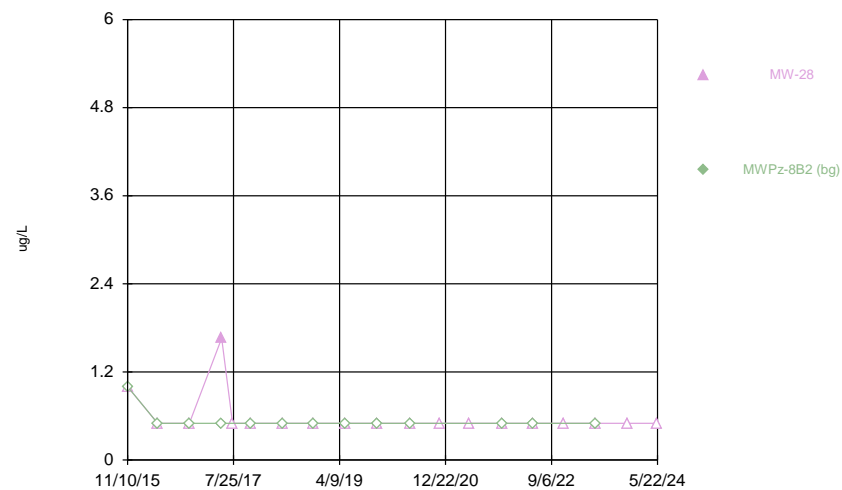
Constituent: Carbon Disulfide Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



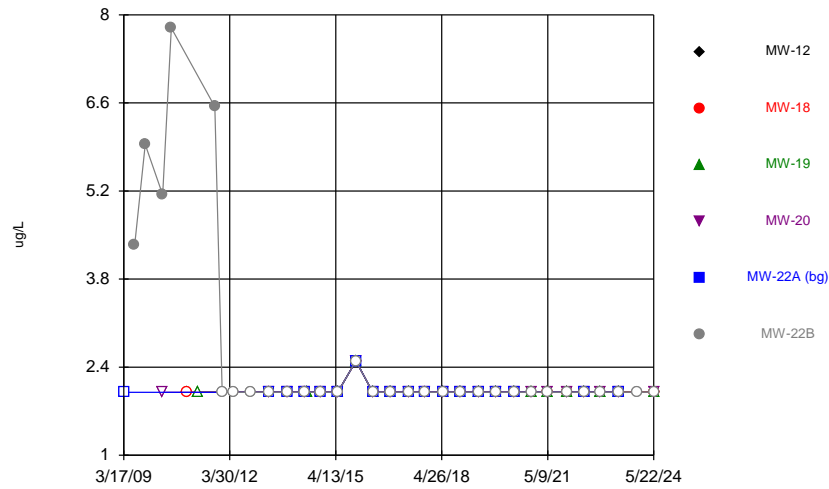
Constituent: Carbon Disulfide Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



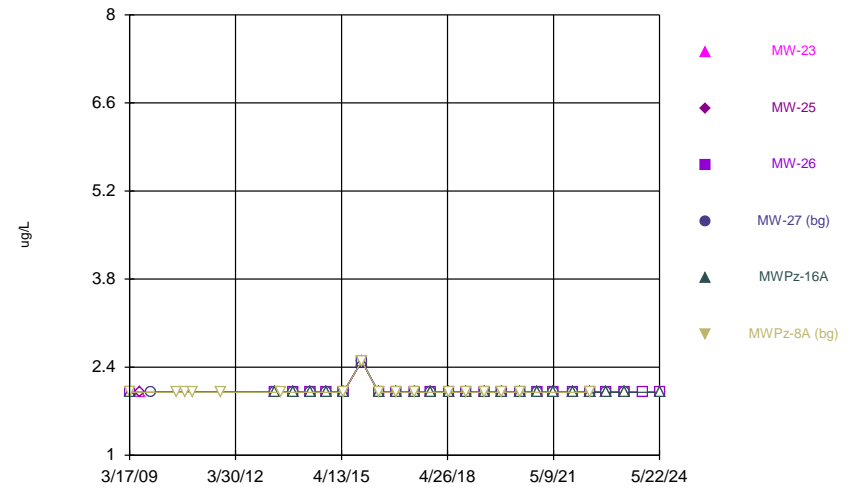
Constituent: Carbon Disulfide Analysis Run 10/17/2024 11:33 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



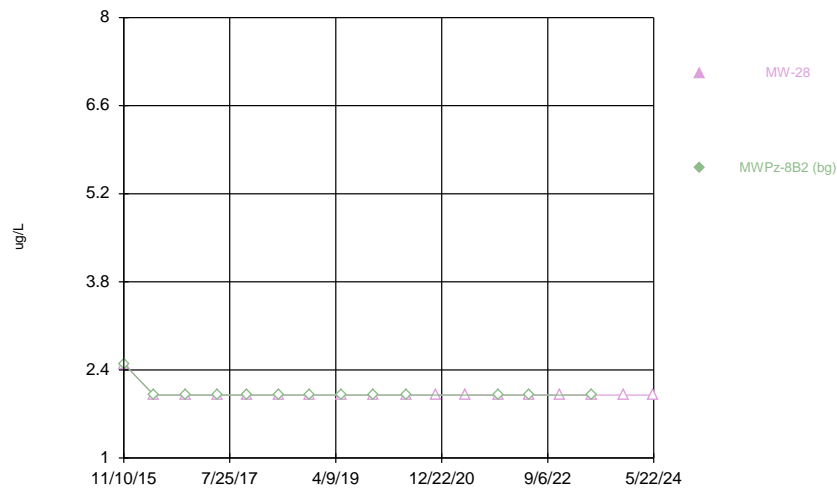
Constituent: Chloroethane Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



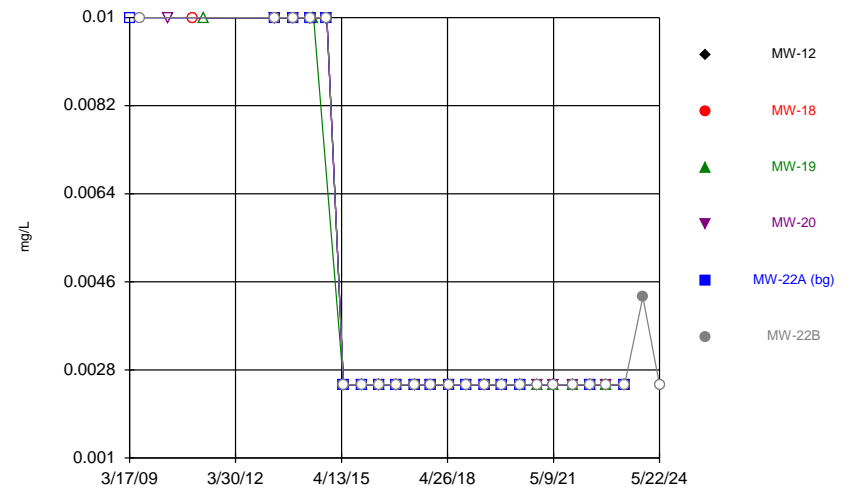
Constituent: Chloroethane Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



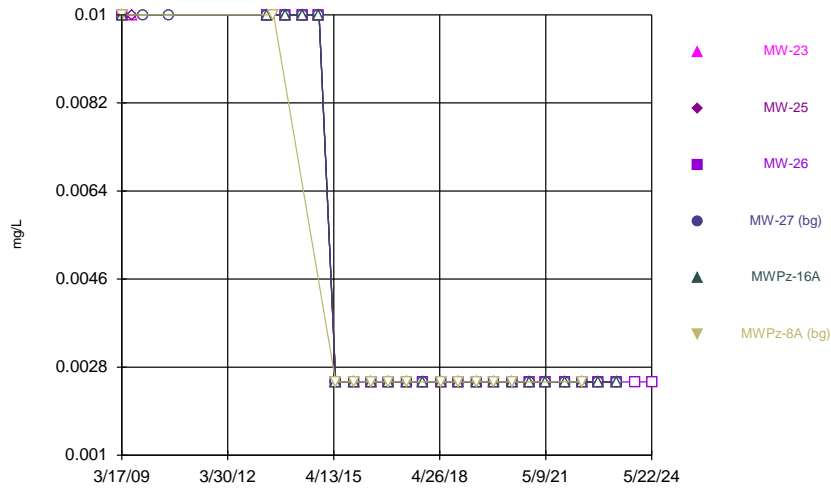
Constituent: Chloroethane Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



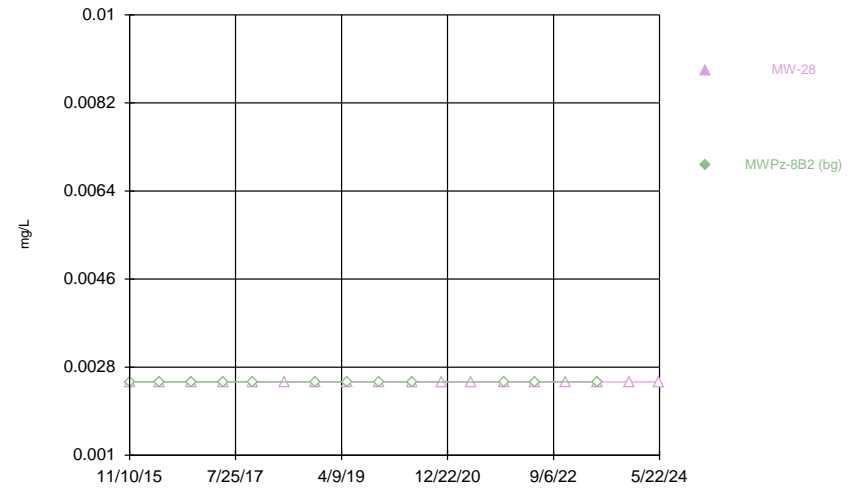
Constituent: Chromium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



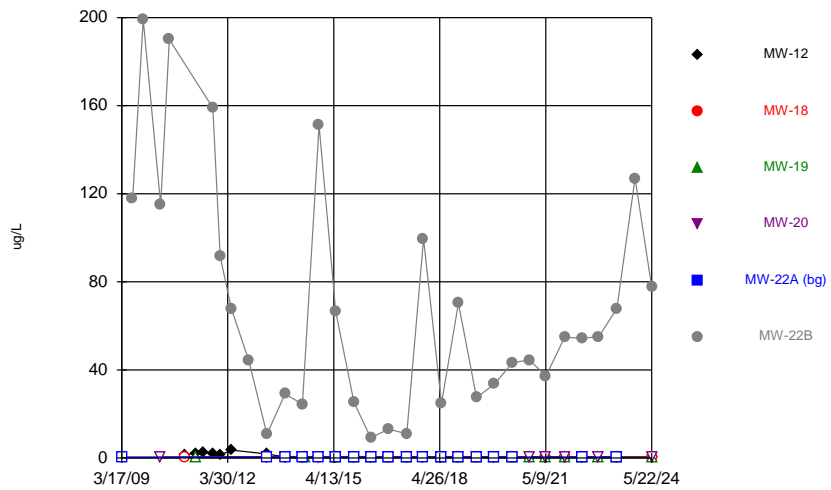
Constituent: Chromium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



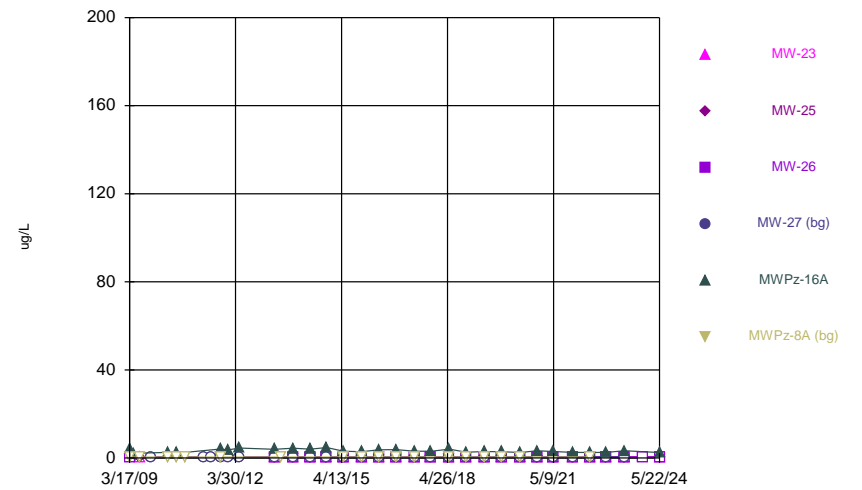
Constituent: Chromium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



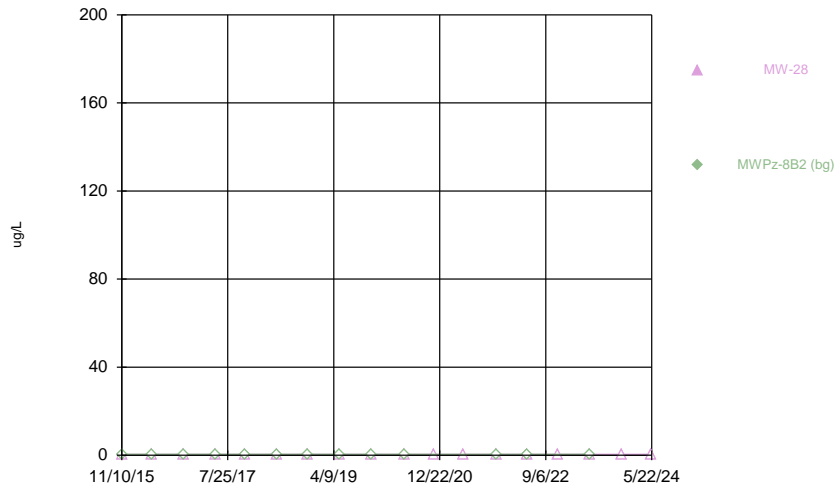
Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



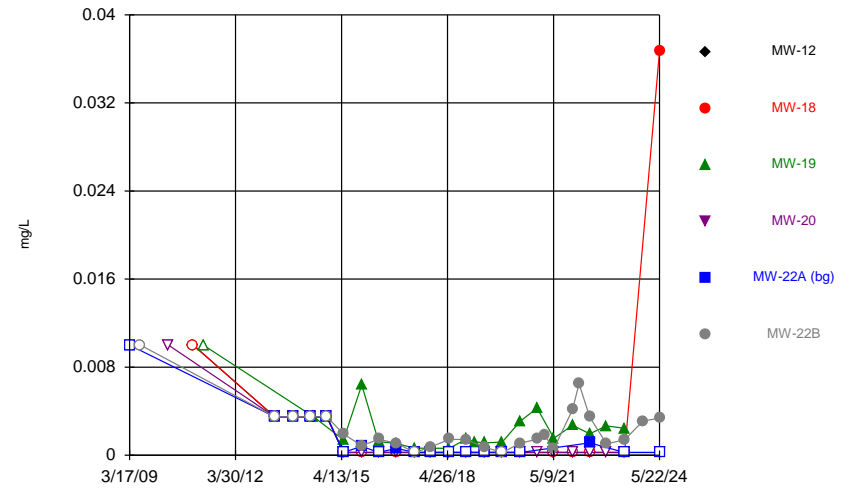
Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



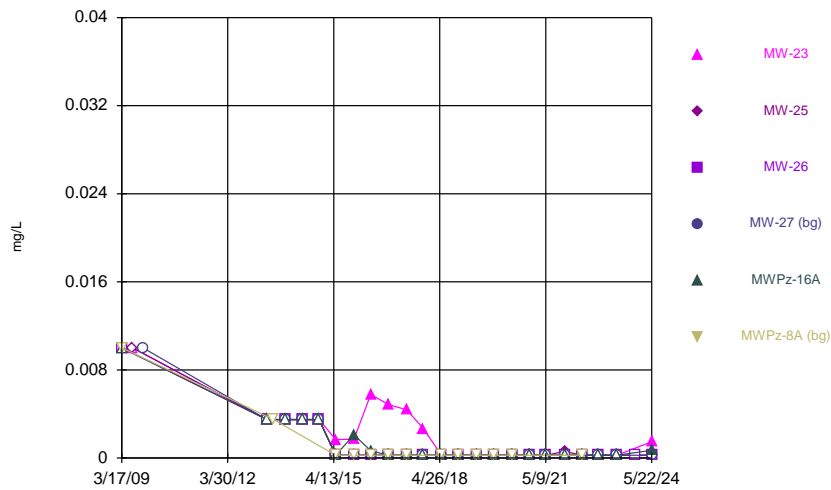
Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



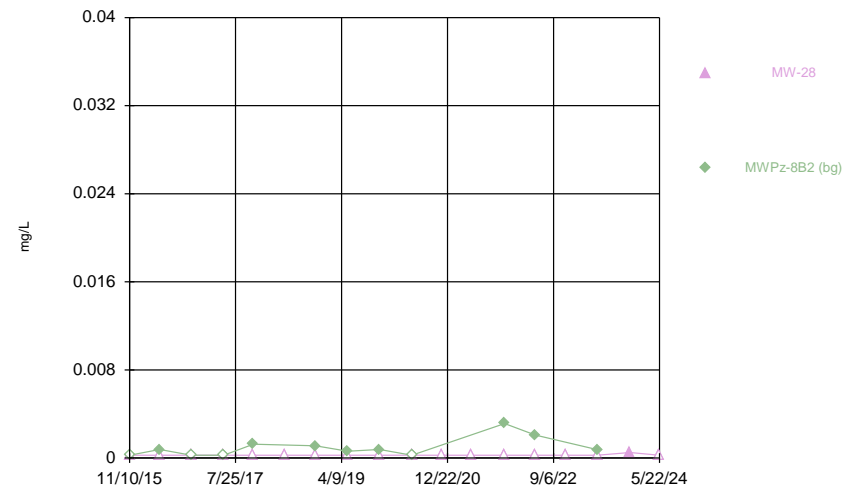
Constituent: Cobalt Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



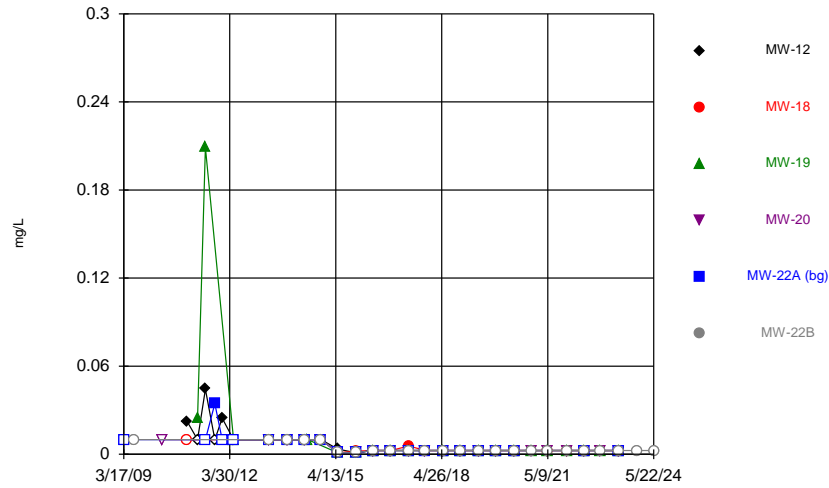
Constituent: Cobalt Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



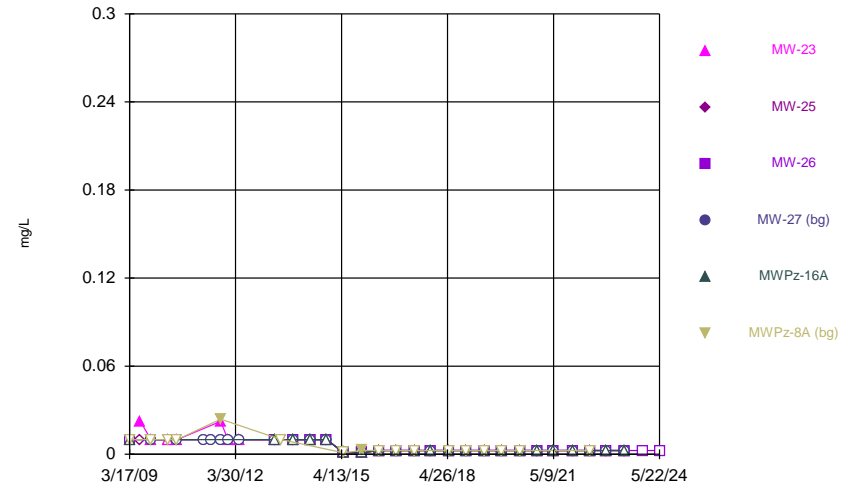
Constituent: Cobalt Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



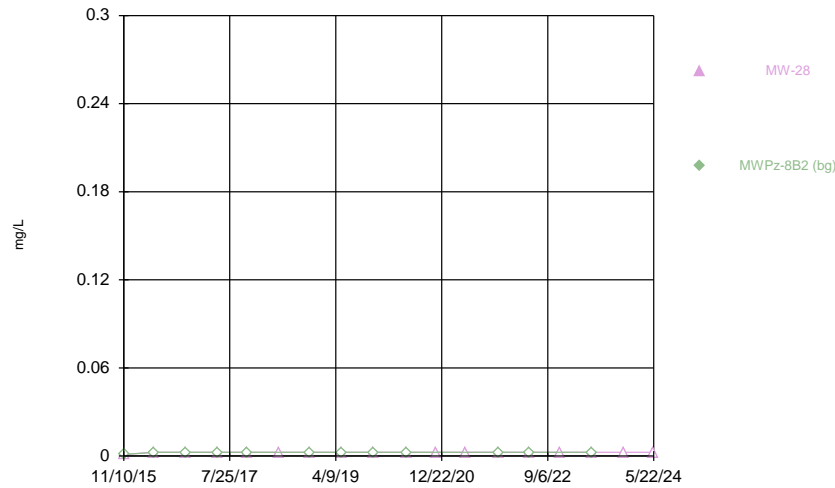
Constituent: Copper Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



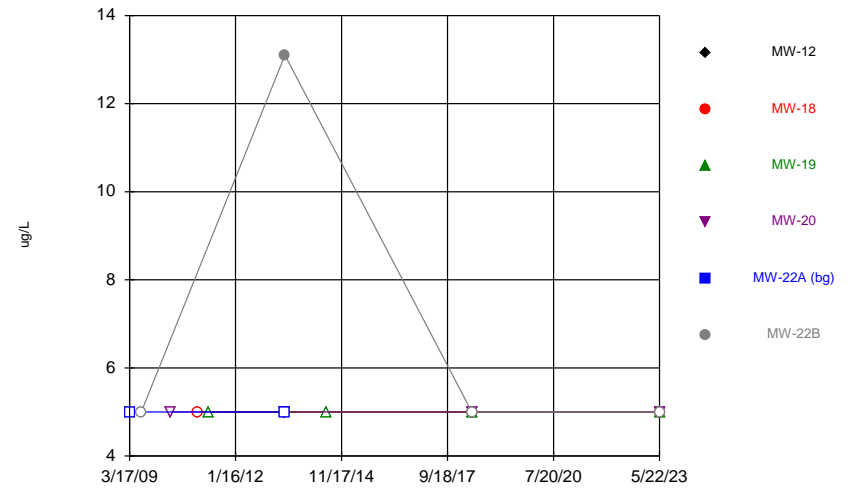
Constituent: Copper Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



Constituent: Copper Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

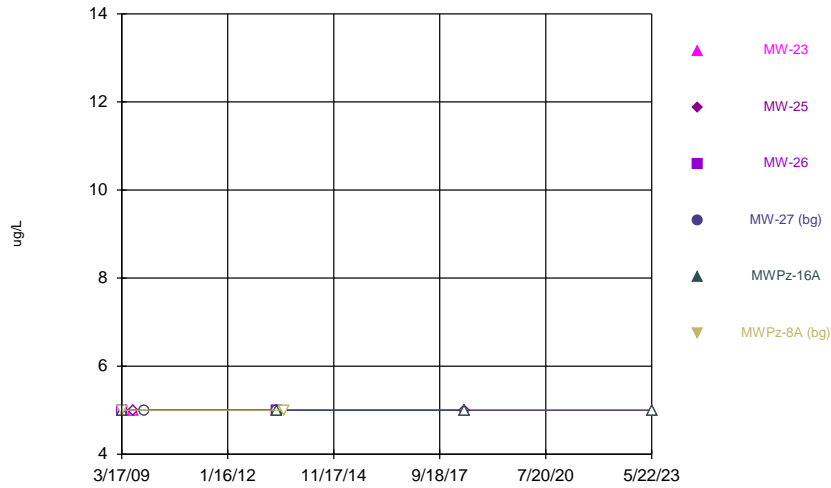
Time Series



Constituent: Cyanide Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

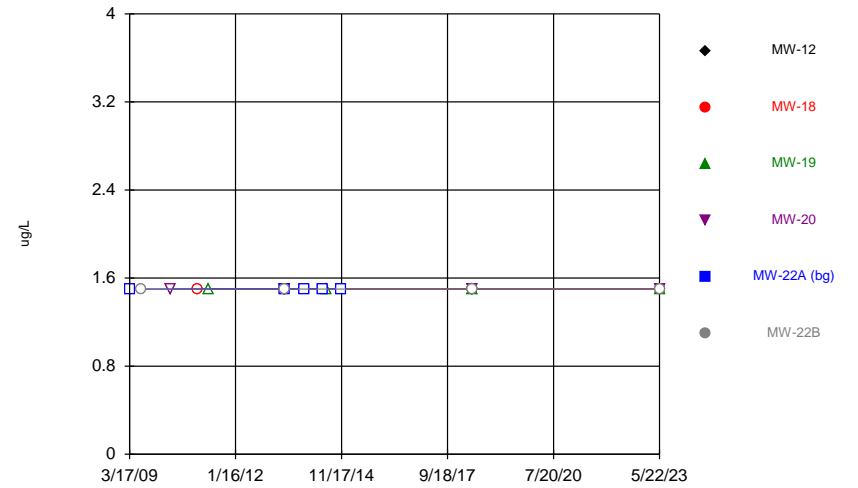


Time Series



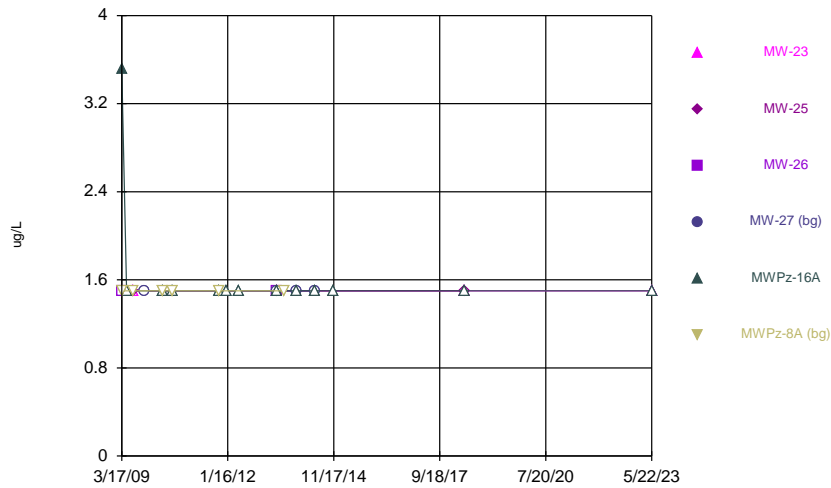
Constituent: Cyanide Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



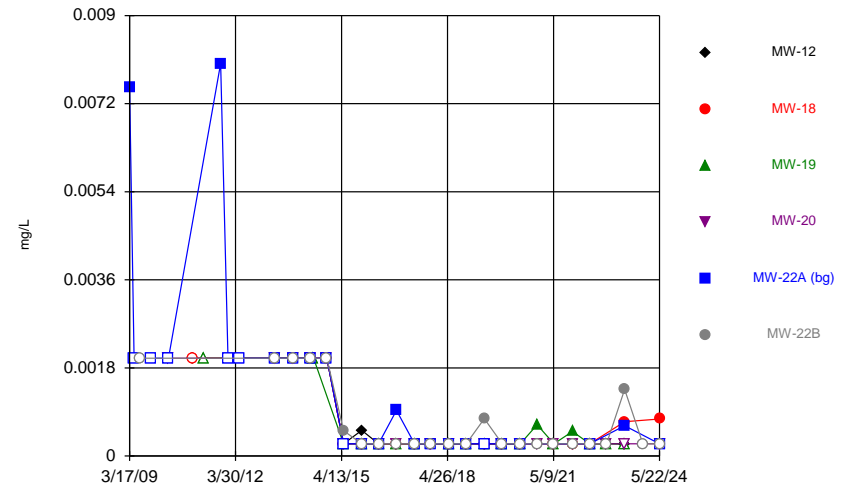
Constituent: Dichlorodifluoromethane Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



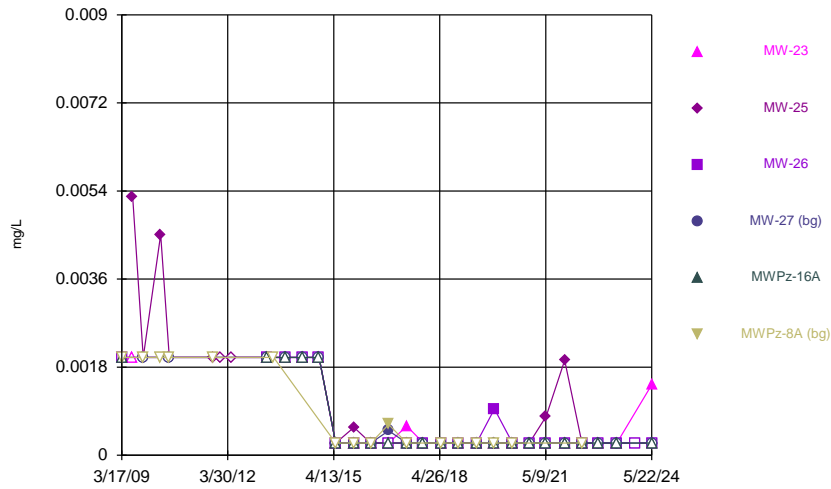
Constituent: Dichlorodifluoromethane Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



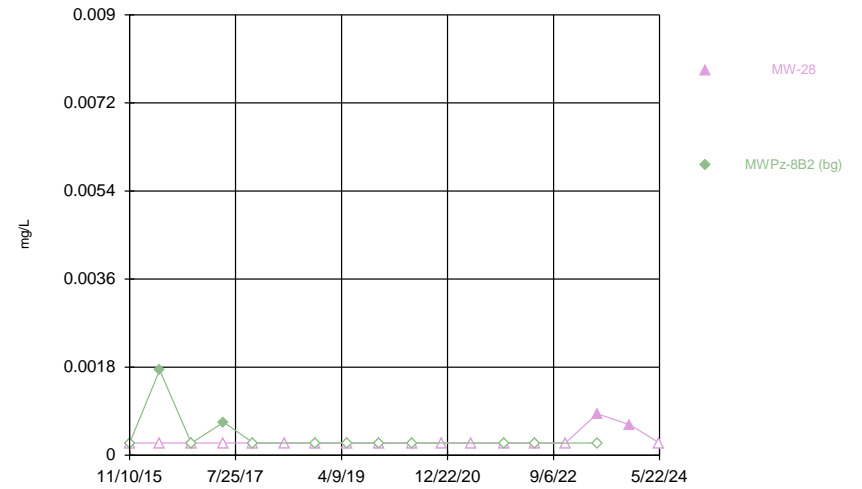
Constituent: Lead Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



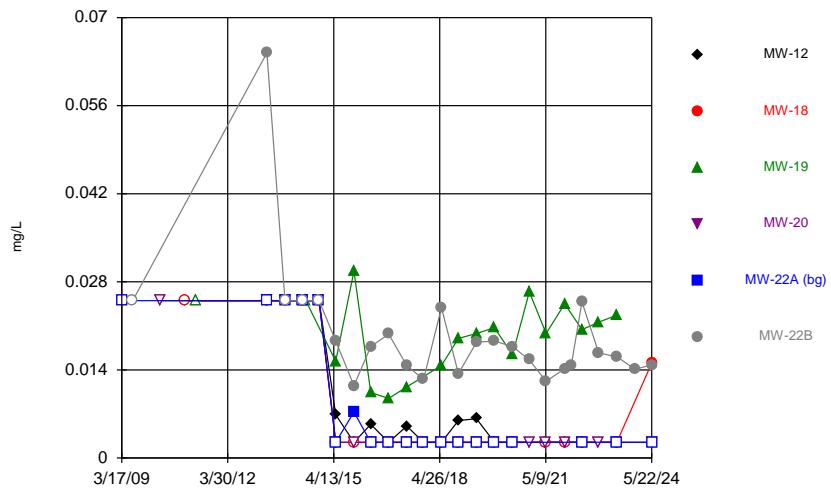
Constituent: Lead Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



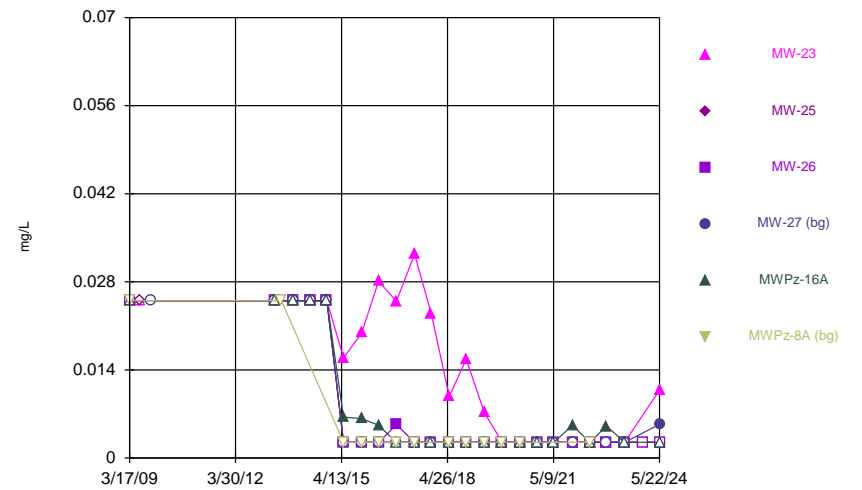
Constituent: Lead Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



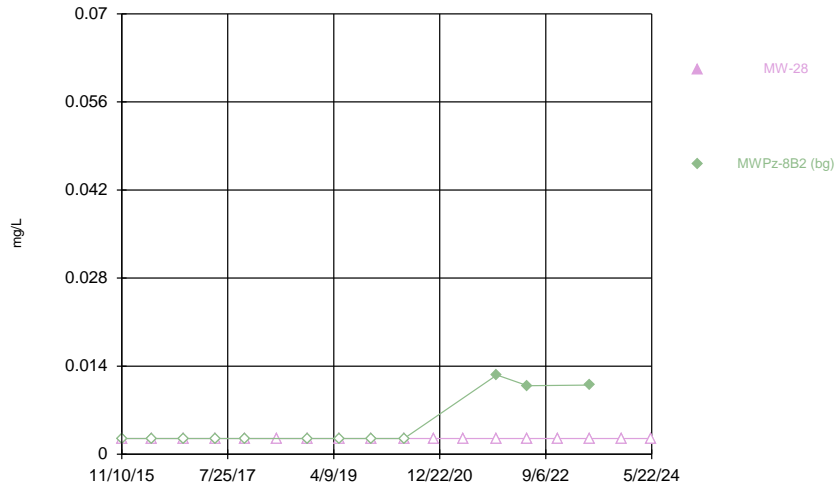
Constituent: Nickel Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



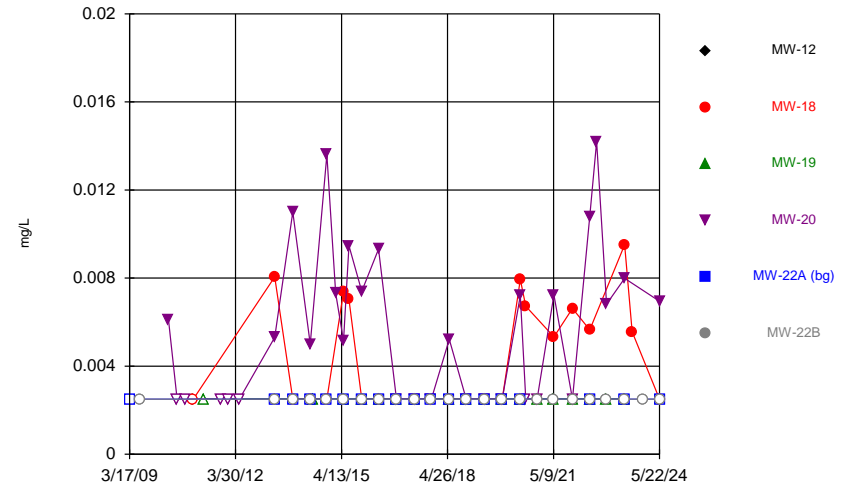
Constituent: Nickel Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



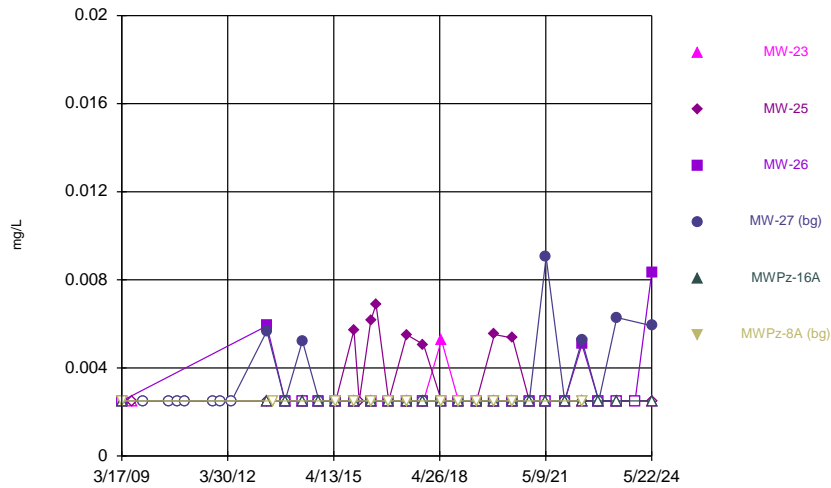
Constituent: Nickel Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



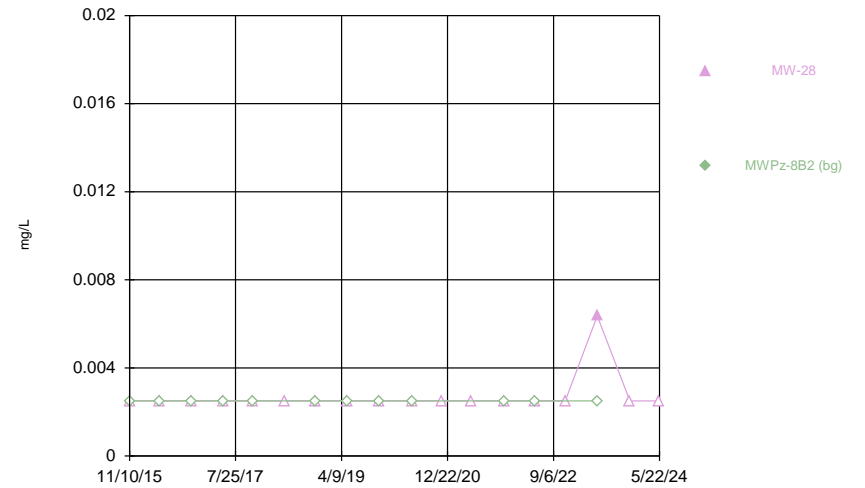
Constituent: Selenium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



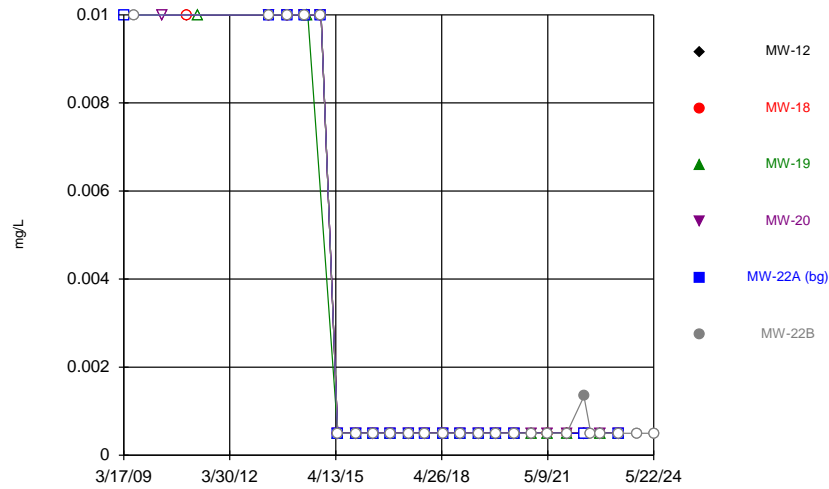
Constituent: Selenium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



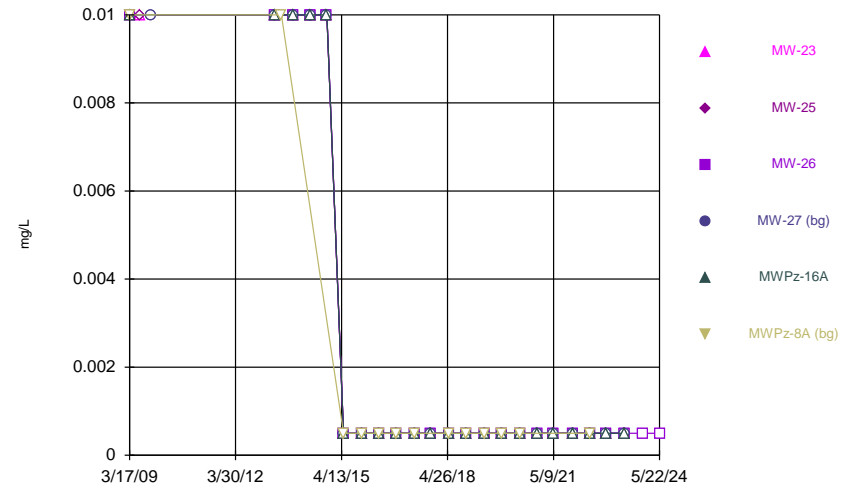
Constituent: Selenium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



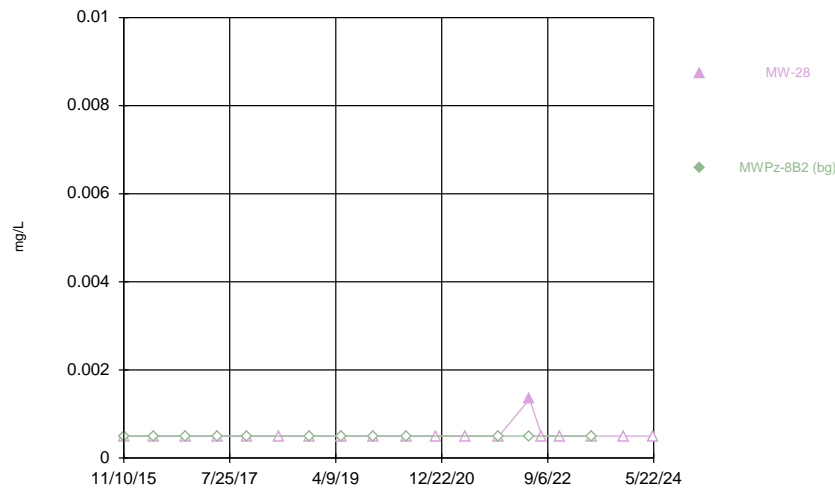
Constituent: Silver Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



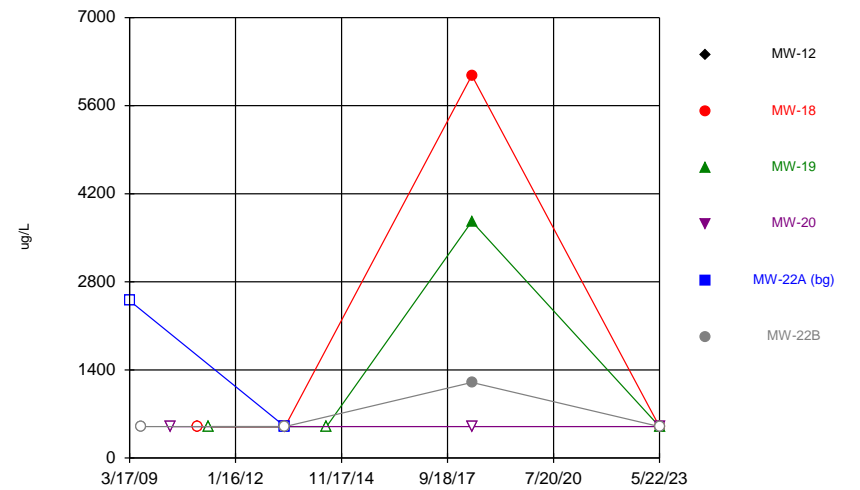
Constituent: Silver Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



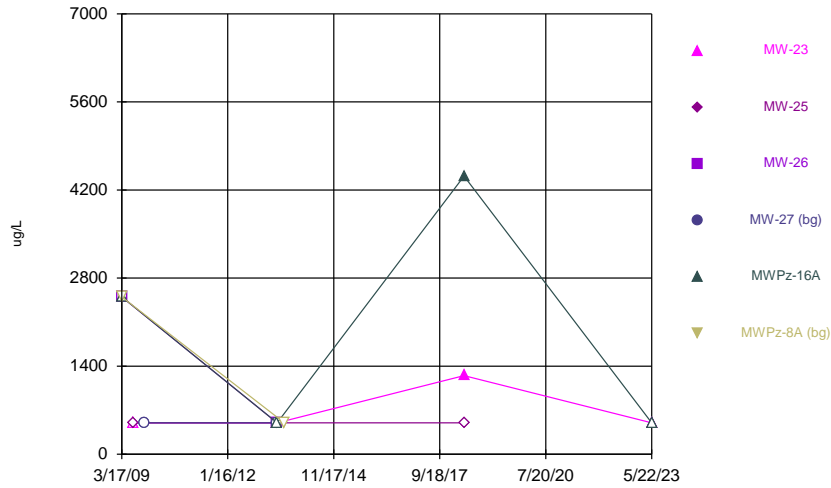
Constituent: Silver Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



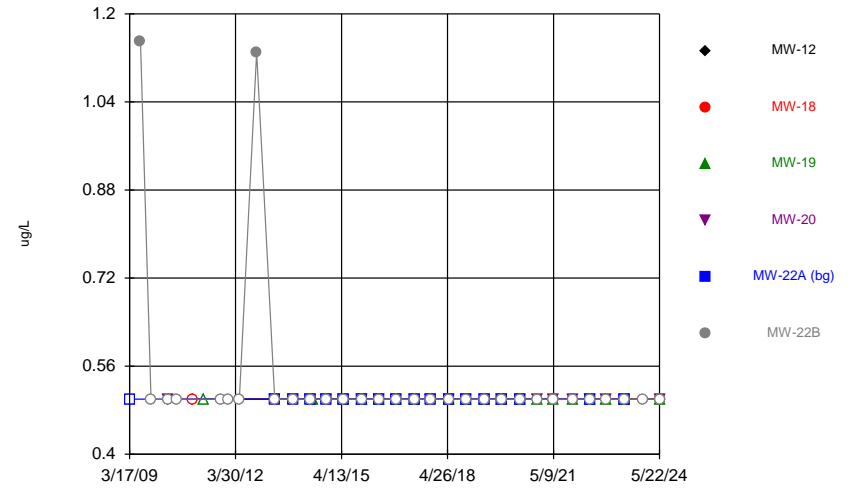
Constituent: Sulfide Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



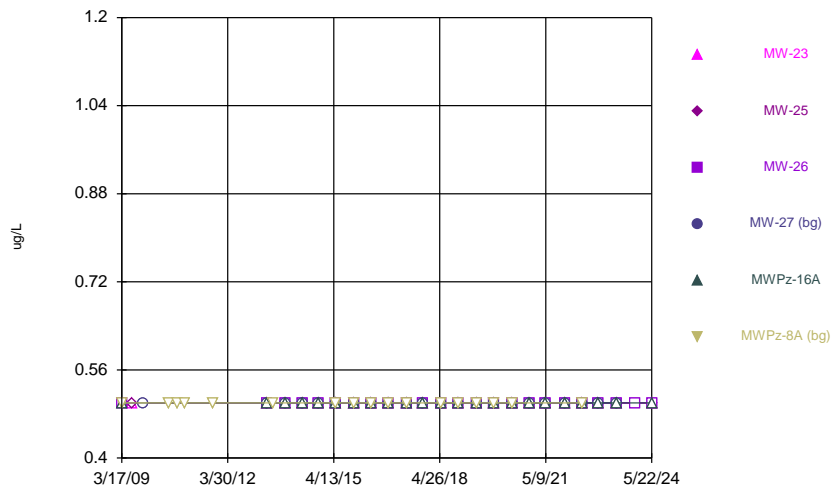
Constituent: Sulfide Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



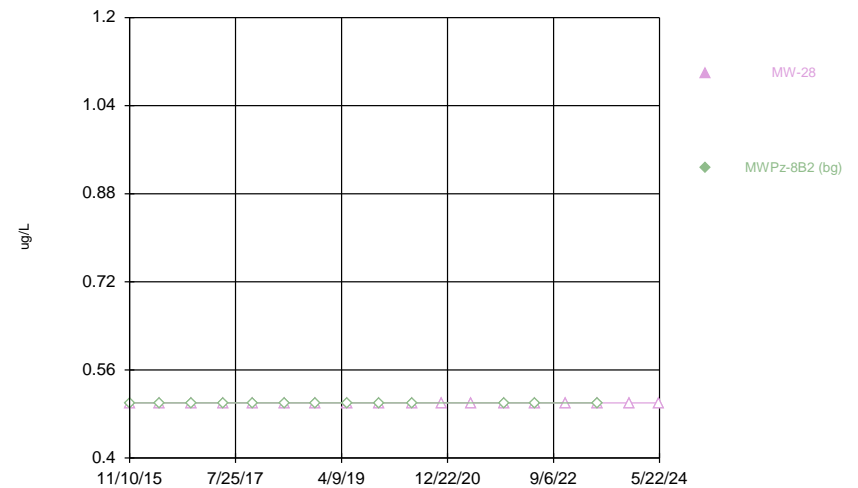
Constituent: Tetrachloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



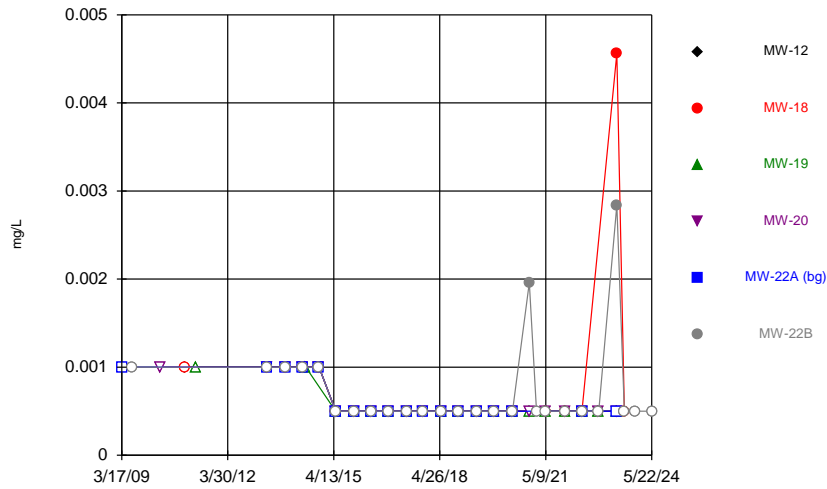
Constituent: Tetrachloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



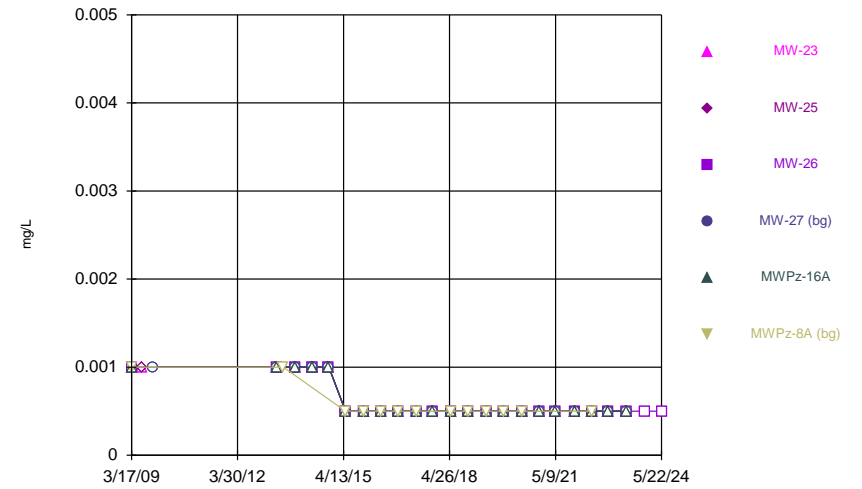
Constituent: Tetrachloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



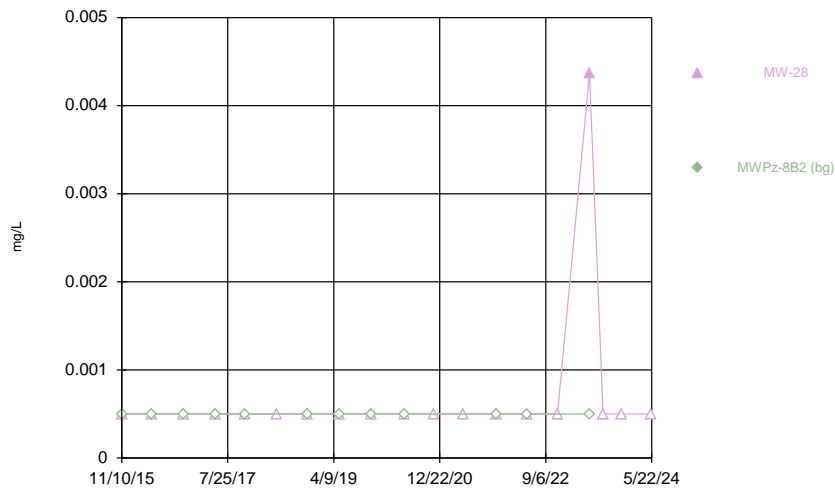
Constituent: Thallium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



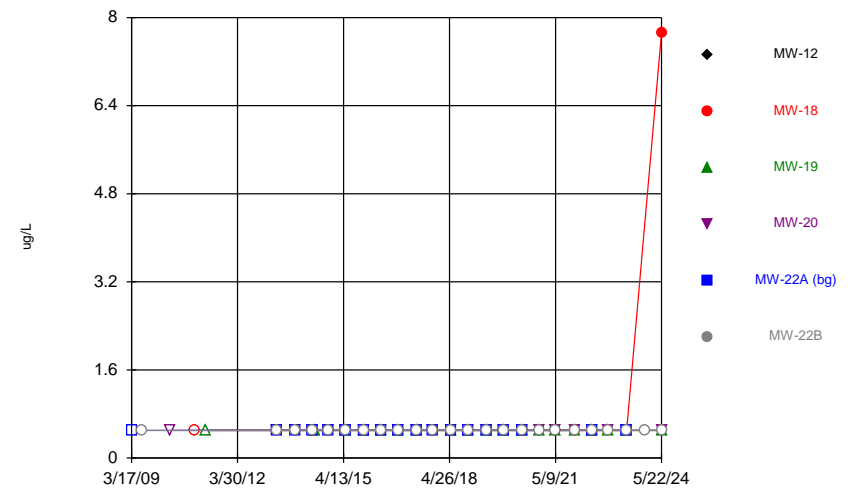
Constituent: Thallium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



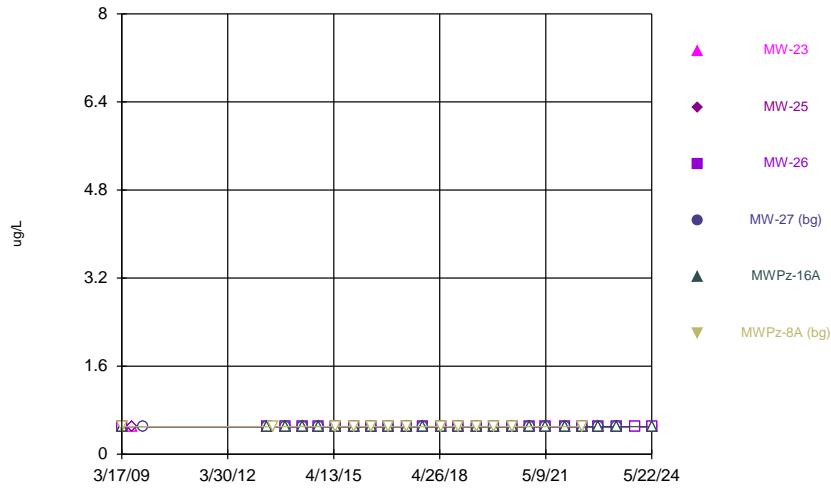
Constituent: Thallium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



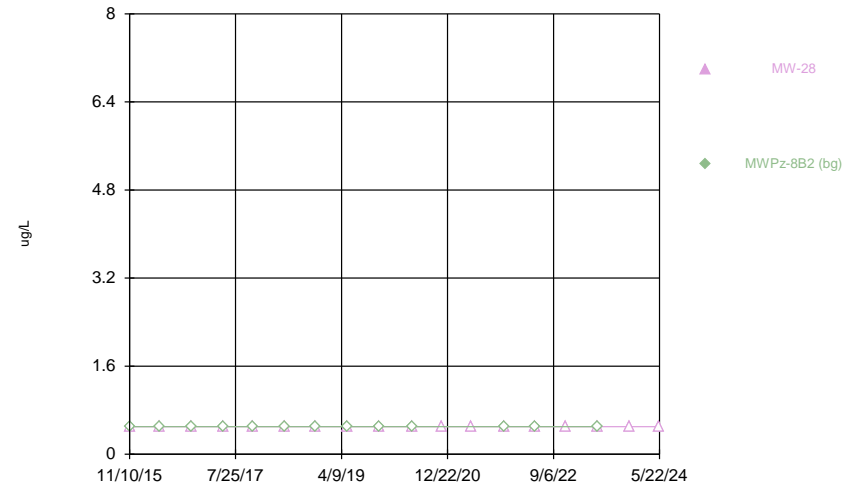
Constituent: Toluene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



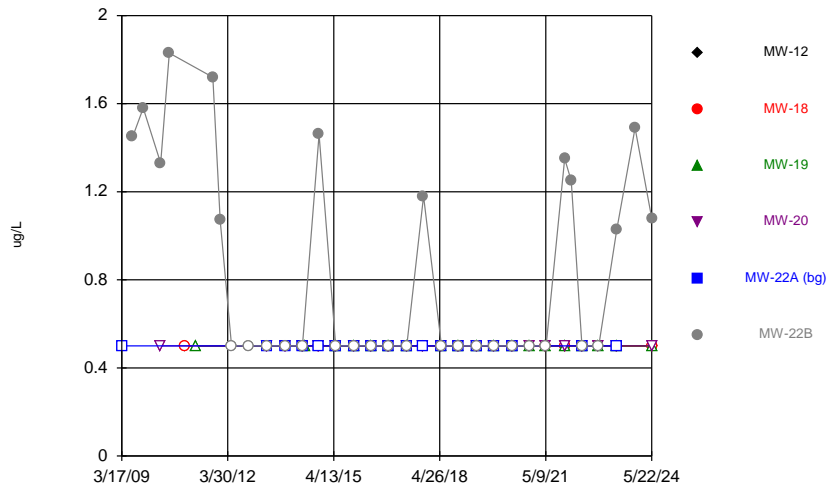
Constituent: Toluene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



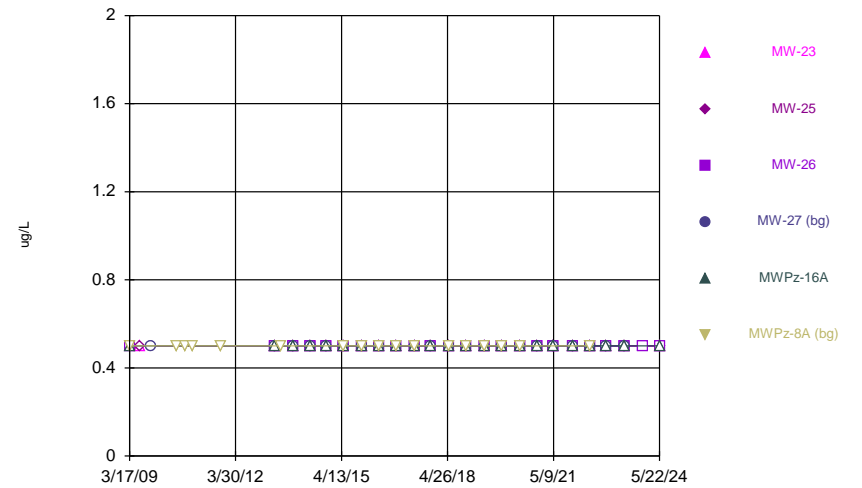
Constituent: Toluene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



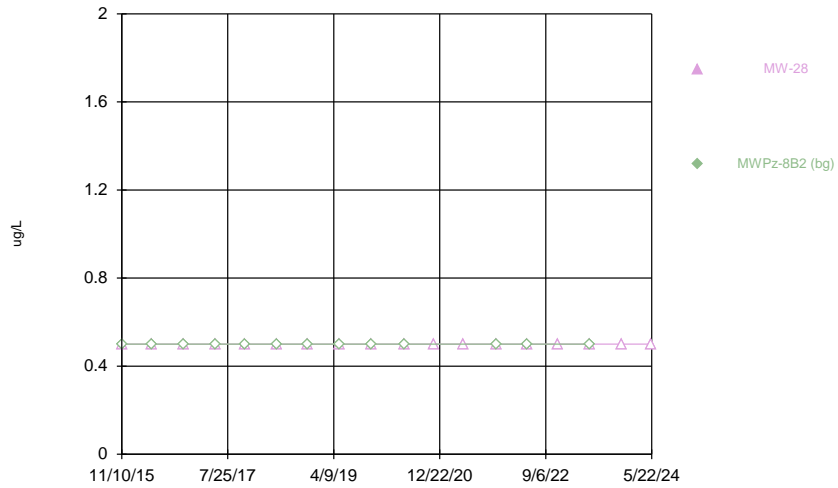
Constituent: trans-1,2-Dichloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



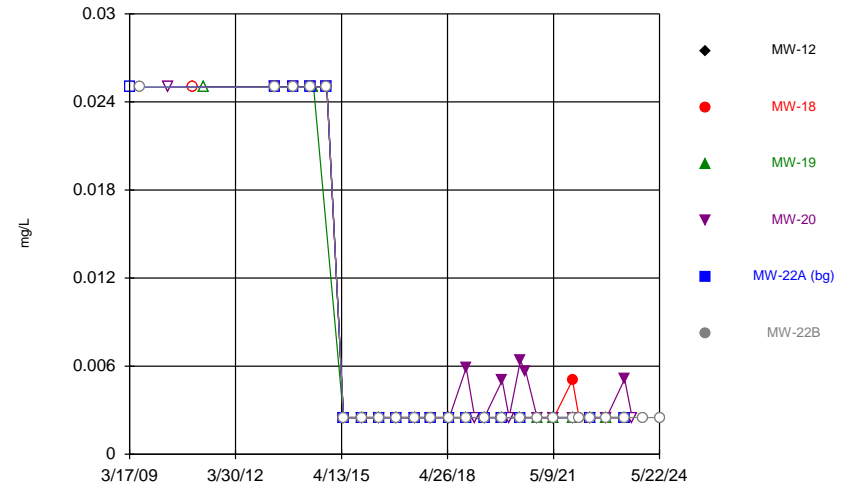
Constituent: trans-1,2-Dichloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



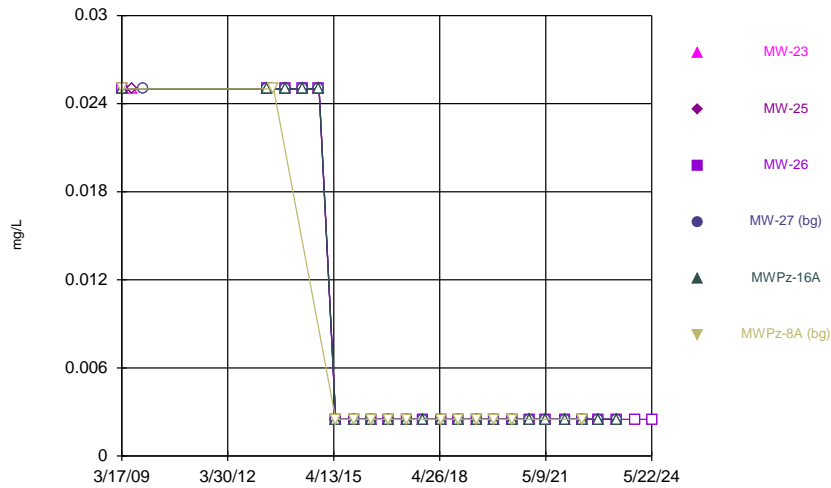
Constituent: trans-1,2-Dichloroethene Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



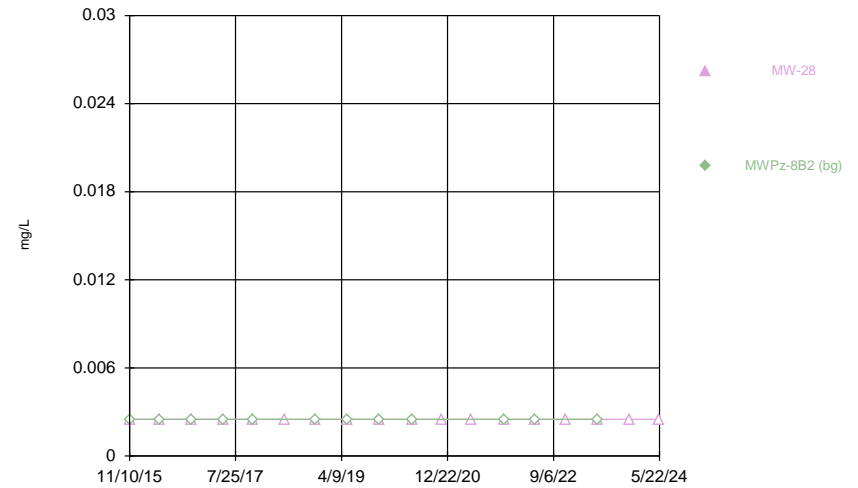
Constituent: Vanadium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



Constituent: Vanadium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

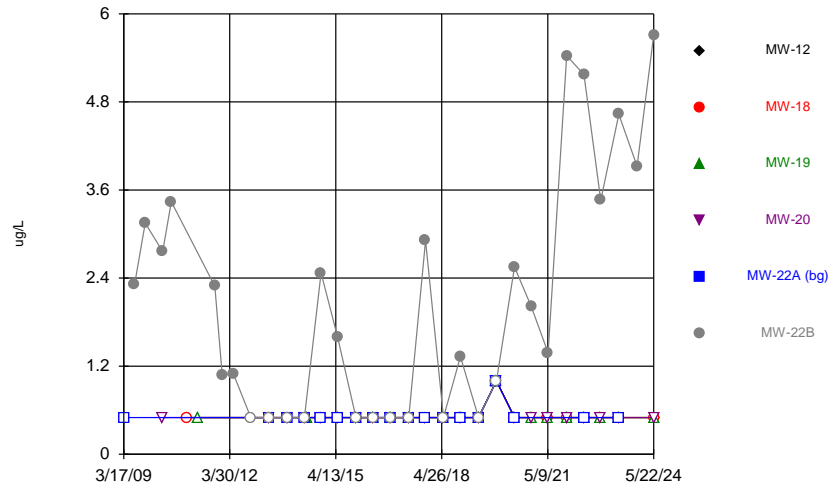
Time Series



Constituent: Vanadium Analysis Run 10/17/2024 11:34 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

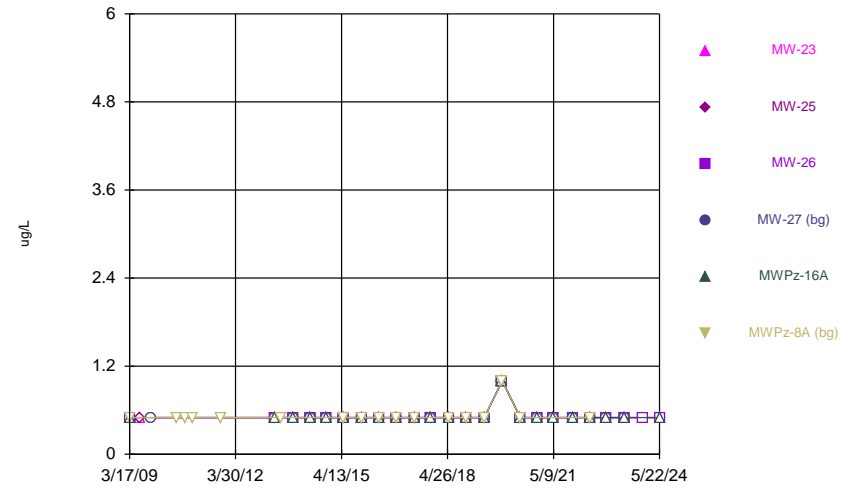


Time Series



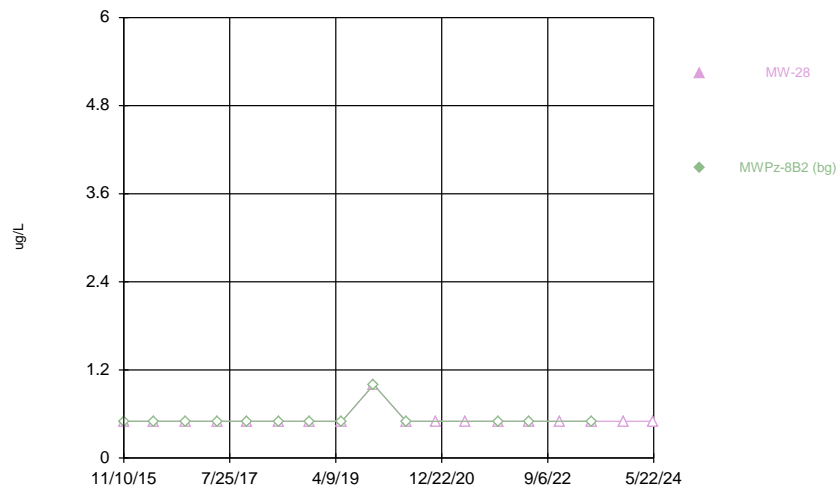
Constituent: Vinyl Chloride Analysis Run 10/17/2024 11:35 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



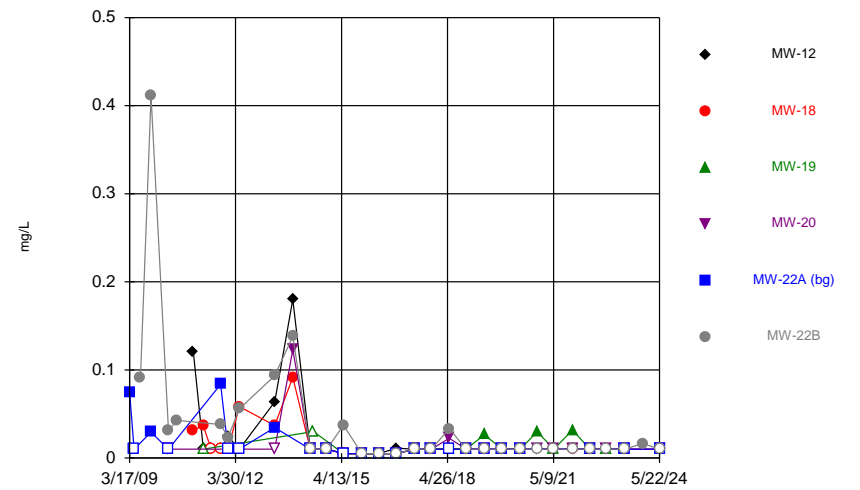
Constituent: Vinyl Chloride Analysis Run 10/17/2024 11:35 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



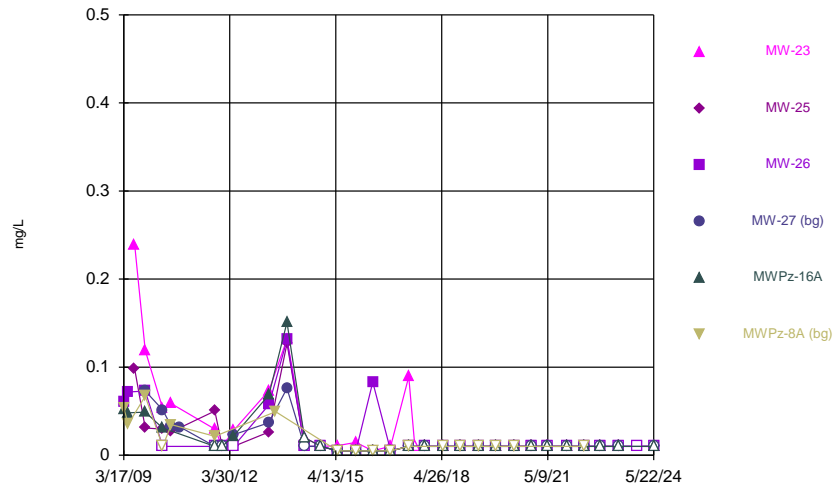
Constituent: Vinyl Chloride Analysis Run 10/17/2024 11:35 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



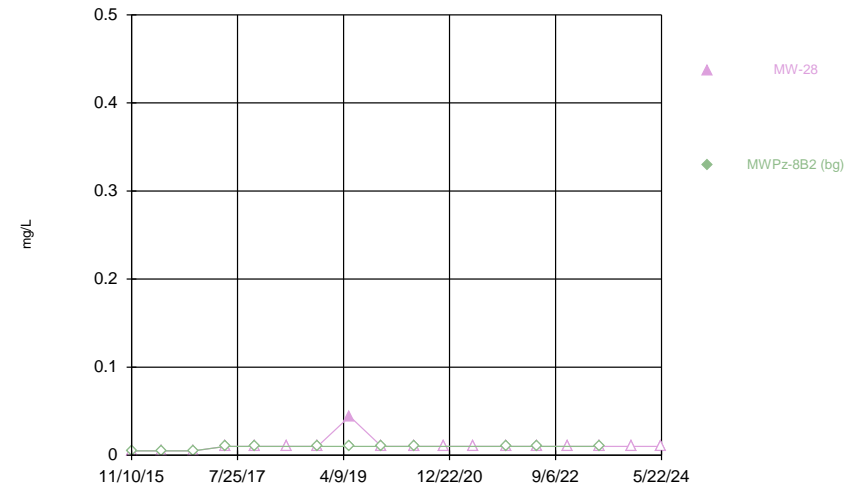
Constituent: Zinc Analysis Run 10/17/2024 11:35 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



Constituent: Zinc Analysis Run 10/17/2024 11:35 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



Constituent: Zinc Analysis Run 10/17/2024 11:35 AM View: 2024SSN -Time Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

## **Outliers Summary Table and Graphs**

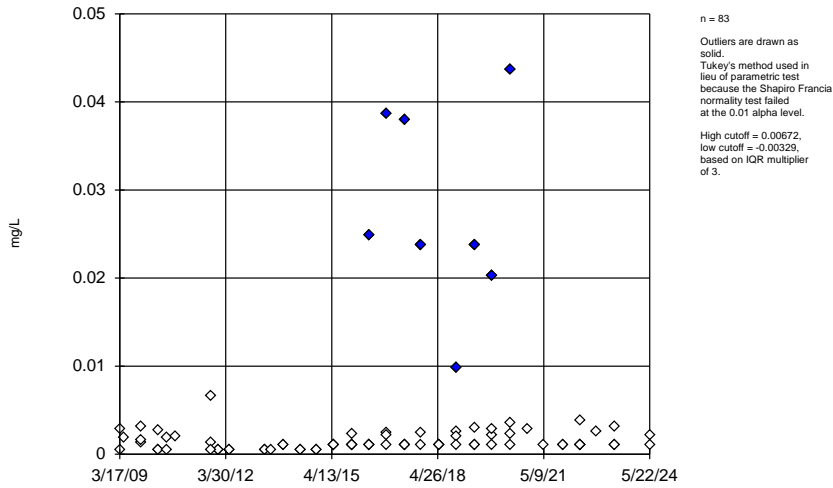
# BG Outlier Analysis

Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas Printed 10/17/2024, 11:46 AM

| <u>Constituent</u>    | <u>Well</u>                 | <u>Outlier</u> | <u>Value(s)</u>  | <u>Date(s)</u>           | <u>Method</u>      | <u>Alpha</u> | <u>N</u>  | <u>Mean</u>      | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|-----------------------|-----------------------------|----------------|--|--------------------------|--------------------|--------------|-----------|------------------|------------------|---------------------|-----------------------|
| <b>Arsenic (mg/L)</b> | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.0249,0.0386,0.0379,0.0238,0.0238,0.00975,0.0203</b> | <b>n/a w/combined bg</b> | <b>NP (nrm)/OH</b> | <b>NaN</b>   | <b>83</b> | <b>0.003988</b>  | <b>0.008558</b>  | <b>unknown</b>      | <b>ShapiroFrancia</b> |
| Barium (mg/L)         | MW-27,MWPz-8B2,MW...        | No             | n/a  | n/a w/combined bg        | EPA/OH             | 0.05         | 83        | 0.1227           | 0.1047           | ln(x)               | ShapiroFrancia        |
| Cadmium (mg/L)        | MW-22A,MW-27,MWPz...        | No             | n/a  | n/a w/combined bg        | NP (nrm)/OH        | NaN          | 83        | 0.0003772        | 0.0005264        | unknown             | ShapiroFrancia        |
| <b>Cobalt (mg/L)</b>  | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.01,0.01,0.0035,0.0035,0.0035,0.0035,0.0035,0.00</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>67</b> | <b>0.001278</b>  | <b>0.002219</b>  | <b>n/a</b>          | <b>n/a</b>            |
| <b>Copper (mg/L)</b>  | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.0345,0.0239,0.01,0.01,0.01,0.01,0.01,0.01,0.01,</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>79</b> | <b>0.005341</b>  | <b>0.00532</b>   | <b>n/a</b>          | <b>n/a</b>            |
| <b>Lead (mg/L)</b>    | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.00802,0.00754,0.002,0.002,0.002,0.002,0.002,0.0</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>78</b> | <b>0.0009604</b> | <b>0.001356</b>  | <b>n/a</b>          | <b>n/a</b>            |
| <b>Nickel (mg/L)</b>  | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.025,0.025,0.025,0.025,0.025,0.025,0.025,0.025</b>   | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>67</b> | <b>0.007047</b>  | <b>0.008674</b>  | <b>n/a</b>          | <b>n/a</b>            |
| Selenium (mg/L)       | MW-22A,MW-27,MWPz...        | No             | n/a  | n/a w/combined bg        | OH                 | NaN          | 73        | 0.002807         | 0.0011           | n/a                 | n/a                   |
| <b>Zinc (mg/L)</b>    | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.0836,0.076,0.075,0.0733,0.0671,0.0535,0.0514,0.</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>83</b> | <b>0.01681</b>   | <b>0.01822</b>   | <b>n/a</b>          | <b>n/a</b>            |

### Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

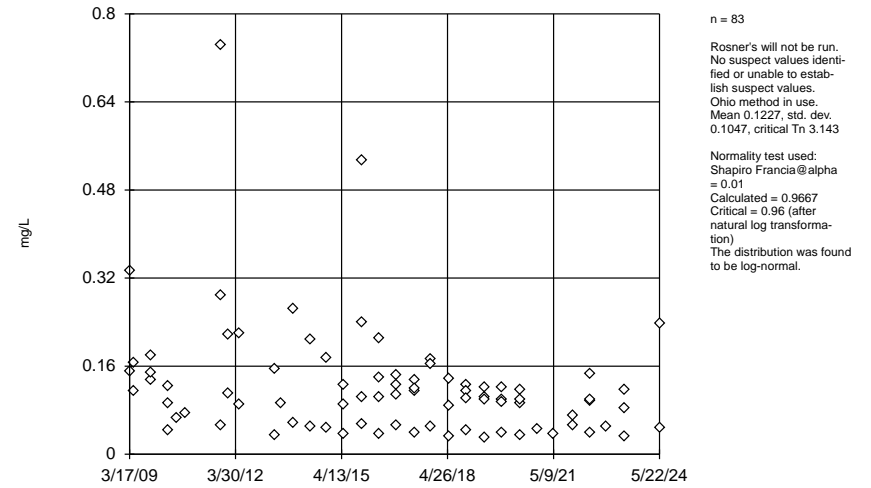
MW-22A,MW-27,MWPz-8A,MWPz-8B2



Constituent: Arsenic Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### EPA Screening (suspected outliers for Rosner's Test)

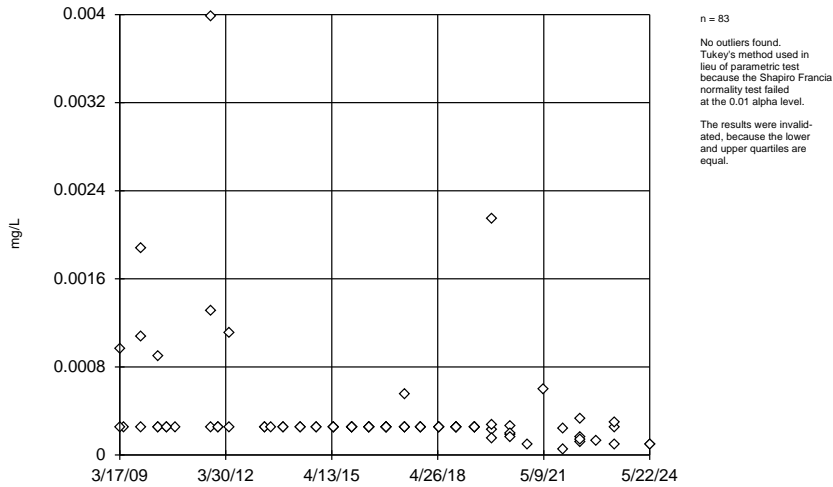
MW-27,MWPz-8B2,MWPz-8A,MW-22A



Constituent: Barium Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

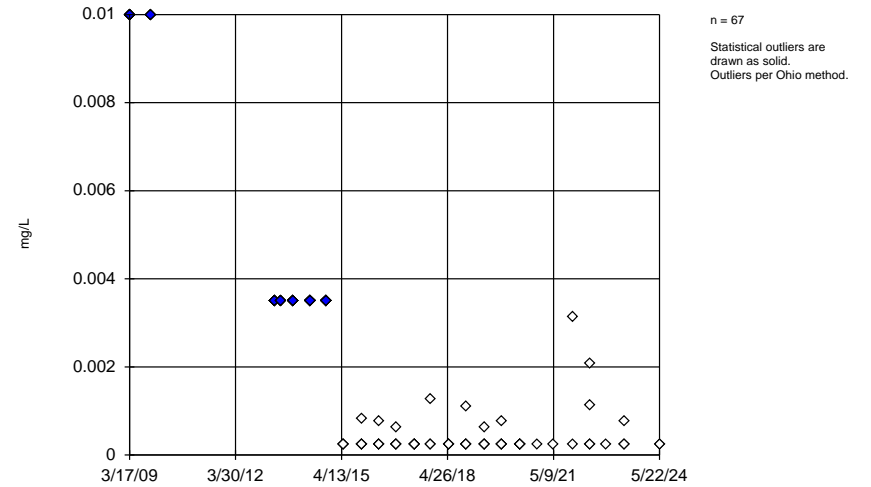
MW-22A,MW-27,MWPz-8A,MWPz-8B2



Constituent: Cadmium Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

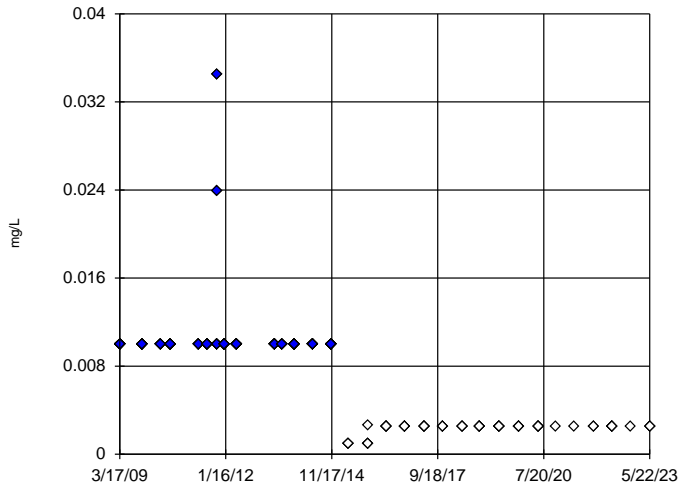
MW-22A,MW-27,MWPz-8A,MWPz-8B2



Constituent: Cobalt Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

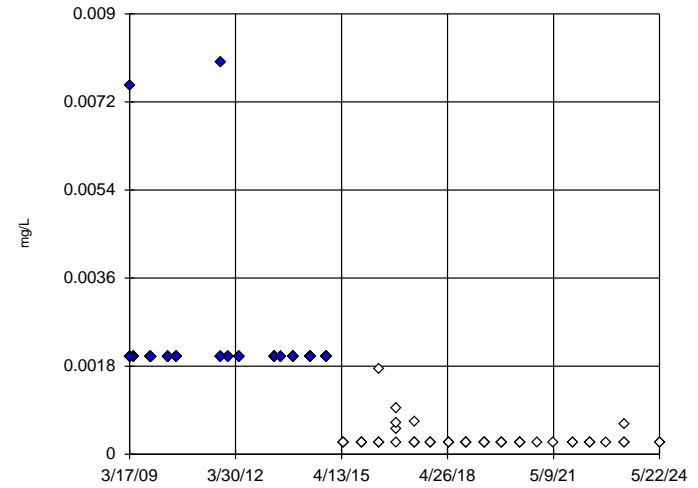


n = 79  
 Statistical outliers are drawn as solid.  
 Outliers per Ohio method.

Constituent: Copper Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

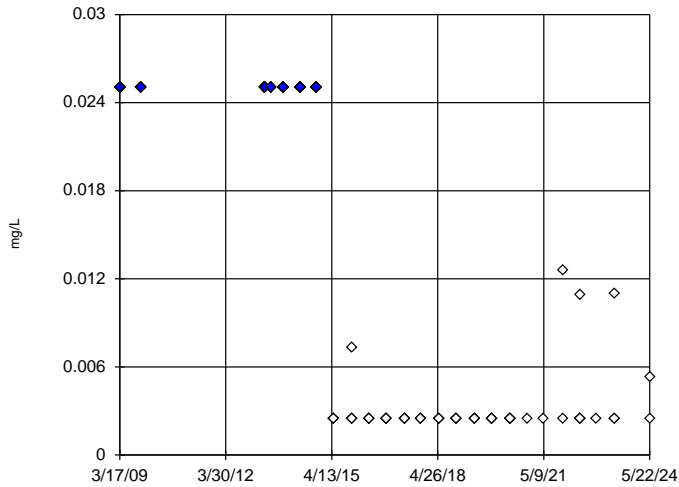


n = 78  
 Statistical outliers are drawn as solid.  
 Outliers per Ohio method.

Constituent: Lead Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

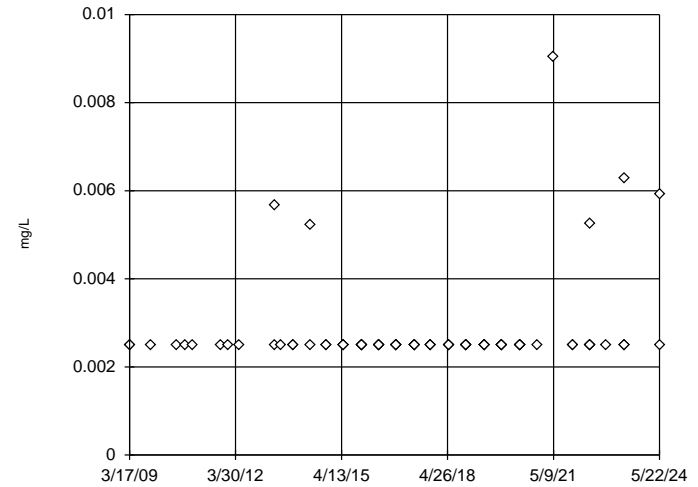


n = 67  
 Statistical outliers are drawn as solid.  
 Outliers per Ohio method.

Constituent: Nickel Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

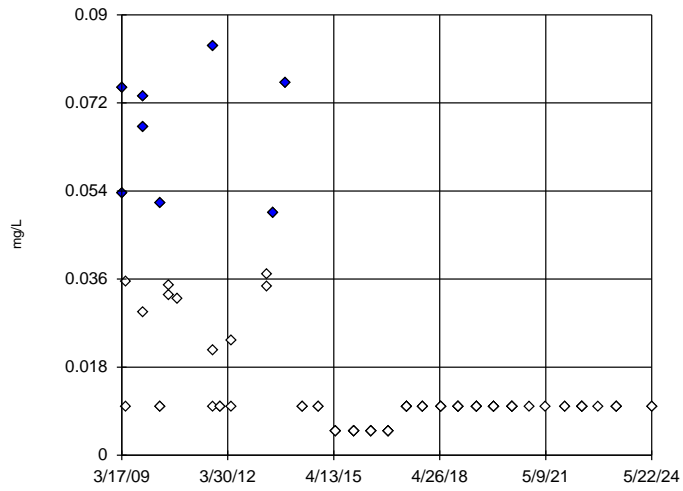


n = 73  
 No statistical outliers.

Constituent: Selenium Analysis Run 10/17/2024 11:41 AM View: 2024SSN - BG Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2



n = 83  
Statistical outliers are  
drawn as solid.  
Outliers per Ohio method.

Constituent: Zinc    Analysis Run 10/17/2024 11:41 AM    View: 2024SSN - BG Outliers  
Kossuth County SLF    Client: SCS Engineers    Data: Kossuth County HMSP Sanitas

## Prediction Limits Summary Table and Graphs



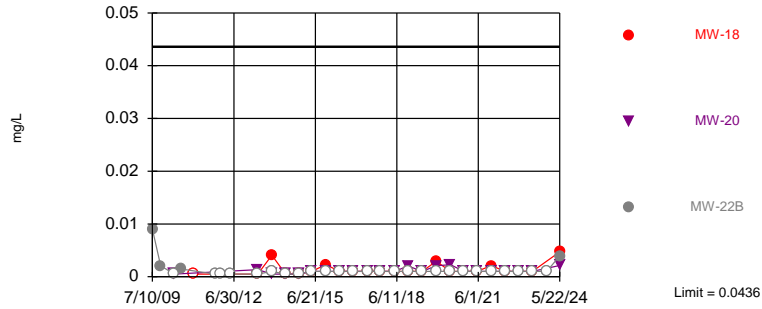
# Prediction Limit

Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas Printed 10/17/2024, 12:15 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>%NDs</u>  | <u>Transform</u> | <u>Alpha</u>     | <u>Method</u>                |
|----------------------|--------------|-------------------|-------------------|------------------|----------------|-------------|-------------|--------------|------------------|------------------|------------------------------|
| Arsenic (mg/L)       | MW-18        | 0.0436            | n/a               | 5/22/2024        | 0.00471        | No          | 83          | 56.63        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| Arsenic (mg/L)       | MW-20        | 0.0436            | n/a               | 5/22/2024        | 0.00213        | No          | 83          | 56.63        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| Arsenic (mg/L)       | MW-22B       | 0.0436            | n/a               | 5/22/2024        | 0.00394        | No          | 83          | 56.63        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| <b>Barium (mg/L)</b> | <b>MW-18</b> | <b>0.3781</b>     | <b>n/a</b>        | <b>5/22/2024</b> | <b>0.423</b>   | <b>Yes</b>  | <b>83</b>   | <b>0</b>     | <b>ln(x)</b>     | <b>0.0005852</b> | <b>Param Inter 1 of 2</b>    |
| Barium (mg/L)        | MW-20        | 0.3781            | n/a               | 5/22/2024        | 0.09035        | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Barium (mg/L)        | MW-22B       | 0.3781            | n/a               | 5/22/2024        | 0.345          | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Barium (mg/L)        | MW-23        | 0.3781            | n/a               | 5/22/2024        | 0.369          | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Barium (mg/L)        | MW-25        | 0.3781            | n/a               | 5/22/2024        | 0.0894         | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Barium (mg/L)        | MW-26        | 0.3781            | n/a               | 5/22/2024        | 0.0851         | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Barium (mg/L)        | MWPz-16A     | 0.3781            | n/a               | 5/22/2024        | 0.312          | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Barium (mg/L)        | MW-28        | 0.3781            | n/a               | 5/22/2024        | 0.0715         | No          | 83          | 0            | ln(x)            | 0.0005852        | Param Inter 1 of 2           |
| Cadmium (mg/L)       | MW-18        | 0.00398           | n/a               | 5/22/2024        | 0.000483       | No          | 83          | 68.67        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| Cadmium (mg/L)       | MW-23        | 0.00398           | n/a               | 5/22/2024        | 0.000208       | No          | 83          | 68.67        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| <b>Cobalt (mg/L)</b> | <b>MW-18</b> | <b>0.01</b>       | <b>n/a</b>        | <b>5/22/2024</b> | <b>0.0367</b>  | <b>Yes</b>  | <b>67</b>   | <b>83.58</b> | <b>n/a</b>       | <b>0.0004243</b> | <b>NP Inter (NDs) 1 of 2</b> |
| Cobalt (mg/L)        | MW-22B       | 0.01              | n/a               | 5/22/2024        | 0.00338        | No          | 67          | 83.58        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Cobalt (mg/L)        | MW-23        | 0.01              | n/a               | 5/22/2024        | 0.00147        | No          | 67          | 83.58        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Cobalt (mg/L)        | MWPz-16A     | 0.01              | n/a               | 5/22/2024        | 0.00071        | No          | 67          | 83.58        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Lead (mg/L)          | MW-18        | 0.00802           | n/a               | 5/22/2024        | 0.000756       | No          | 78          | 89.74        | n/a              | 0.0003146        | NP Inter (NDs) 1 of 2        |
| Lead (mg/L)          | MW-23        | 0.00802           | n/a               | 5/22/2024        | 0.00144        | No          | 78          | 89.74        | n/a              | 0.0003146        | NP Inter (NDs) 1 of 2        |
| Nickel (mg/L)        | MW-18        | 0.025             | n/a               | 5/22/2024        | 0.0151         | No          | 67          | 92.54        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Nickel (mg/L)        | MW-22B       | 0.025             | n/a               | 5/22/2024        | 0.0148         | No          | 67          | 92.54        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Nickel (mg/L)        | MW-23        | 0.025             | n/a               | 5/22/2024        | 0.0108         | No          | 67          | 92.54        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Selenium (mg/L)      | MW-20        | 0.00904           | n/a               | 5/22/2024        | 0.006945       | No          | 73          | 91.78        | n/a              | 0.0003584        | NP Inter (NDs) 1 of 2        |
| Selenium (mg/L)      | MW-26        | 0.00904           | n/a               | 5/22/2024        | 0.00832        | No          | 73          | 91.78        | n/a              | 0.0003584        | NP Inter (NDs) 1 of 2        |

Within Limit

Prediction Limit  
Interwell Non-parametric

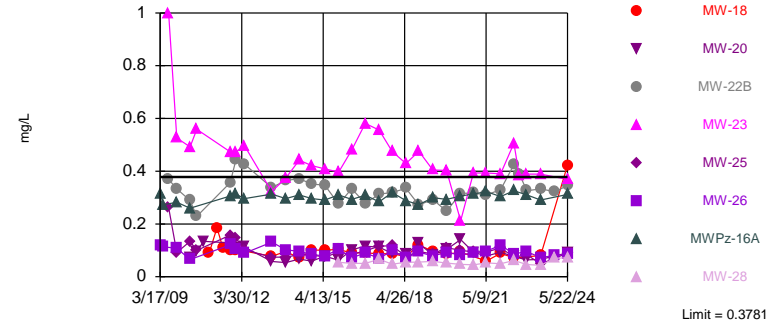


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 56.63% NDs. Annual per-constituent alpha = 0.005563. Individual comparison alpha = 0.0002789 (1 of 2). Comparing 3 points to limit. Assumes 7 future values.

Constituent: Arsenic Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Exceeds Limit: MW-18

Prediction Limit  
Interwell Parametric

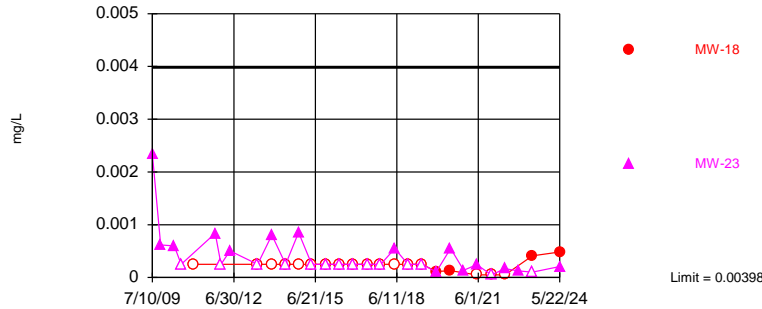


Background Data Summary (based on natural log transformation): Mean=-2.332, Std. Dev.=0.6645, n=83. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9667, critical = 0.96. Kappa = 2.045 (c=9, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.005836. Individual comparison alpha = 0.0005852. Comparing 8 points to limit. Assumes 2 future values.

Constituent: Barium Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Within Limit

Prediction Limit  
Interwell Non-parametric

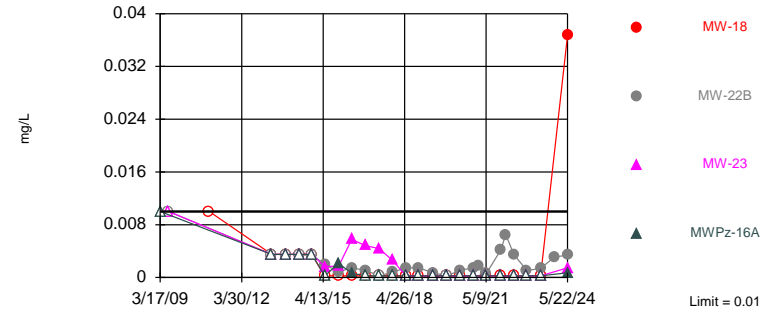


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 68.67% NDs. Annual per-constituent alpha = 0.005563. Individual comparison alpha = 0.0002789 (1 of 2). Comparing 2 points to limit. Assumes 8 future values.

Constituent: Cadmium Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Exceeds Limit: MW-18

Prediction Limit  
Interwell Non-parametric

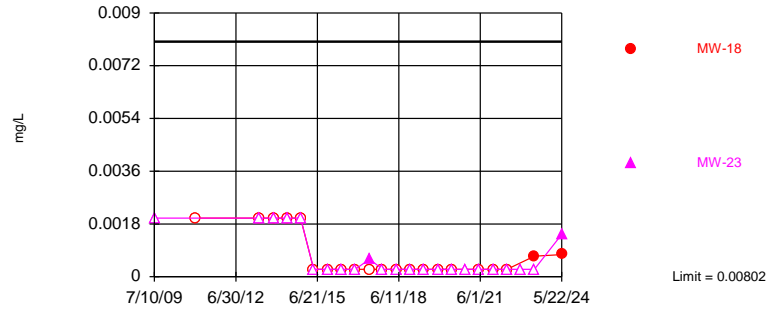


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 67 background values. 83.58% NDs. Annual per-constituent alpha = 0.008453. Individual comparison alpha = 0.0004243 (1 of 2). Comparing 4 points to limit. Assumes 6 future values.

Constituent: Cobalt Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Within Limit

### Prediction Limit Interwell Non-parametric

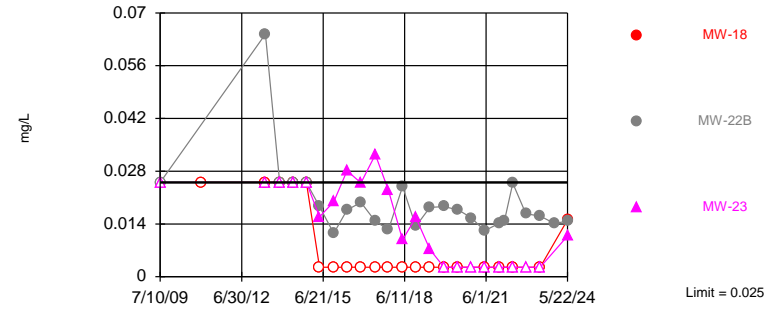


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 78 background values. 89.74% NDs. Annual per-constituent alpha = 0.006274. Individual comparison alpha = 0.0003146 (1 of 2). Comparing 2 points to limit. Assumes 8 future values.

Constituent: Lead Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Within Limit

### Prediction Limit Interwell Non-parametric

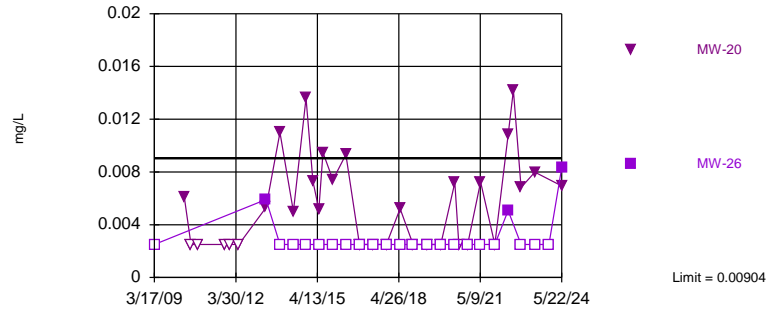


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 67 background values. 92.54% NDs. Annual per-constituent alpha = 0.008453. Individual comparison alpha = 0.0004243 (1 of 2). Comparing 3 points to limit. Assumes 7 future values.

Constituent: Nickel Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Within Limit

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 73 background values. 91.78% NDs. Annual per-constituent alpha = 0.007143. Individual comparison alpha = 0.0003584 (1 of 2). Comparing 2 points to limit. Assumes 8 future values.

Constituent: Selenium Analysis Run 10/17/2024 12:14 PM View: 2024SSN - DM and AM PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

## **Mann-Kendall Trend Test Summary Table and Graphs**

# Trend Test

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-HMSP-2024SSN-AM    Printed 10/17/2024, 12:48 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> |
|--------------------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|--------------|---------------|
| 1,1-Dichloroethane (ug/L)            | MW-19         | 0.2948       | 16           | 21              | No          | 8        | 0           | 0.01         | NP            |
| 1,1-Dichloroethane (ug/L)            | MWPz-16A      | 0.06806      | 8            | 21              | No          | 8        | 0           | 0.01         | NP            |
| 4,4'-DDD (ug/L)                      | MW-19         | 0.001355     | 3            | 12              | No          | 5        | 80          | 0.01         | NP            |
| Acetone (ug/L)                       | MW-18         | 2.5          | 18           | 21              | No          | 8        | 62.5        | 0.01         | NP            |
| Acetone (ug/L)                       | MW-19         | 0            | -4           | -21             | No          | 8        | 50          | 0.01         | NP            |
| Acetone (ug/L)                       | MW-22B        | 0            | 9            | 21              | No          | 8        | 75          | 0.01         | NP            |
| Arsenic (mg/L)                       | MW-18         | 0            | 4            | 21              | No          | 8        | 62.5        | 0.01         | NP            |
| Arsenic (mg/L)                       | MW-19         | 0.01601      | 20           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Arsenic (mg/L)                       | MW-20         | 0            | -1           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Arsenic (mg/L)                       | MW-22B        | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Barium (mg/L)                        | MW-18         | -0.002086    | -2           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MW-19         | 0.07048      | 18           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MW-20         | -0.01106     | -15          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MW-22B        | 0.003357     | 2            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MW-23         | -0.003823    | -16          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MW-25         | -0.00703     | -14          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MW-28         | 0.006043     | 10           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                        | MWPz-16A      | -0.0009547   | -2           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Benzene (ug/L)                       | MW-19         | 0            | 0            | 21              | No          | 8        | 50          | 0.01         | NP            |
| Benzene (ug/L)                       | MW-22B        | 0.6681       | 16           | 21              | No          | 8        | 12.5        | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-18         | 0.00001537   | 3            | 21              | No          | 8        | 50          | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-19         | -0.0001181   | -9           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-20         | -0.000008374 | -5           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-22B        | -0.0000388   | -4           | -21             | No          | 8        | 12.5        | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-23         | -0.00005786  | -8           | -21             | No          | 8        | 25          | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-25         | -0.00006327  | -15          | -21             | No          | 8        | 25          | 0.01         | NP            |
| Cadmium (mg/L)                       | MW-28         | -0.00001105  | -7           | -21             | No          | 8        | 25          | 0.01         | NP            |
| Cadmium (mg/L)                       | MWPz-16A      | -0.00001154  | -7           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Chromium (mg/L)                      | MW-22B        | 0            | 5            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| <b>cis-1,2-Dichloroethene (ug/L)</b> | <b>MW-22B</b> | <b>11.7</b>  | <b>22</b>    | <b>21</b>       | <b>Yes</b>  | <b>8</b> | <b>0</b>    | <b>0.01</b>  | <b>NP</b>     |
| cis-1,2-Dichloroethene (ug/L)        | MWPz-16A      | -0.01799     | -4           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Cobalt (mg/L)                        | MW-18         | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                        | MW-19         | 0.00009251   | 0            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Cobalt (mg/L)                        | MW-22B        | 0.0001206    | 0            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Cobalt (mg/L)                        | MW-23         | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                        | MW-25         | 0            | -1           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                        | MW-28         | 0            | 5            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                        | MWPz-16A      | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cyanide (ug/L)                       | MW-22B        | 0            | -1           | -8              | No          | 4        | 75          | 0.01         | NP            |
| Lead (mg/L)                          | MW-18         | 0            | 13           | 21              | No          | 8        | 75          | 0.01         | NP            |
| Lead (mg/L)                          | MW-19         | 0            | -3           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Lead (mg/L)                          | MW-22B        | 0            | 3            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Lead (mg/L)                          | MW-23         | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Lead (mg/L)                          | MW-25         | 0            | -3           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Lead (mg/L)                          | MW-28         | 0            | 7            | 21              | No          | 8        | 75          | 0.01         | NP            |
| Nickel (mg/L)                        | MW-18         | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Nickel (mg/L)                        | MW-19         | 0.0008882    | 6            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Nickel (mg/L)                        | MW-22B        | 0.0008019    | 6            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Nickel (mg/L)                        | MW-23         | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Nickel (mg/L)                        | MWPz-16A      | 0            | 1            | 21              | No          | 8        | 75          | 0.01         | NP            |

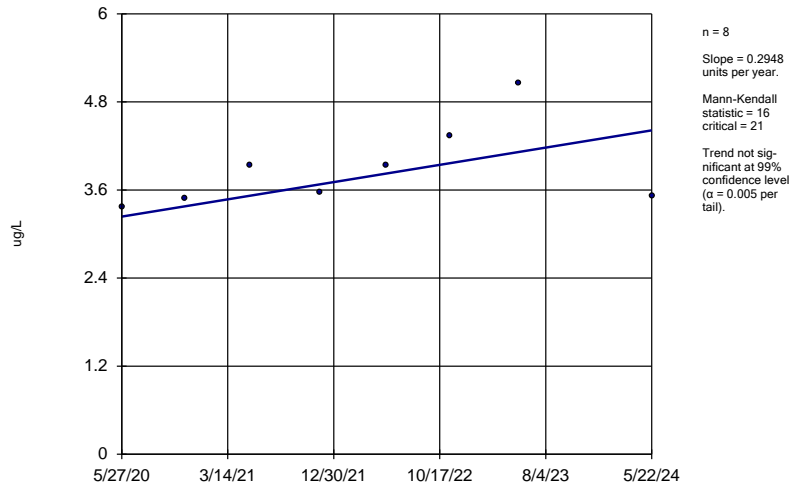
# Trend Test

Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM Printed 10/17/2024, 12:48 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> |
|---------------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|--------------|---------------|
| Selenium (mg/L)                 | MW-18       | -0.0008133   | -12          | -21             | No          | 8        | 12.5        | 0.01         | NP            |
| Selenium (mg/L)                 | MW-20       | 0.001524     | 7            | 21              | No          | 8        | 25          | 0.01         | NP            |
| Selenium (mg/L)                 | MW-25       | 0            | -7           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Selenium (mg/L)                 | MW-28       | 0            | 3            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Silver (mg/L)                   | MW-22B      | 0            | -3           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Silver (mg/L)                   | MW-28       | 0            | -3           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-18       | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-19       | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-22B      | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-23       | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MWPz-16A    | -70.48       | -1           | -8              | No          | 4        | 75          | 0.01         | NP            |
| Thallium (mg/L)                 | MW-18       | 0            | 5            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Thallium (mg/L)                 | MW-22B      | 0            | 1            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Thallium (mg/L)                 | MW-28       | 0            | 1            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Toluene (ug/L)                  | MW-18       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| trans-1,2-Dichloroethene (ug/L) | MW-22B      | 0.0596       | 5            | 21              | No          | 8        | 37.5        | 0.01         | NP            |
| Vanadium (mg/L)                 | MW-18       | 0            | 1            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Vanadium (mg/L)                 | MW-20       | 0            | -3           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Vinyl Chloride (ug/L)           | MW-22B      | 0.8629       | 10           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Zinc (mg/L)                     | MW-19       | 0            | -1           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Zinc (mg/L)                     | MW-22B      | 0            | 5            | 21              | No          | 8        | 87.5        | 0.01         | NP            |

### Sen's Slope Estimator

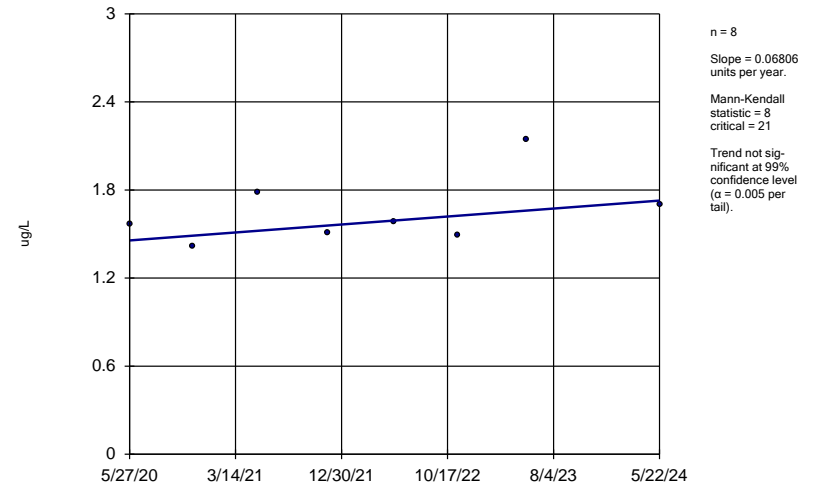
MW-19



Constituent: 1,1-Dichloroethane Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

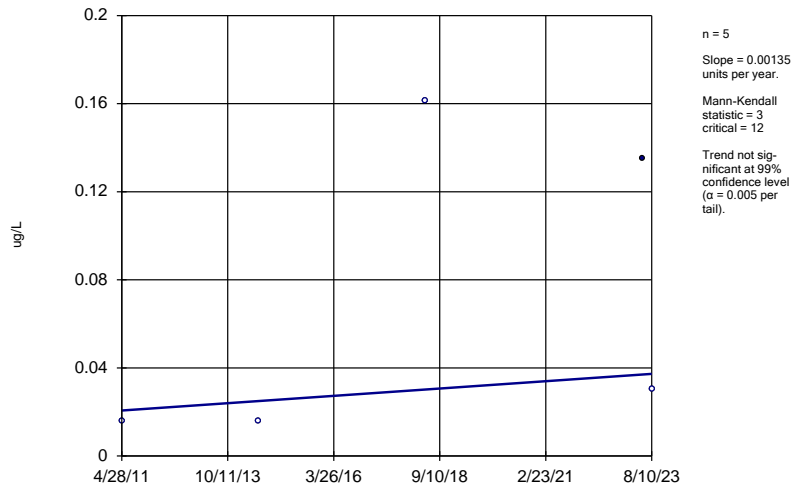
MWPz-16A



Constituent: 1,1-Dichloroethane Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

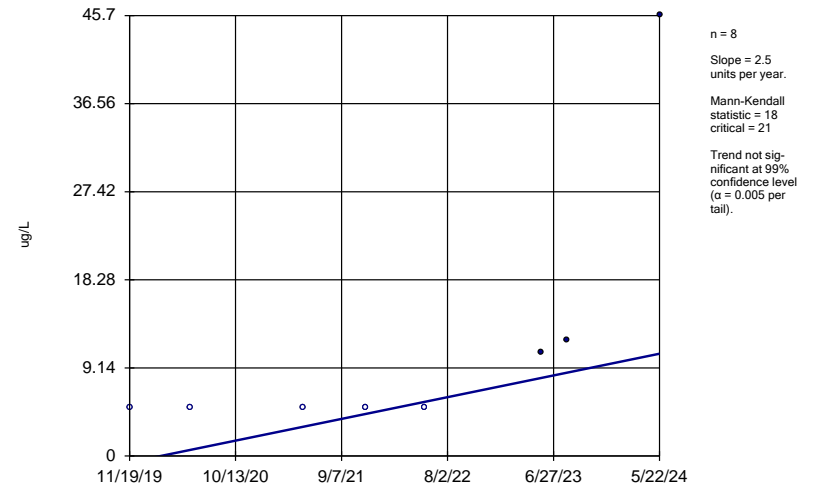
MW-19



Constituent: 4,4'-DDD Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

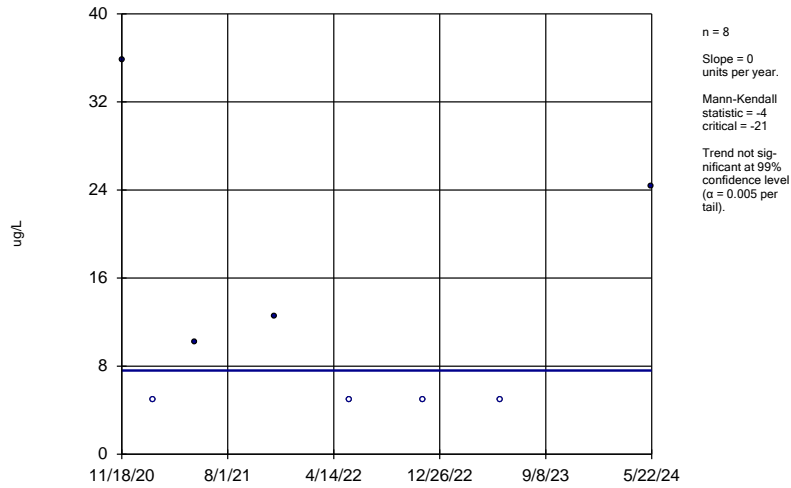
MW-18



Constituent: Acetone Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

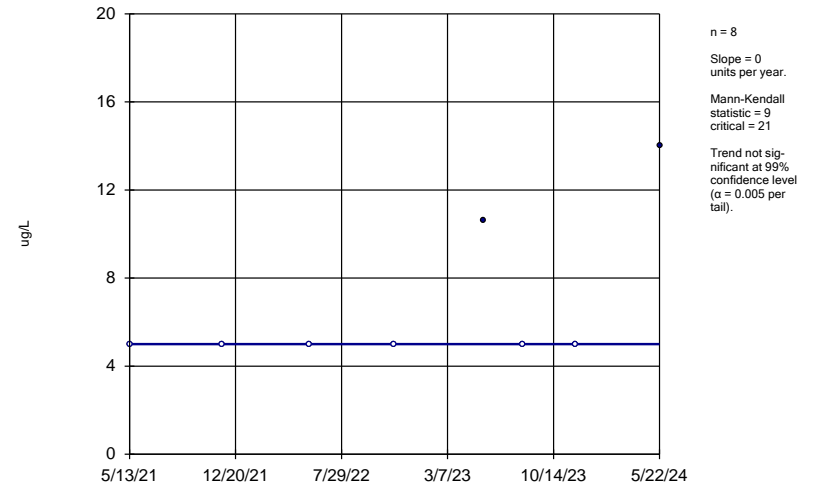
MW-19



Constituent: Acetone Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

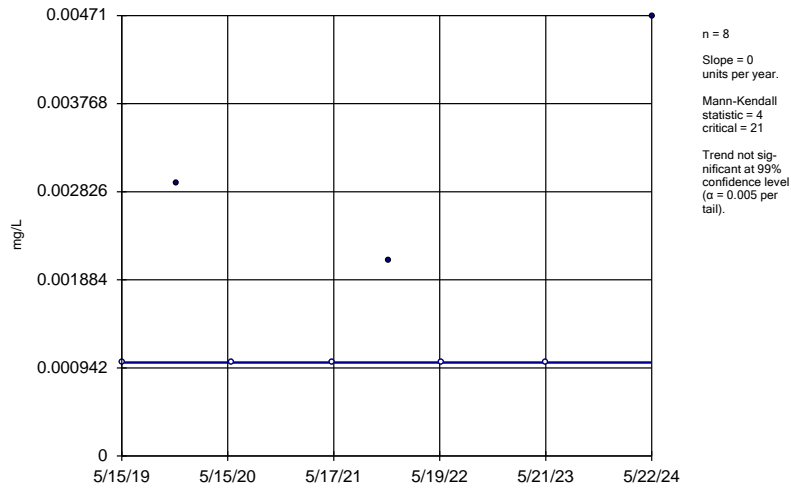
MW-22B



Constituent: Acetone Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

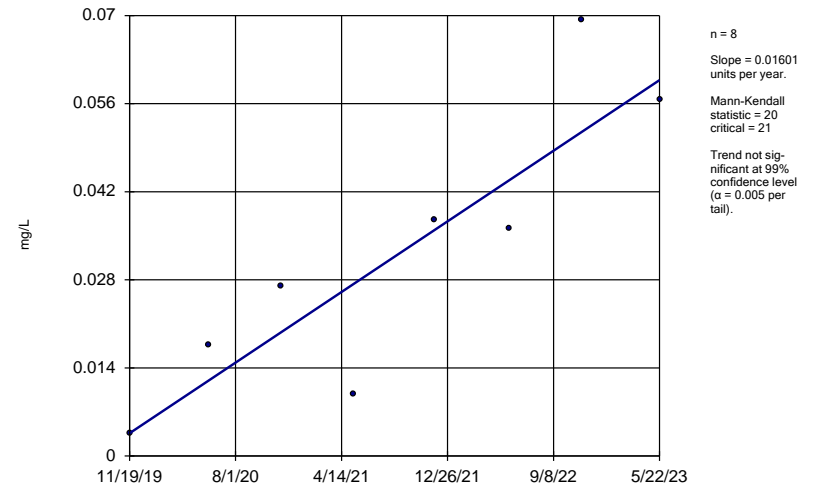
MW-18



Constituent: Arsenic Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-19

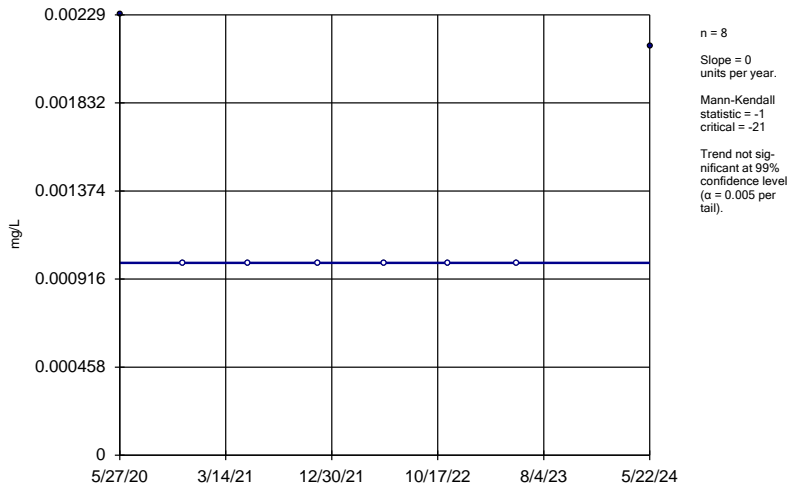


Constituent: Arsenic Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM



### Sen's Slope Estimator

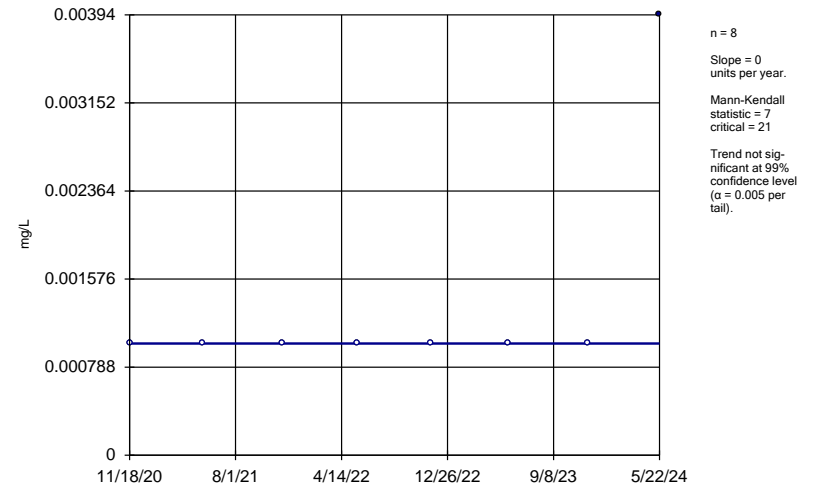
MW-20



Constituent: Arsenic Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

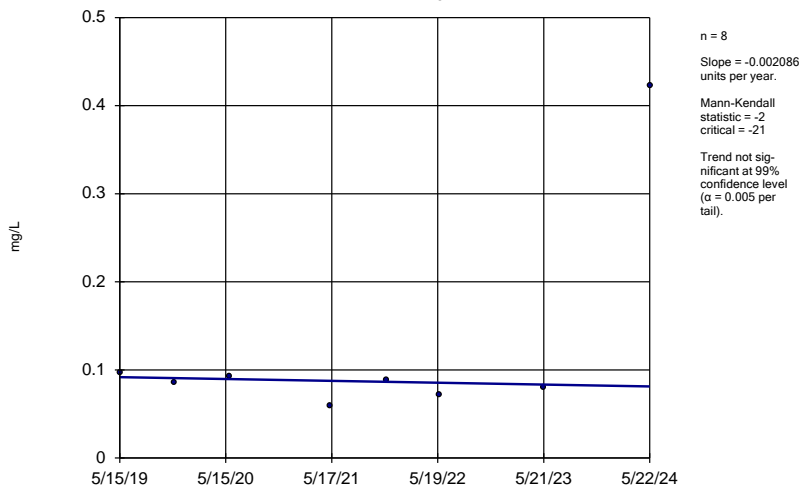
MW-22B



Constituent: Arsenic Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

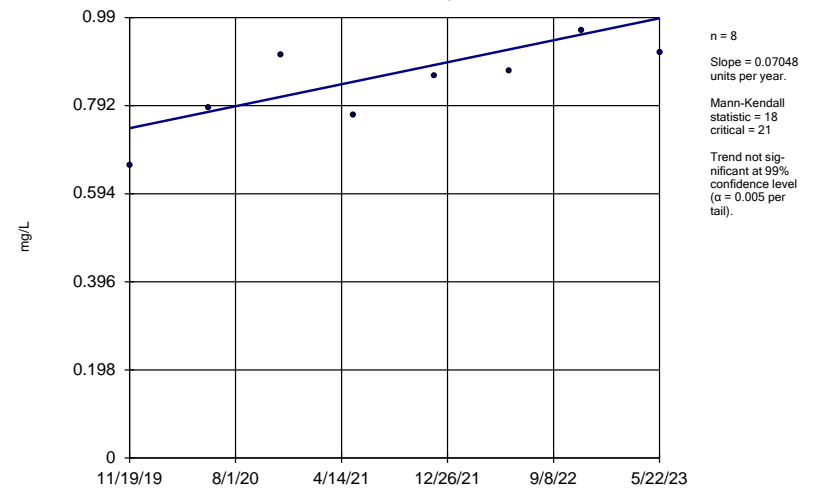
MW-18



Constituent: Barium Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

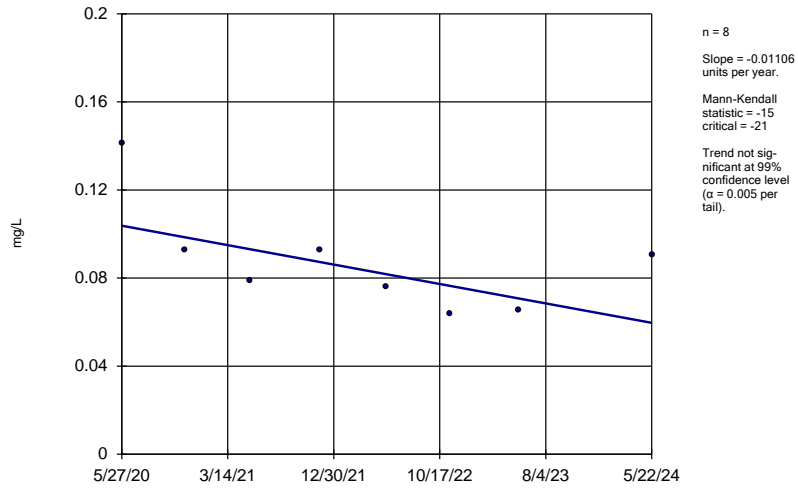
MW-19



Constituent: Barium Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

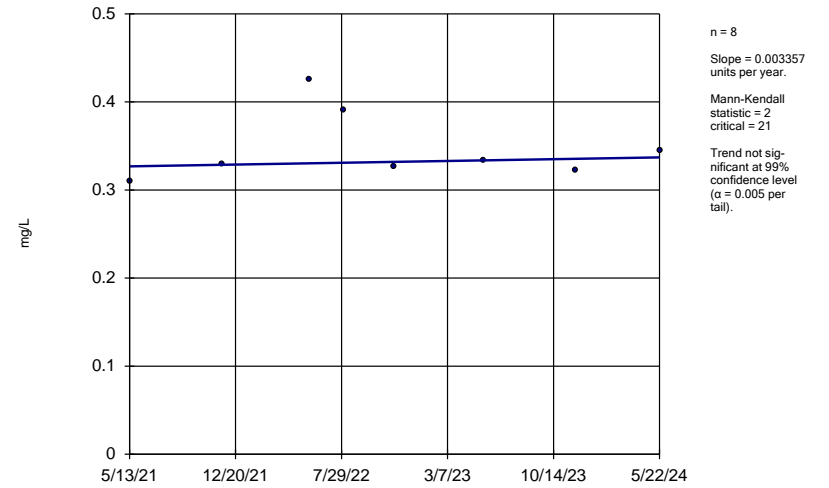
MW-20



Constituent: Barium Analysis Run 10/17/2024 12:29 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

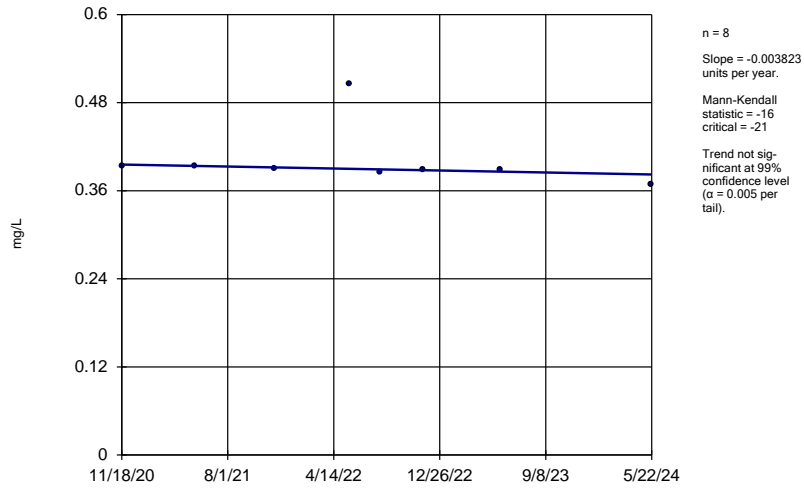
MW-22B



Constituent: Barium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

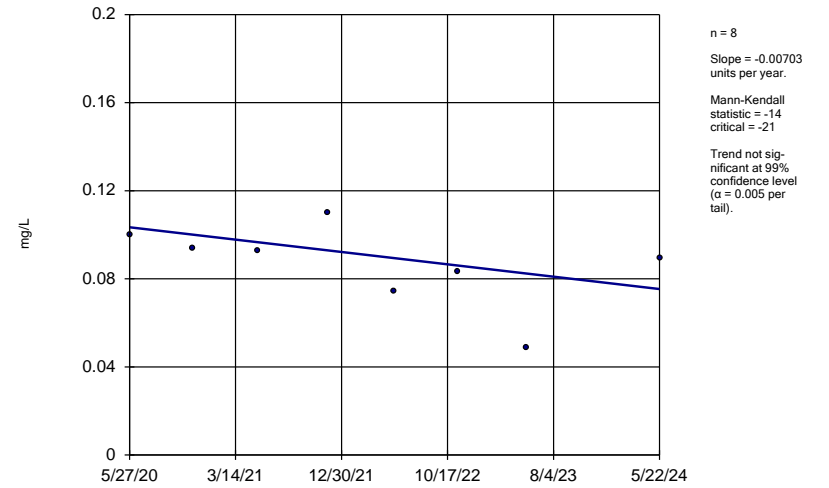
MW-23



Constituent: Barium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

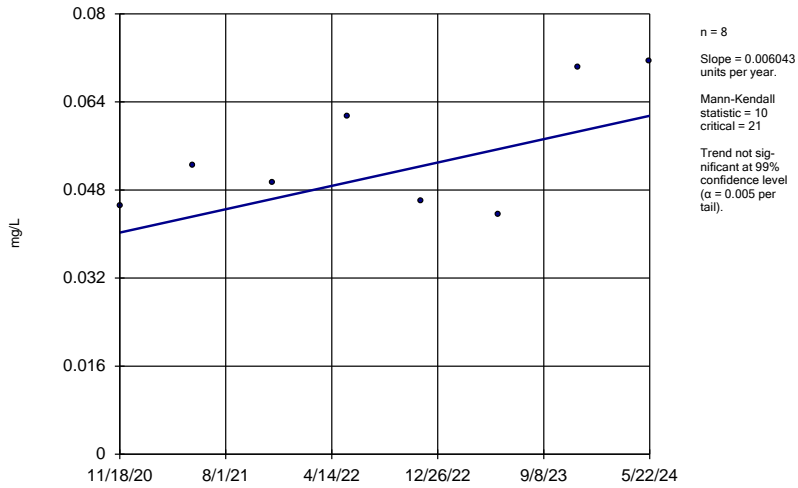
MW-25



Constituent: Barium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

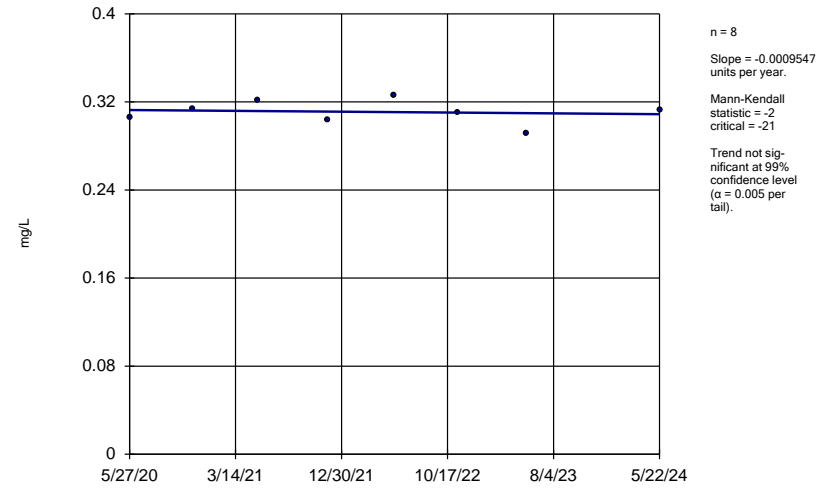
MW-28



Constituent: Barium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

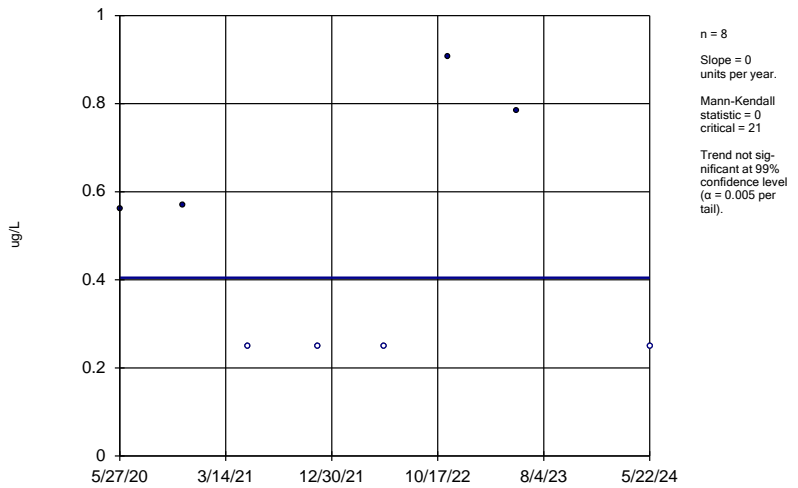
MWPz-16A



Constituent: Barium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

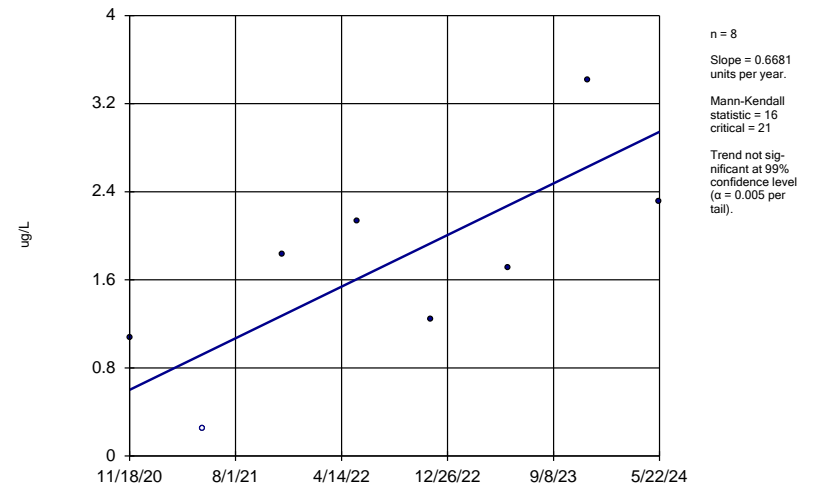
MW-19



Constituent: Benzene Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

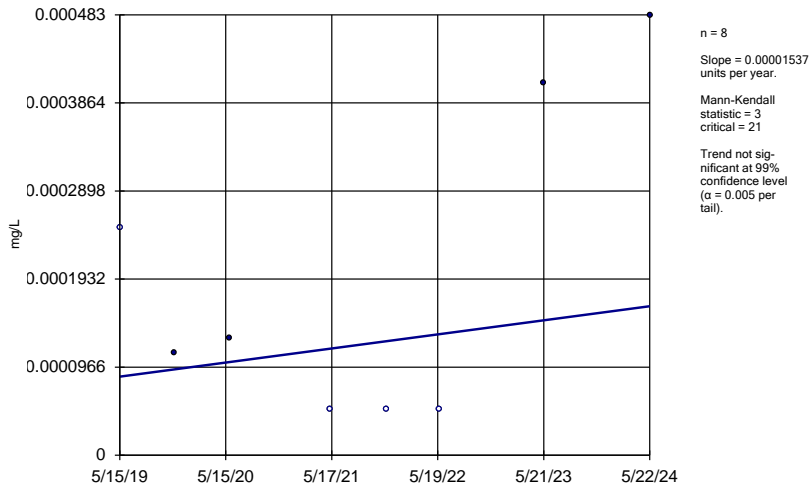
MW-22B



Constituent: Benzene Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

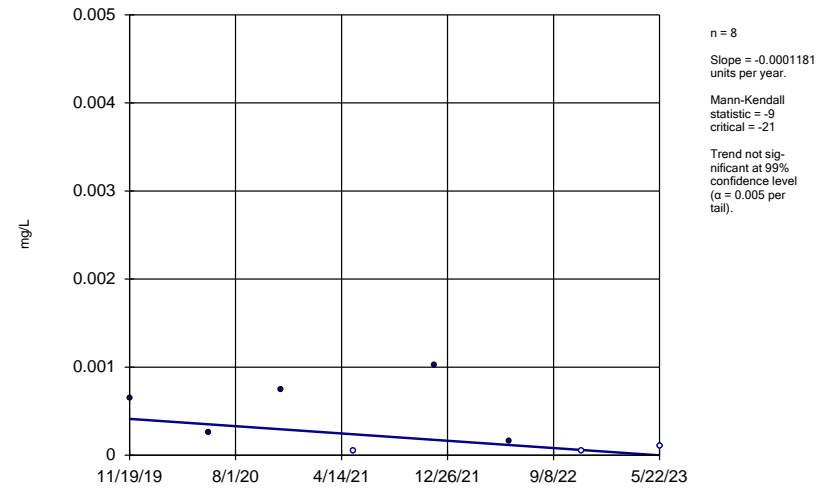
MW-18



Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

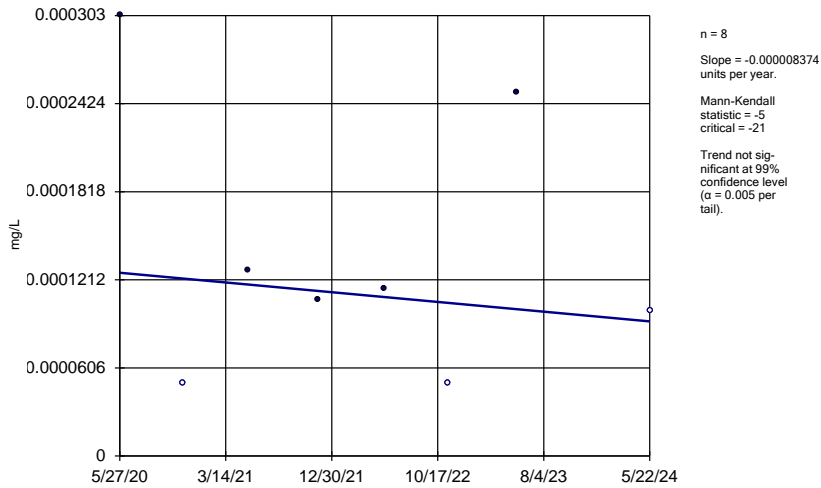
MW-19



Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

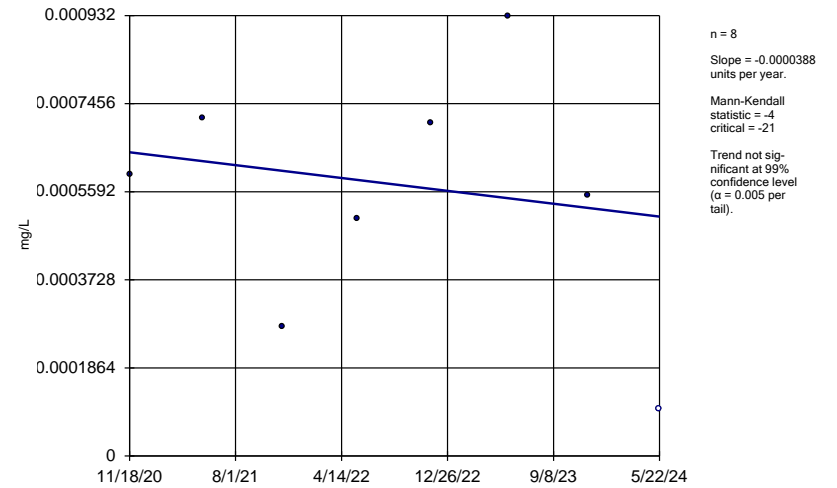
MW-20



Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

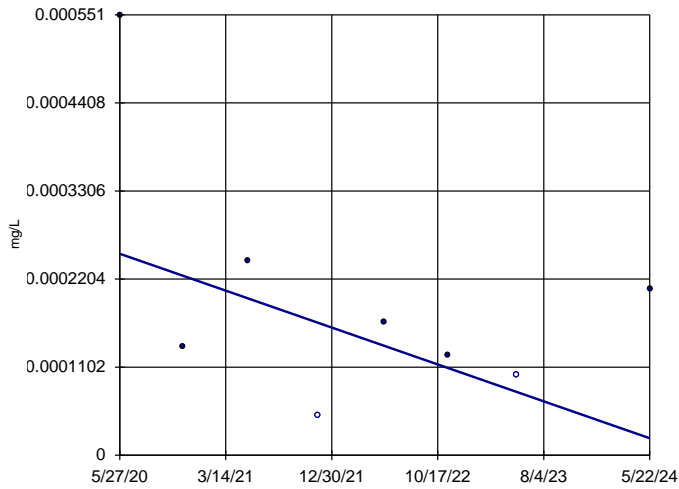
MW-22B



Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-23

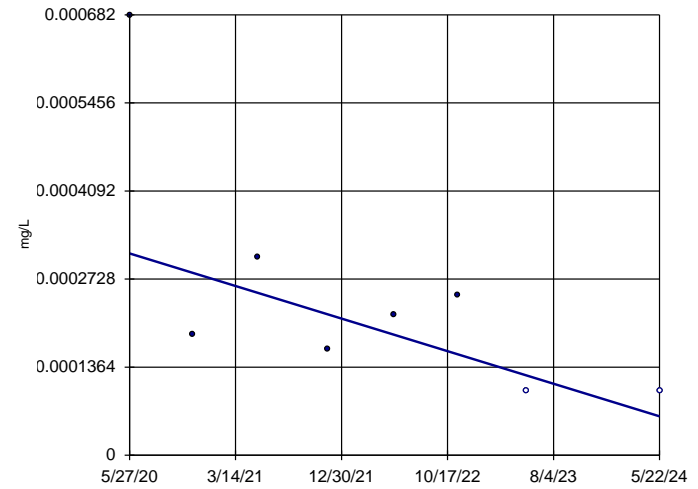


n = 8  
Slope = -0.00005786  
units per year.  
Mann-Kendall  
statistic = -8  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-25

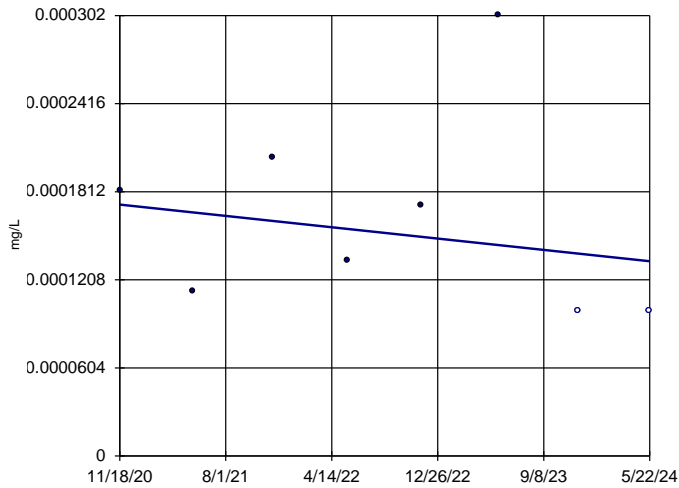


n = 8  
Slope = -0.00006327  
units per year.  
Mann-Kendall  
statistic = -15  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-28

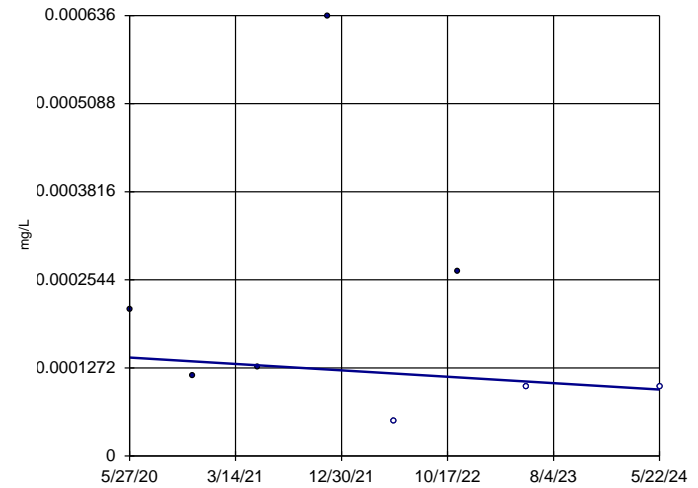


n = 8  
Slope = -0.00001105  
units per year.  
Mann-Kendall  
statistic = -7  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MWPz-16A

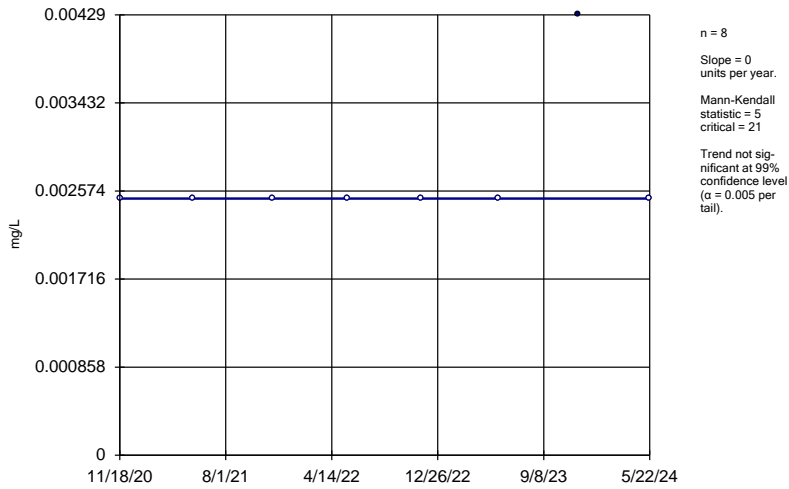


n = 8  
Slope = -0.00001154  
units per year.  
Mann-Kendall  
statistic = -7  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cadmium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

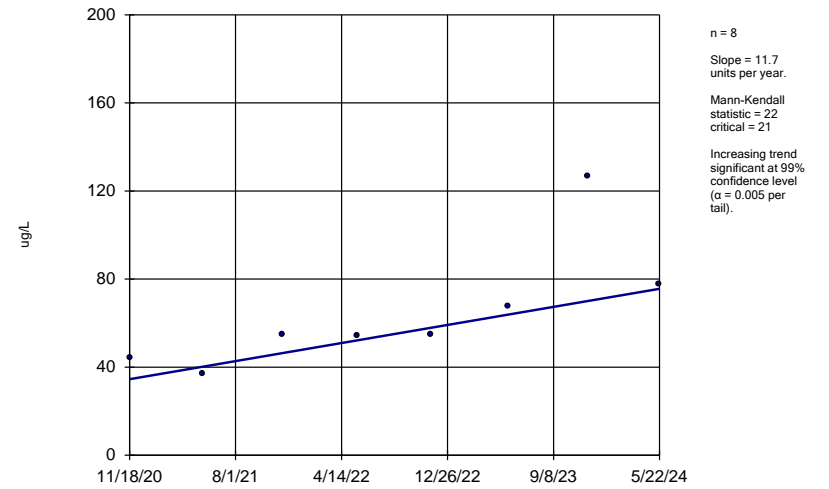
MW-22B



Constituent: Chromium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

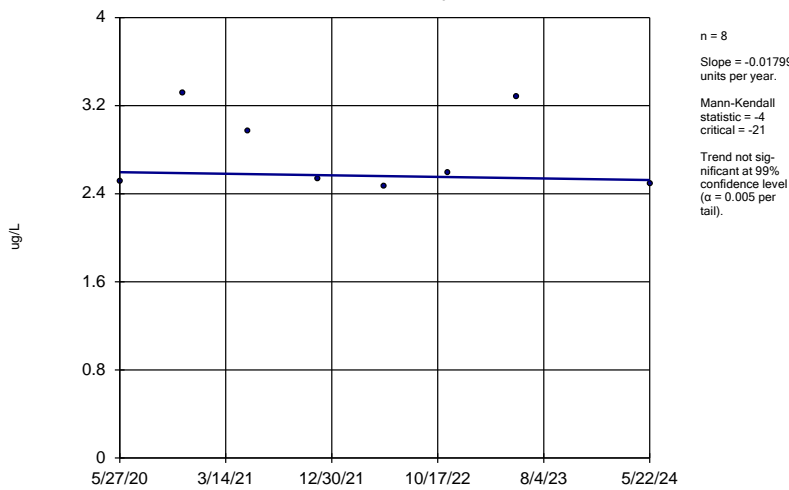
MW-22B



Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

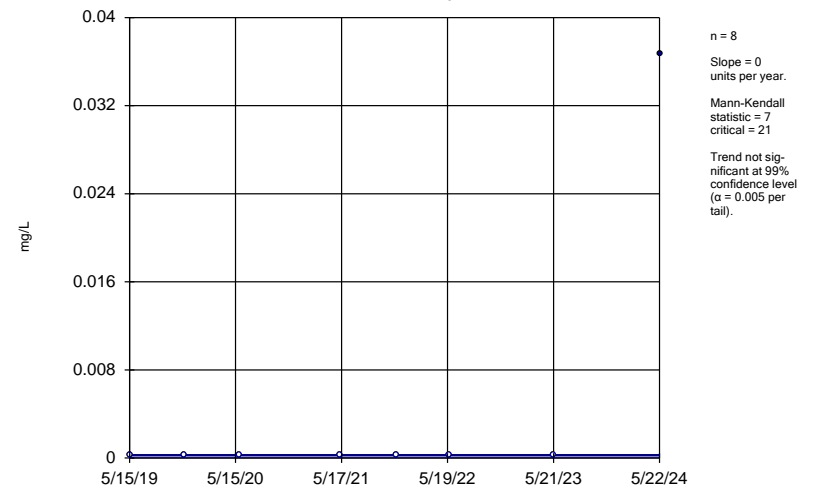
MWPz-16A



Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

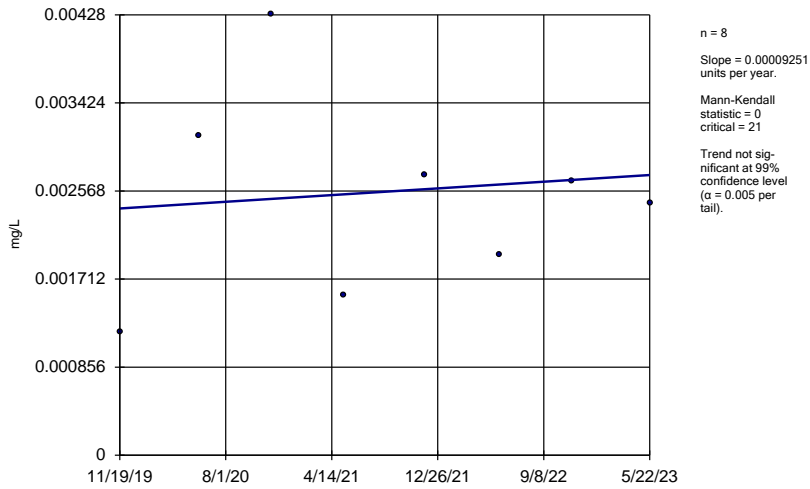
MW-18



Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

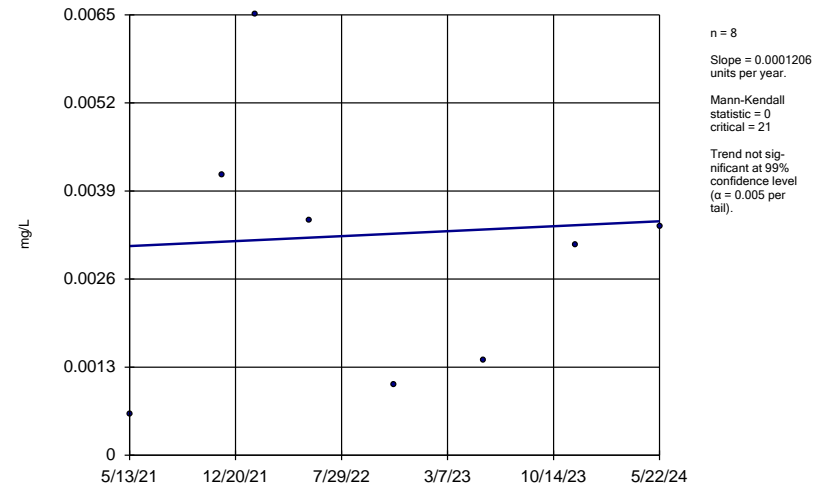
MW-19



Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

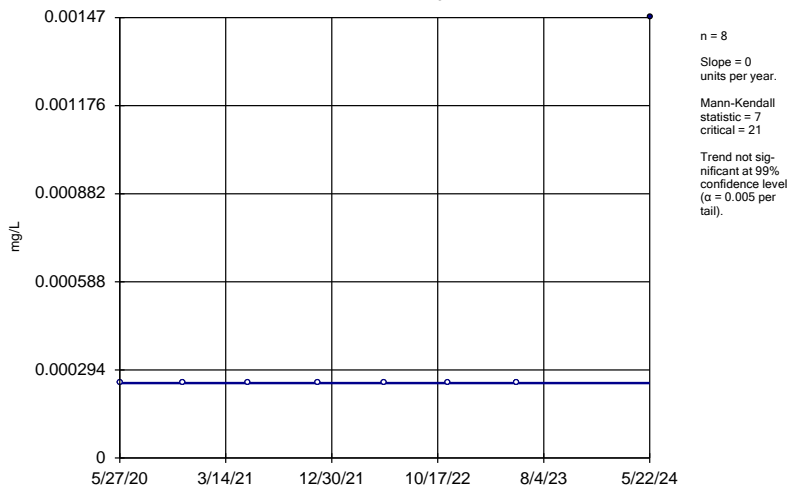
MW-22B



Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

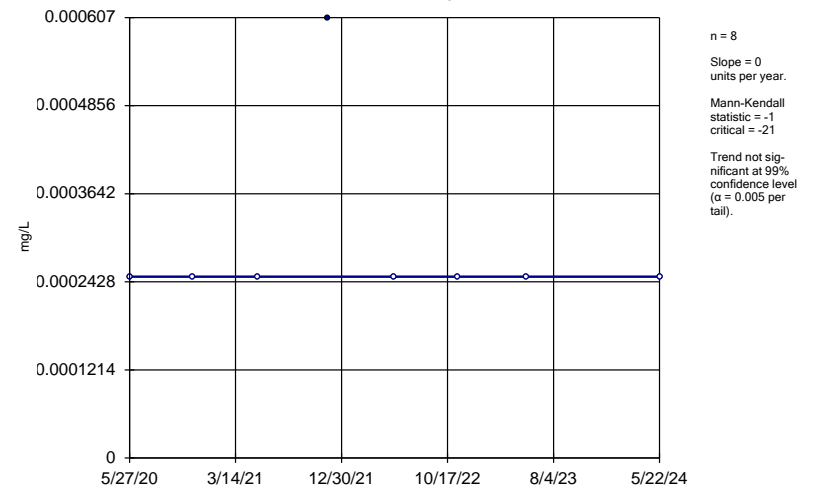
MW-23



Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

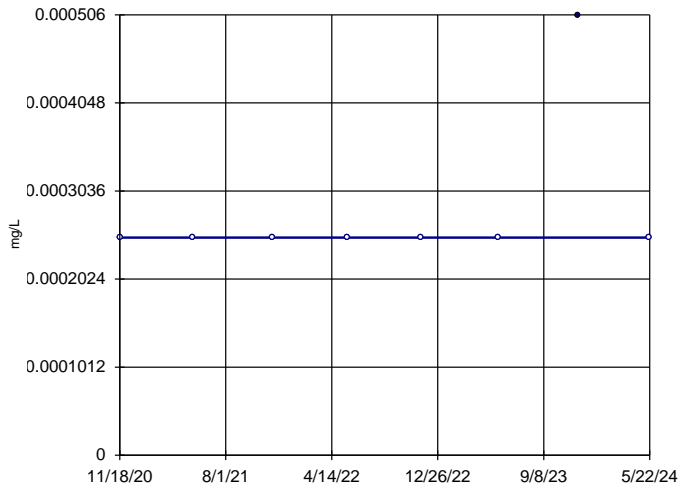
MW-25



Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-28

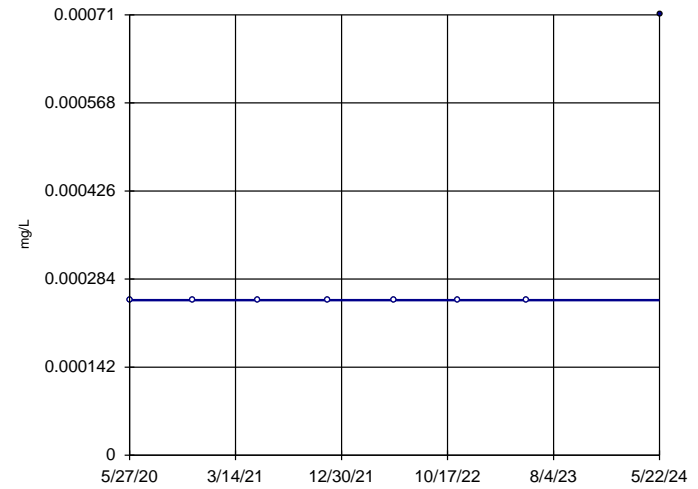


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 5  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MWPz-16A

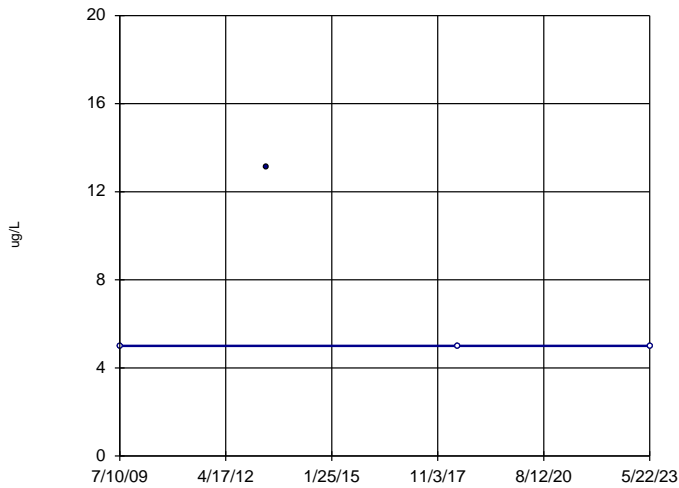


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 7  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-22B

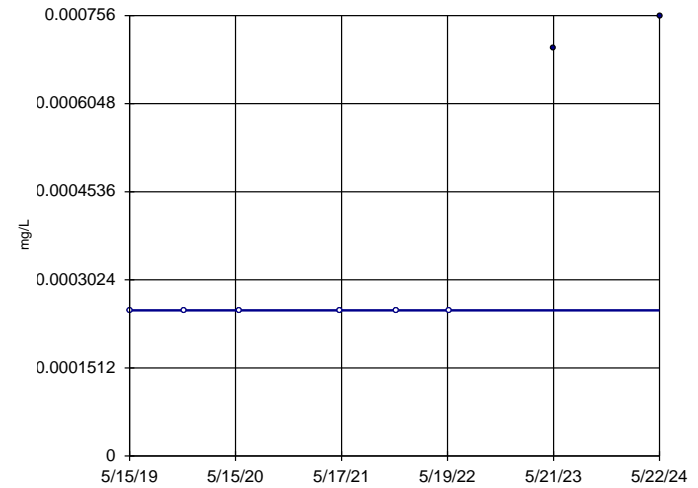


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Cyanide Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-18



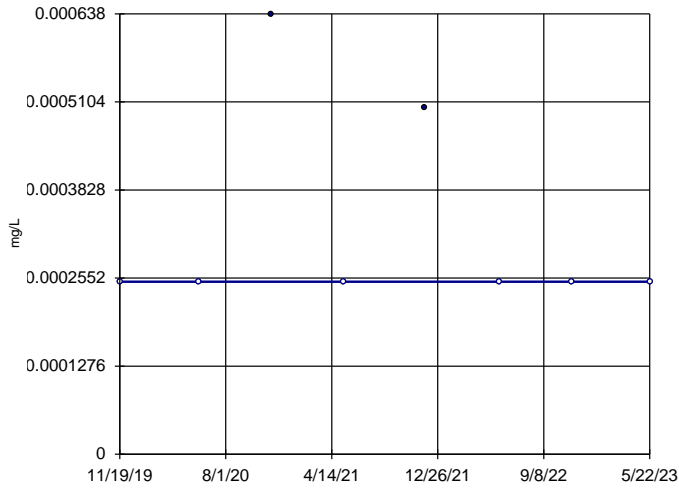
n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 13  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lead Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM



### Sen's Slope Estimator

MW-19

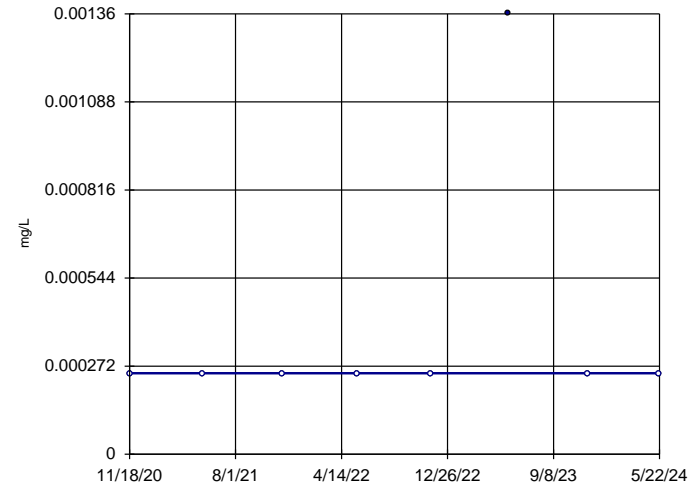


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -3  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lead Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-22B

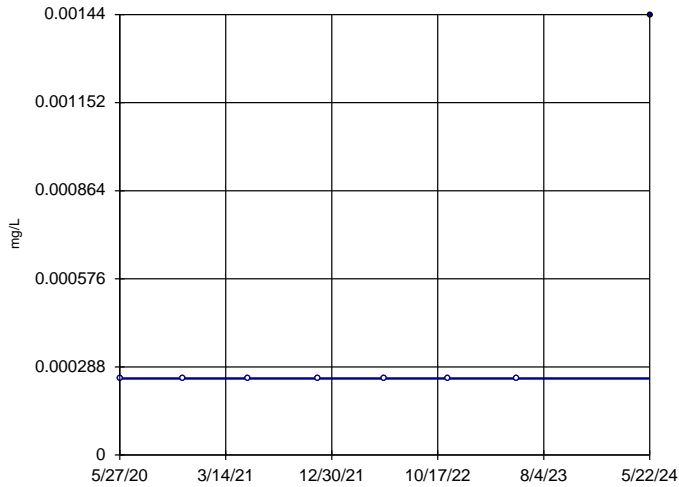


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 3  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lead Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-23

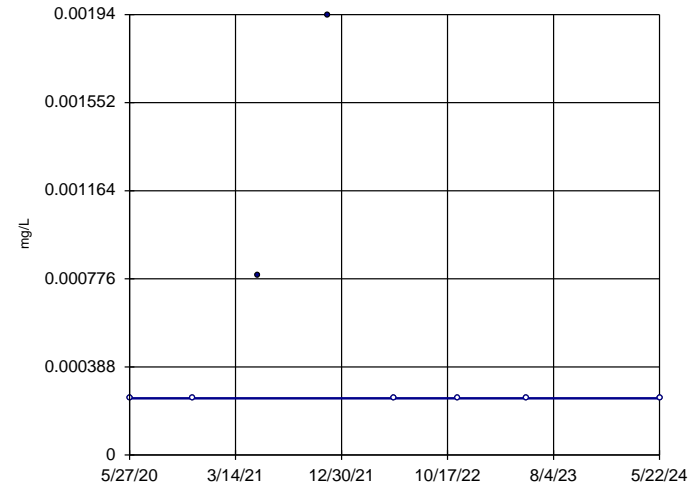


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 7  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lead Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-25

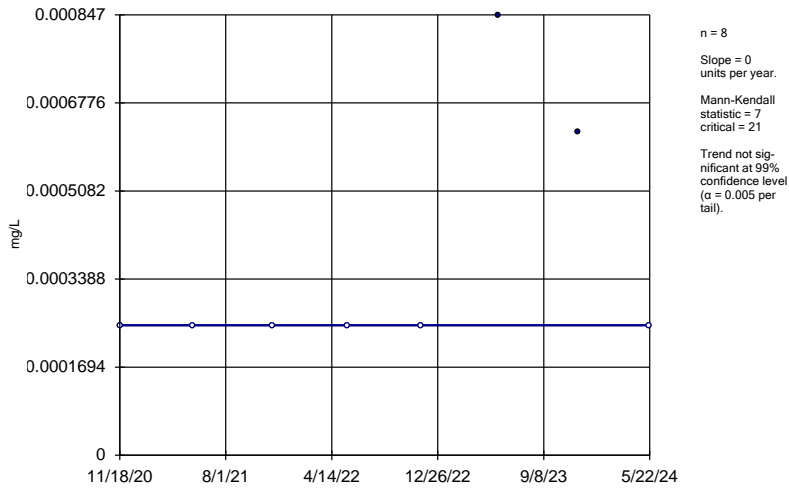


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -3  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lead Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

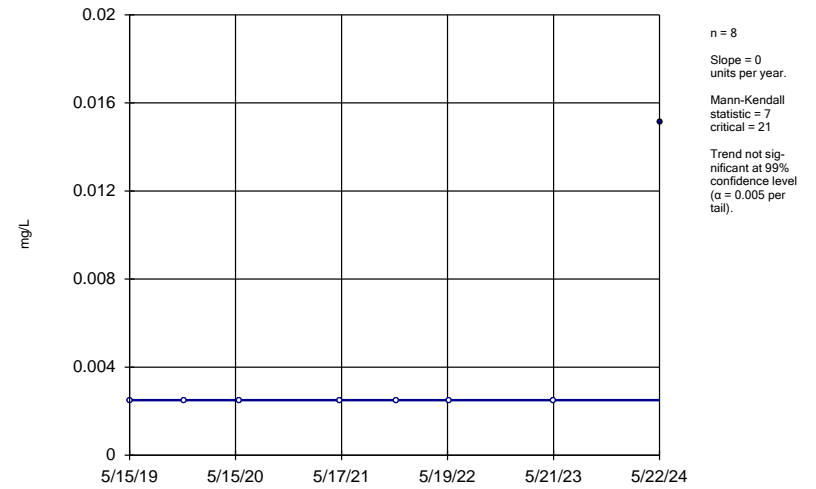
MW-28



Constituent: Lead Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

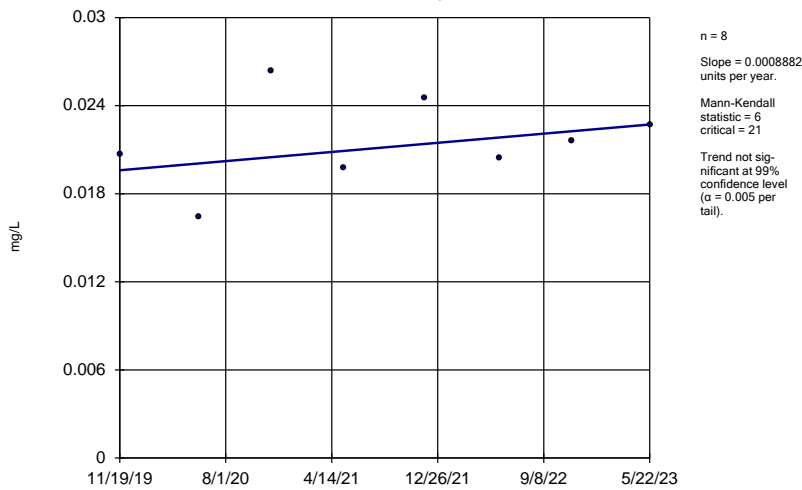
MW-18



Constituent: Nickel Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

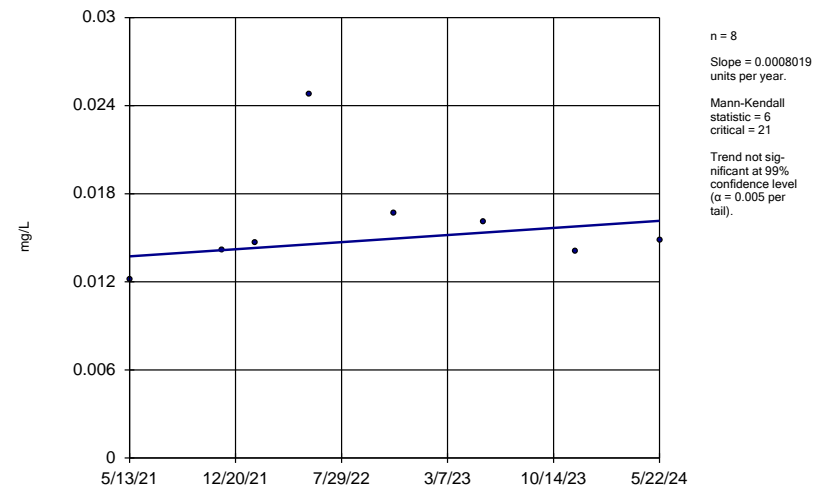
MW-19



Constituent: Nickel Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

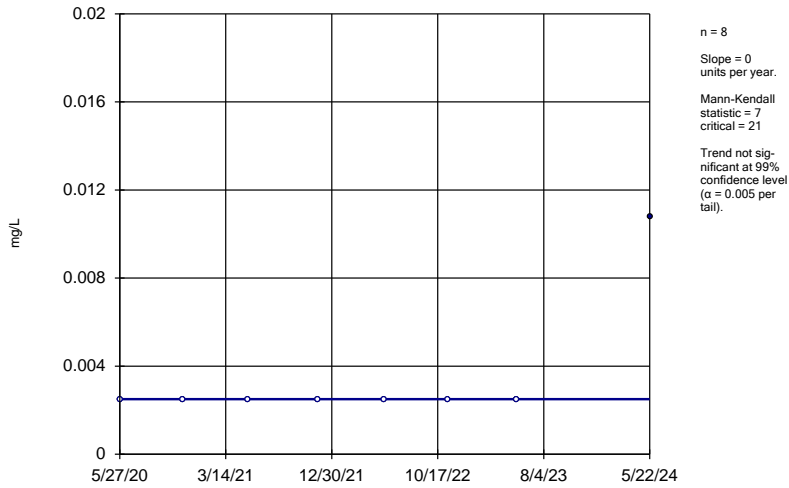
MW-22B



Constituent: Nickel Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

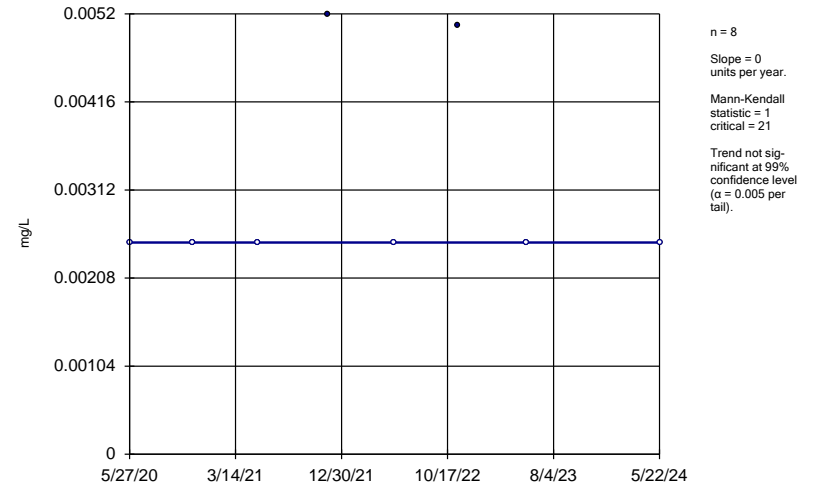
MW-23



Constituent: Nickel Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

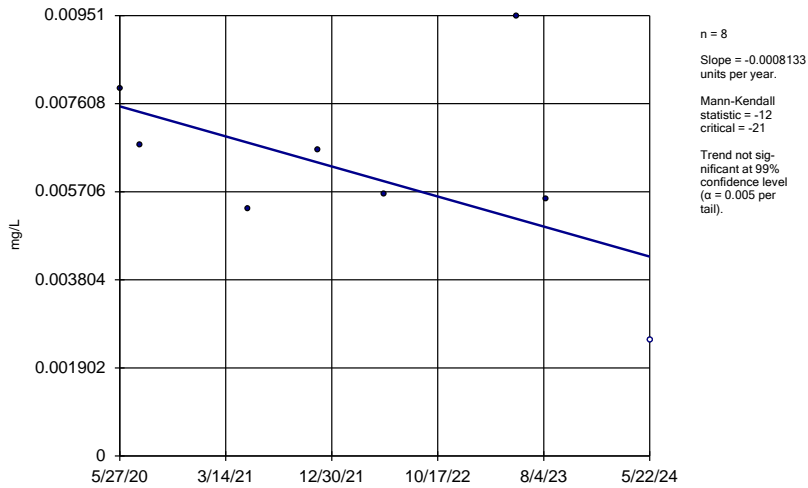
MWPz-16A



Constituent: Nickel Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

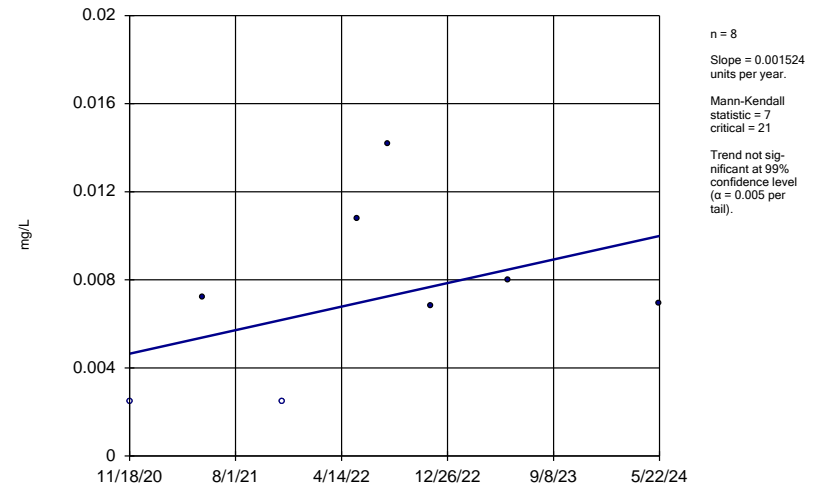
MW-18



Constituent: Selenium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

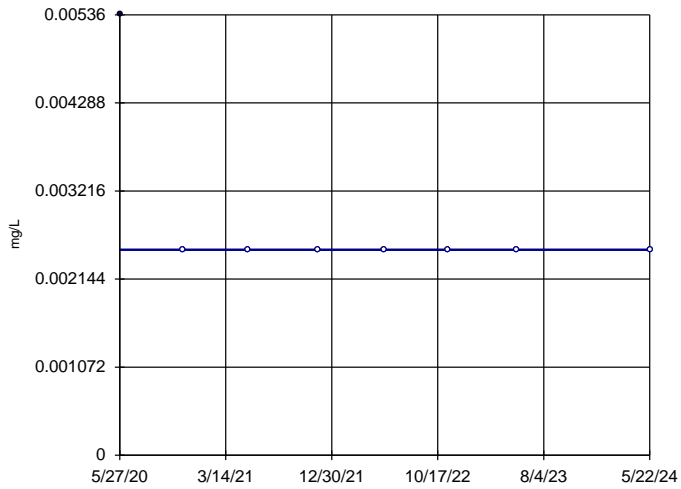
MW-20



Constituent: Selenium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-25

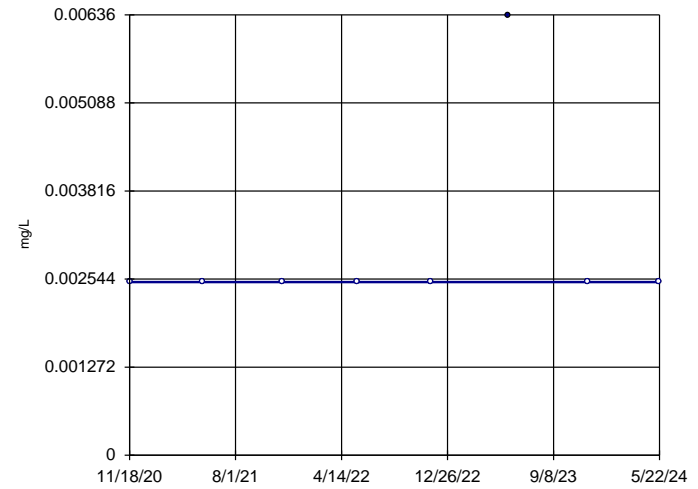


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -7  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Selenium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-28

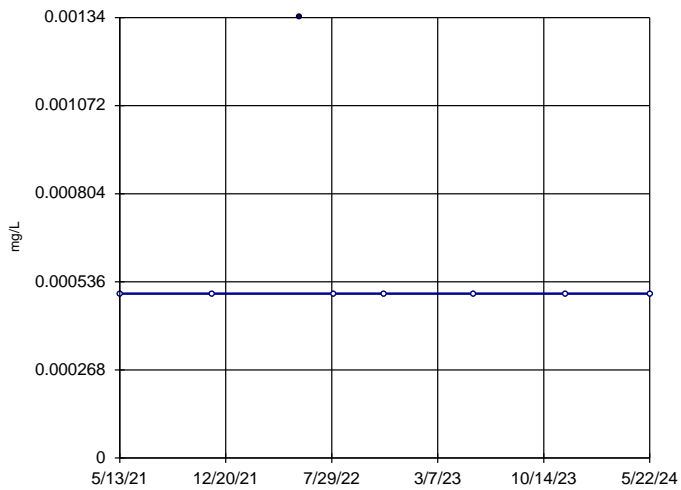


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 3  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Selenium Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-22B

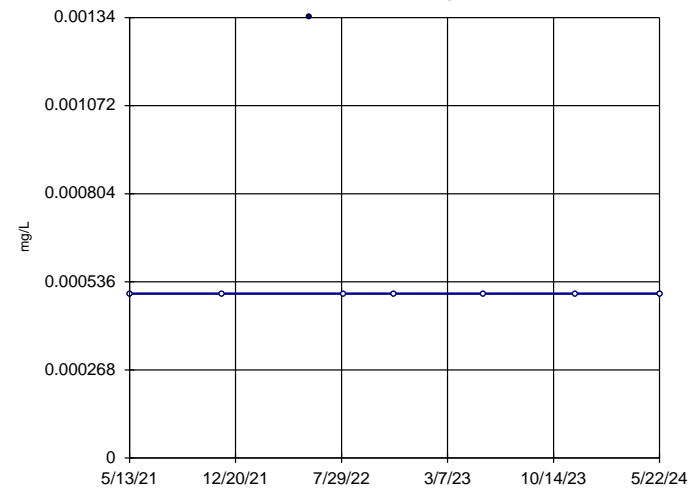


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -3  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-28

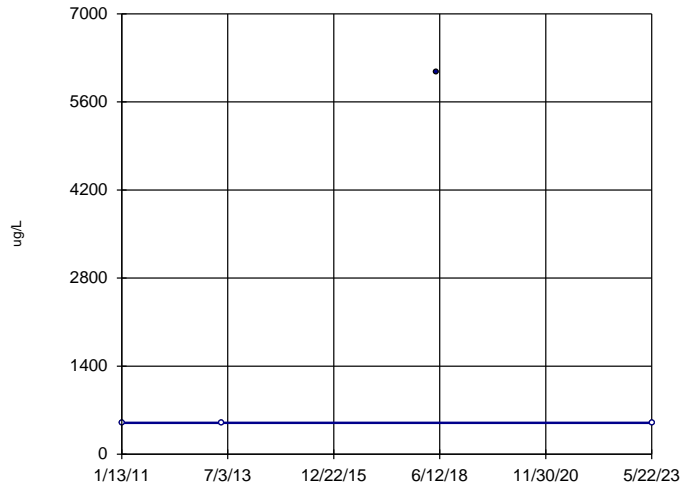


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -3  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-18

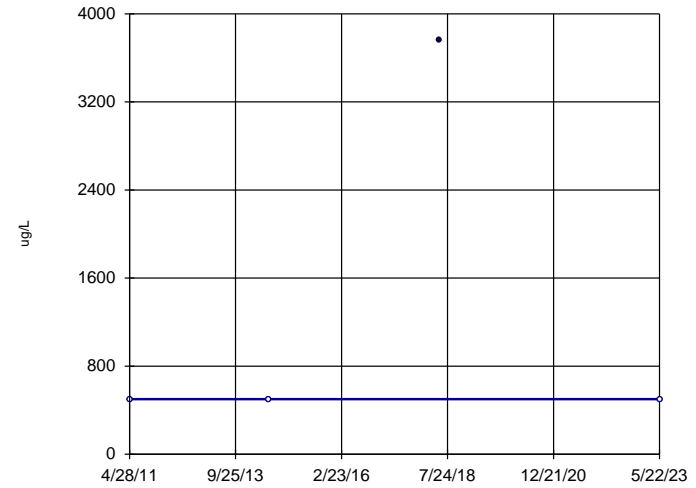


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-19

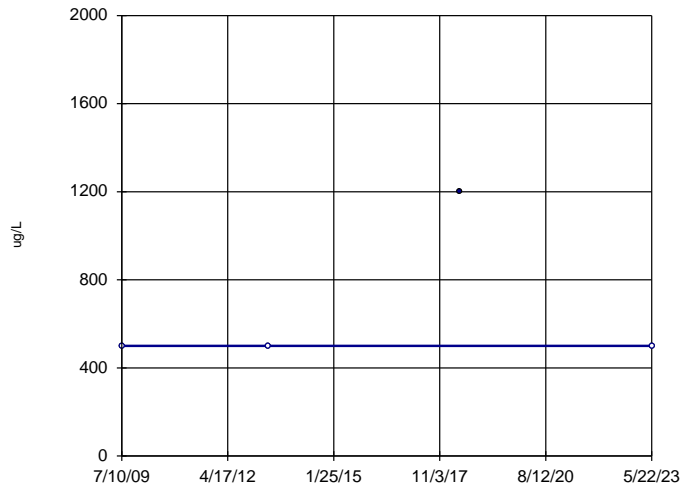


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-22B

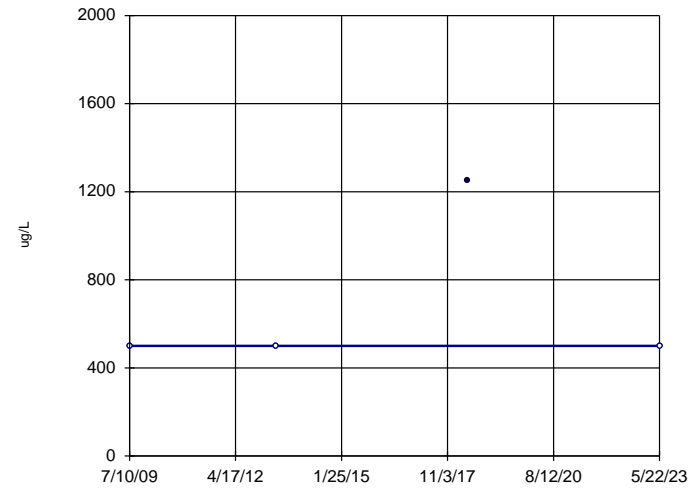


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-23

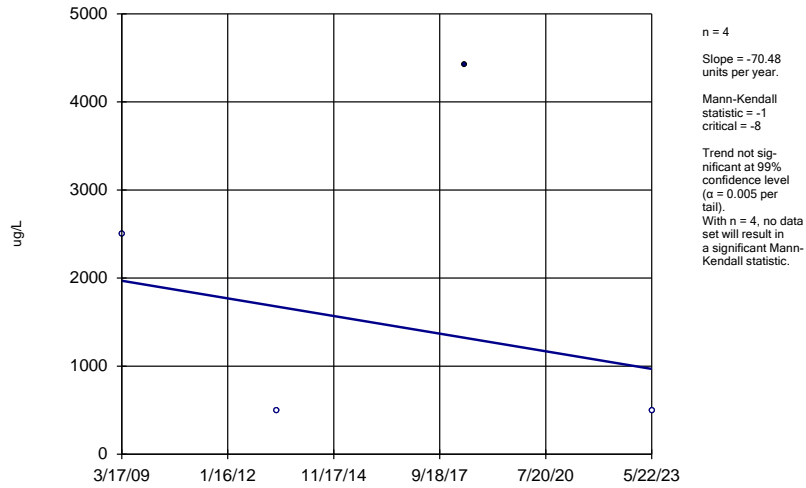


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

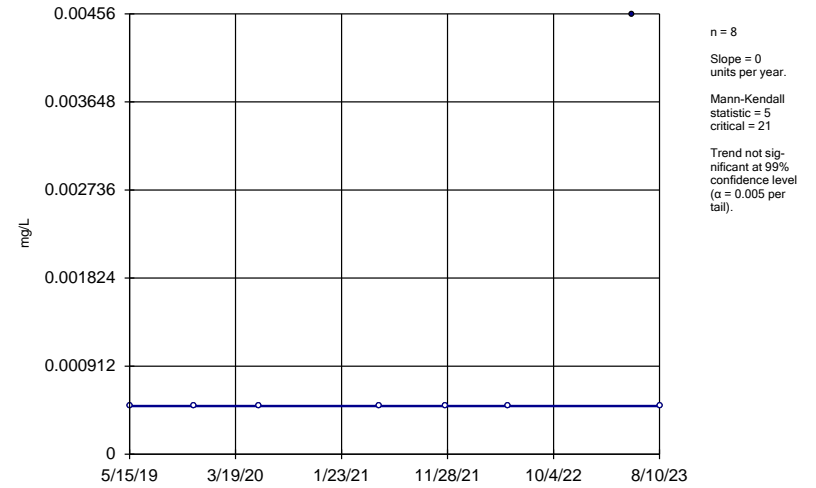
MWPz-16A



Constituent: Sulfide Analysis Run 10/17/2024 12:30 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

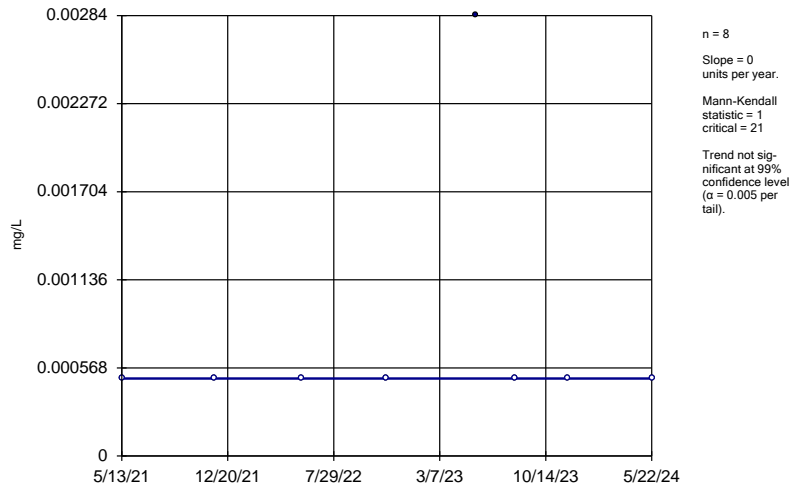
MW-18



Constituent: Thallium Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

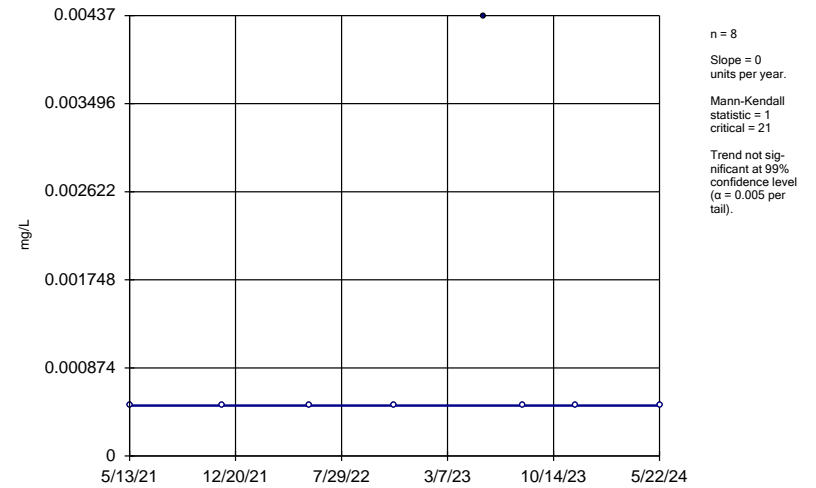
MW-22B



Constituent: Thallium Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

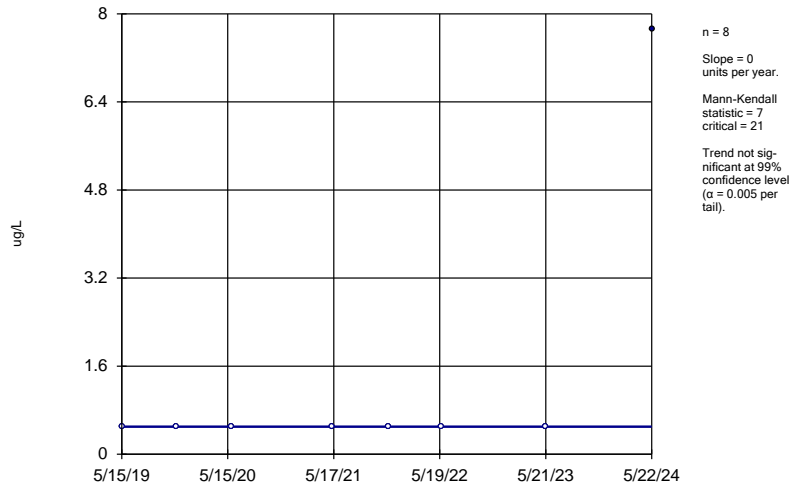
MW-28



Constituent: Thallium Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

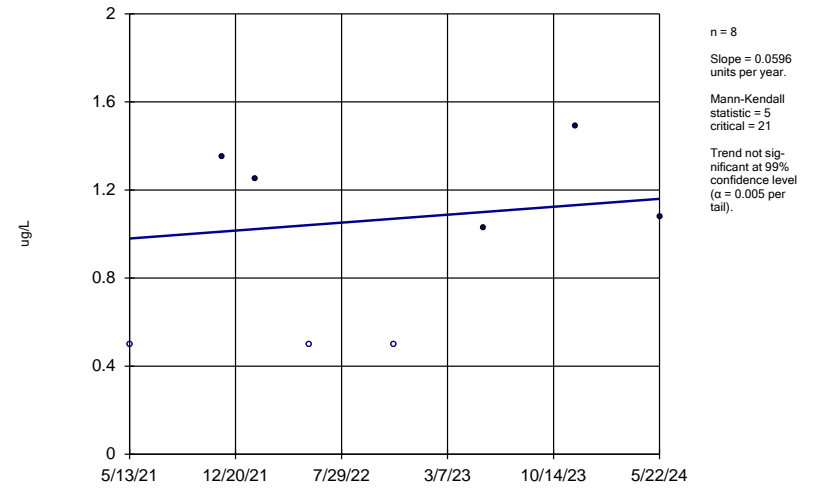
MW-18



Constituent: Toluene Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

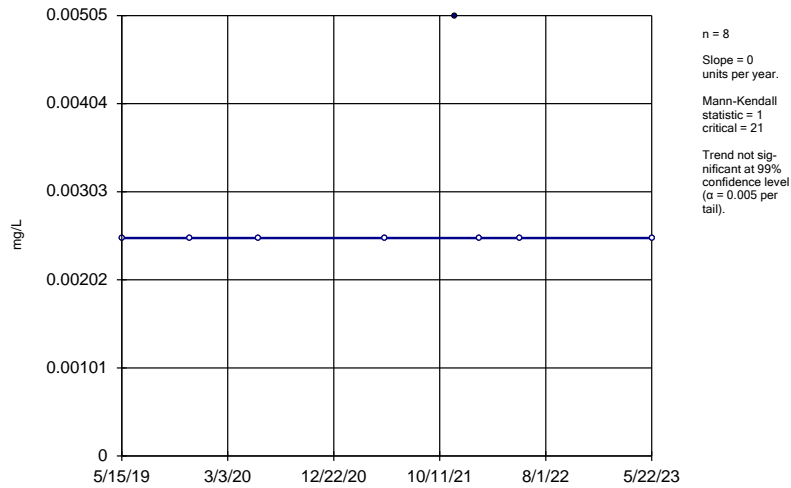
MW-22B



Constituent: trans-1,2-Dichloroethene Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

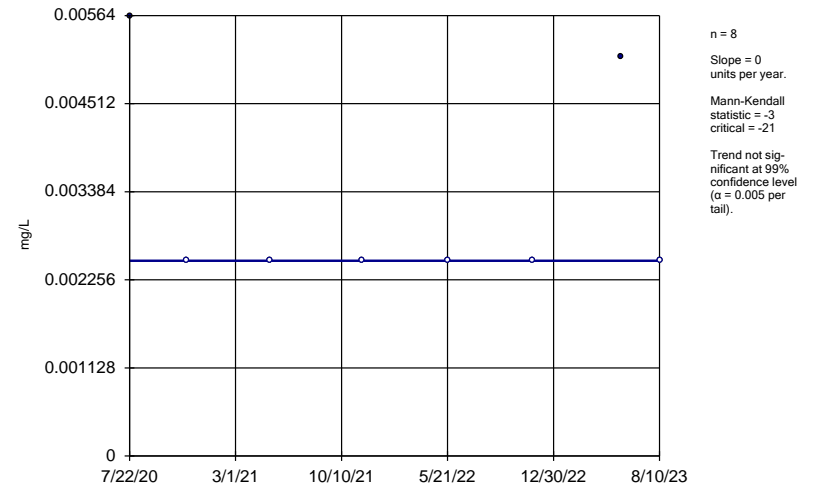
MW-18



Constituent: Vanadium Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

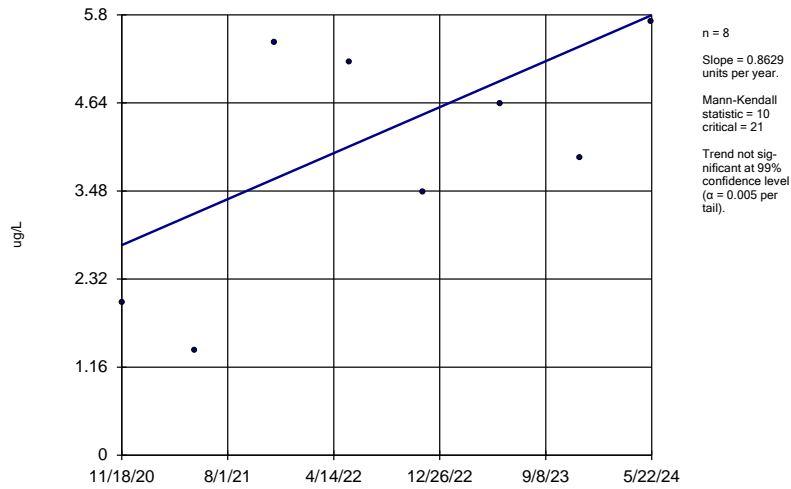
MW-20



Constituent: Vanadium Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Sen's Slope Estimator

MW-22B

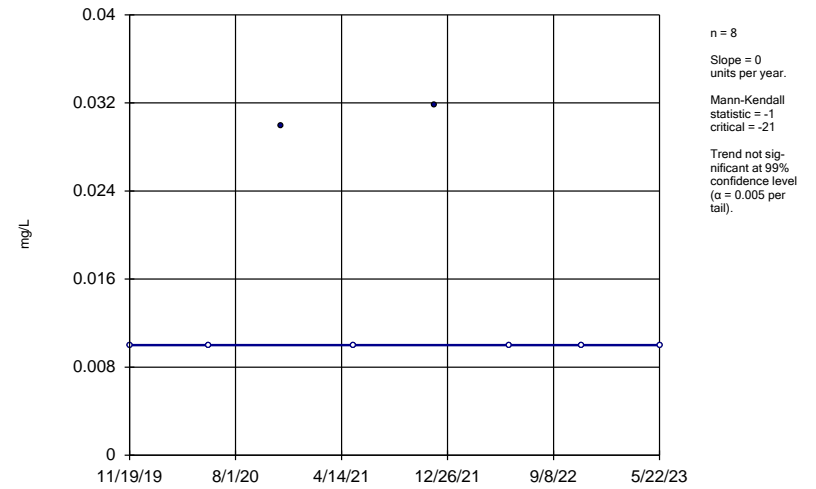


Constituent: Vinyl Chloride Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

Hollow symbols indicate censored values.

### Sen's Slope Estimator

MW-19

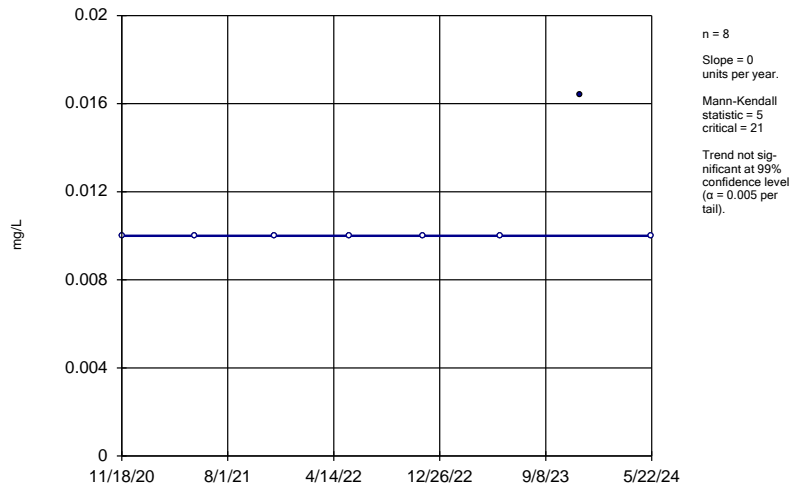


Constituent: Zinc Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

Hollow symbols indicate censored values.

### Sen's Slope Estimator

MW-22B



Constituent: Zinc Analysis Run 10/17/2024 12:31 PM View: 2024SSN Mann Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM



## Confidence Interval Summary Table and Graphs

# Confidence Interval

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-HMSP-2024SSN-AM    Printed 10/17/2024, 2:25 PM

| <u>Constituent</u>            | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|-------------------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|--------------|----------------|
| 1,1-Dichloroethane (ug/L)     | MW-19       | 4.503             | 3.297             | 140               | No          | 8        | 0           | No               | 0.01         | Param.         |
| 1,1-Dichloroethane (ug/L)     | MWPz-16A    | 1.892             | 1.405             | 140               | No          | 8        | 0           | No               | 0.01         | Param.         |
| 4,4'-DDD (ug/L)               | MW-19       | 0.1615            | 0.016             | 0.73              | No          | 5        | 80          | No               | 0.031        | NP (NDs)       |
| Acetone (ug/L)                | MW-18       | 45.7              | 5                 | 6300              | No          | 8        | 62.5        | No               | 0.004        | NP (NDs)       |
| Acetone (ug/L)                | MW-19       | 24.89             | 5.815             | 6300              | No          | 8        | 50          | No               | 0.01         | Param.         |
| Acetone (ug/L)                | MW-22B      | 14                | 5                 | 6300              | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Arsenic (mg/L)                | MW-18       | 0.00471           | 0.001             | 0.01              | No          | 8        | 62.5        | No               | 0.004        | NP (NDs)       |
| Arsenic (mg/L)                | MW-19       | 0.05621           | 0.008254          | 0.01              | No          | 8        | 0           | No               | 0.01         | Param.         |
| Arsenic (mg/L)                | MW-20       | 0.00229           | 0.001             | 0.01              | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Arsenic (mg/L)                | MW-22B      | 0.00394           | 0.001             | 0.01              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Barium (mg/L)                 | MW-18       | 0.423             | 0.0596            | 2                 | No          | 8        | 0           | No               | 0.004        | NP (normality) |
| Barium (mg/L)                 | MW-19       | 0.9438            | 0.7367            | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-20       | 0.1135            | 0.06176           | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-22B      | 0.3894            | 0.3059            | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-23       | 0.506             | 0.369             | 2                 | No          | 8        | 0           | No               | 0.004        | NP (normality) |
| Barium (mg/L)                 | MW-25       | 0.1063            | 0.06682           | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-28       | 0.06691           | 0.04294           | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MWPz-16A    | 0.3222            | 0.2991            | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Benzene (ug/L)                | MW-19       | 0.7577            | 0.4478            | 5                 | No          | 8        | 50          | No               | 0.01         | Param.         |
| Benzene (ug/L)                | MW-22B      | 2.741             | 0.749             | 5                 | No          | 8        | 12.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-18       | 0.0003682         | 0.00004153        | 0.005             | No          | 8        | 50          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-19       | 0.0007533         | 0.00003622        | 0.005             | No          | 8        | 37.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-20       | 0.00023           | 0.00007357        | 0.005             | No          | 8        | 37.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-22B      | 0.0008244         | 0.0002692         | 0.005             | No          | 8        | 12.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-23       | 0.0003534         | 0.00006239        | 0.005             | No          | 8        | 25          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-25       | 0.0004415         | 0.00009779        | 0.005             | No          | 8        | 25          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-28       | 0.0002358         | 0.0001163         | 0.005             | No          | 8        | 25          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MWPz-16A    | 0.000636          | 0.00005           | 0.005             | No          | 8        | 37.5        | No               | 0.004        | NP (normality) |
| Chromium (mg/L)               | MW-22B      | 0.00429           | 0.0025            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| cis-1,2-Dichloroethene (ug/L) | MWPz-16A    | 3.156             | 2.386             | 70                | No          | 8        | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                 | MW-18       | 0.0367            | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MW-19       | 0.003512          | 0.001468          | 0.0021            | No          | 8        | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                 | MW-22B      | 0.004997          | 0.0009104         | 0.0021            | No          | 8        | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                 | MW-23       | 0.00147           | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MW-25       | 0.000607          | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MW-28       | 0.000506          | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MWPz-16A    | 0.00071           | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cyanide (ug/L)                | MW-22B      | 13.1              | 5                 | 200               | No          | 4        | 75          | No               | 0.0625       | NP (NDs)       |
| Lead (mg/L)                   | MW-18       | 0.000756          | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-19       | 0.000638          | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-22B      | 0.00136           | 0.00025           | 0.015             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-23       | 0.00144           | 0.00025           | 0.015             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-25       | 0.00194           | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-28       | 0.000847          | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Nickel (mg/L)                 | MW-18       | 0.0151            | 0.0025            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Nickel (mg/L)                 | MW-19       | 0.0248            | 0.01833           | 0.1               | No          | 8        | 0           | No               | 0.01         | Param.         |
| Nickel (mg/L)                 | MW-22B      | 0.02              | 0.0119            | 0.1               | No          | 8        | 0           | No               | 0.01         | Param.         |
| Nickel (mg/L)                 | MW-23       | 0.0108            | 0.0025            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Nickel (mg/L)                 | MWPz-16A    | 0.0052            | 0.0025            | 0.1               | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Selenium (mg/L)               | MW-18       | 0.008408          | 0.00405           | 0.05              | No          | 8        | 12.5        | No               | 0.01         | Param.         |

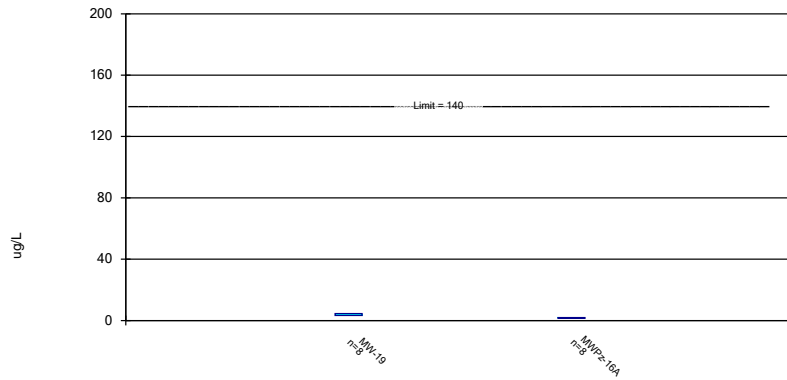
# Confidence Interval

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-HMSP-2024SSN-AM    Printed 10/17/2024, 2:25 PM

| <u>Constituent</u>              | <u>Well</u>   | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|---------------------------------|---------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|--------------|---------------|
| Selenium (mg/L)                 | MW-20         | 0.01108           | 0.004924          | 0.05              | No          | 8        | 25          | No               | 0.01         | Param.        |
| Selenium (mg/L)                 | MW-25         | 0.00536           | 0.0025            | 0.05              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Selenium (mg/L)                 | MW-28         | 0.00636           | 0.0025            | 0.05              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Silver (mg/L)                   | MW-22B        | 0.00134           | 0.0005            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Silver (mg/L)                   | MW-28         | 0.00134           | 0.0005            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Sulfide (ug/L)                  | MW-18         | 6080              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MW-19         | 3760              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MW-22B        | 1200              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MW-23         | 1250              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MWPz-16A      | 4420              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Thallium (mg/L)                 | MW-18         | 0.00456           | 0.0005            | 0.002             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Thallium (mg/L)                 | MW-22B        | 0.00284           | 0.0005            | 0.002             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Thallium (mg/L)                 | MW-28         | 0.00437           | 0.0005            | 0.002             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Toluene (ug/L)                  | MW-18         | 7.72              | 0.5               | 1000              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| trans-1,2-Dichloroethene (ug/L) | MW-22B        | 1.338             | 0.9617            | 100               | No          | 8        | 37.5        | No               | 0.01         | Param.        |
| Vanadium (mg/L)                 | MW-18         | 0.00505           | 0.0025            | 0.035             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Vanadium (mg/L)                 | MW-20         | 0.00564           | 0.0025            | 0.035             | No          | 8        | 75          | No               | 0.004        | NP (NDs)      |
| <b>Vinyl Chloride (ug/L)</b>    | <b>MW-22B</b> | <b>5.657</b>      | <b>2.272</b>      | <b>2</b>          | <b>Yes</b>  | <b>8</b> | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>Param.</b> |
| Zinc (mg/L)                     | MW-19         | 0.0318            | 0.01              | 2                 | No          | 8        | 75          | No               | 0.004        | NP (NDs)      |
| Zinc (mg/L)                     | MW-22B        | 0.0164            | 0.01              | 2                 | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |

### Parametric Confidence Interval

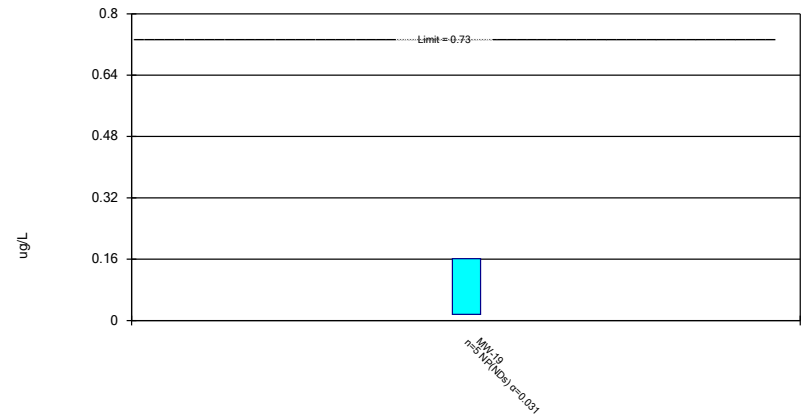
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 10/17/2024 2:20 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

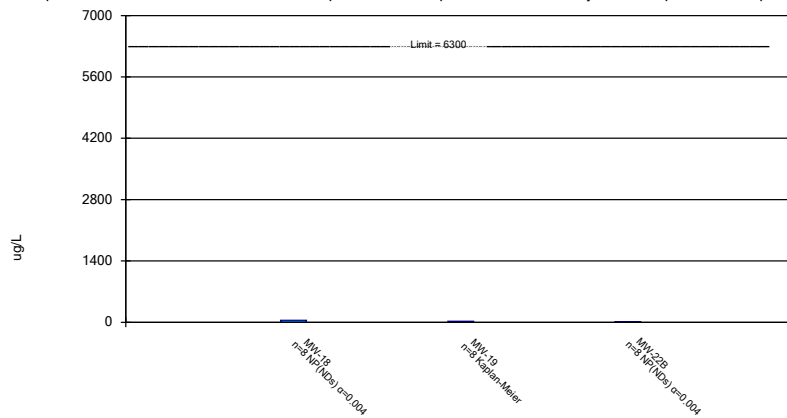
Compliance Limit is not exceeded.



Constituent: 4,4'-DDD Analysis Run 10/17/2024 2:20 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

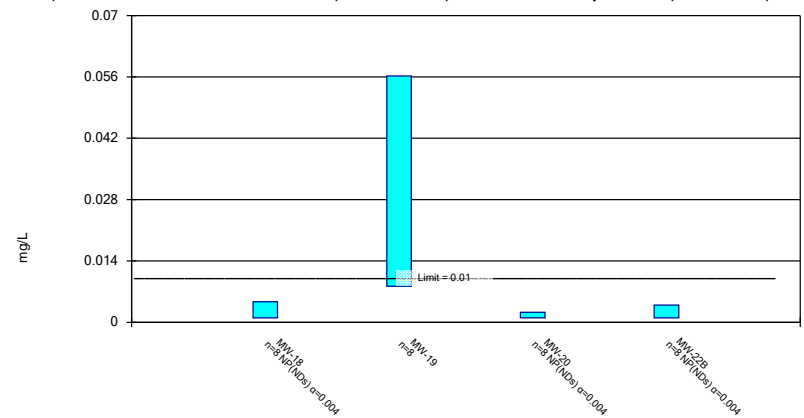
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Acetone Analysis Run 10/17/2024 2:20 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

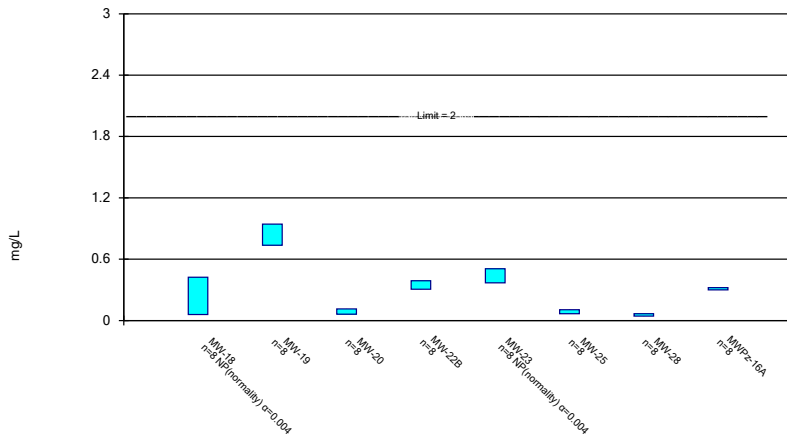
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 10/17/2024 2:20 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

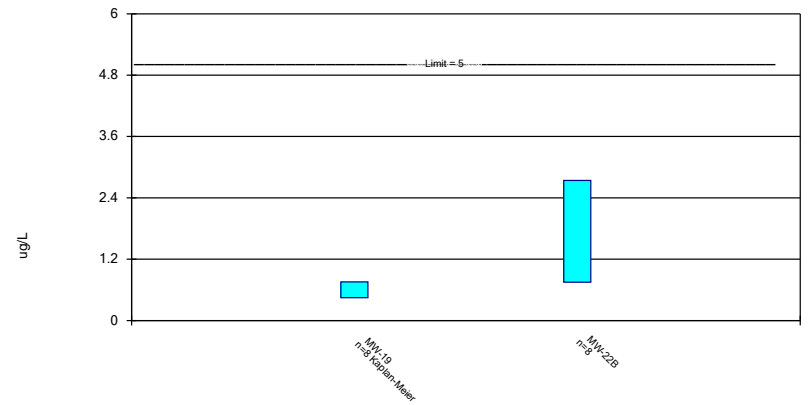
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 10/17/2024 2:20 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric Confidence Interval

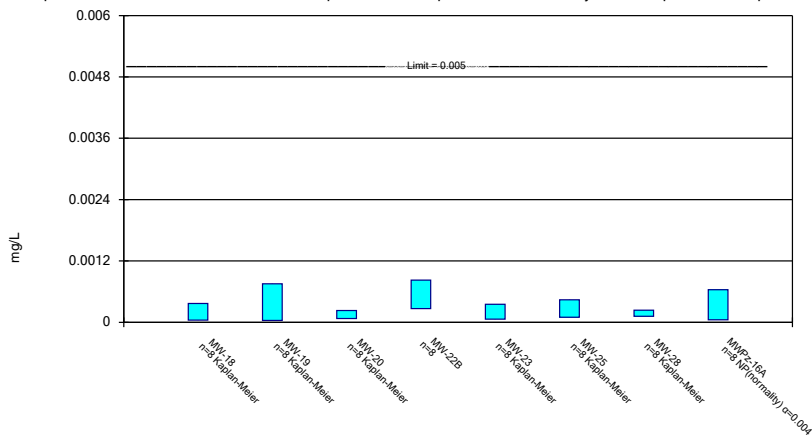
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 10/17/2024 2:20 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

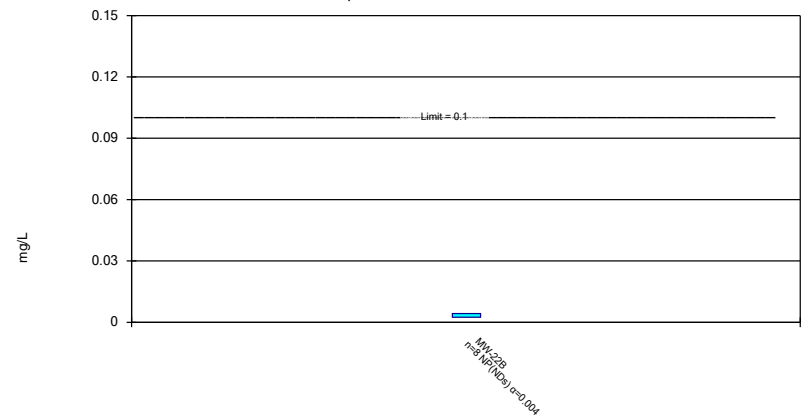
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

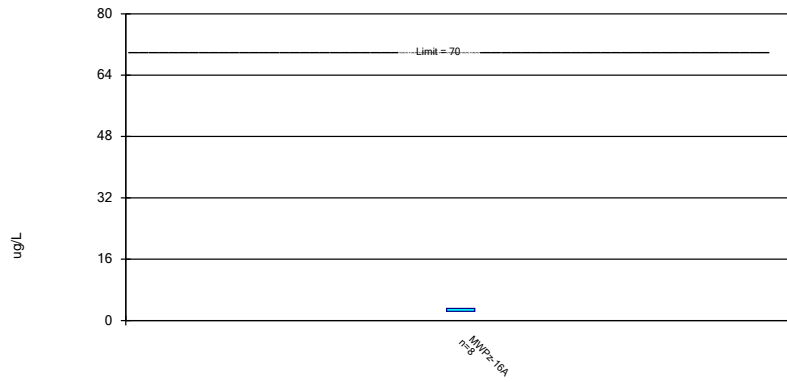
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric Confidence Interval

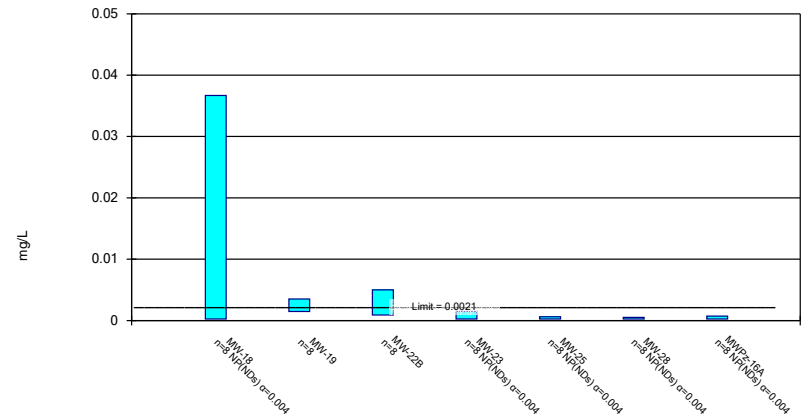
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interv  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

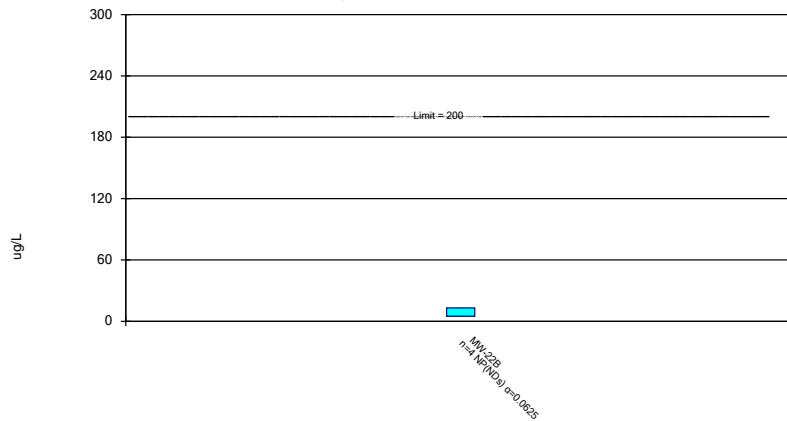
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

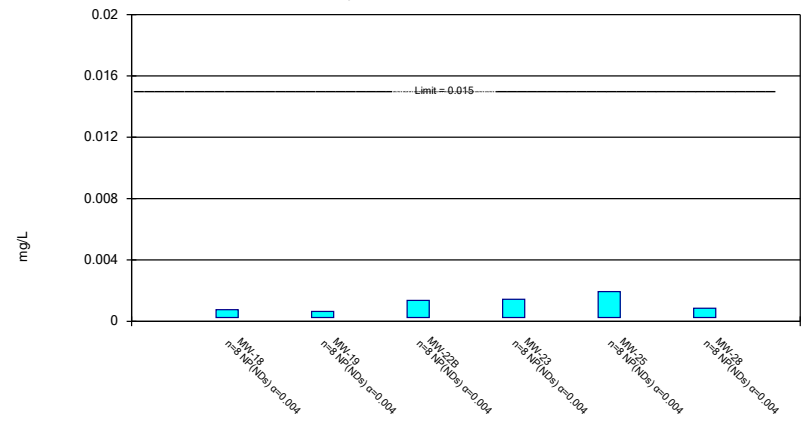
Compliance Limit is not exceeded.



Constituent: Cyanide Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

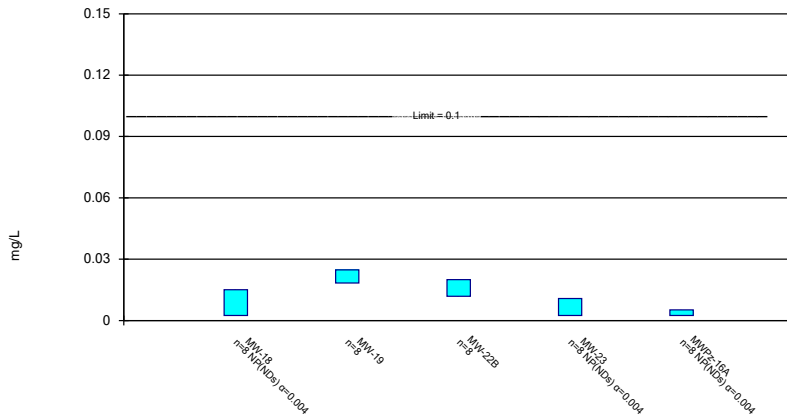
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

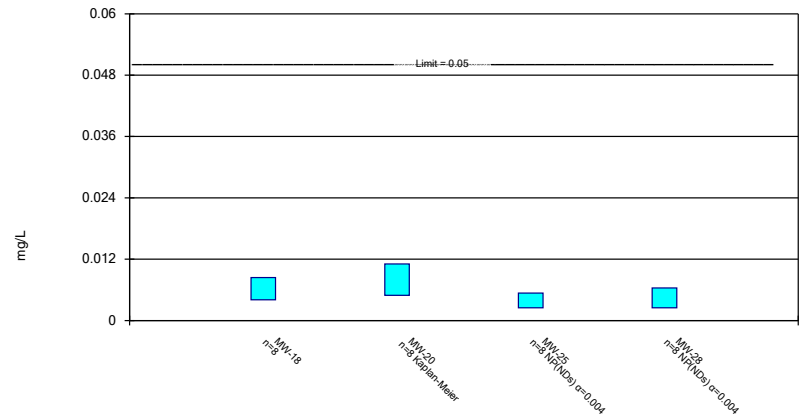
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric and Non-Parametric (NP) Confidence Interval

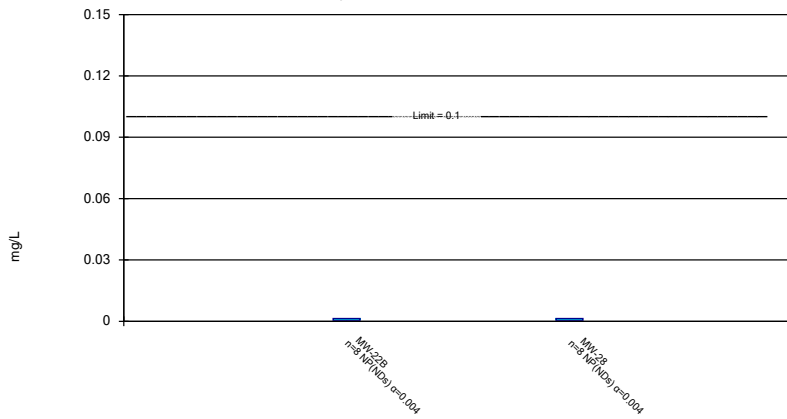
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Selenium Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

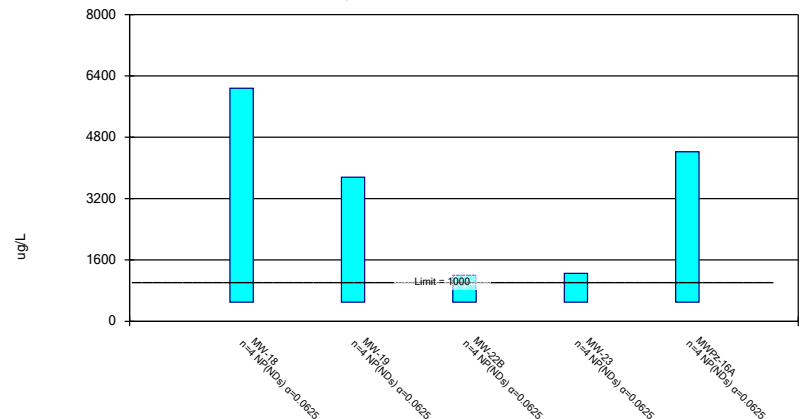
Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

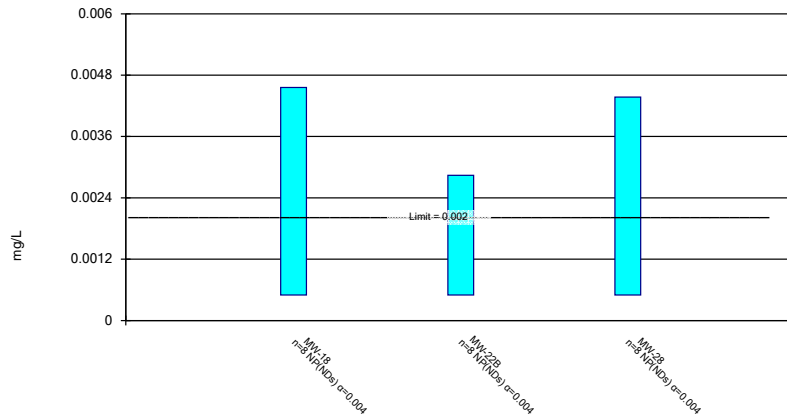
Compliance Limit is not exceeded.



Constituent: Sulfide Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

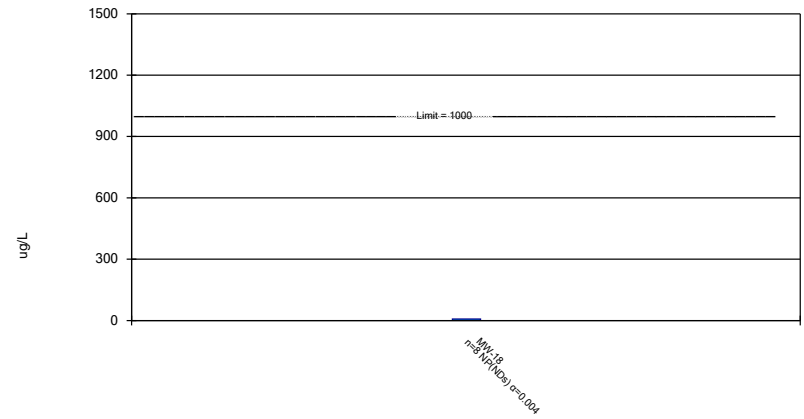
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

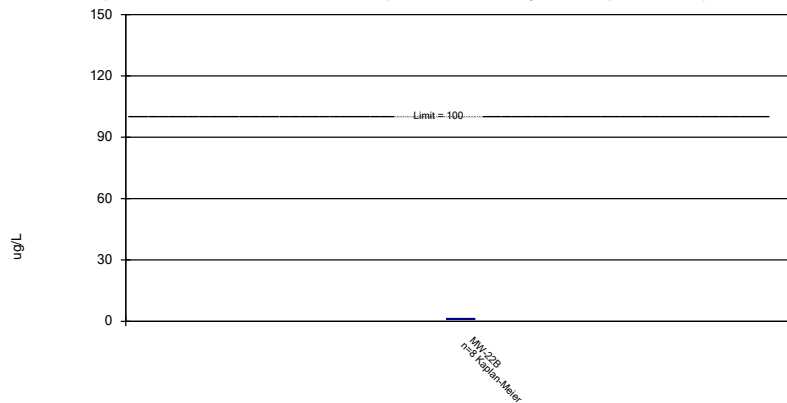
Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Parametric Confidence Interval

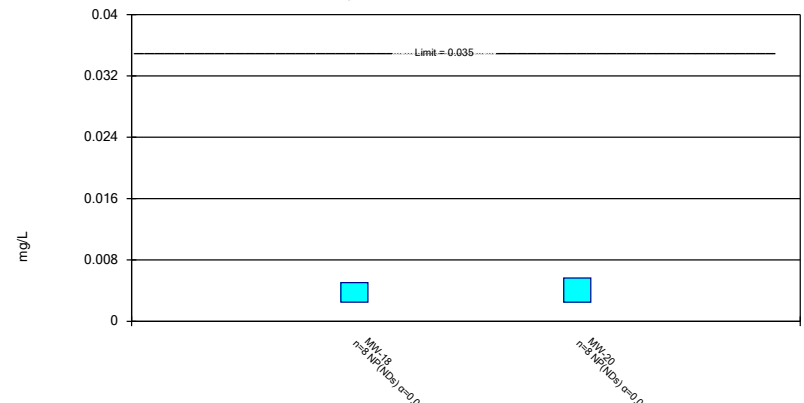
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: trans-1,2-Dichloroethene Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Int  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

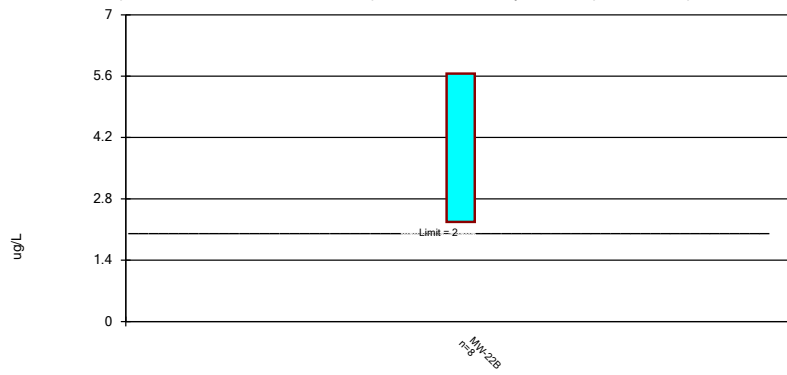


Constituent: Vanadium Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM



### Parametric Confidence Interval

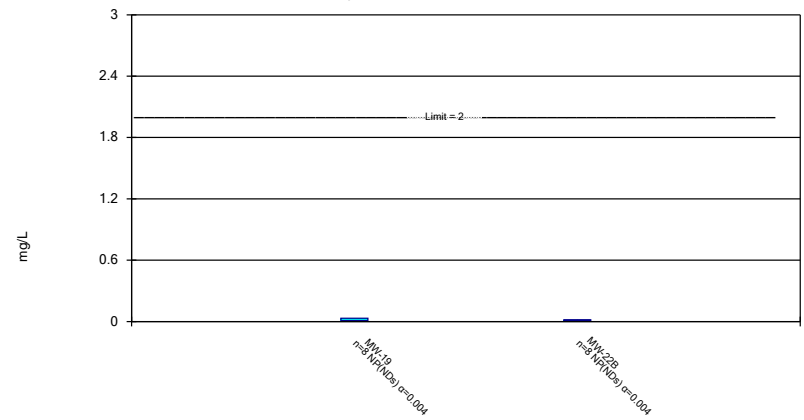
Compliance limit is exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Vinyl Chloride Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Zinc Analysis Run 10/17/2024 2:21 PM View: 2024SSN - Confidence Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

## **Theil-Sen Confidence Bands Table and Graphs**

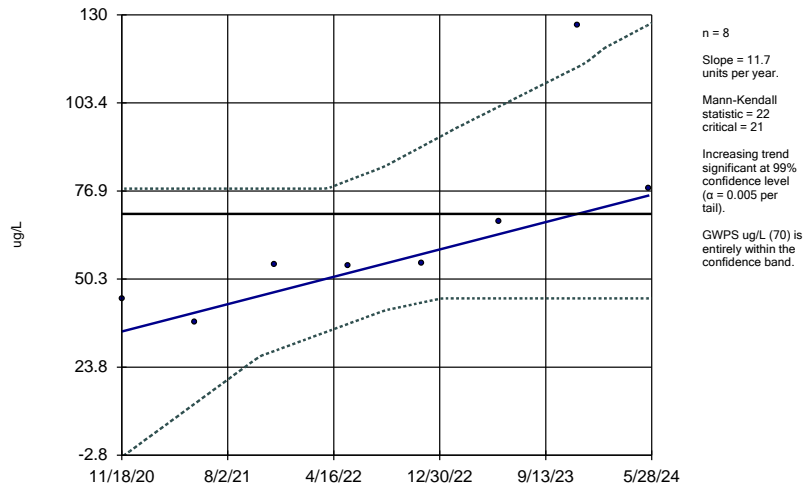
# Theil Sen/Trend Test

Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM Printed 10/17/2024, 2:28 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> |
|--------------------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|--------------|---------------|
| <b>cis-1,2-Dichloroethene (ug/L)</b> | <b>MW-22B</b> | <b>11.7</b>  | <b>22</b>    | <b>21</b>       | <b>Yes</b>  | <b>8</b> | <b>0</b>    | <b>0.01</b>  | <b>NP</b>     |

### Sen's Slope and 99% Confidence Band

MW-22B

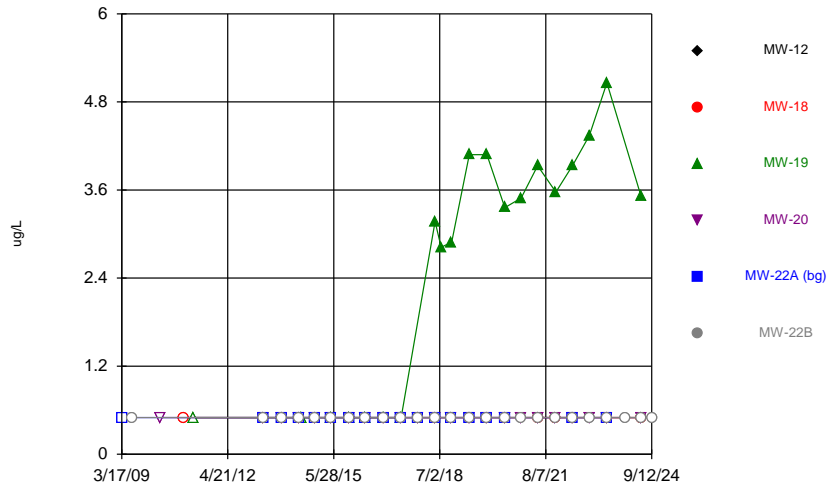


Constituent: cis-1,2-Dichloroethene Analysis Run 10/17/2024 2:26 PM View: 2024SSN - Theil Sen  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-HMSP-2024SSN-AM

**Attachment B**  
**2<sup>nd</sup> 2024 Statistical Output**

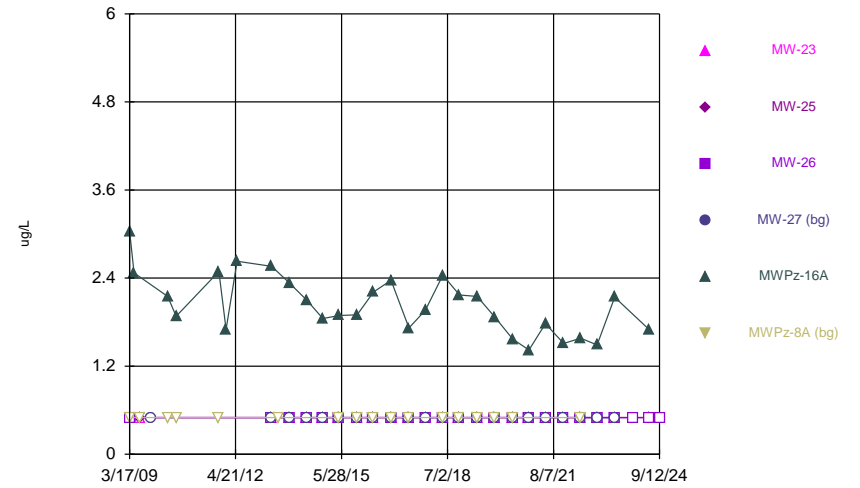
## Time Series Plots

Time Series



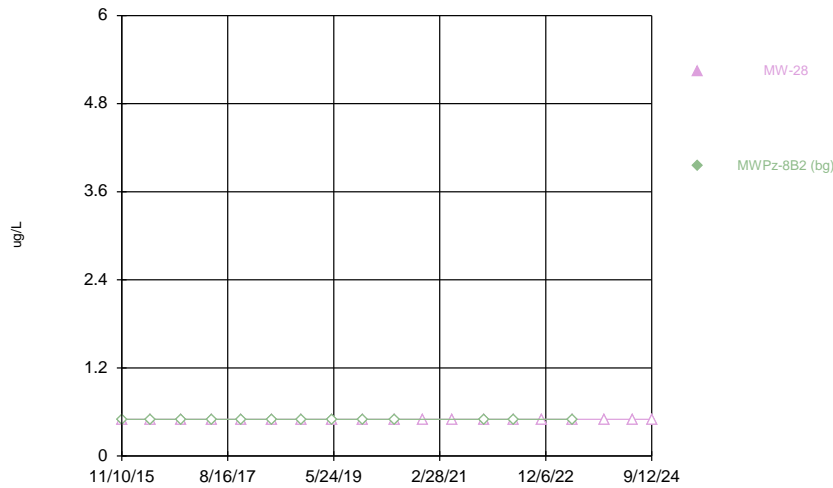
Constituent: 1,1-Dichloroethane Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



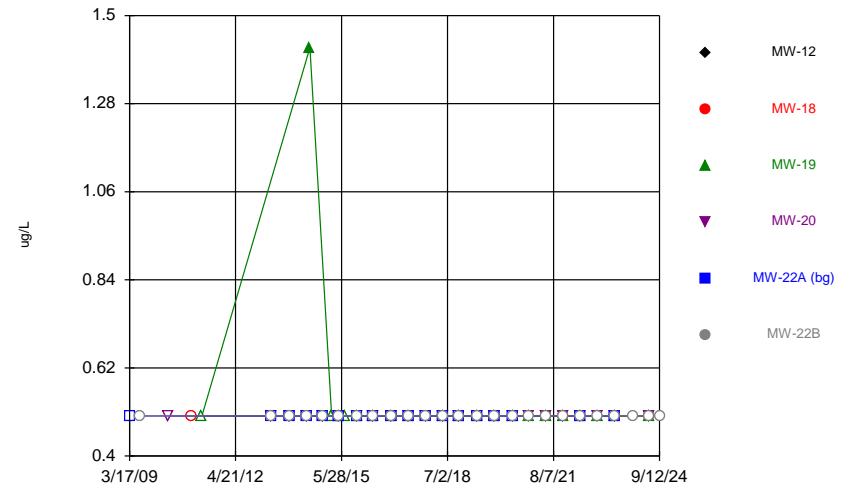
Constituent: 1,1-Dichloroethane Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



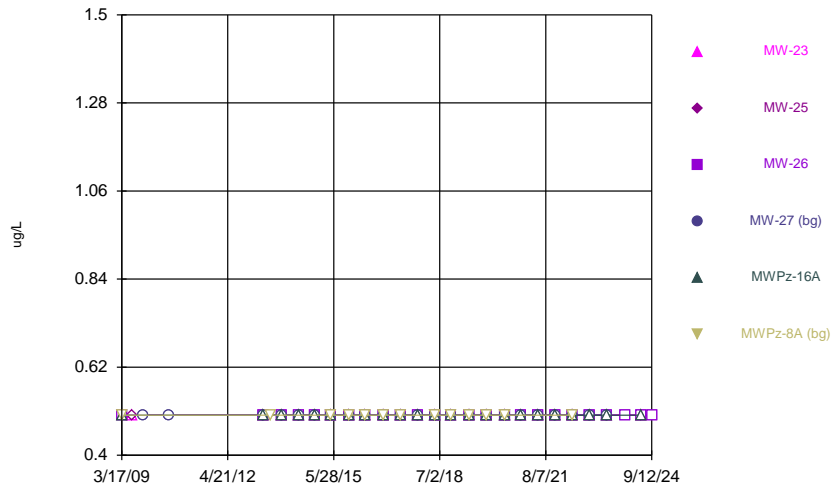
Constituent: 1,1-Dichloroethane Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



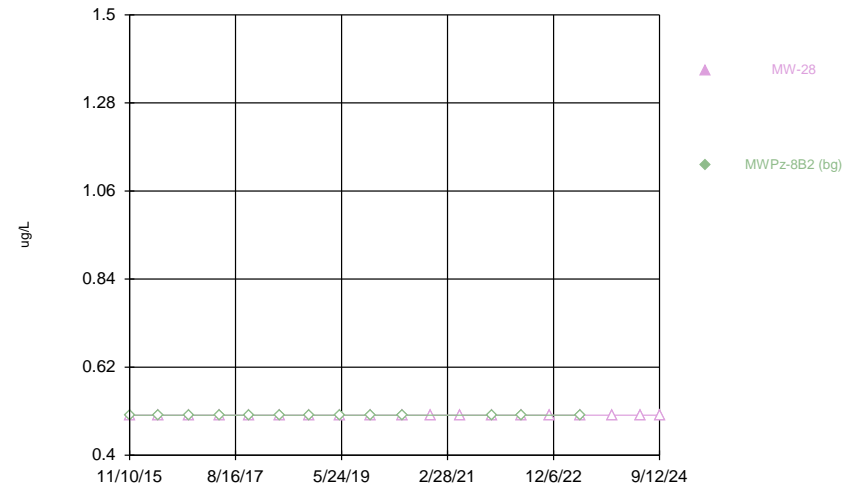
Constituent: 1,2-Dichloroethane Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



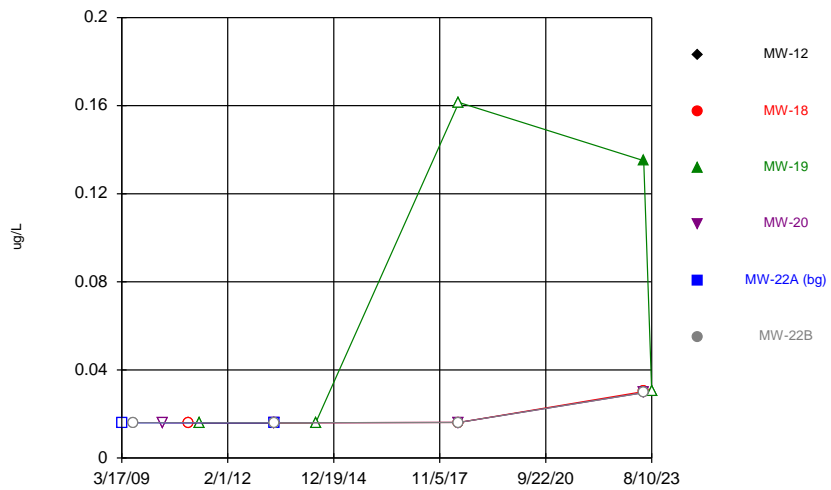
Constituent: 1,2-Dichloroethane Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



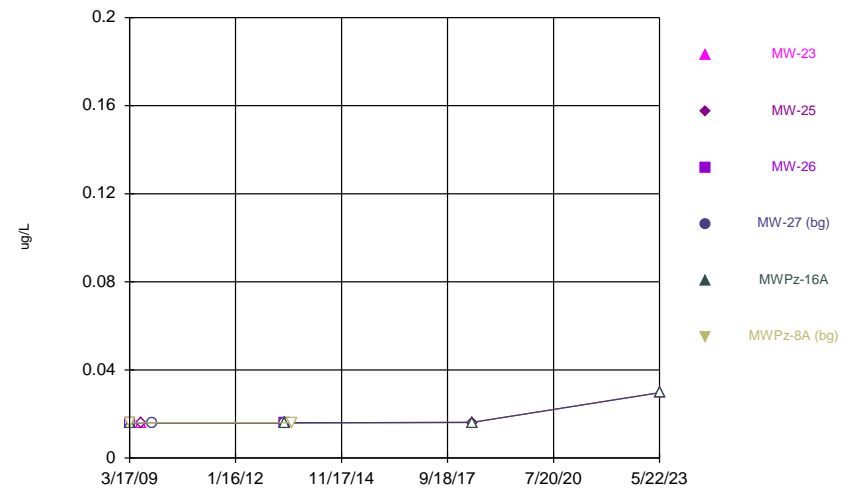
Constituent: 1,2-Dichloroethane Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



Constituent: 4,4'-DDD Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

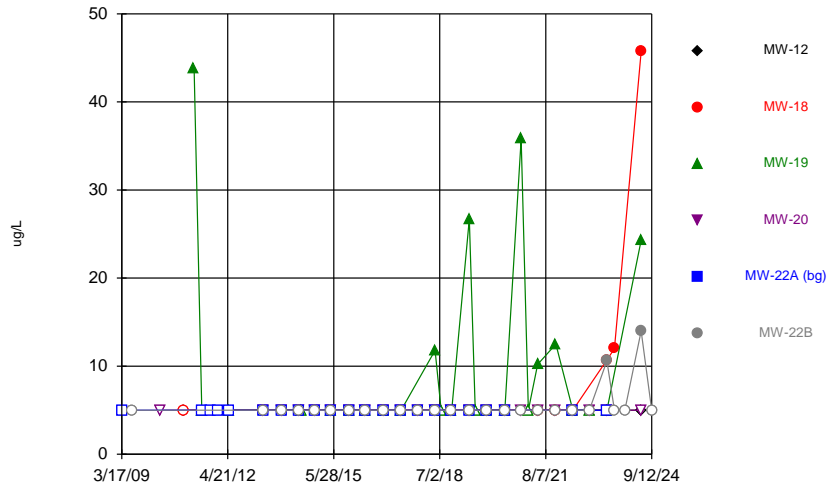
Time Series



Constituent: 4,4'-DDD Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

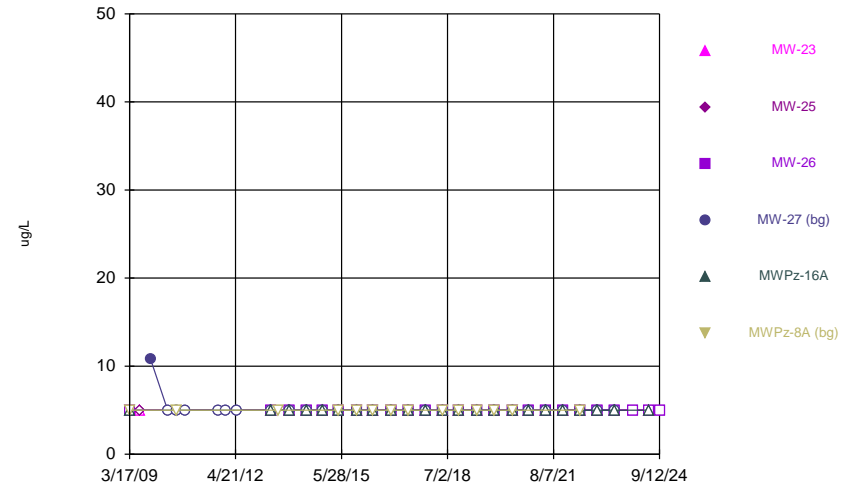


Time Series



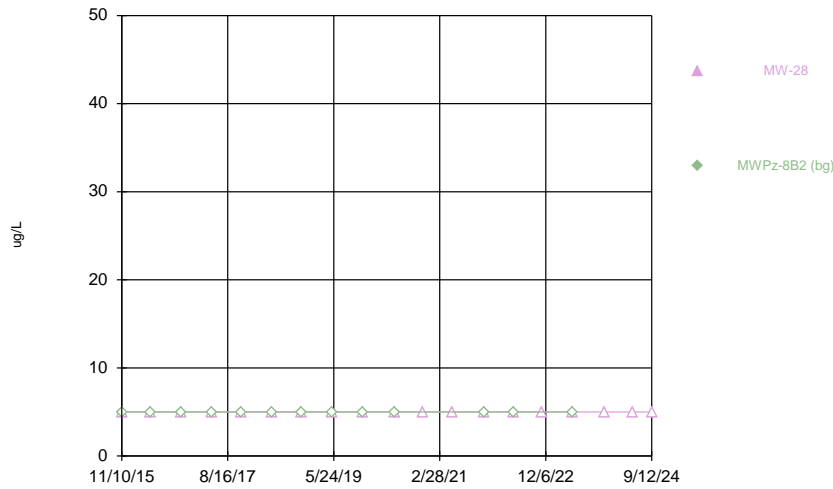
Constituent: Acetone Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



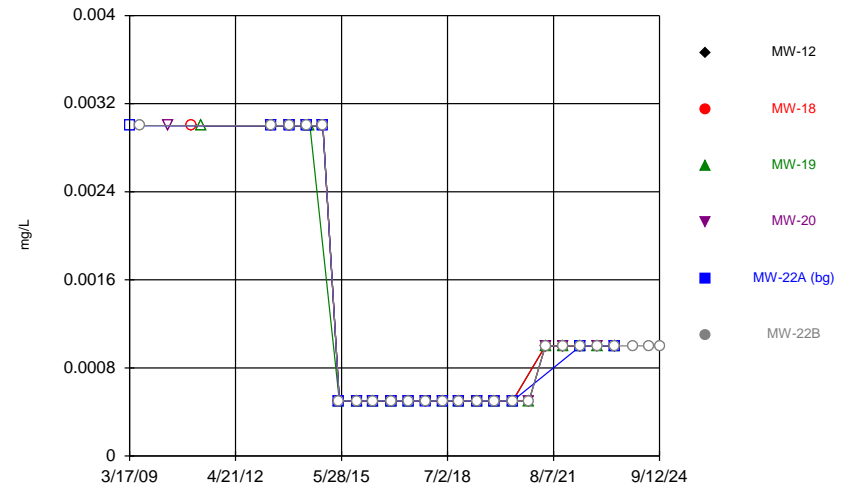
Constituent: Acetone Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



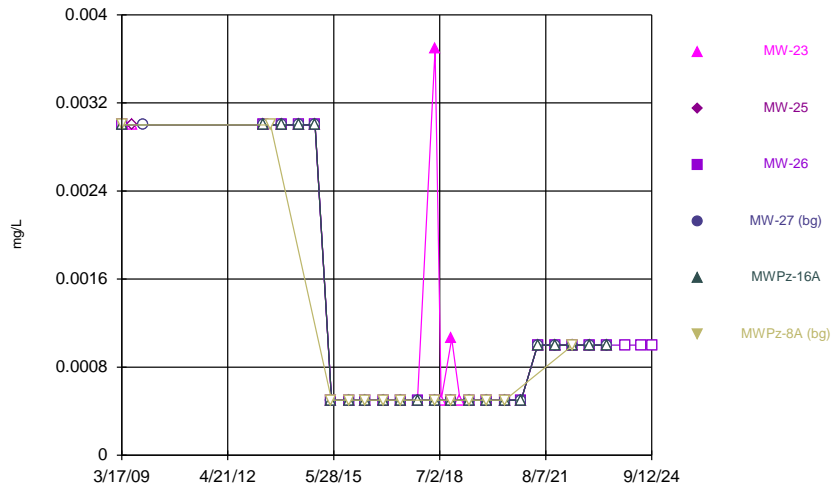
Constituent: Acetone Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



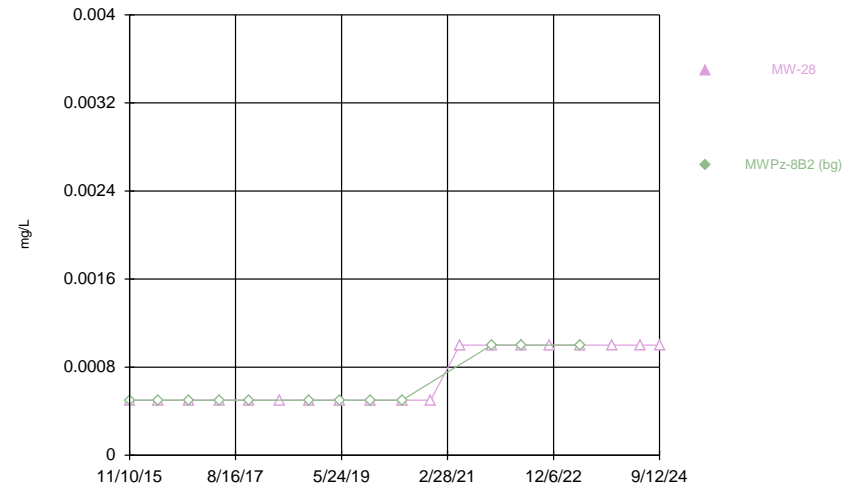
Constituent: Antimony Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



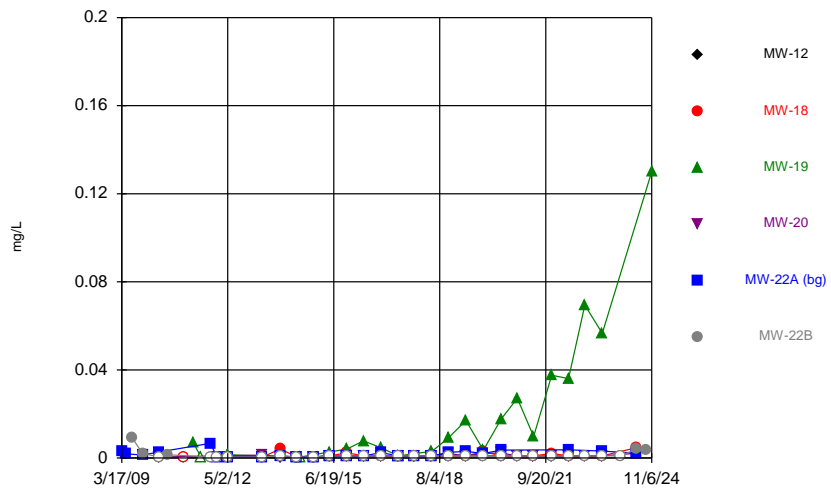
Constituent: Antimony Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



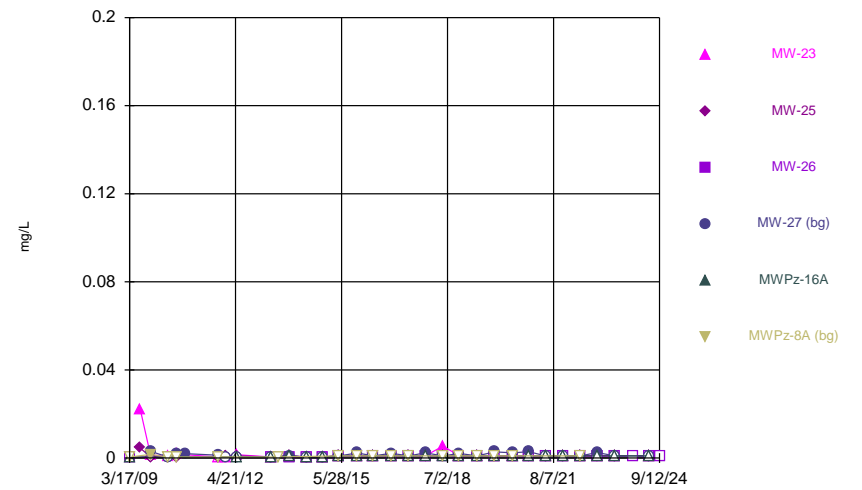
Constituent: Antimony Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



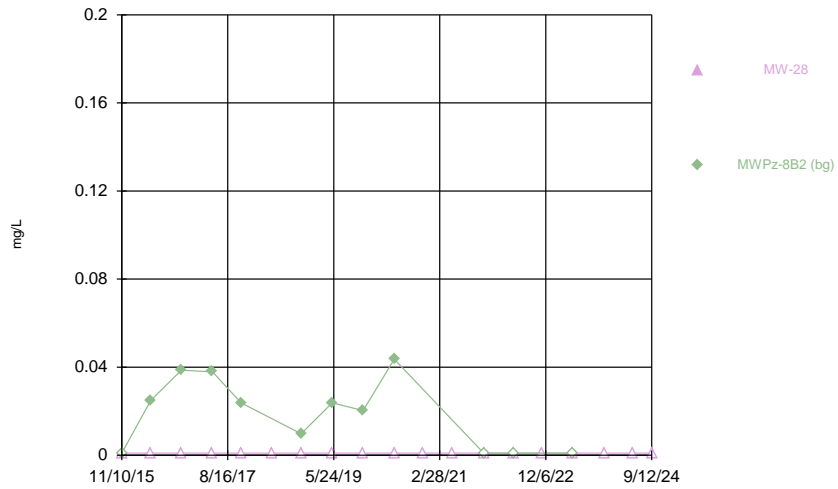
Constituent: Arsenic Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



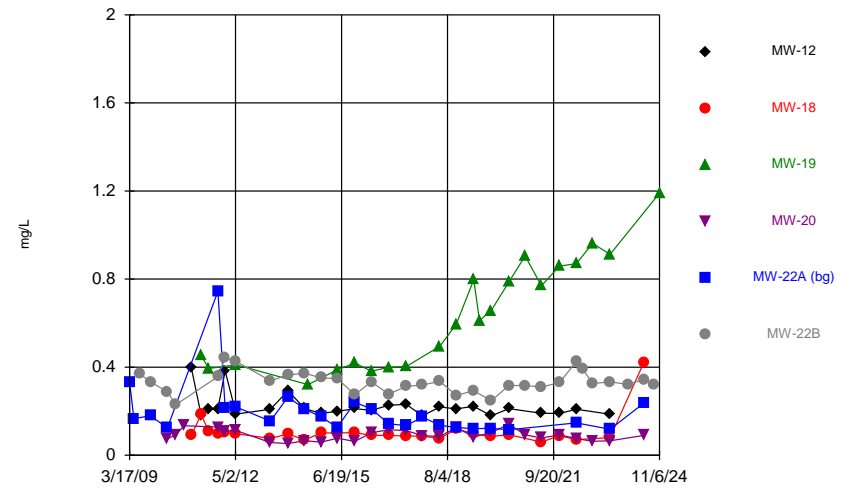
Constituent: Arsenic Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



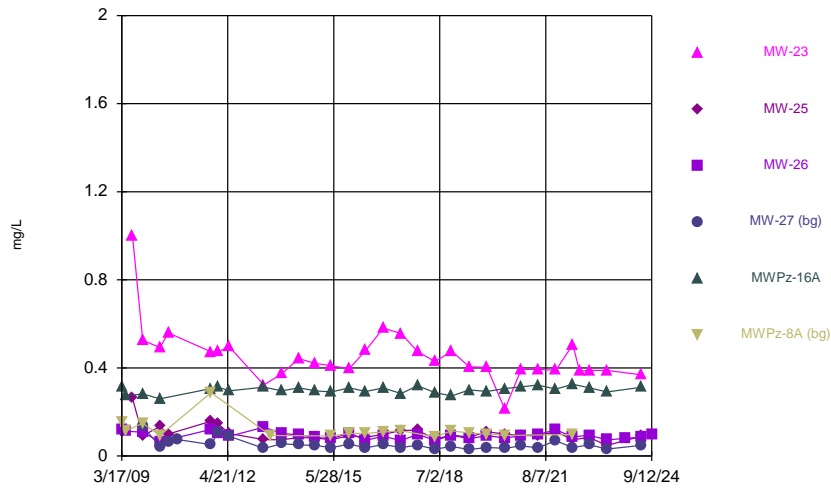
Constituent: Arsenic Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



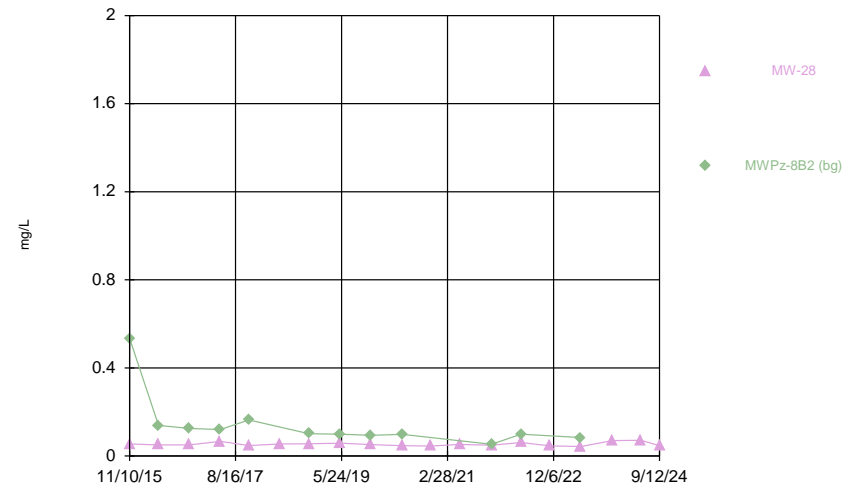
Constituent: Barium Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



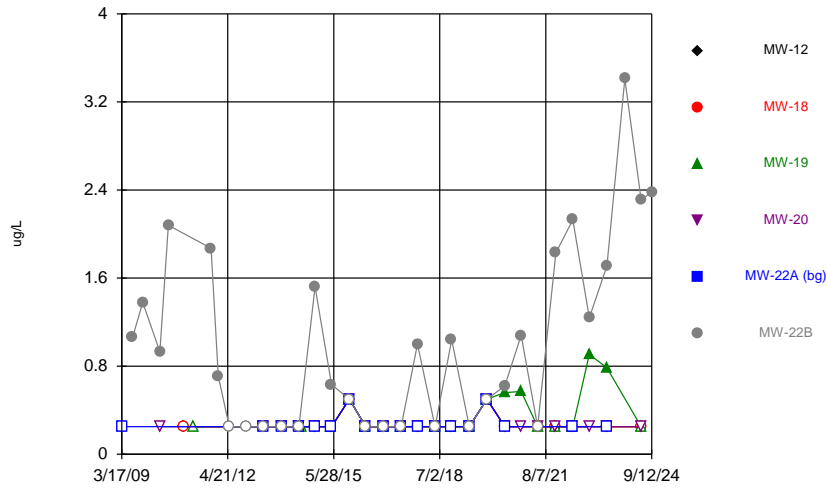
Constituent: Barium Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



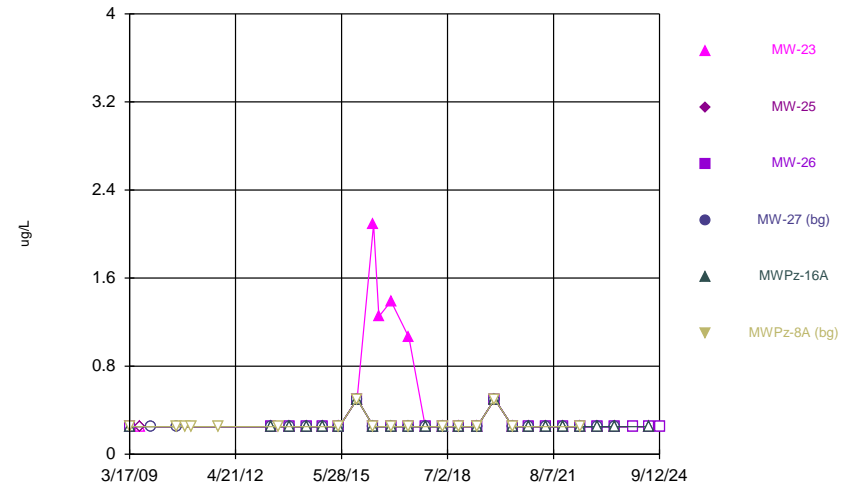
Constituent: Barium Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



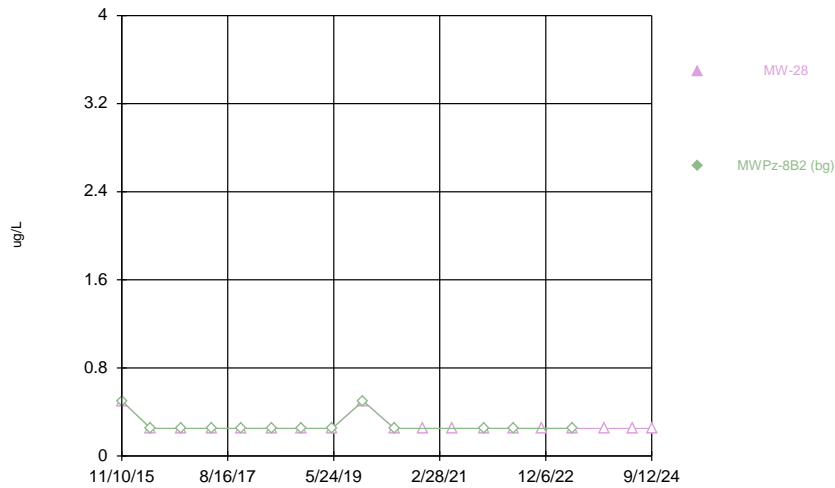
Constituent: Benzene Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



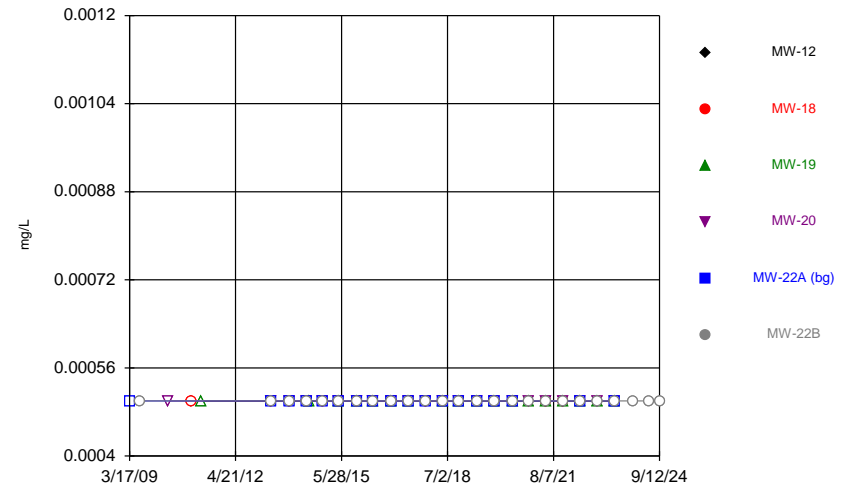
Constituent: Benzene Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



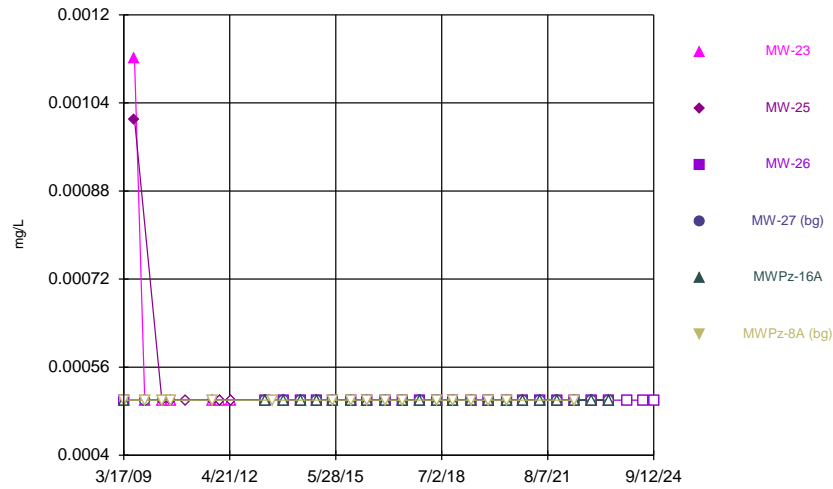
Constituent: Benzene Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



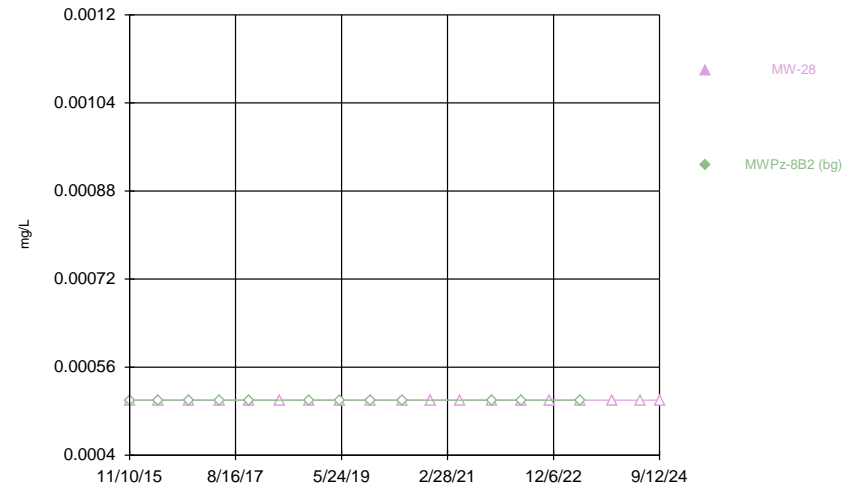
Constituent: Beryllium Analysis Run 1/28/2025 5:51 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



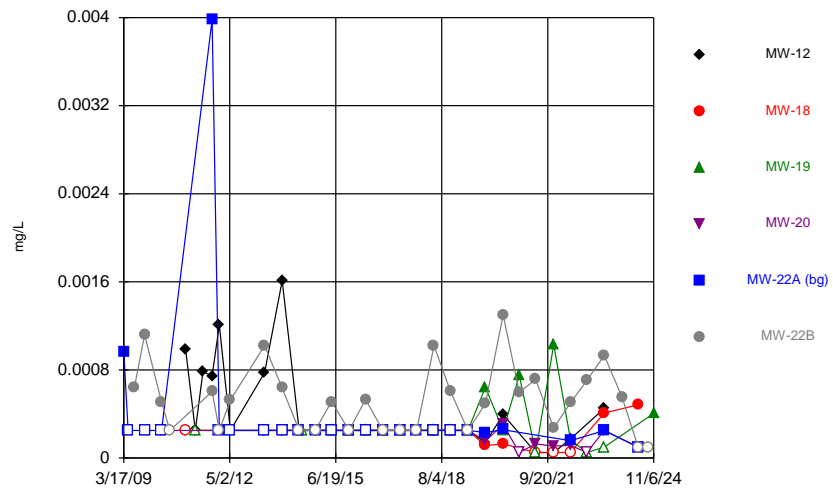
Constituent: Beryllium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



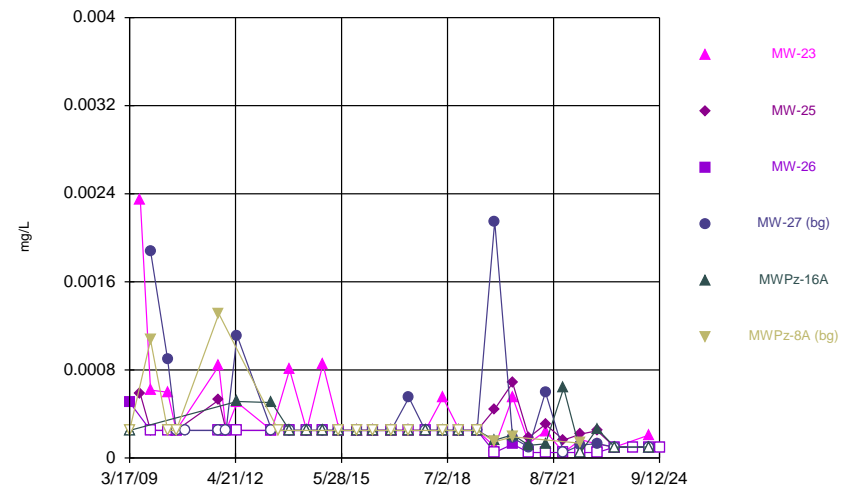
Constituent: Beryllium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



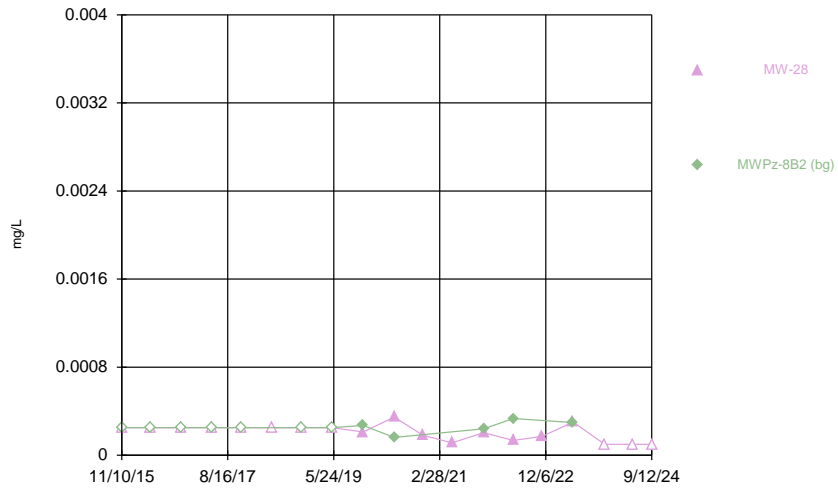
Constituent: Cadmium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



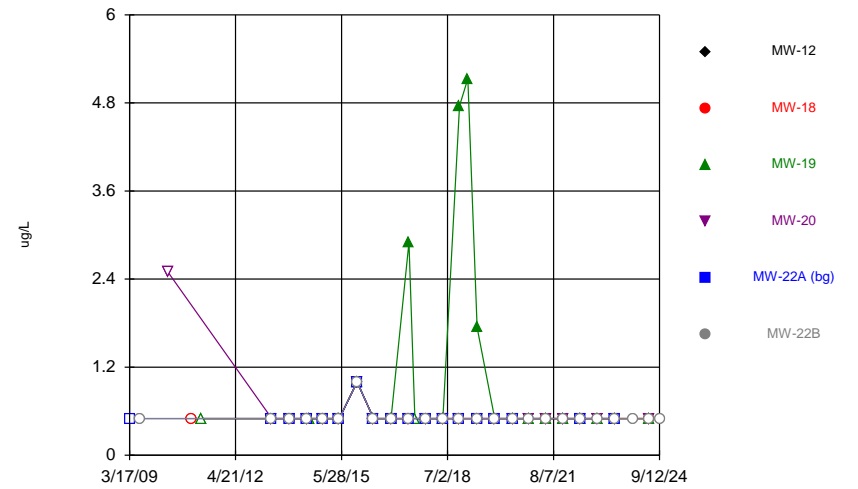
Constituent: Cadmium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



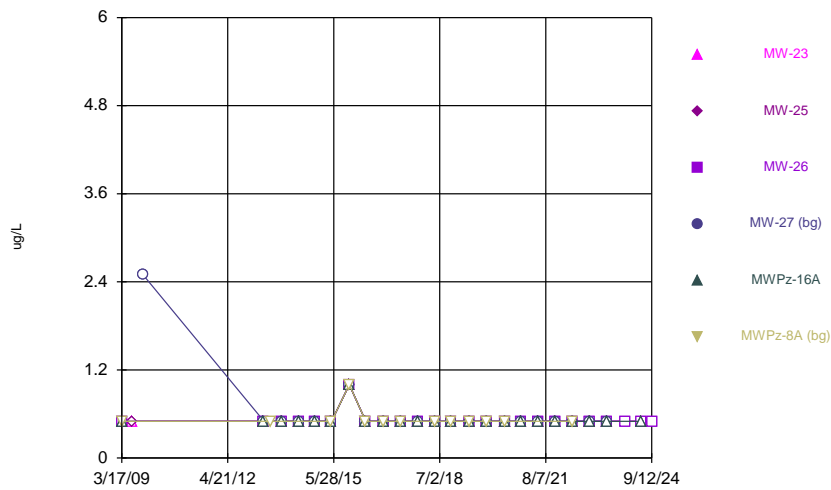
Constituent: Cadmium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



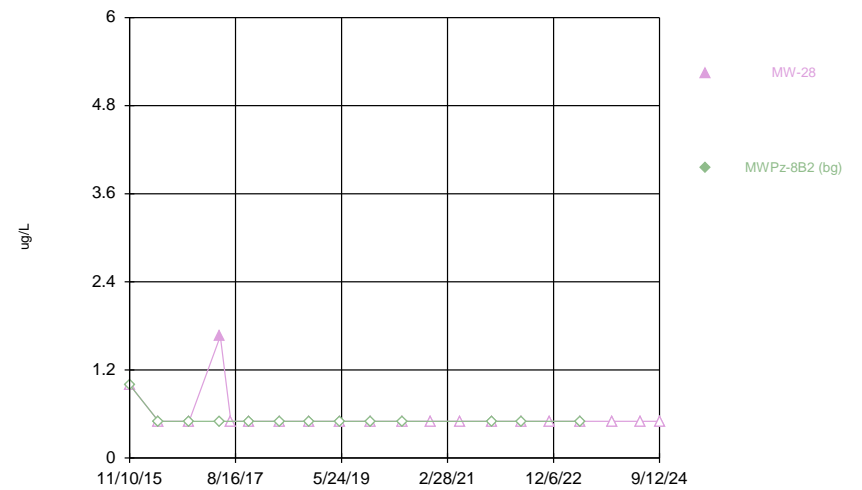
Constituent: Carbon Disulfide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



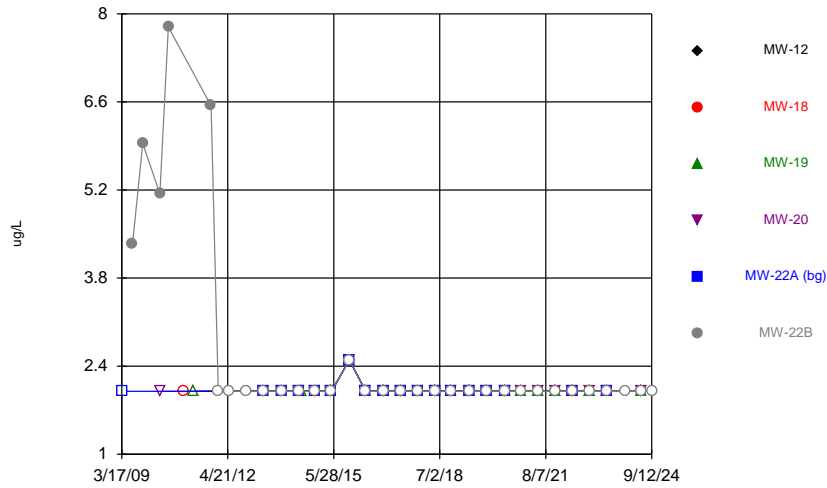
Constituent: Carbon Disulfide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



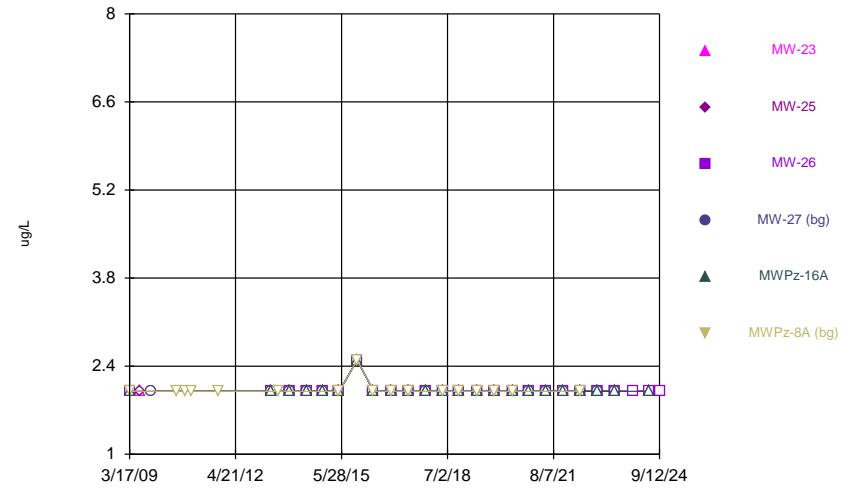
Constituent: Carbon Disulfide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



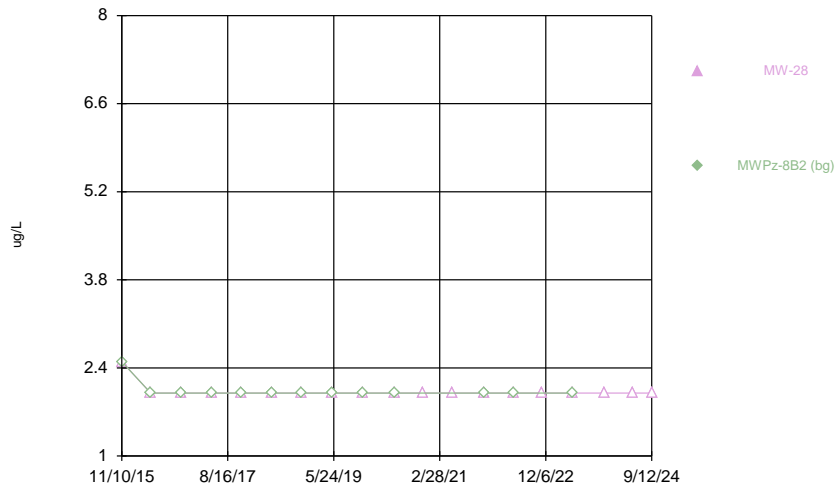
Constituent: Chloroethane Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



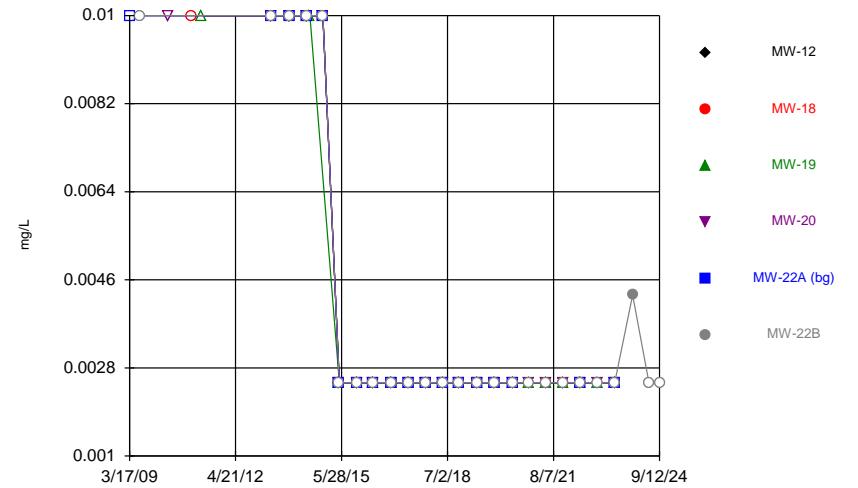
Constituent: Chloroethane Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



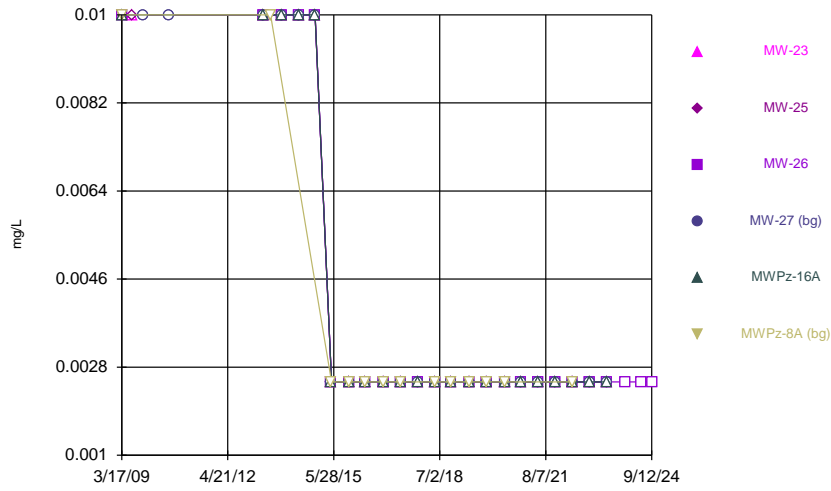
Constituent: Chloroethane Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

Time Series



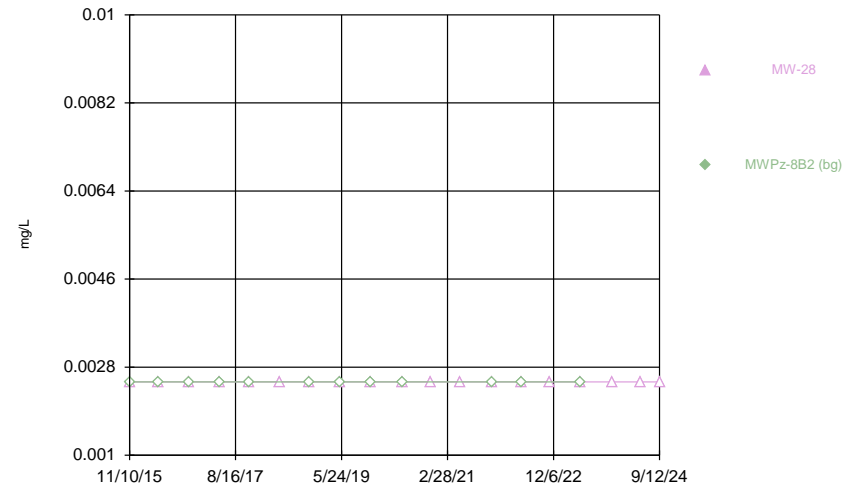
Constituent: Chromium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Santas

### Time Series



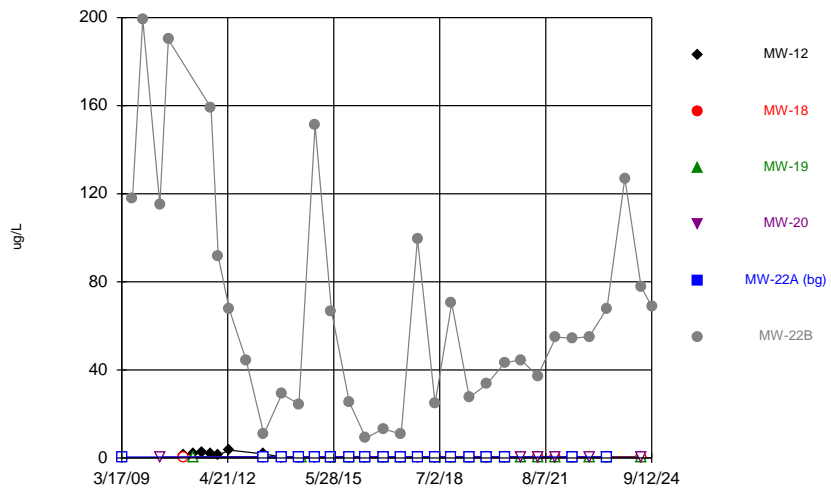
Constituent: Chromium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



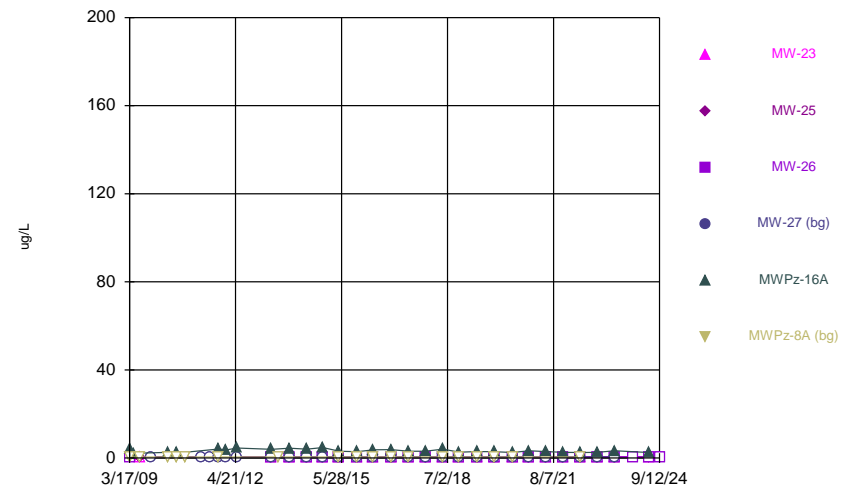
Constituent: Chromium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

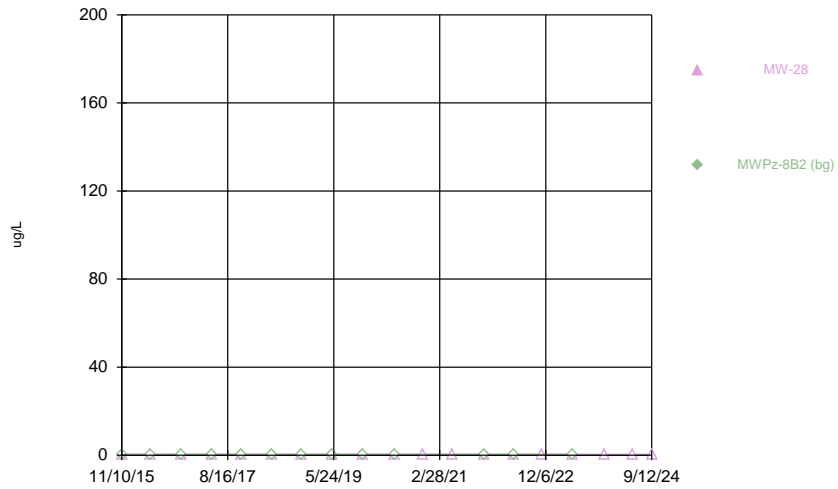
### Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

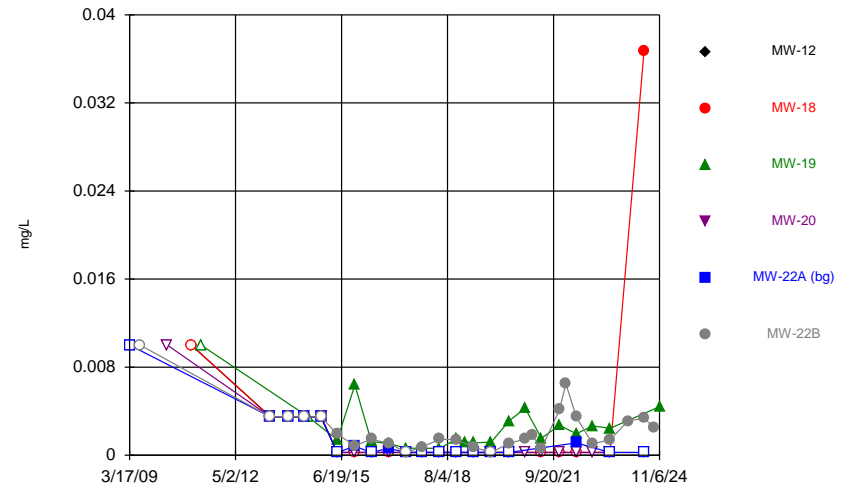


### Time Series



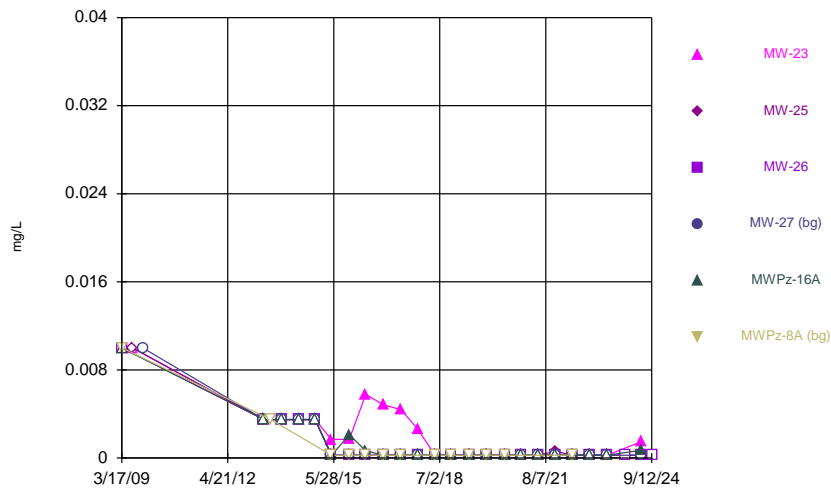
Constituent: cis-1,2-Dichloroethene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



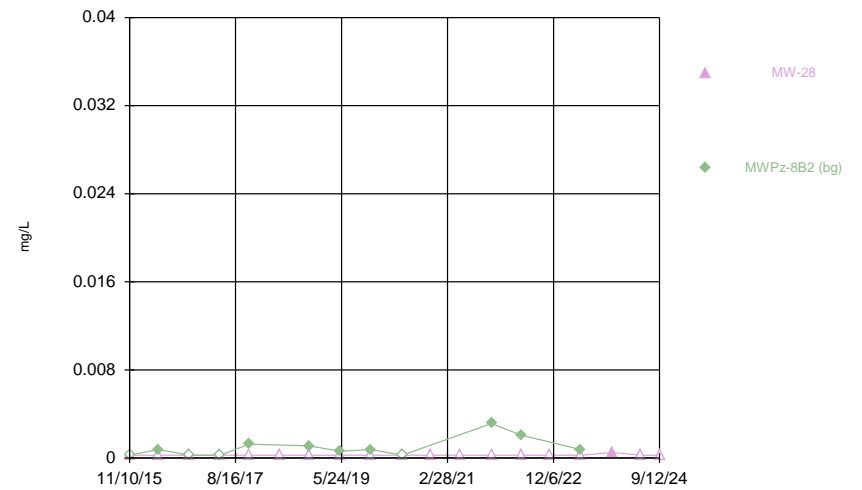
Constituent: Cobalt Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



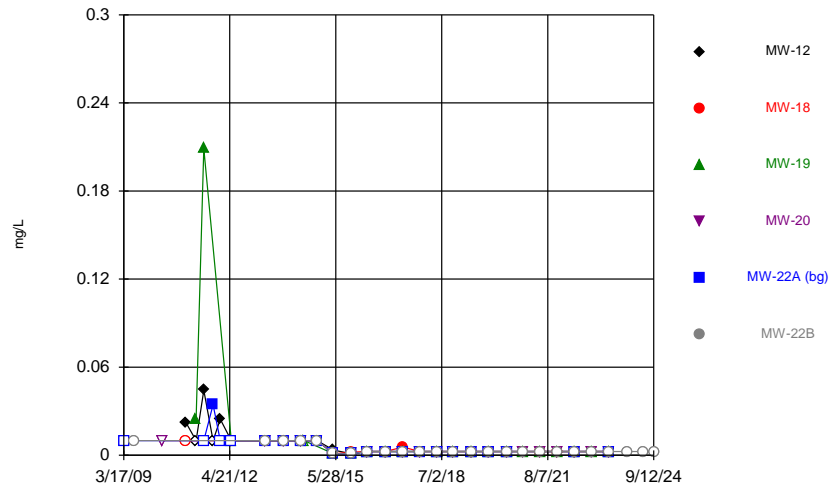
Constituent: Cobalt Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



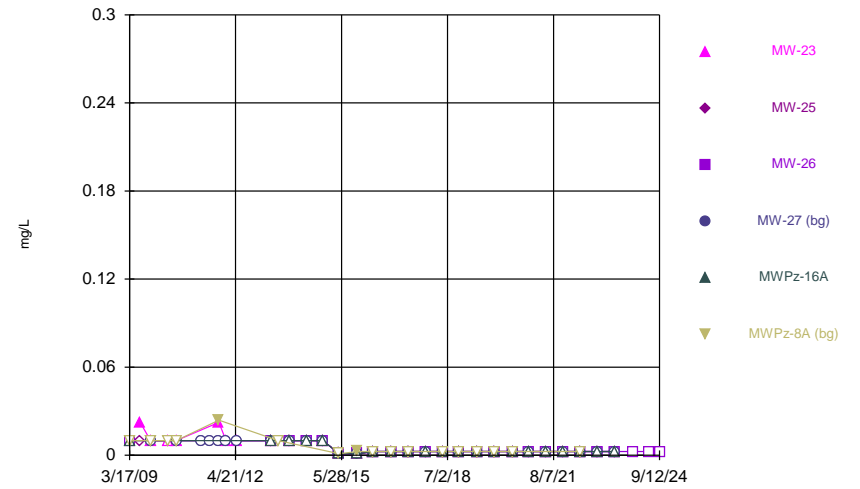
Constituent: Cobalt Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



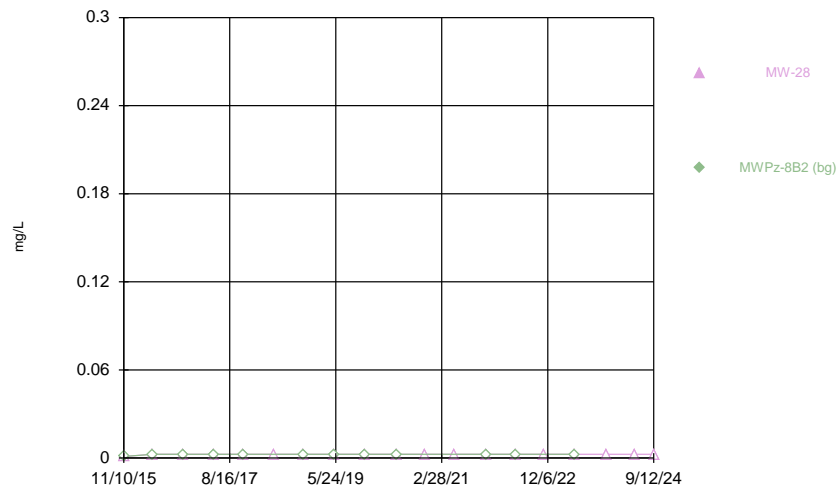
Constituent: Copper Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



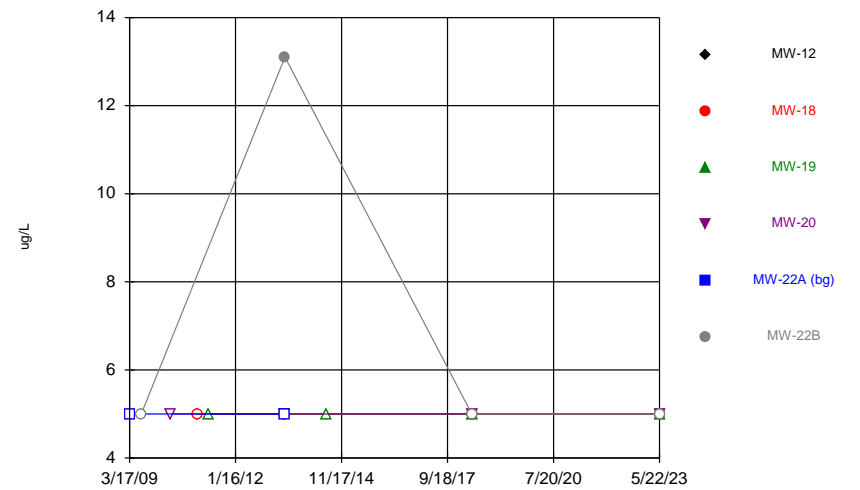
Constituent: Copper Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



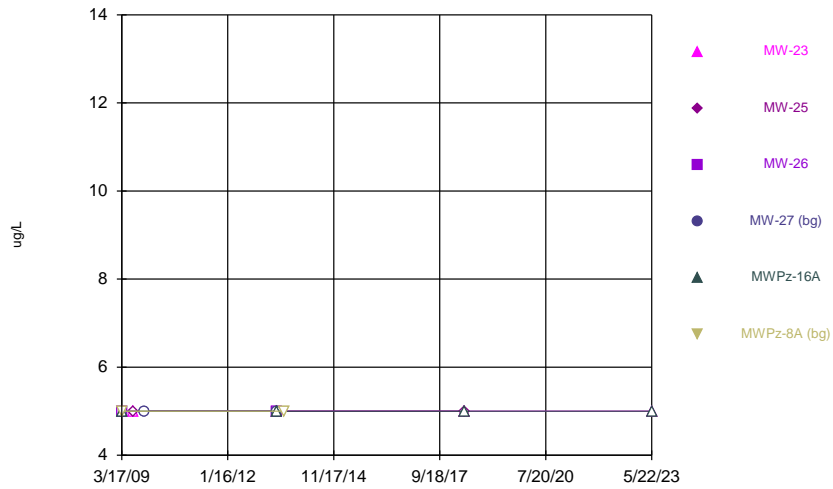
Constituent: Copper Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



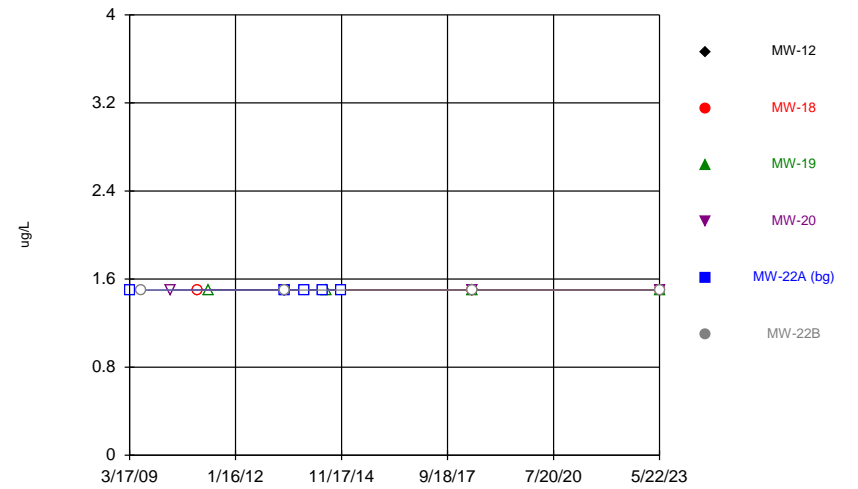
Constituent: Cyanide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



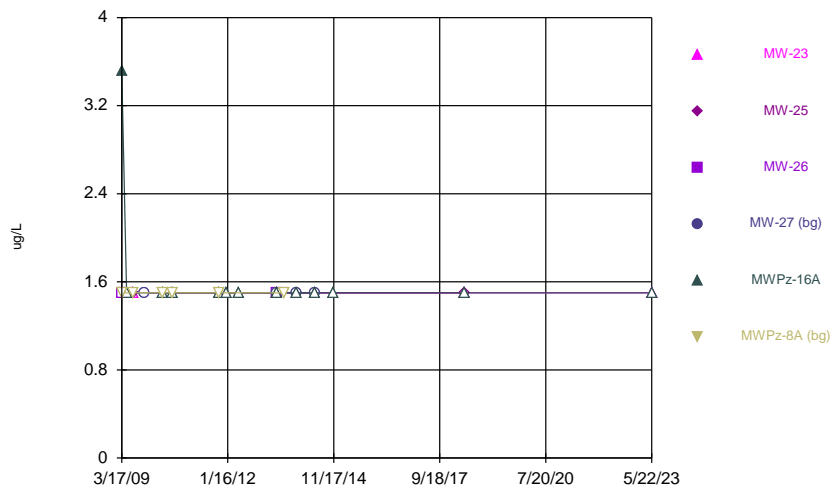
Constituent: Cyanide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



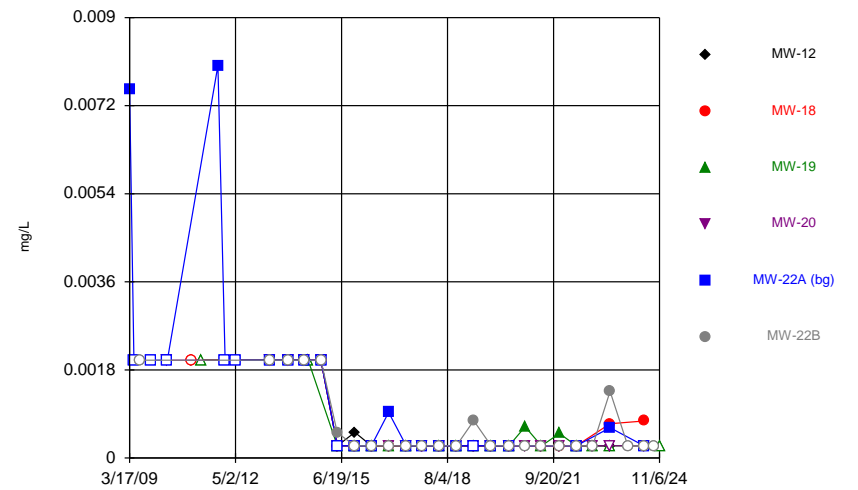
Constituent: Dichlorodifluoromethane Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



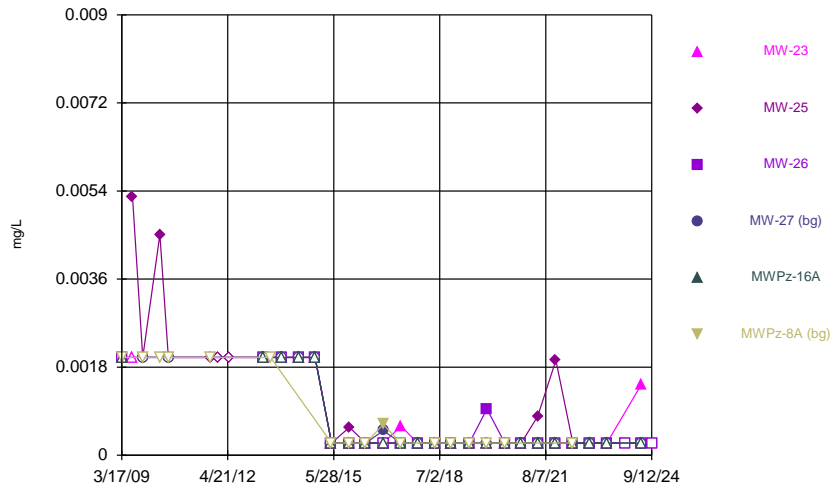
Constituent: Dichlorodifluoromethane Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



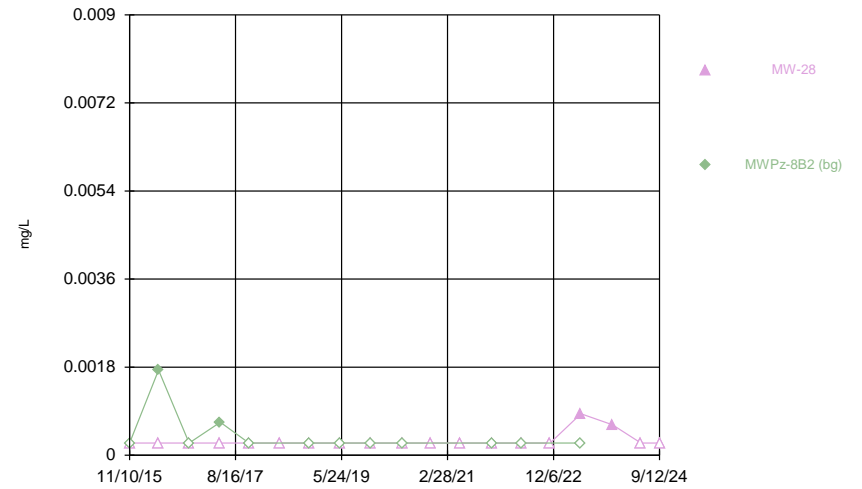
Constituent: Lead Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



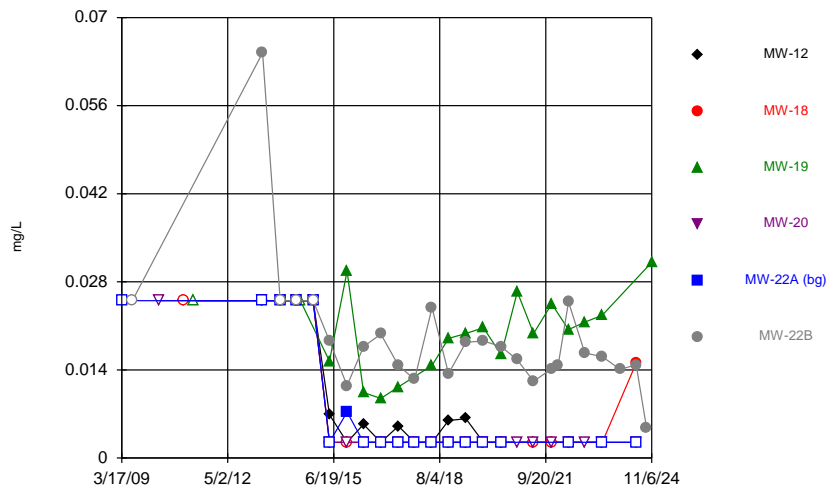
Constituent: Lead Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



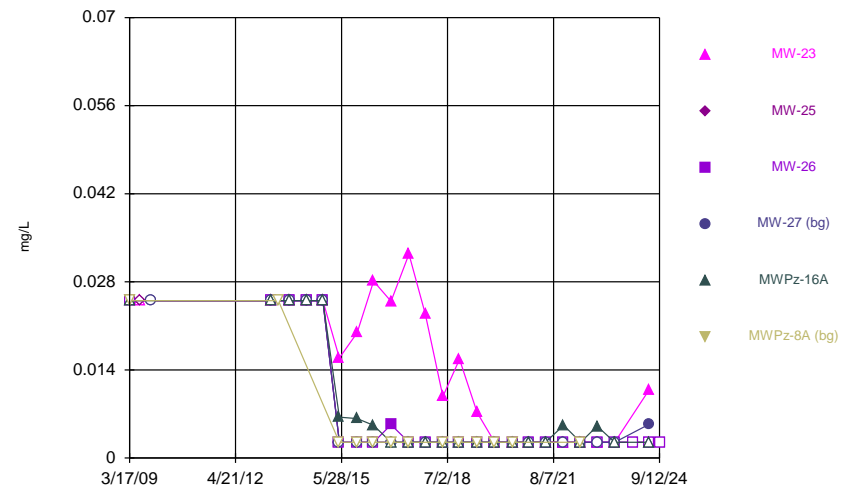
Constituent: Lead Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



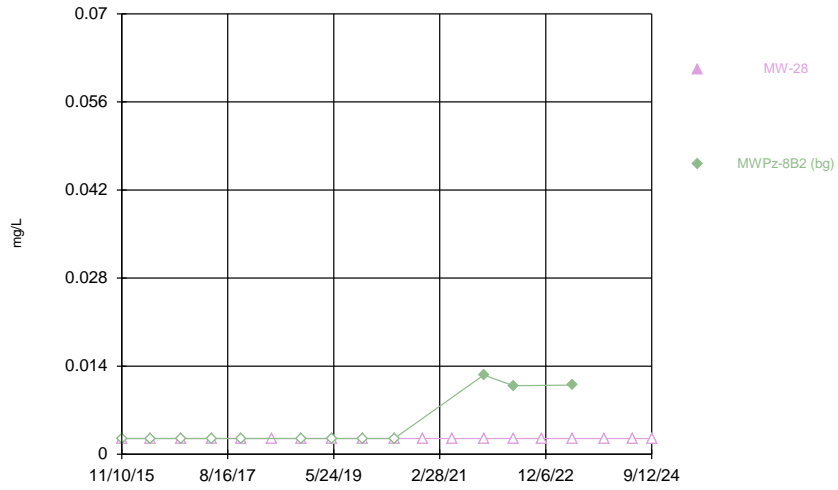
Constituent: Nickel Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



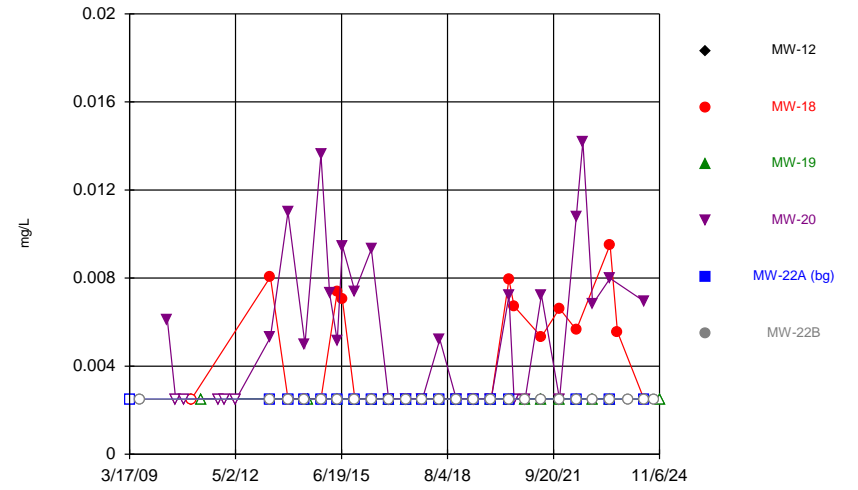
Constituent: Nickel Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



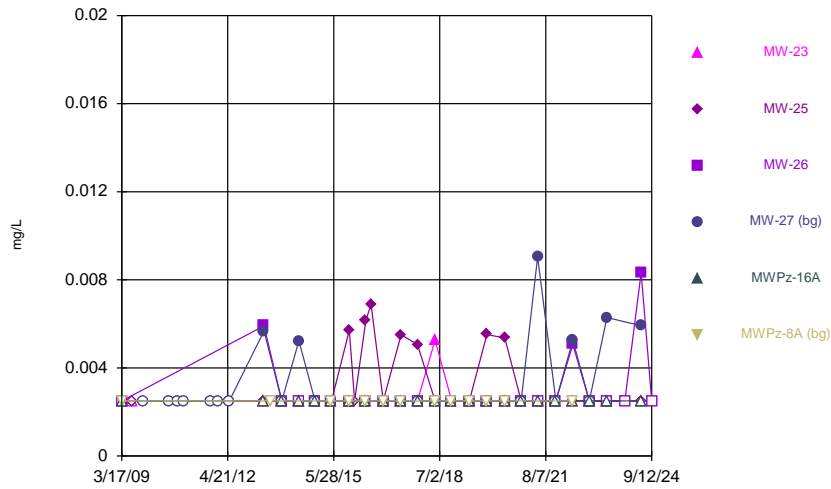
Constituent: Nickel Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



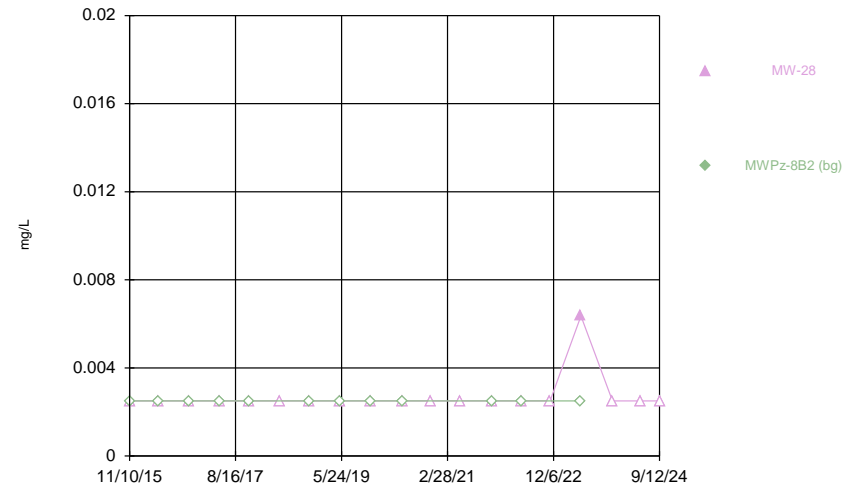
Constituent: Selenium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



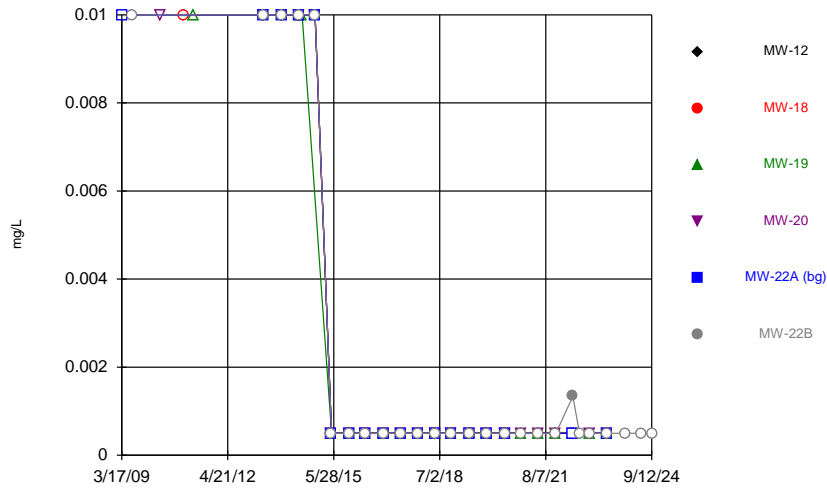
Constituent: Selenium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



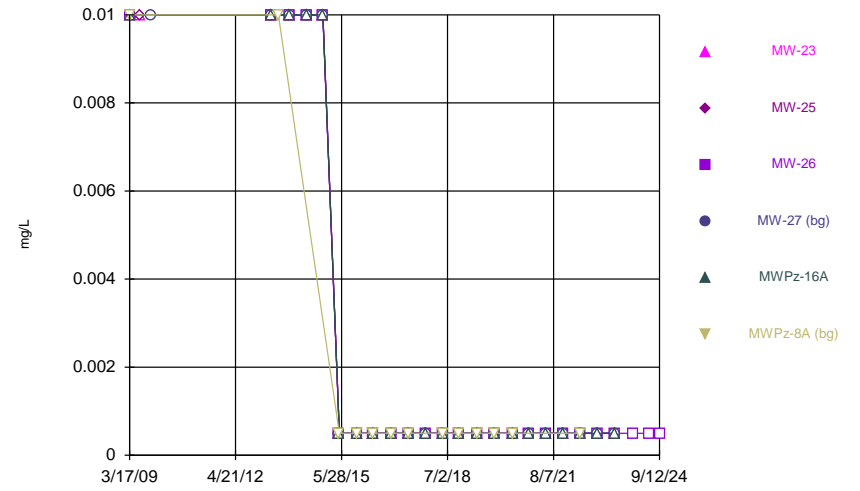
Constituent: Selenium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



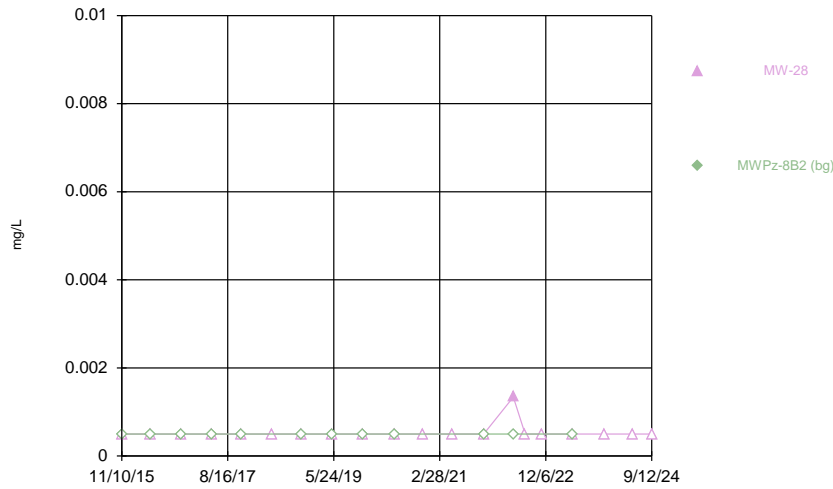
Constituent: Silver Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



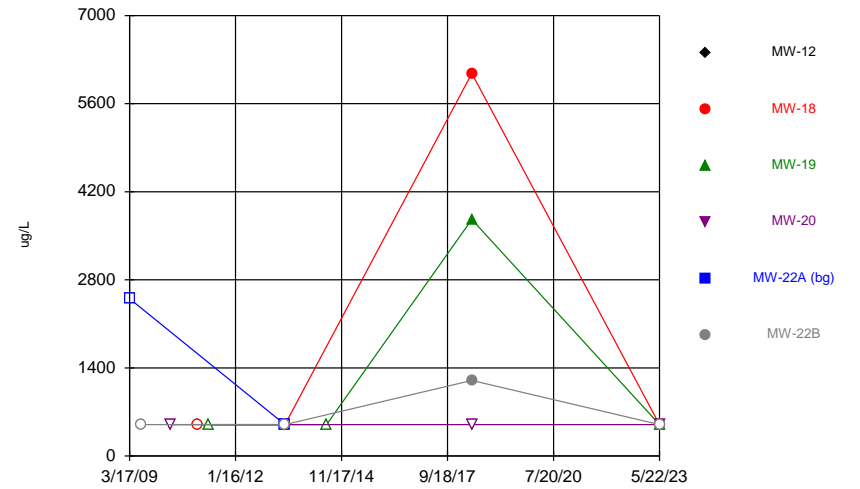
Constituent: Silver Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



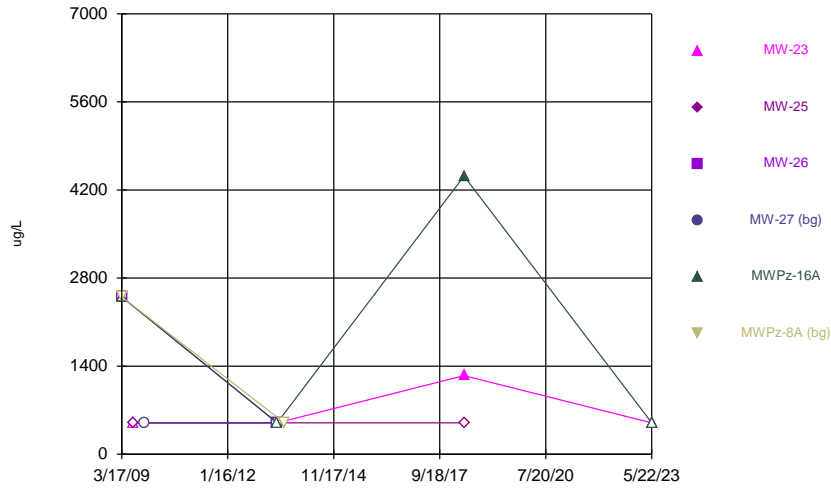
Constituent: Silver Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



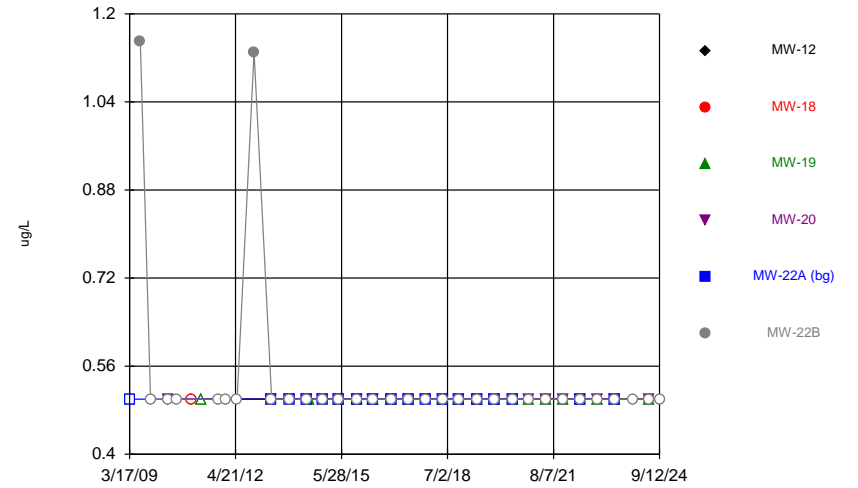
Constituent: Sulfide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



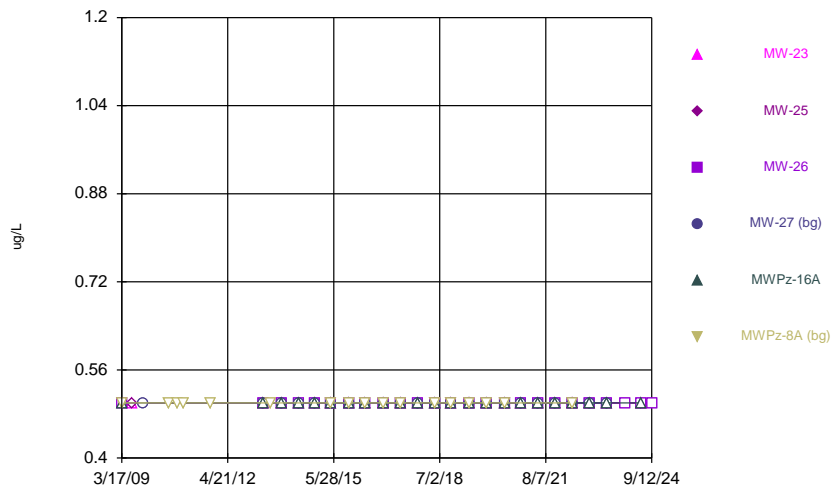
Constituent: Sulfide Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



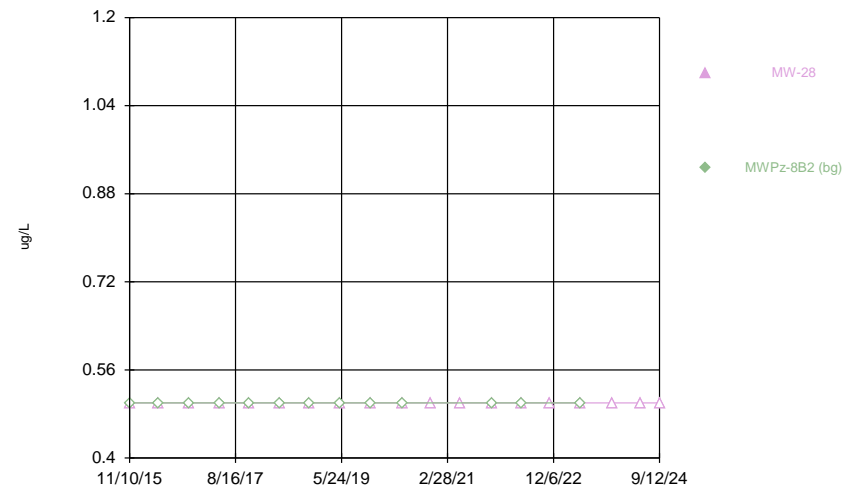
Constituent: Tetrachloroethene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



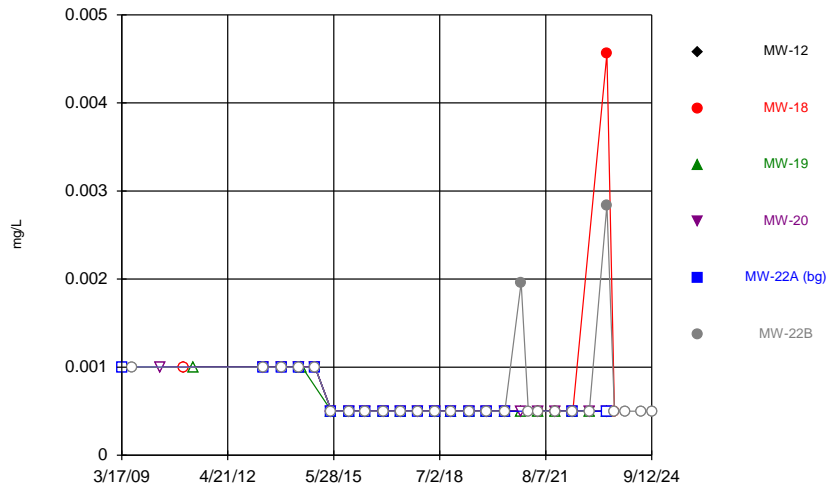
Constituent: Tetrachloroethene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



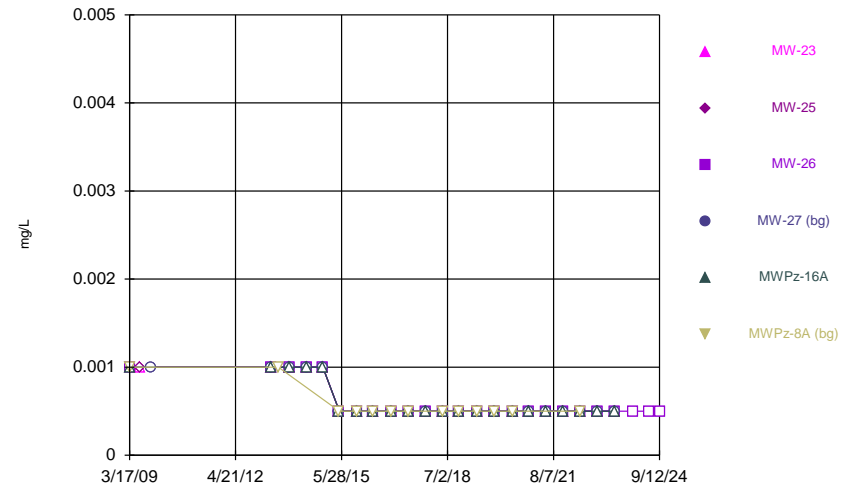
Constituent: Tetrachloroethene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



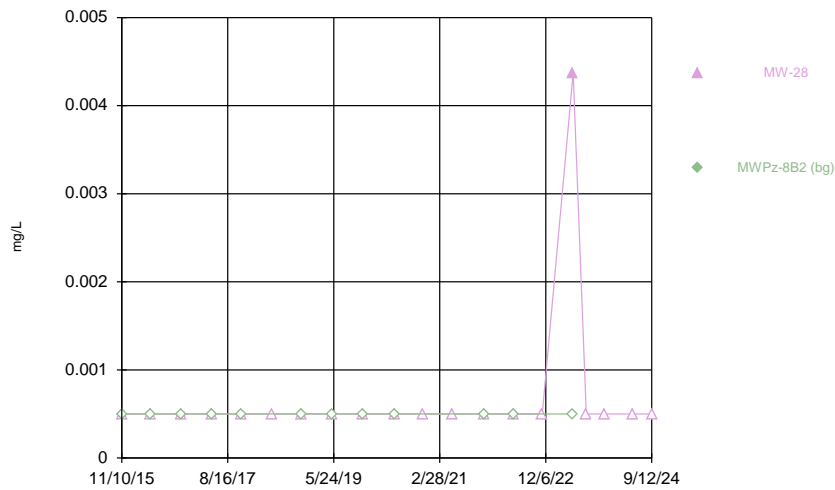
Constituent: Thallium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



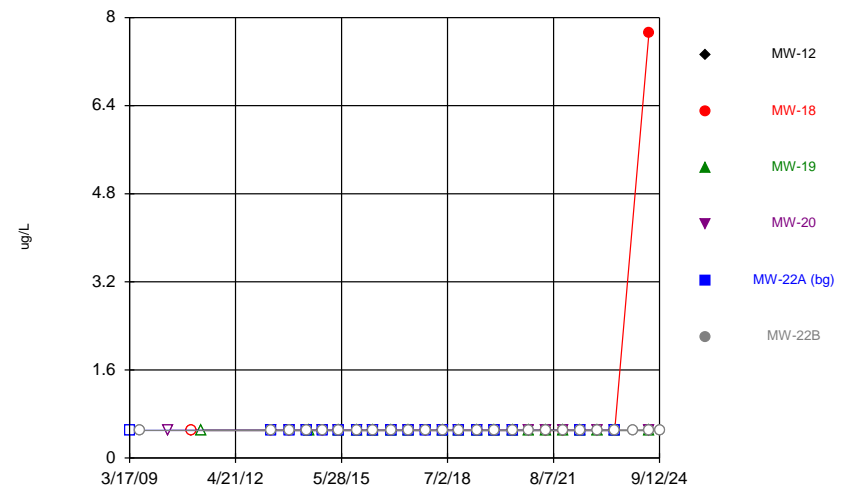
Constituent: Thallium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



Constituent: Thallium Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

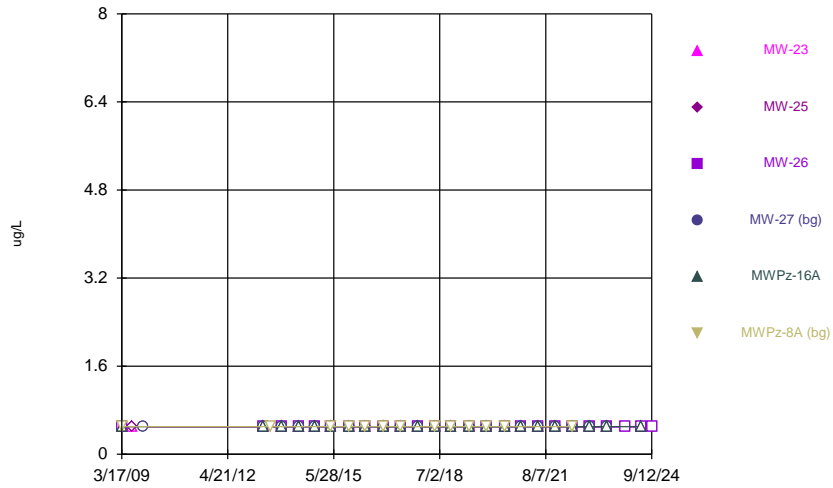
### Time Series



Constituent: Toluene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

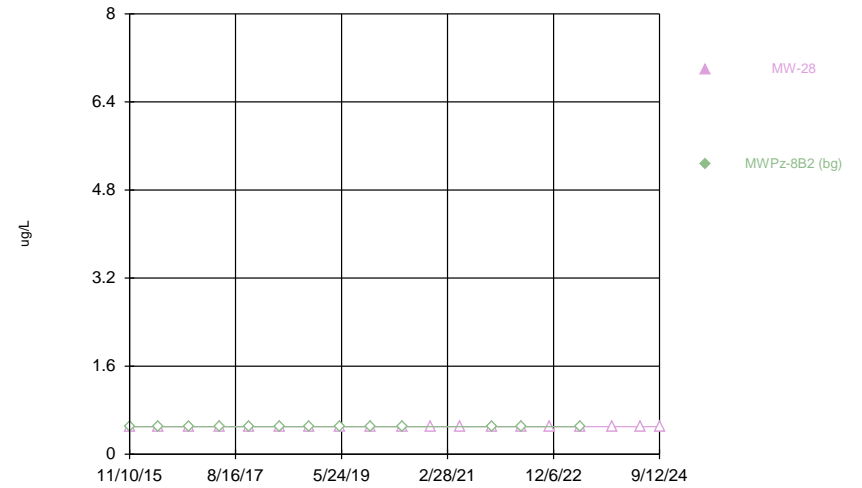


Time Series



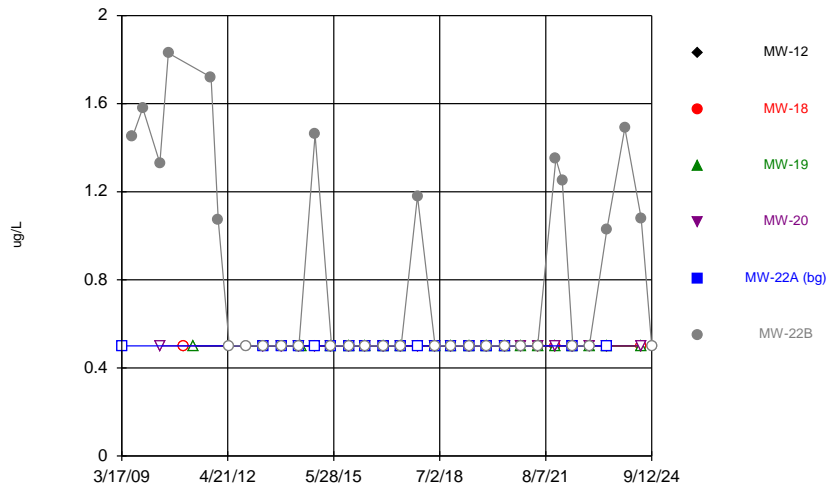
Constituent: Toluene Analysis Run 1/28/2025 5:52 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



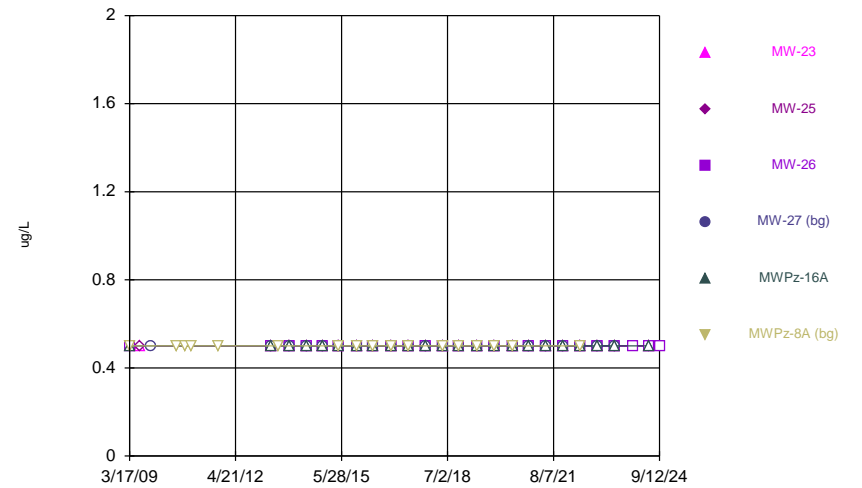
Constituent: Toluene Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



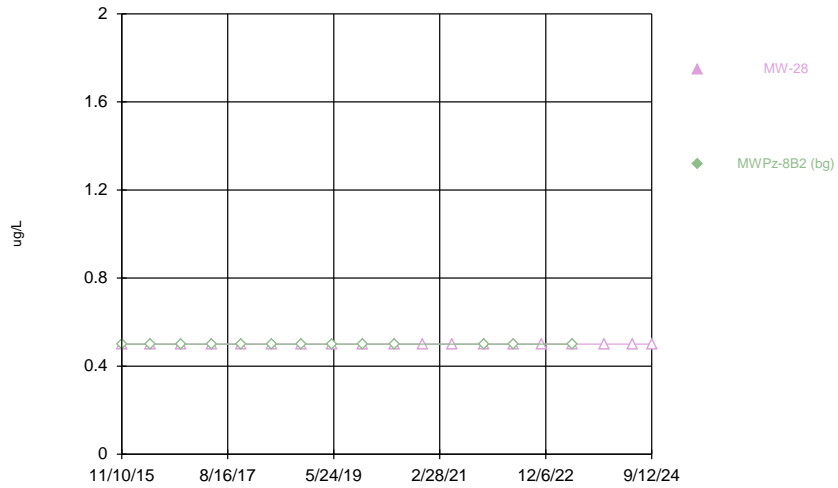
Constituent: trans-1,2-Dichloroethene Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



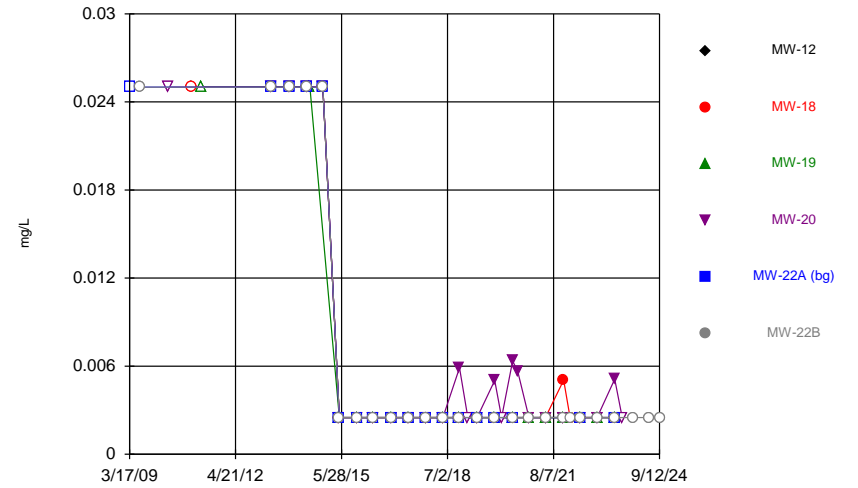
Constituent: trans-1,2-Dichloroethene Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



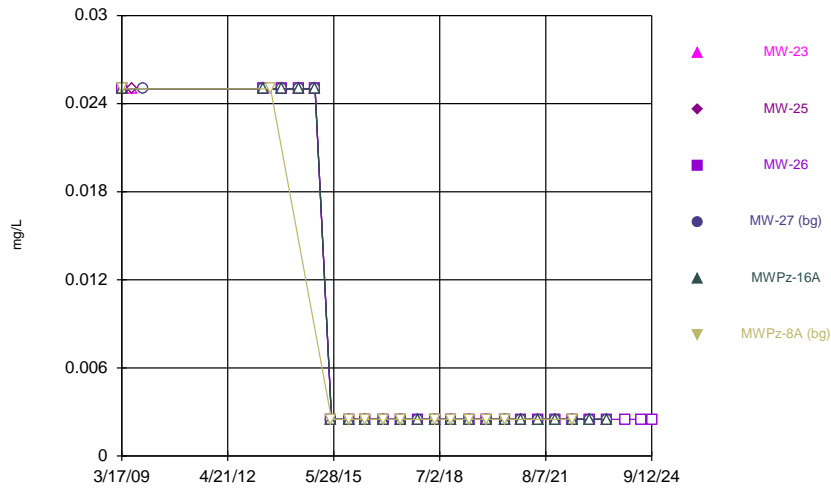
Constituent: trans-1,2-Dichloroethene Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



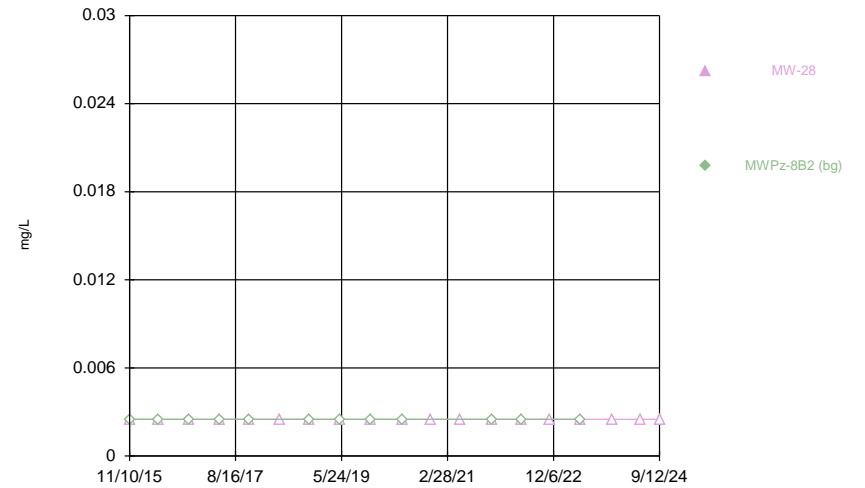
Constituent: Vanadium Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



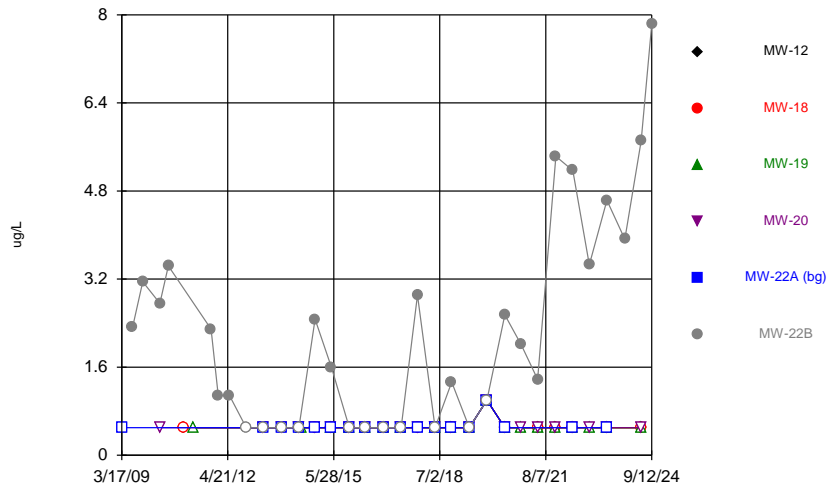
Constituent: Vanadium Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



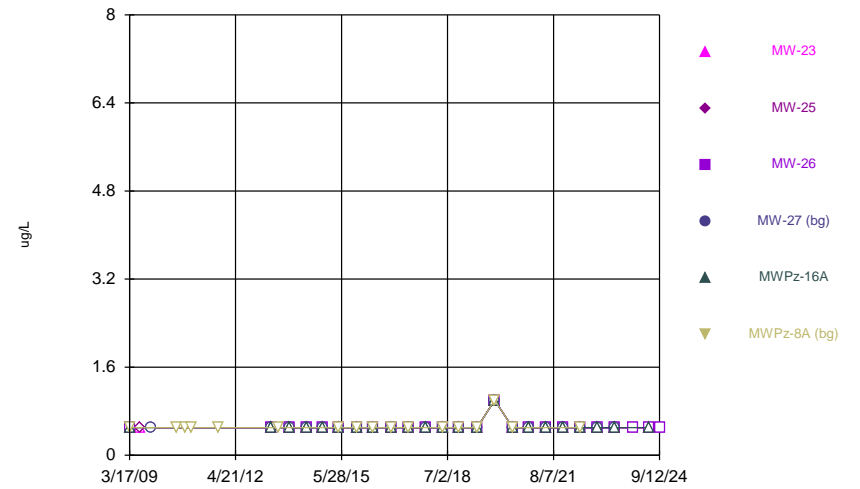
Constituent: Vanadium Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



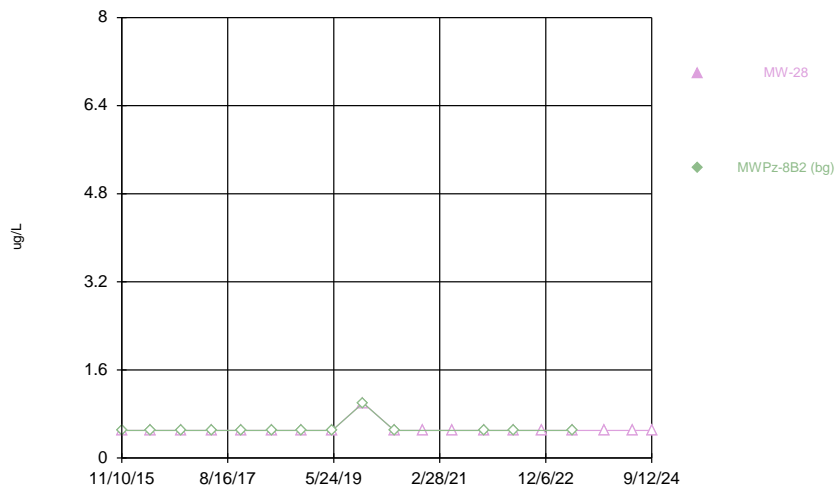
Constituent: Vinyl Chloride Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



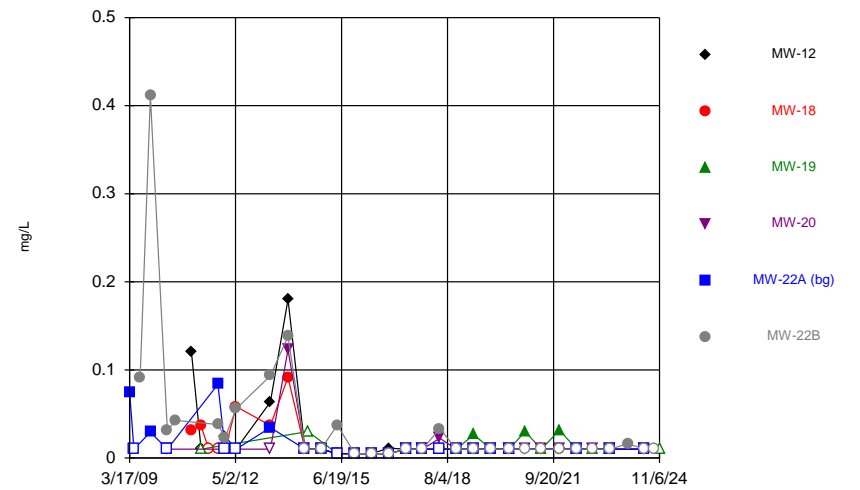
Constituent: Vinyl Chloride Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



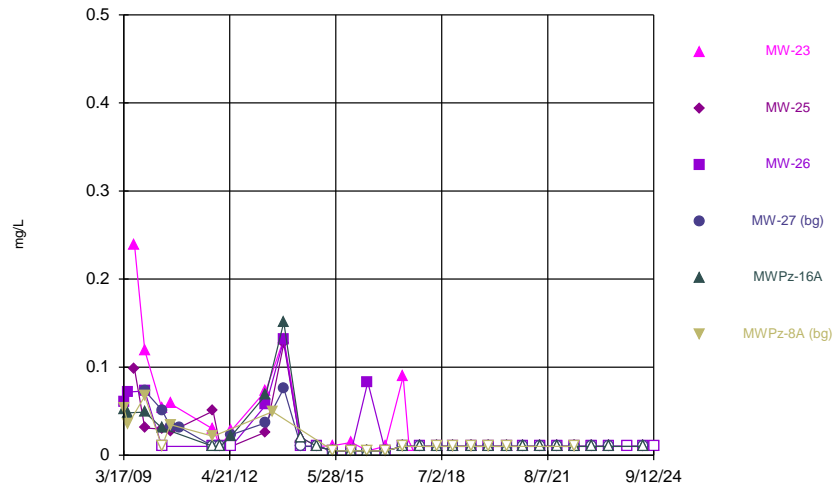
Constituent: Vinyl Chloride Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Time Series



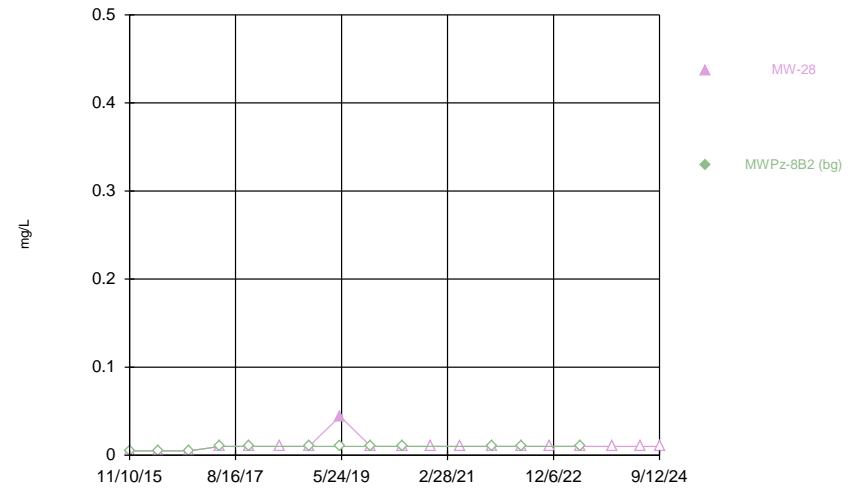
Constituent: Zinc Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



Constituent: Zinc Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Time Series



Constituent: Zinc Analysis Run 1/28/2025 5:53 PM View: 2024AWQR-Time\_Series  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

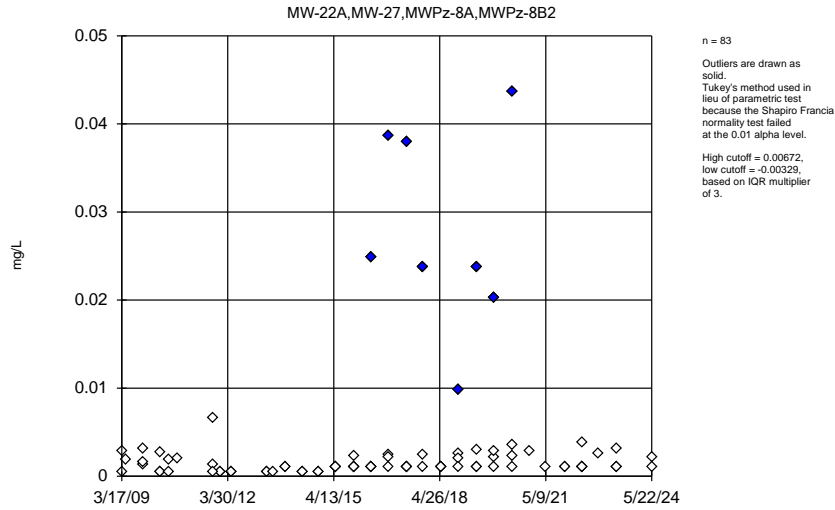
## **Outliers Summary Table and Graphs**

# BG Outlier Analysis

Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas Printed 1/29/2025, 11:18 AM

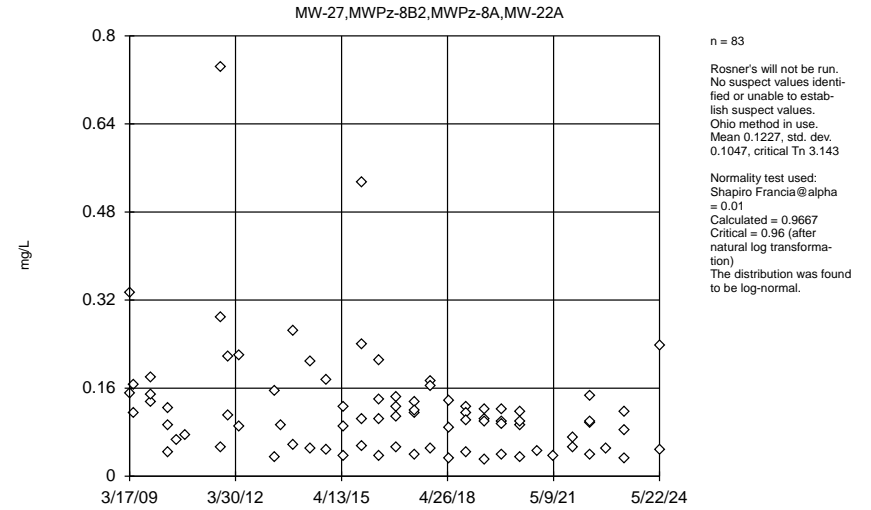
| <u>Constituent</u>    | <u>Well</u>                 | <u>Outlier</u> | <u>Value(s)</u>  | <u>Date(s)</u>           | <u>Method</u>      | <u>Alpha</u> | <u>N</u>  | <u>Mean</u>      | <u>Std. Dev.</u> | <u>Distribution</u> | <u>Normality Test</u> |
|-----------------------|-----------------------------|----------------|--|--------------------------|--------------------|--------------|-----------|------------------|------------------|---------------------|-----------------------|
| <b>Arsenic (mg/L)</b> | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.0249,0.0386,0.0379,0.0238,0.0238,0.00975,0.0203</b> | <b>n/a w/combined bg</b> | <b>NP (nrm)/OH</b> | <b>NaN</b>   | <b>83</b> | <b>0.003988</b>  | <b>0.008558</b>  | <b>unknown</b>      | <b>ShapiroFrancia</b> |
| Barium (mg/L)         | MW-27,MWPz-8B2,MW...        | No             | n/a  | n/a w/combined bg        | EPA/OH             | 0.05         | 83        | 0.1227           | 0.1047           | ln(x)               | ShapiroFrancia        |
| Cadmium (mg/L)        | MW-22A,MW-27,MWPz...        | No             | n/a  | n/a w/combined bg        | NP (nrm)/OH        | NaN          | 83        | 0.0003772        | 0.0005264        | unknown             | ShapiroFrancia        |
| <b>Cobalt (mg/L)</b>  | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.01,0.01,0.0035,0.0035,0.0035,0.0035,0.0035,0.00</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>67</b> | <b>0.001278</b>  | <b>0.002219</b>  | <b>n/a</b>          | <b>n/a</b>            |
| <b>Lead (mg/L)</b>    | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.00802,0.00754,0.002,0.002,0.002,0.002,0.002,0.0</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>78</b> | <b>0.0009604</b> | <b>0.001356</b>  | <b>n/a</b>          | <b>n/a</b>            |
| <b>Nickel (mg/L)</b>  | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.025,0.025,0.025,0.025,0.025,0.025,0.025,0.025</b>   | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>67</b> | <b>0.007047</b>  | <b>0.008674</b>  | <b>n/a</b>          | <b>n/a</b>            |
| Selenium (mg/L)       | MW-22A,MW-27,MWPz...        | No             | n/a  | n/a w/combined bg        | OH                 | NaN          | 73        | 0.002807         | 0.0011           | n/a                 | n/a                   |
| <b>Zinc (mg/L)</b>    | <b>MW-22A,MW-27,MWPz...</b> | <b>Yes</b>     | <b>0.0836,0.076,0.075,0.0733,0.0671,0.0535,0.0514,0.</b> | <b>n/a w/combined bg</b> | <b>OH</b>          | <b>NaN</b>   | <b>83</b> | <b>0.01681</b>   | <b>0.01822</b>   | <b>n/a</b>          | <b>n/a</b>            |

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



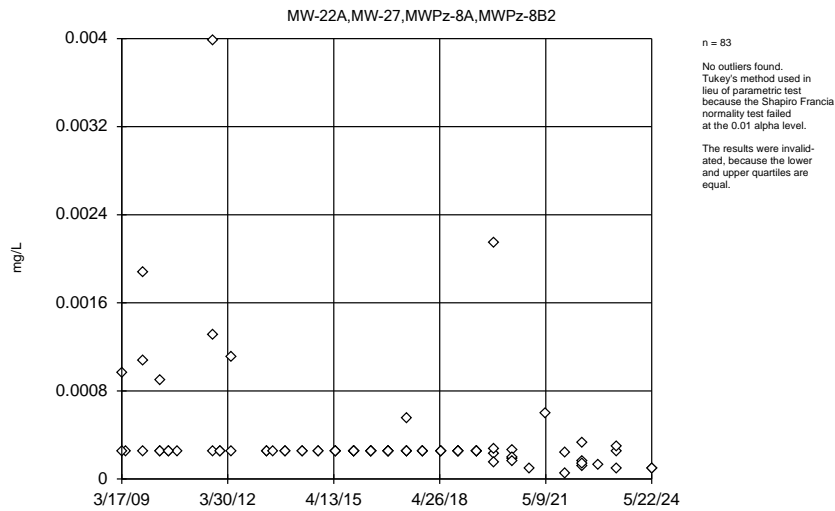
Constituent: Arsenic Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

EPA Screening (suspected outliers for Rosner's Test)



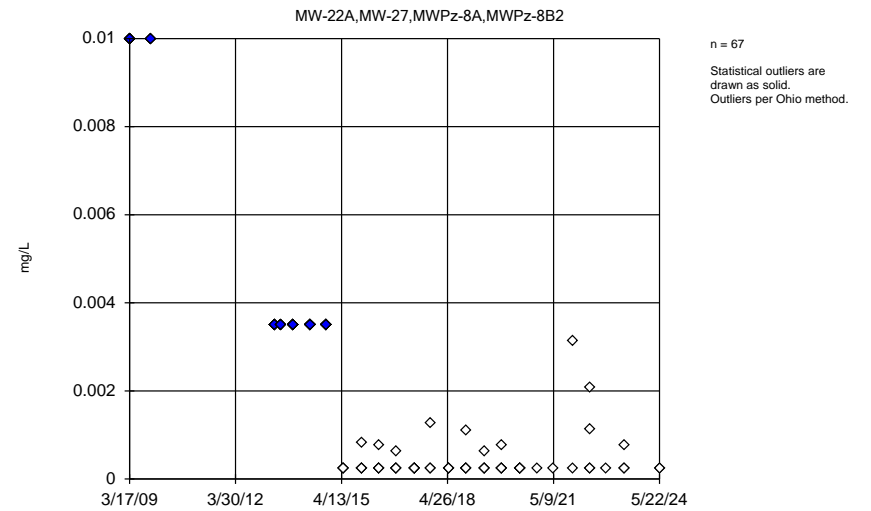
Constituent: Barium Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background



Constituent: Cadmium Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

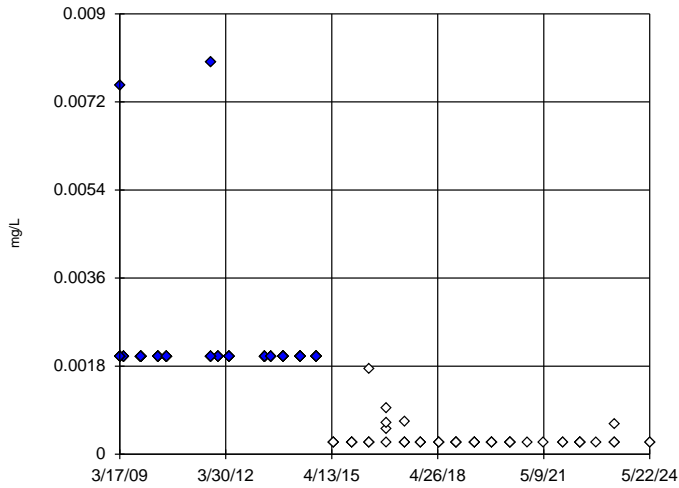
Ohio EPA 0715 Outlier Algorithm, Pooled Background



Constituent: Cobalt Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

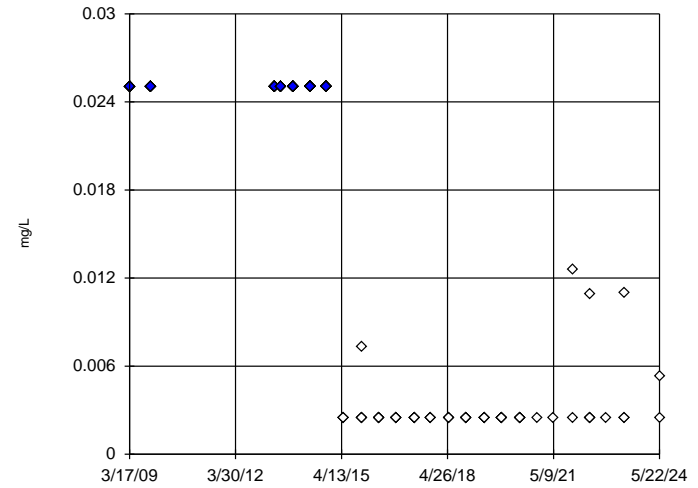


n = 78  
 Statistical outliers are drawn as solid.  
 Outliers per Ohio method.

Constituent: Lead Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

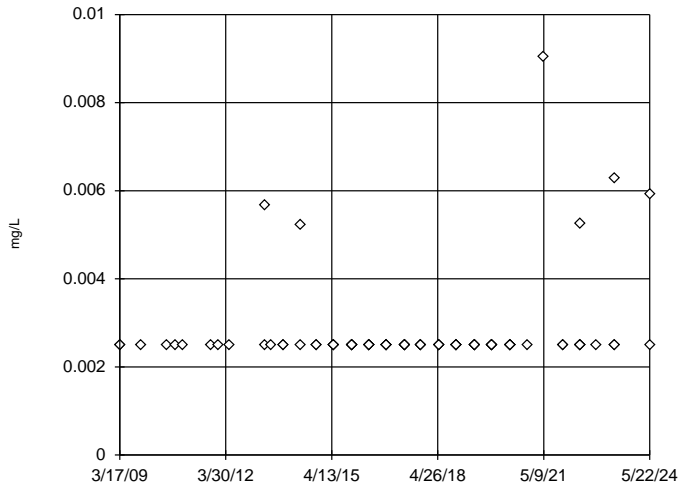


n = 67  
 Statistical outliers are drawn as solid.  
 Outliers per Ohio method.

Constituent: Nickel Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2

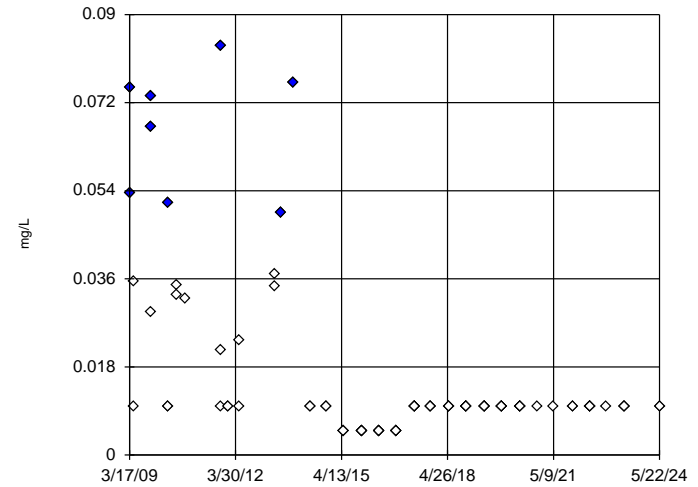


n = 73  
 No statistical outliers.

Constituent: Selenium Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

### Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-22A,MW-27,MWPz-8A,MWPz-8B2



n = 83  
 Statistical outliers are drawn as solid.  
 Outliers per Ohio method.

Constituent: Zinc Analysis Run 1/29/2025 11:14 AM View: 2024AWQR-BG\_Outliers  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas



## Prediction Limits Summary Table and Graphs

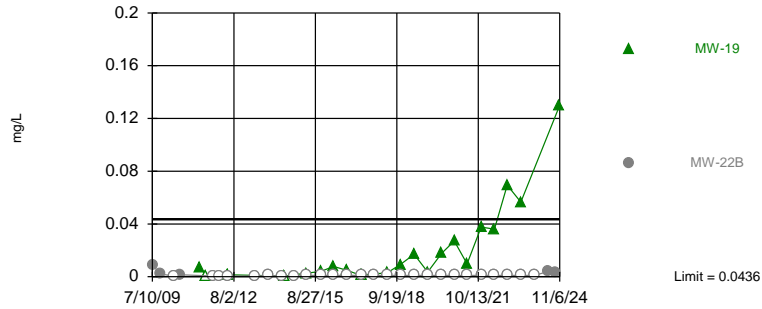
# Prediction Limit

Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas Printed 1/29/2025, 12:01 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>%NDs</u>  | <u>Transform</u> | <u>Alpha</u>     | <u>Method</u>                |
|-----------------------|--------------|-------------------|-------------------|------------------|----------------|-------------|-------------|--------------|------------------|------------------|------------------------------|
| <b>Arsenic (mg/L)</b> | <b>MW-19</b> | <b>0.0436</b>     | <b>n/a</b>        | <b>11/6/2024</b> | <b>0.13</b>    | <b>Yes</b>  | <b>83</b>   | <b>56.63</b> | <b>n/a</b>       | <b>0.0002789</b> | <b>NP Inter (NDs) 1 of 2</b> |
| Arsenic (mg/L)        | MW-22B       | 0.0436            | n/a               | 9/12/2024        | 0.00364        | No          | 83          | 56.63        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| <b>Barium (mg/L)</b>  | <b>MW-19</b> | <b>0.3701</b>     | <b>n/a</b>        | <b>11/6/2024</b> | <b>1.19</b>    | <b>Yes</b>  | <b>83</b>   | <b>0</b>     | <b>ln(x)</b>     | <b>0.0006583</b> | <b>Param Inter 1 of 2</b>    |
| Barium (mg/L)         | MW-22B       | 0.3701            | n/a               | 9/12/2024        | 0.322          | No          | 83          | 0            | ln(x)            | 0.0006583        | Param Inter 1 of 2           |
| Barium (mg/L)         | MW-26        | 0.3701            | n/a               | 9/12/2024        | 0.0953         | No          | 83          | 0            | ln(x)            | 0.0006583        | Param Inter 1 of 2           |
| Barium (mg/L)         | MW-28        | 0.3701            | n/a               | 9/12/2024        | 0.047          | No          | 83          | 0            | ln(x)            | 0.0006583        | Param Inter 1 of 2           |
| Cadmium (mg/L)        | MW-19        | 0.00398           | n/a               | 11/6/2024        | 0.000405       | No          | 83          | 68.67        | n/a              | 0.0002789        | NP Inter (NDs) 1 of 2        |
| Cobalt (mg/L)         | MW-19        | 0.01              | n/a               | 11/6/2024        | 0.00441        | No          | 67          | 83.58        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| Cobalt (mg/L)         | MW-22B       | 0.01              | n/a               | 9/12/2024        | 0.00248        | No          | 67          | 83.58        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |
| <b>Nickel (mg/L)</b>  | <b>MW-19</b> | <b>0.025</b>      | <b>n/a</b>        | <b>11/6/2024</b> | <b>0.0311</b>  | <b>Yes</b>  | <b>67</b>   | <b>92.54</b> | <b>n/a</b>       | <b>0.0004243</b> | <b>NP Inter (NDs) 1 of 2</b> |
| Nickel (mg/L)         | MW-22B       | 0.025             | n/a               | 9/12/2024        | 0.00473        | No          | 67          | 92.54        | n/a              | 0.0004243        | NP Inter (NDs) 1 of 2        |

Exceeds Limit: MW-19

Prediction Limit  
Interwell Non-parametric

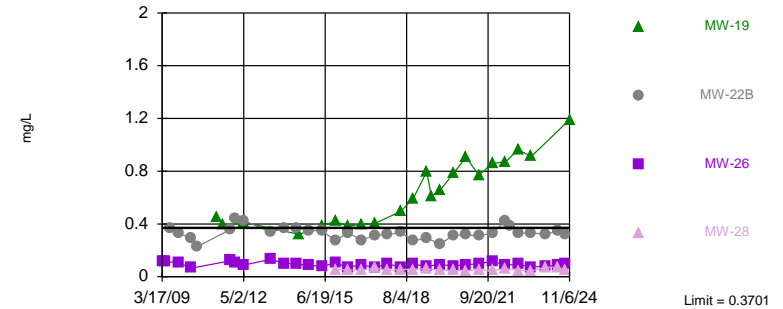


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 56.63% NDs. Annual per-constituent alpha = 0.005563. Individual comparison alpha = 0.0002789 (1 of 2). Comparing 2 points to limit. Assumes 8 future values.

Constituent: Arsenic Analysis Run 1/29/2025 11:59 AM View: 2024AWQR-DM\_AM\_CA\_Interwell\_PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Exceeds Limit: MW-19

Prediction Limit  
Interwell Parametric

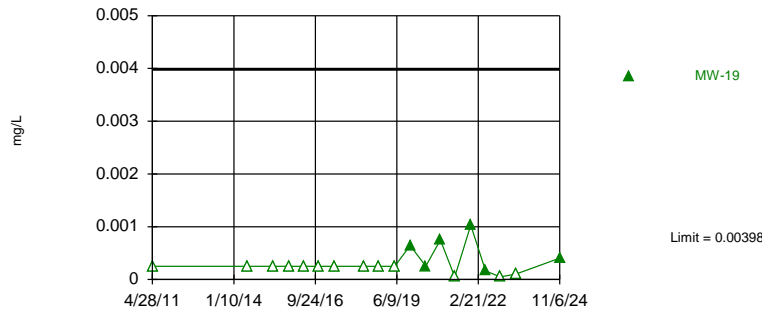


Background Data Summary (based on natural log transformation): Mean=-2.332, Std. Dev.=0.6645, n=83. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9667, critical = 0.96. Kappa = 2.013 (c=8, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.006563. Individual comparison alpha = 0.0006583. Comparing 4 points to limit. Assumes 6 future values.

Constituent: Barium Analysis Run 1/29/2025 11:59 AM View: 2024AWQR-DM\_AM\_CA\_Interwell\_PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Within Limit

Prediction Limit  
Interwell Non-parametric

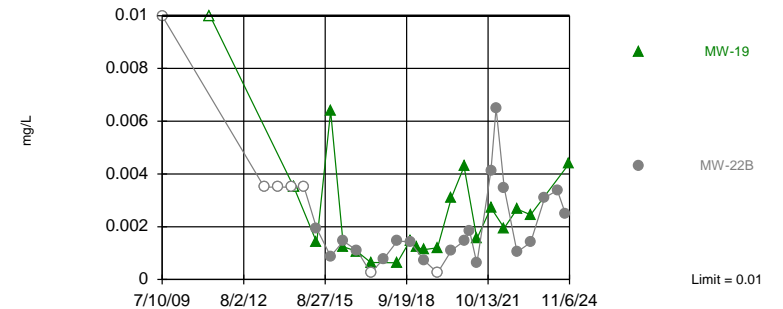


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 68.67% NDs. Annual per-constituent alpha = 0.005563. Individual comparison alpha = 0.0002789 (1 of 2). Assumes 9 future values.

Constituent: Cadmium Analysis Run 1/29/2025 11:59 AM View: 2024AWQR-DM\_AM\_CA\_Interwell\_PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Within Limit

Prediction Limit  
Interwell Non-parametric

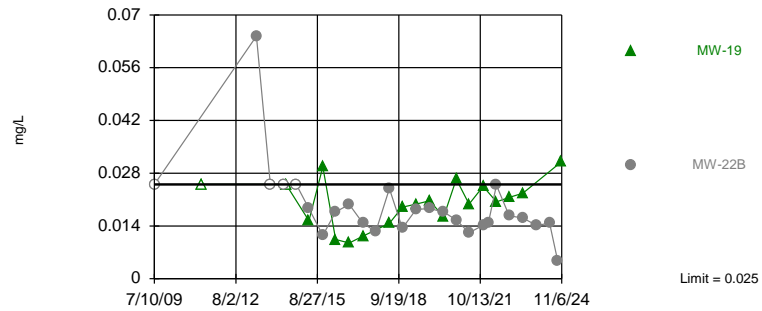


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 67 background values. 83.58% NDs. Annual per-constituent alpha = 0.008453. Individual comparison alpha = 0.0004243 (1 of 2). Comparing 2 points to limit. Assumes 8 future values.

Constituent: Cobalt Analysis Run 1/29/2025 11:59 AM View: 2024AWQR-DM\_AM\_CA\_Interwell\_PL  
Kossuth County SLF Client: SCS Engineers Data: Kossuth County HMSP Sanitas

Exceeds Limit: MW-19

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 67 background values. 92.54% NDs. Annual per-constituent alpha = 0.008453. Individual comparison alpha = 0.0004243 (1 of 2). Comparing 2 points to limit. Assumes 8 future values.

## **Mann-Kendall Trend Test Summary Table and Graphs**

# Trend Test

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-2024AWQR-AM    Printed 1/29/2025, 2:06 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> |
|-------------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|--------------|---------------|
| 1,1-Dichloroethane (ug/L)     | MW-19       | 0.2948       | 16           | 21              | No          | 8        | 0           | 0.01         | NP            |
| 1,1-Dichloroethane (ug/L)     | MWPz-16A    | 0.06806      | 8            | 21              | No          | 8        | 0           | 0.01         | NP            |
| 4,4'-DDD (ug/L)               | MW-19       | 0.001355     | 3            | 12              | No          | 5        | 80          | 0.01         | NP            |
| Acetone (ug/L)                | MW-18       | 2.5          | 18           | 21              | No          | 8        | 62.5        | 0.01         | NP            |
| Acetone (ug/L)                | MW-19       | 0            | -4           | -21             | No          | 8        | 50          | 0.01         | NP            |
| Acetone (ug/L)                | MW-22B      | 0            | 5            | 21              | No          | 8        | 75          | 0.01         | NP            |
| Arsenic (mg/L)                | MW-18       | 0            | 4            | 21              | No          | 8        | 62.5        | 0.01         | NP            |
| Arsenic (mg/L)                | MW-19       | 0.02108      | 20           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Arsenic (mg/L)                | MW-20       | 0            | -1           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Arsenic (mg/L)                | MW-22B      | 0            | 11           | 21              | No          | 8        | 75          | 0.01         | NP            |
| Barium (mg/L)                 | MW-18       | -0.002086    | -2           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MW-19       | 0.07048      | 18           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MW-20       | -0.01106     | -15          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MW-22B      | -0.006236    | -11          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MW-23       | -0.003823    | -16          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MW-25       | -0.00703     | -14          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MW-28       | 0.001607     | 2            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Barium (mg/L)                 | MWPz-16A    | -0.0009547   | -2           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Benzene (ug/L)                | MW-19       | 0            | 0            | 21              | No          | 8        | 50          | 0.01         | NP            |
| Benzene (ug/L)                | MW-22B      | 0.6144       | 16           | 21              | No          | 8        | 12.5        | 0.01         | NP            |
| Cadmium (mg/L)                | MW-18       | 0.00001537   | 3            | 21              | No          | 8        | 50          | 0.01         | NP            |
| Cadmium (mg/L)                | MW-19       | -0.0000474   | -3           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Cadmium (mg/L)                | MW-20       | -0.000008374 | -5           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Cadmium (mg/L)                | MW-22B      | -0.0001074   | -9           | -21             | No          | 8        | 25          | 0.01         | NP            |
| Cadmium (mg/L)                | MW-23       | -0.00005786  | -8           | -21             | No          | 8        | 25          | 0.01         | NP            |
| Cadmium (mg/L)                | MW-25       | -0.00006327  | -15          | -21             | No          | 8        | 25          | 0.01         | NP            |
| Cadmium (mg/L)                | MW-28       | -0.000009909 | -9           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Cadmium (mg/L)                | MWPz-16A    | -0.00001154  | -7           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Chromium (mg/L)               | MW-22B      | 0            | 3            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| cis-1,2-Dichloroethene (ug/L) | MW-22B      | 10.69        | 20           | 21              | No          | 8        | 0           | 0.01         | NP            |
| cis-1,2-Dichloroethene (ug/L) | MWPz-16A    | -0.01799     | -4           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Cobalt (mg/L)                 | MW-18       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                 | MW-19       | -0.000009187 | 0            | 21              | No          | 8        | 0           | 0.01         | NP            |
| Cobalt (mg/L)                 | MW-22B      | -0.0005491   | -10          | -21             | No          | 8        | 0           | 0.01         | NP            |
| Cobalt (mg/L)                 | MW-23       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                 | MW-25       | 0            | -1           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                 | MW-28       | 0            | 3            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cobalt (mg/L)                 | MWPz-16A    | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Cyanide (ug/L)                | MW-22B      | 0            | -1           | -8              | No          | 4        | 75          | 0.01         | NP            |
| Lead (mg/L)                   | MW-18       | 0            | 13           | 21              | No          | 8        | 75          | 0.01         | NP            |
| Lead (mg/L)                   | MW-19       | 0            | -7           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Lead (mg/L)                   | MW-22B      | 0            | 1            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Lead (mg/L)                   | MW-23       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Lead (mg/L)                   | MW-25       | 0            | -3           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Lead (mg/L)                   | MW-28       | 0            | 3            | 21              | No          | 8        | 75          | 0.01         | NP            |
| Nickel (mg/L)                 | MW-18       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Nickel (mg/L)                 | MW-19       | 0.002107     | 12           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Nickel (mg/L)                 | MW-22B      | -0.001274    | -8           | -21             | No          | 8        | 0           | 0.01         | NP            |
| Nickel (mg/L)                 | MW-23       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Nickel (mg/L)                 | MWPz-16A    | 0            | 1            | 21              | No          | 8        | 75          | 0.01         | NP            |

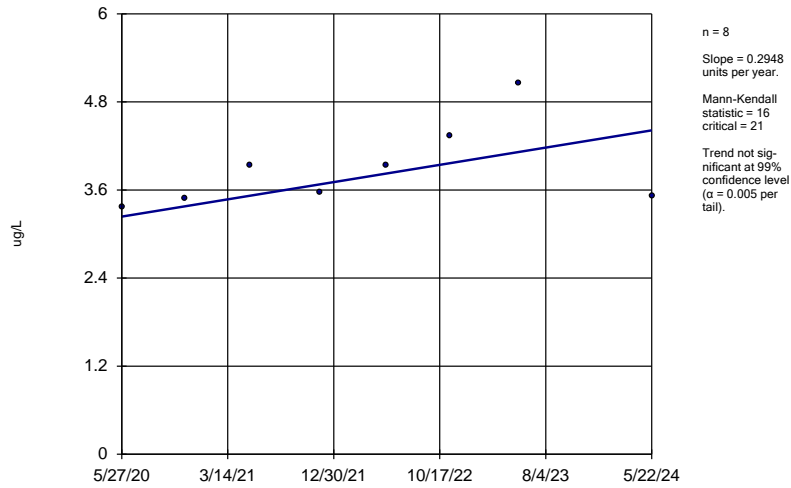
# Trend Test

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-2024AWQR-AM    Printed 1/29/2025, 2:06 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> |
|---------------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|--------------|---------------|
| Selenium (mg/L)                 | MW-18       | -0.0008133   | -12          | -21             | No          | 8        | 12.5        | 0.01         | NP            |
| Selenium (mg/L)                 | MW-20       | 0.001524     | 7            | 21              | No          | 8        | 25          | 0.01         | NP            |
| Selenium (mg/L)                 | MW-25       | 0            | -7           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Selenium (mg/L)                 | MW-28       | 0            | 1            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Silver (mg/L)                   | MW-22B      | 0            | -5           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Silver (mg/L)                   | MW-28       | 0            | -5           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-18       | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-19       | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-22B      | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MW-23       | 0            | 1            | 8               | No          | 4        | 75          | 0.01         | NP            |
| Sulfide (ug/L)                  | MWPz-16A    | -70.48       | -1           | -8              | No          | 4        | 75          | 0.01         | NP            |
| Thallium (mg/L)                 | MW-18       | 0            | 5            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Thallium (mg/L)                 | MW-22B      | 0            | -1           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Thallium (mg/L)                 | MW-28       | 0            | -1           | -21             | No          | 8        | 87.5        | 0.01         | NP            |
| Toluene (ug/L)                  | MW-18       | 0            | 7            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| trans-1,2-Dichloroethene (ug/L) | MW-22B      | -0.09094     | -5           | -21             | No          | 8        | 37.5        | 0.01         | NP            |
| Vanadium (mg/L)                 | MW-18       | 0            | 1            | 21              | No          | 8        | 87.5        | 0.01         | NP            |
| Vanadium (mg/L)                 | MW-20       | 0            | -3           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Vinyl Chloride (ug/L)           | MW-22B      | 1.113        | 12           | 21              | No          | 8        | 0           | 0.01         | NP            |
| Zinc (mg/L)                     | MW-19       | 0            | -5           | -21             | No          | 8        | 75          | 0.01         | NP            |
| Zinc (mg/L)                     | MW-22B      | 0            | 3            | 21              | No          | 8        | 87.5        | 0.01         | NP            |

### Sen's Slope Estimator

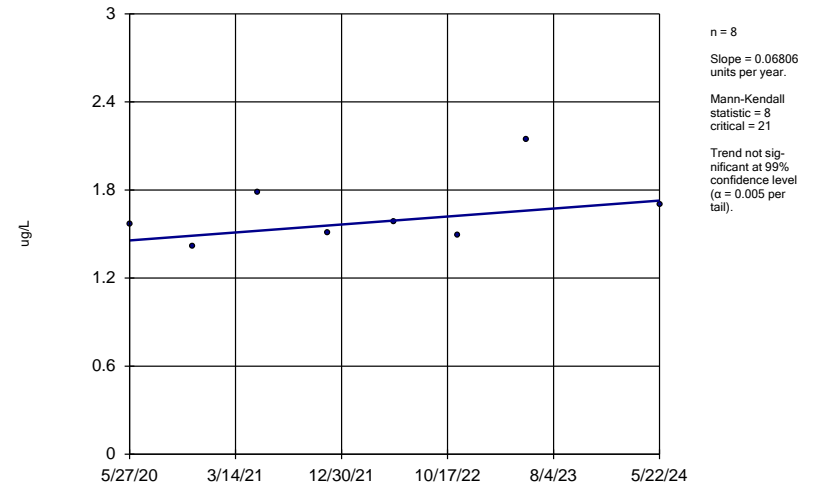
MW-19



Constituent: 1,1-Dichloroethane Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

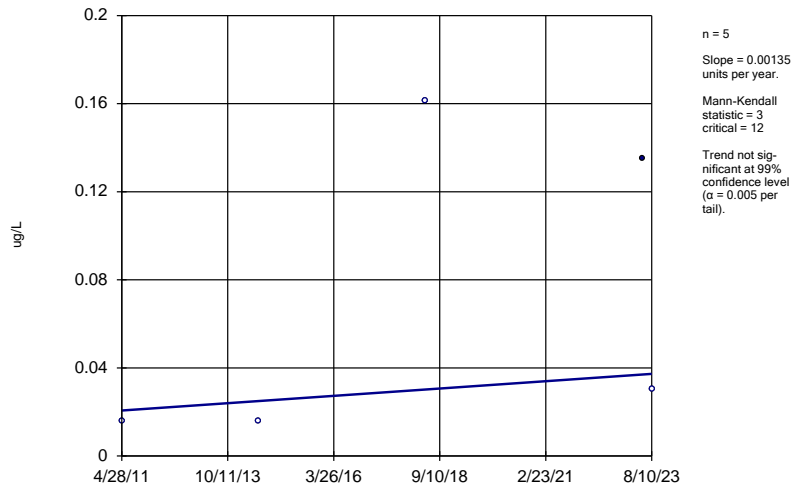
MWPz-16A



Constituent: 1,1-Dichloroethane Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

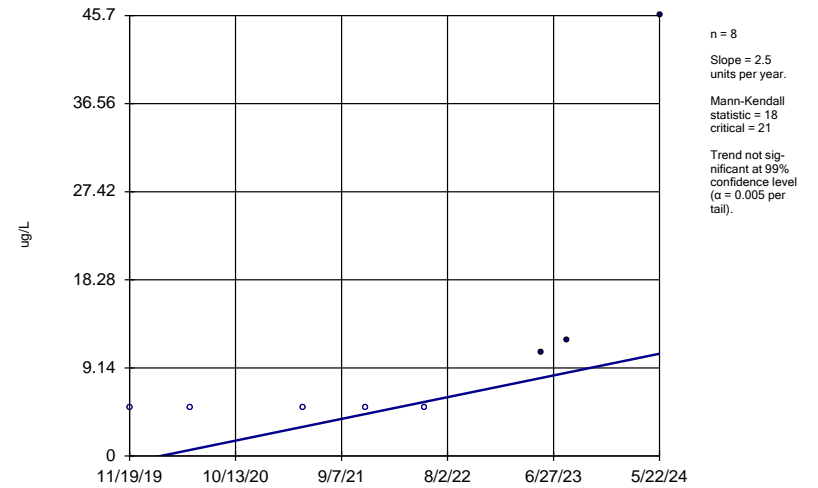
MW-19



Constituent: 4,4'-DDD Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-18

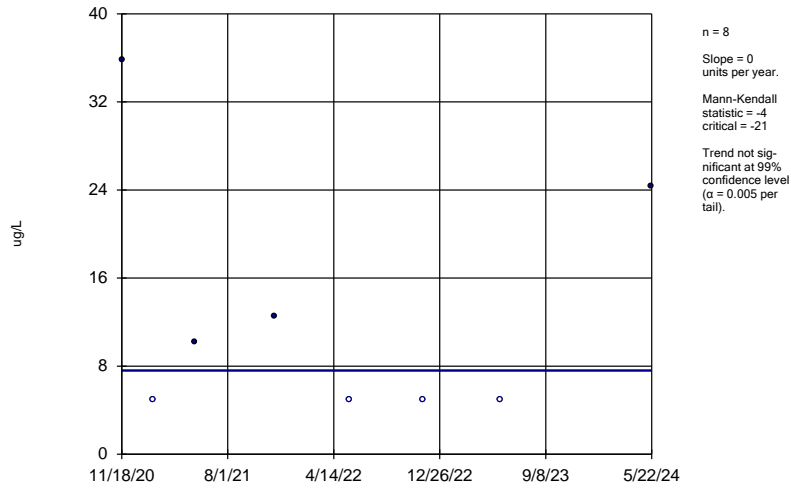


Constituent: Acetone Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM



### Sen's Slope Estimator

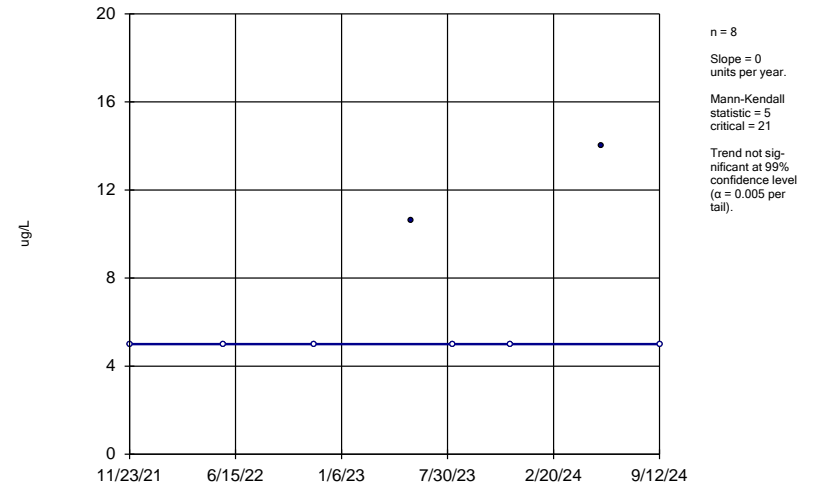
MW-19



Constituent: Acetone Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

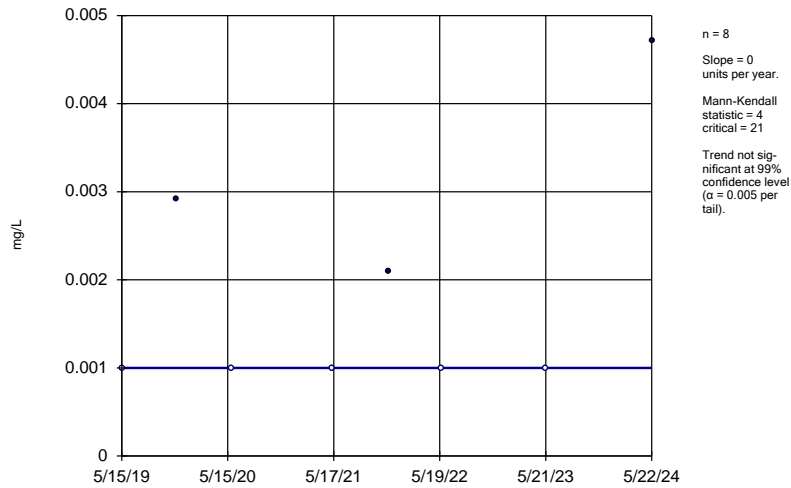
MW-22B



Constituent: Acetone Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

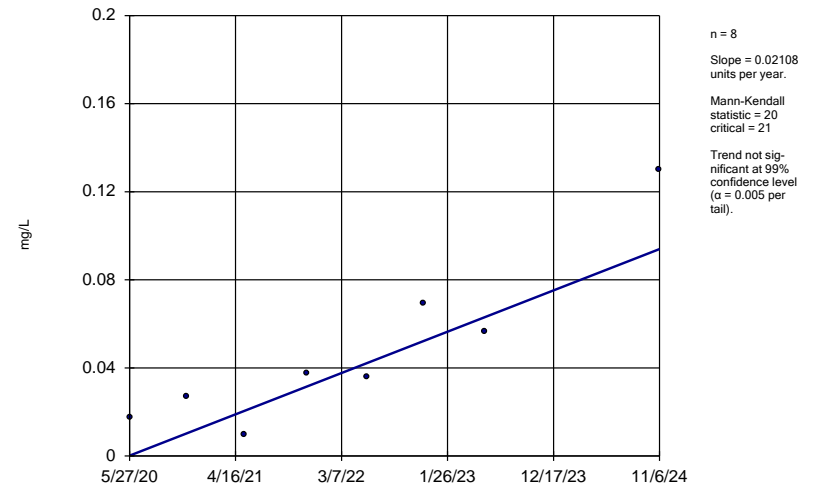
MW-18



Constituent: Arsenic Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

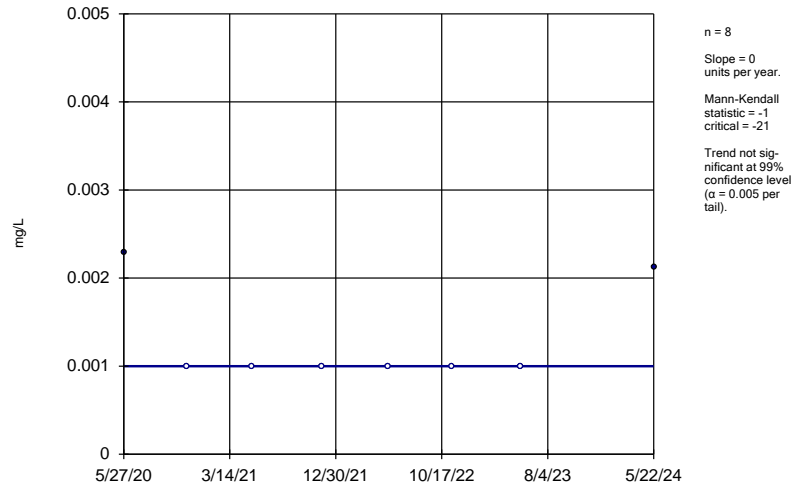
MW-19



Constituent: Arsenic Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

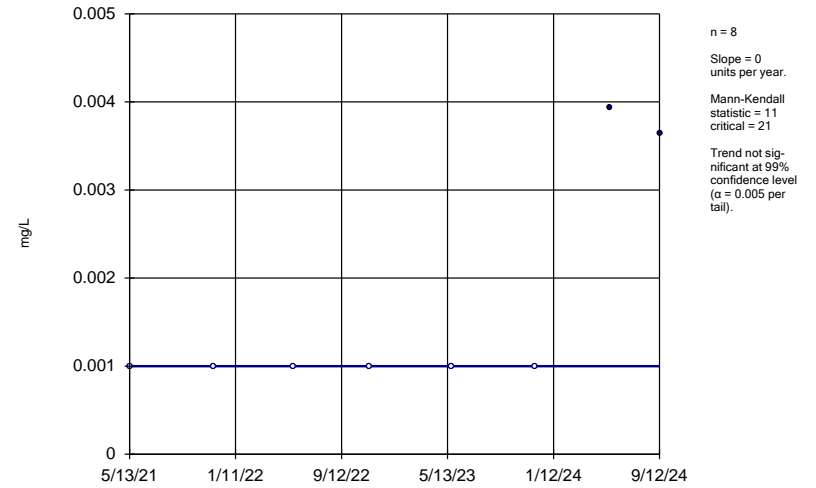
MW-20



Constituent: Arsenic Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

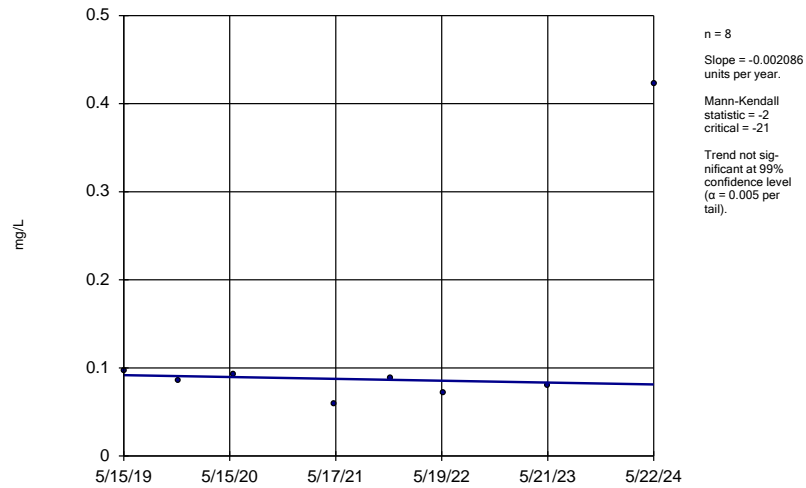
MW-22B



Constituent: Arsenic Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

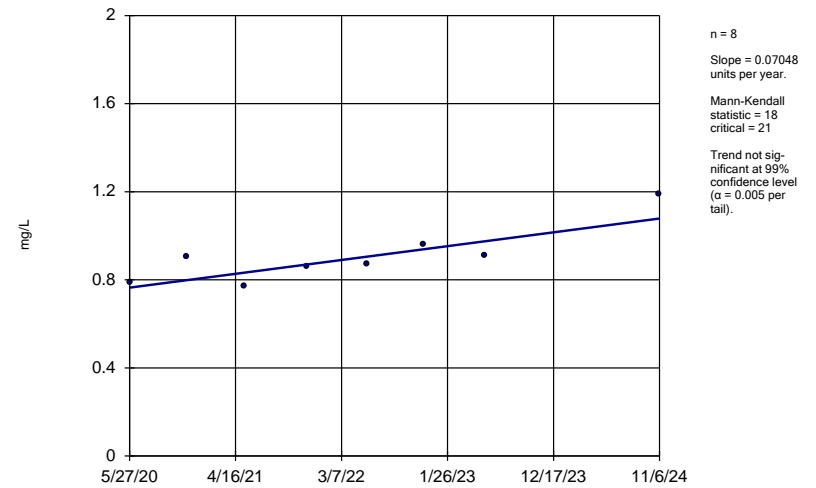
MW-18



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

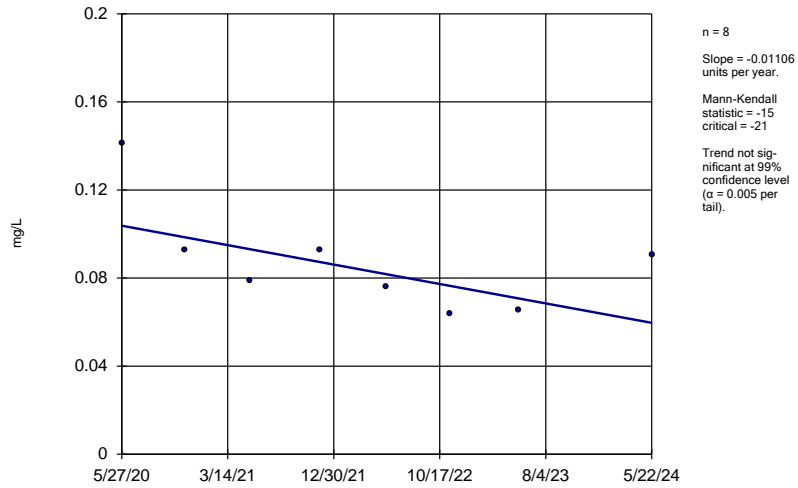
MW-19



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

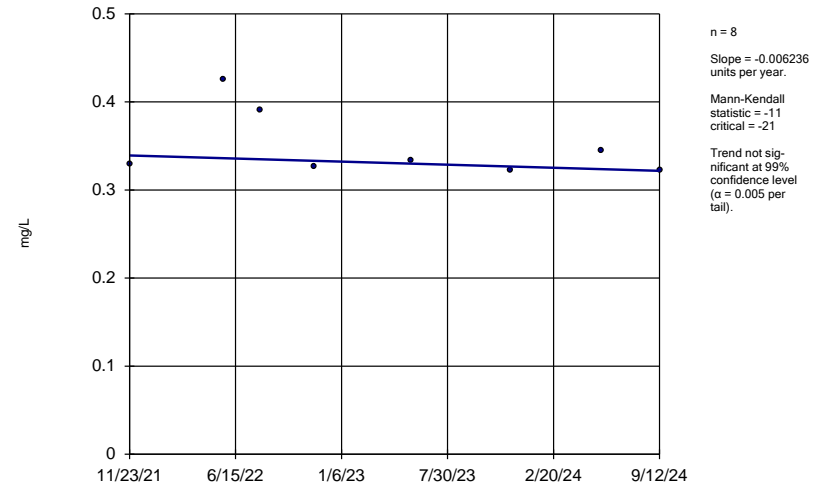
MW-20



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

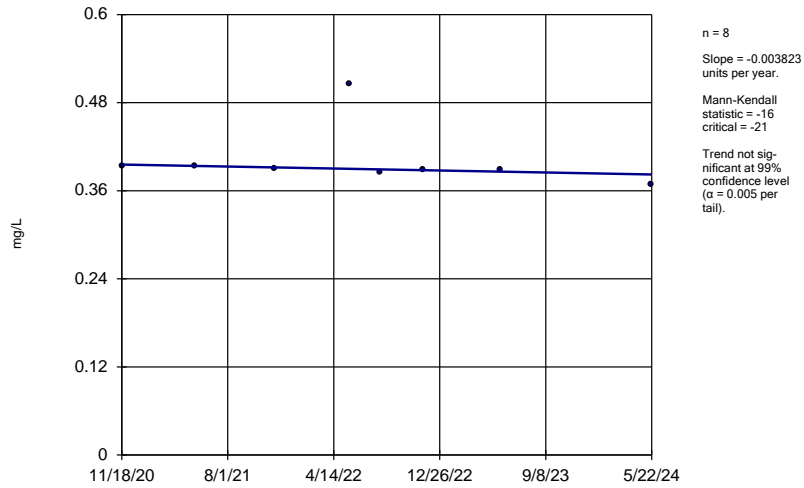
MW-22B



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

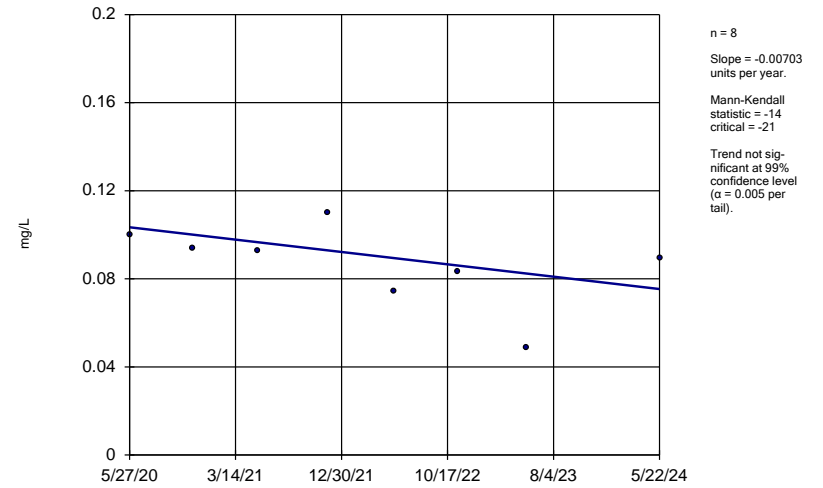
MW-23



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

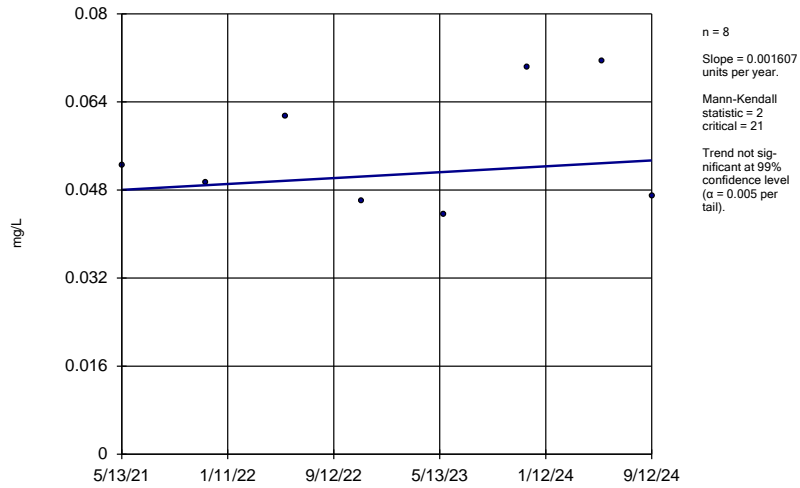
MW-25



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

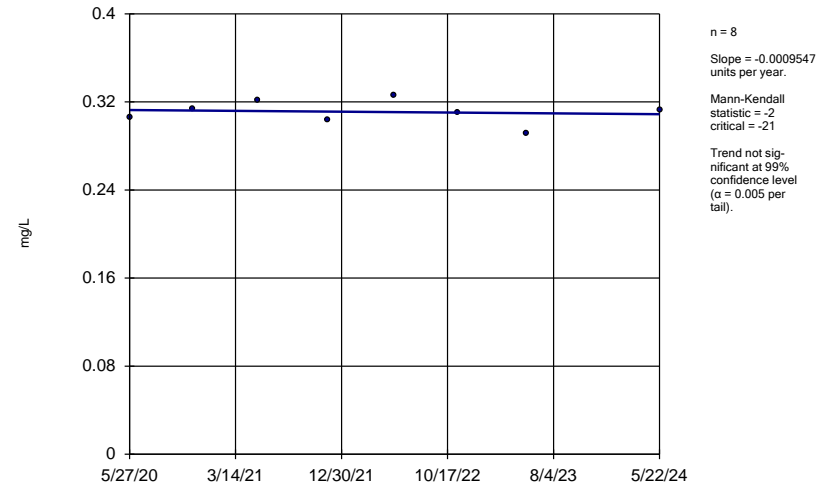
MW-28



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

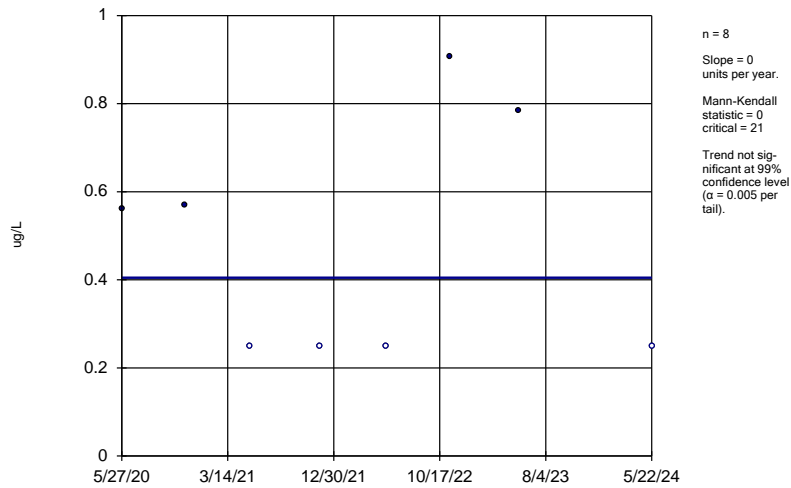
MWPz-16A



Constituent: Barium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

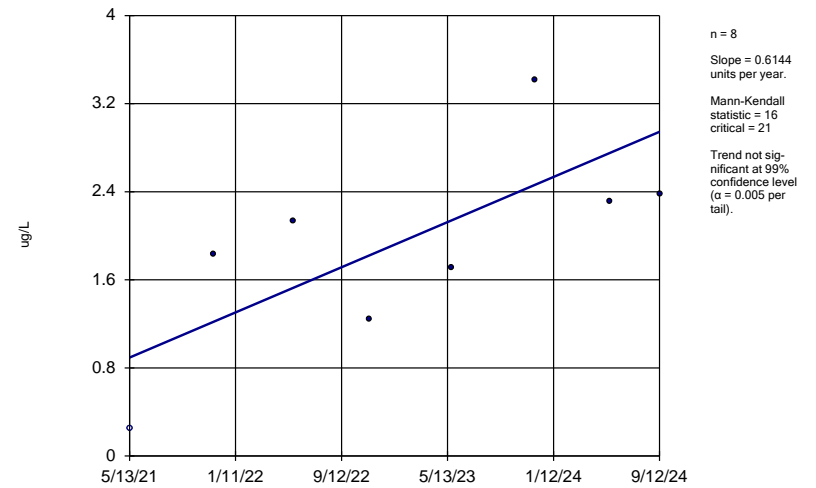
MW-19



Constituent: Benzene Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

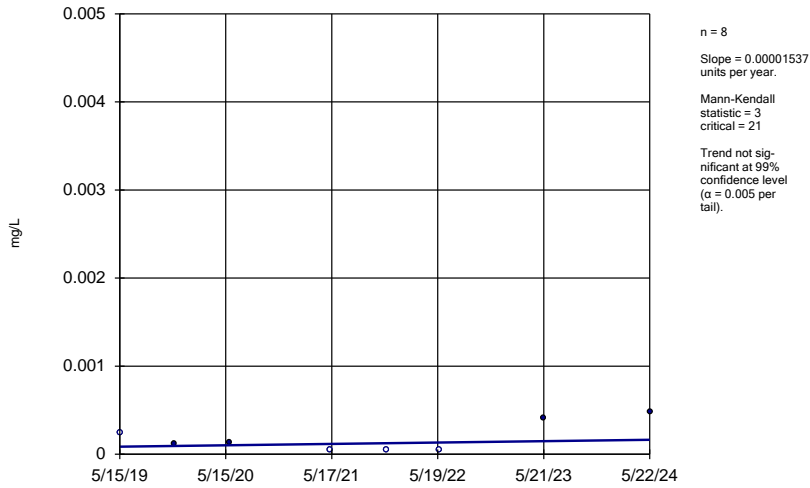
MW-22B



Constituent: Benzene Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

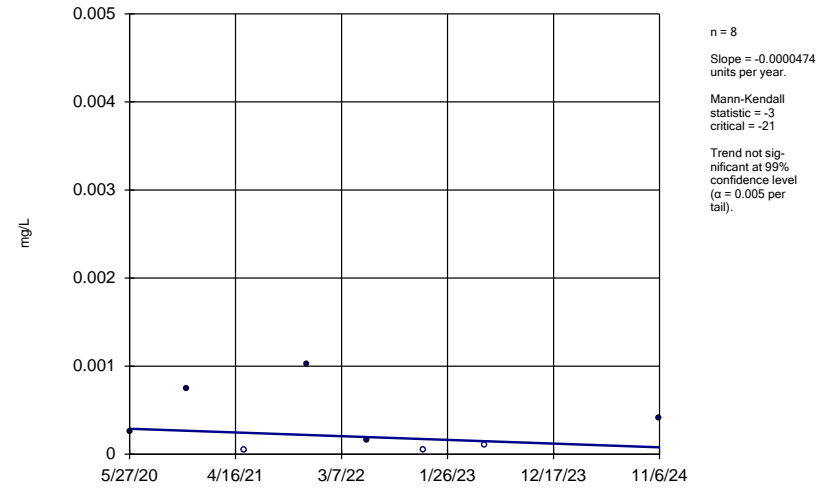
MW-18



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

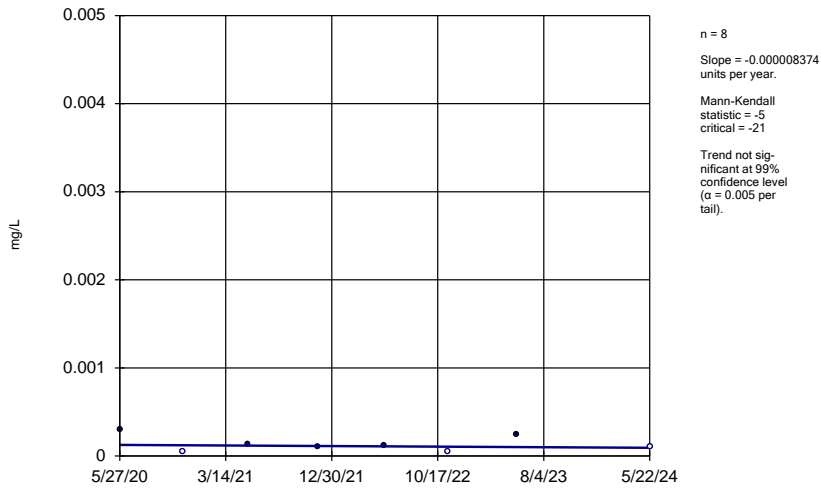
MW-19



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

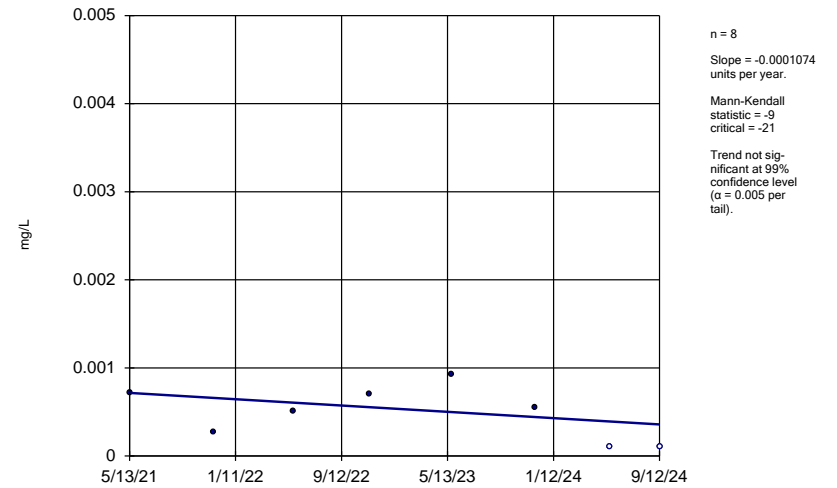
MW-20



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

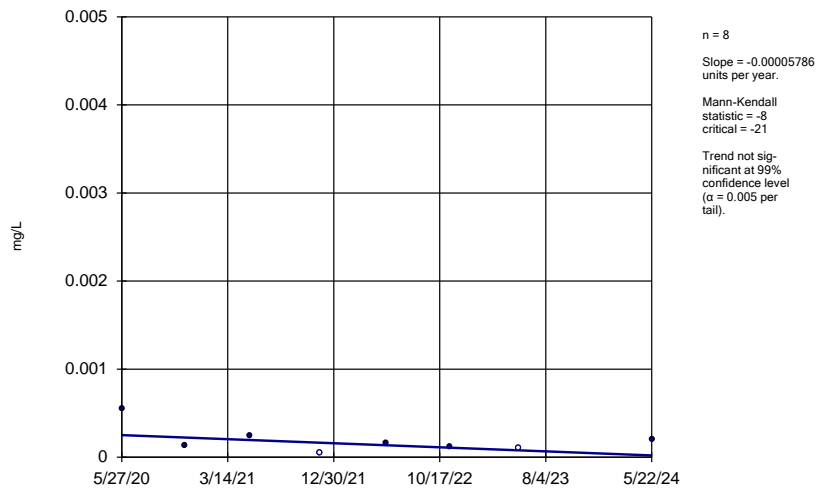
MW-22B



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

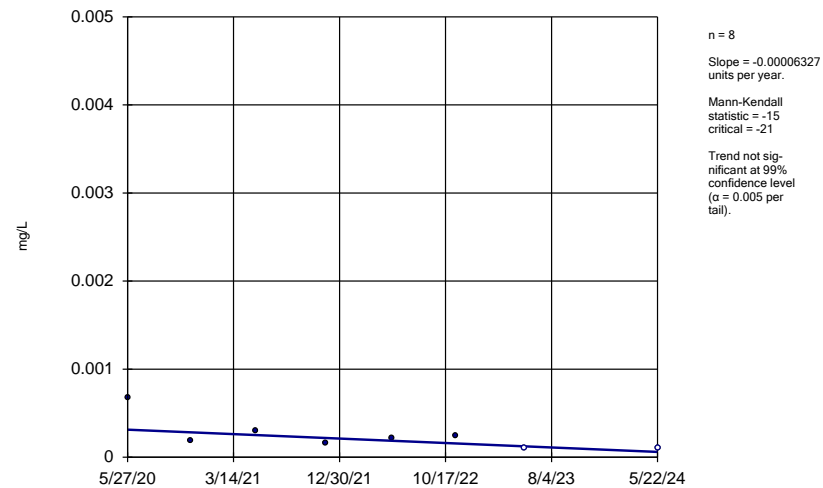
MW-23



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

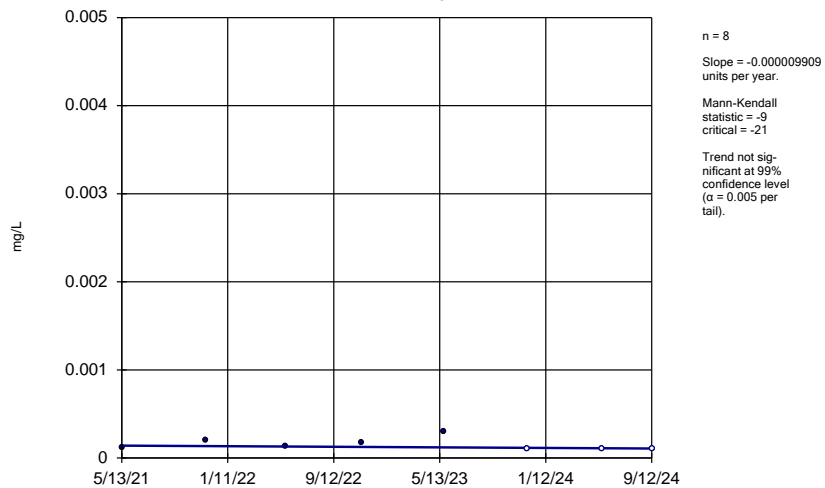
MW-25



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

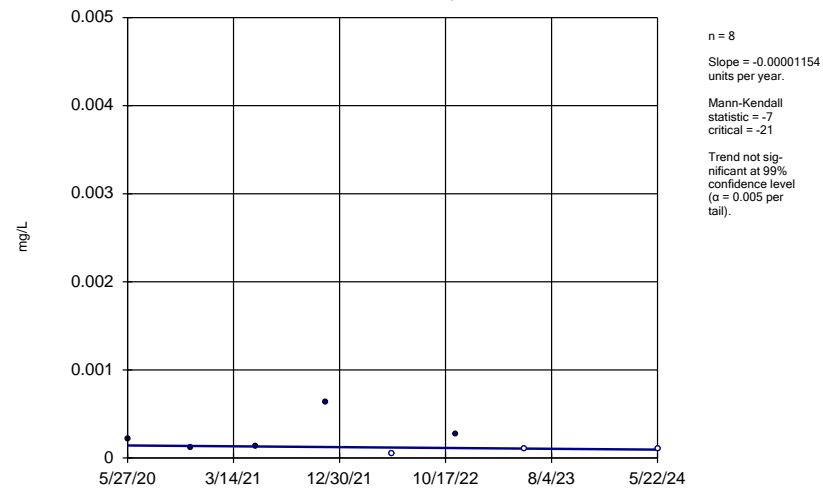
MW-28



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

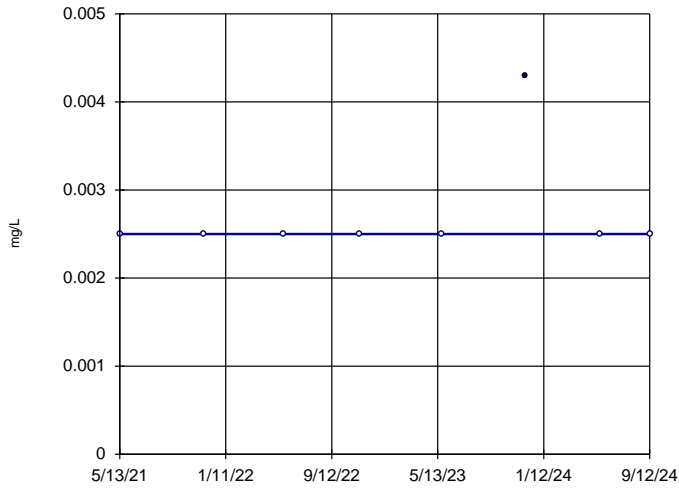
MWPz-16A



Constituent: Cadmium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-22B

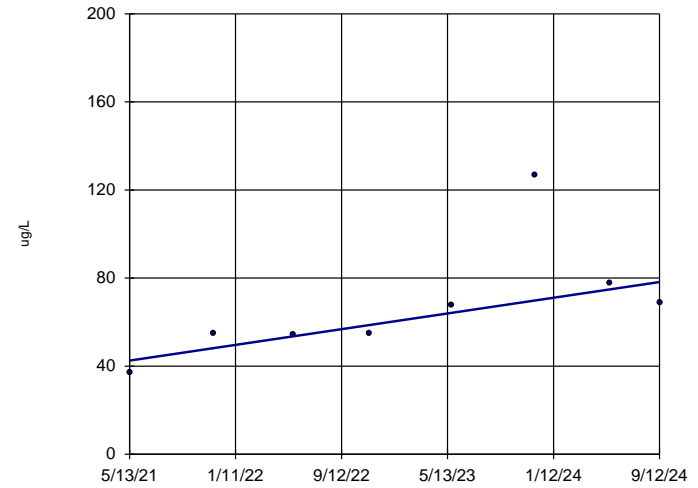


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 3  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-22B

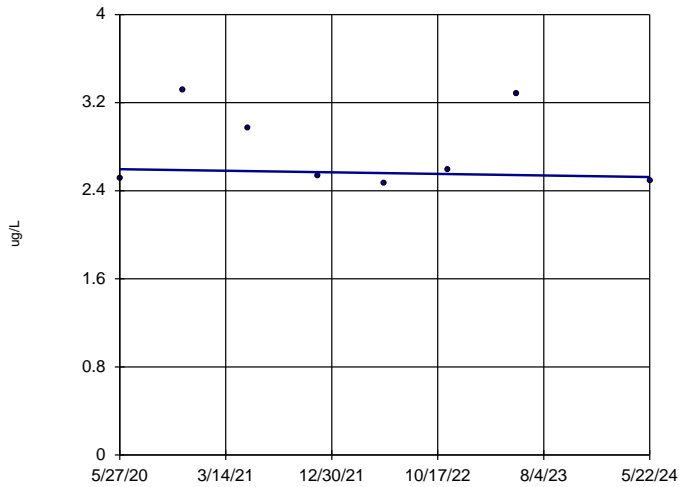


n = 8  
Slope = 10.69  
units per year.  
Mann-Kendall  
statistic = 20  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MWPz-16A

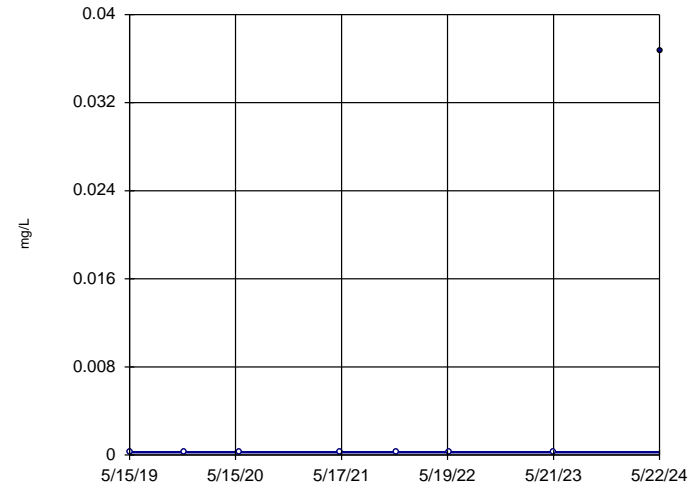


n = 8  
Slope = -0.01799  
units per year.  
Mann-Kendall  
statistic = -4  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-18

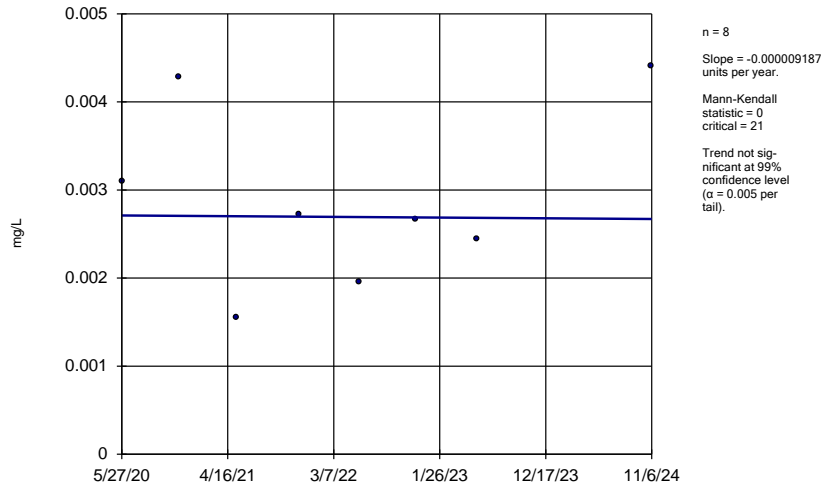


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 7  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

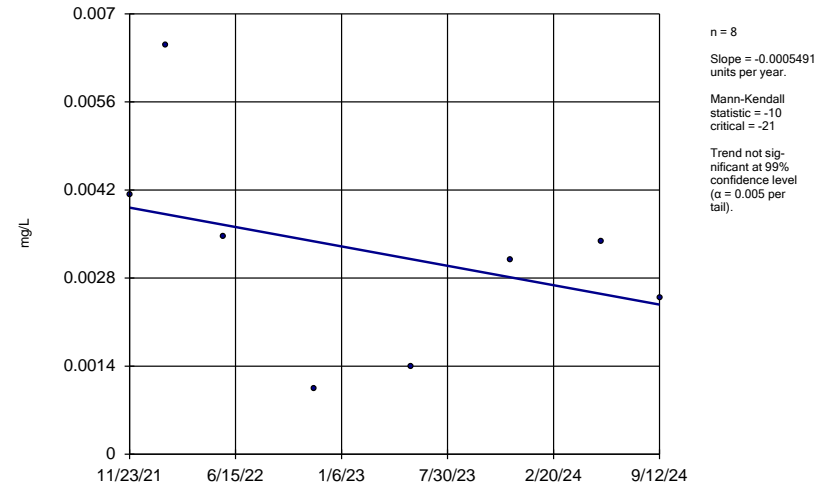
MW-19



Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

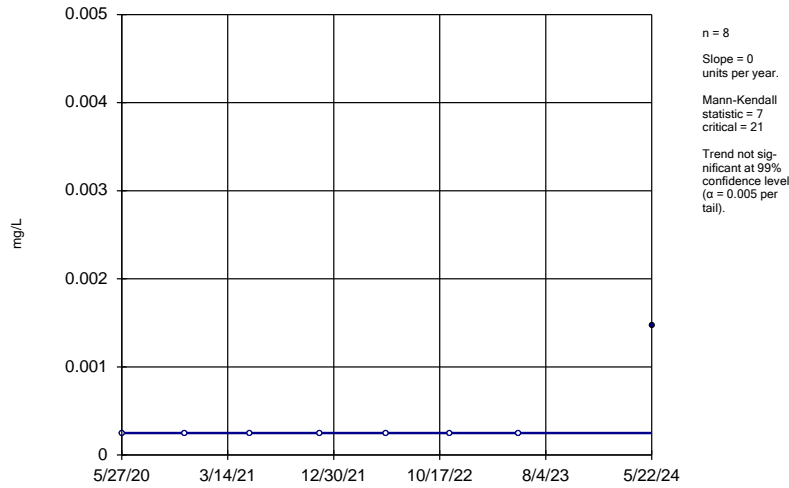
MW-22B



Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

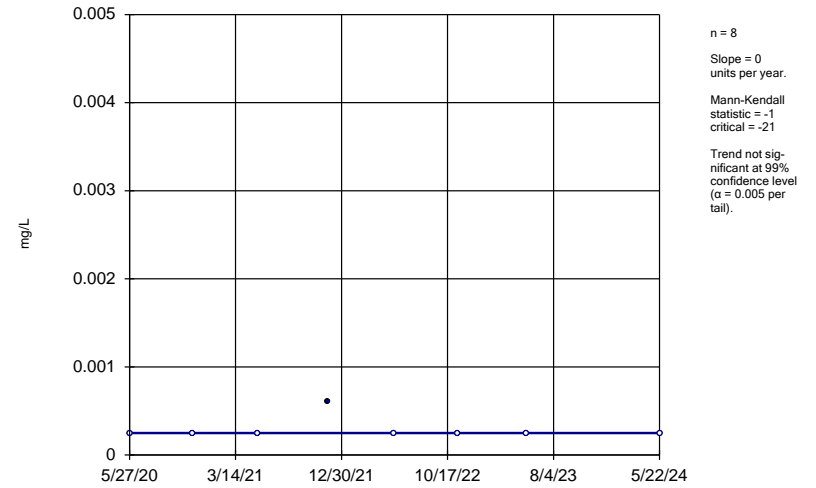
MW-23



Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-25

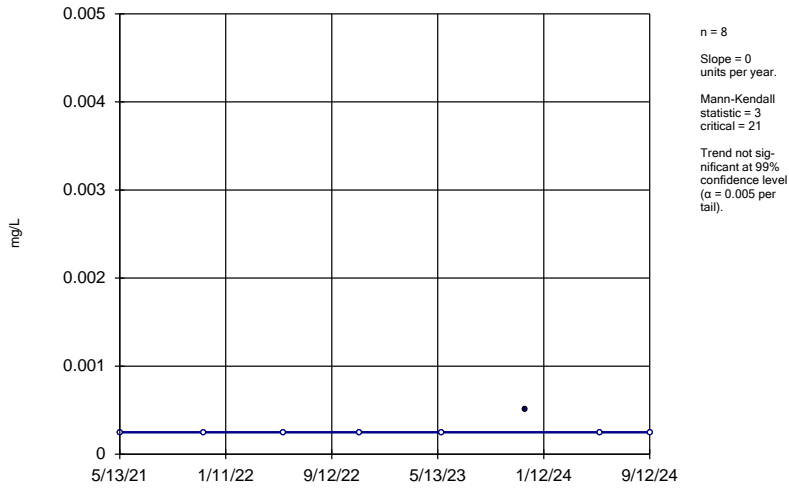


Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM



### Sen's Slope Estimator

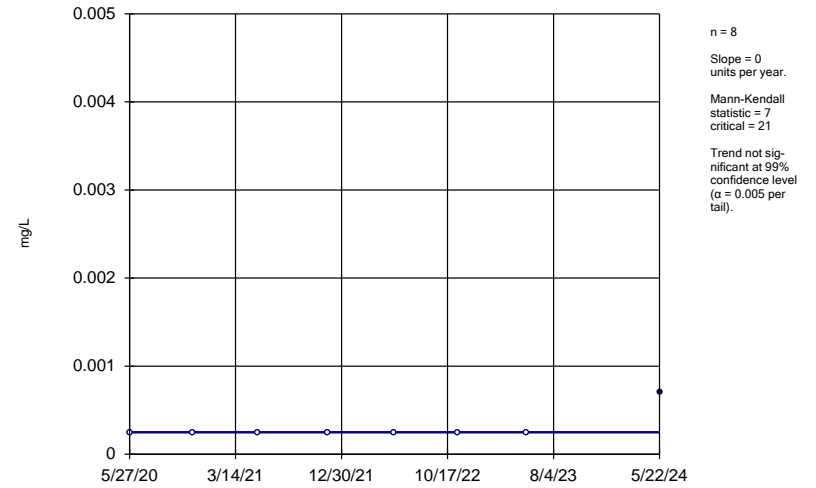
MW-28



Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

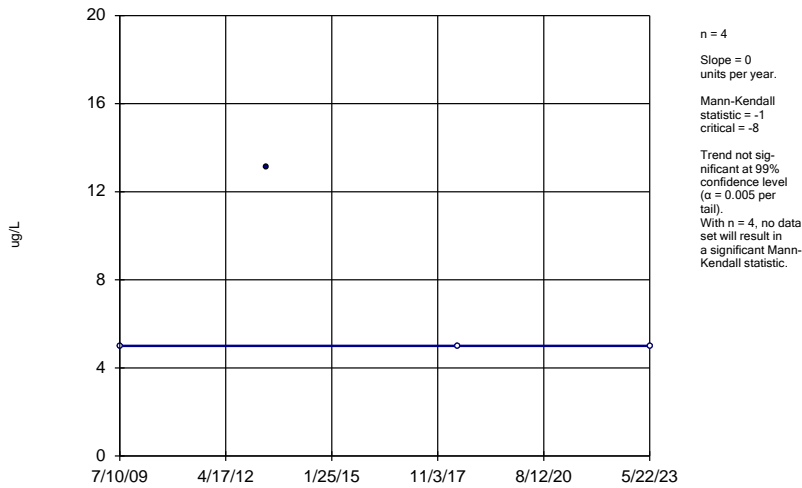
MWPz-16A



Constituent: Cobalt Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

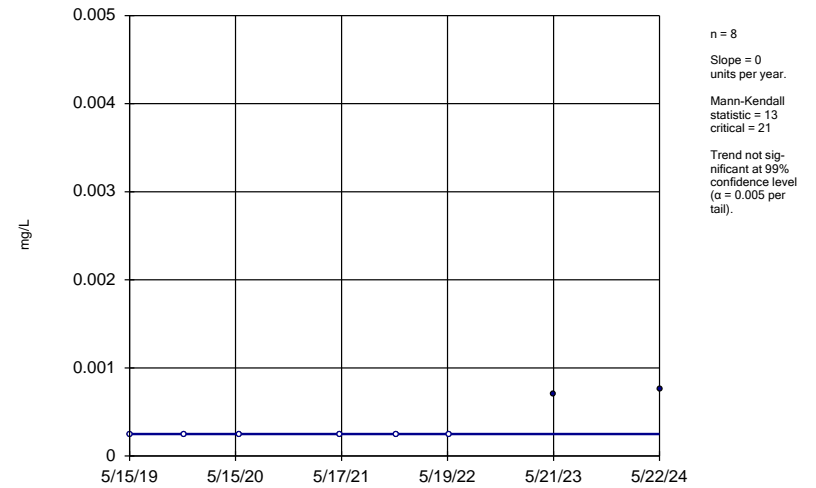
MW-22B



Constituent: Cyanide Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

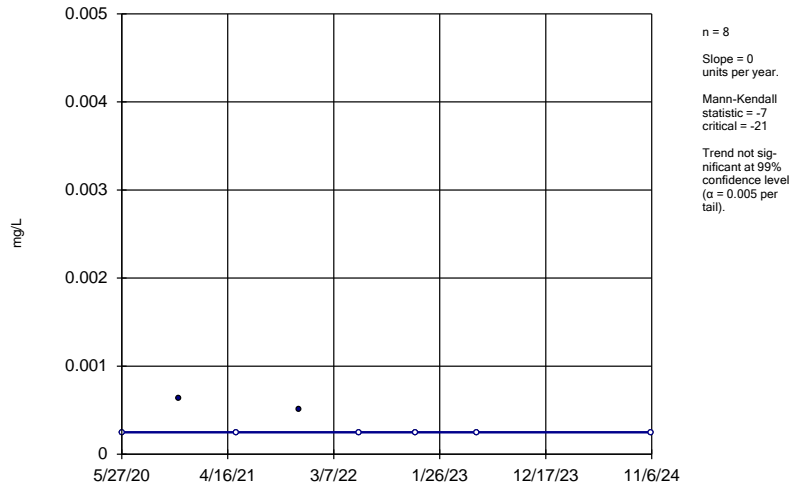
MW-18



Constituent: Lead Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

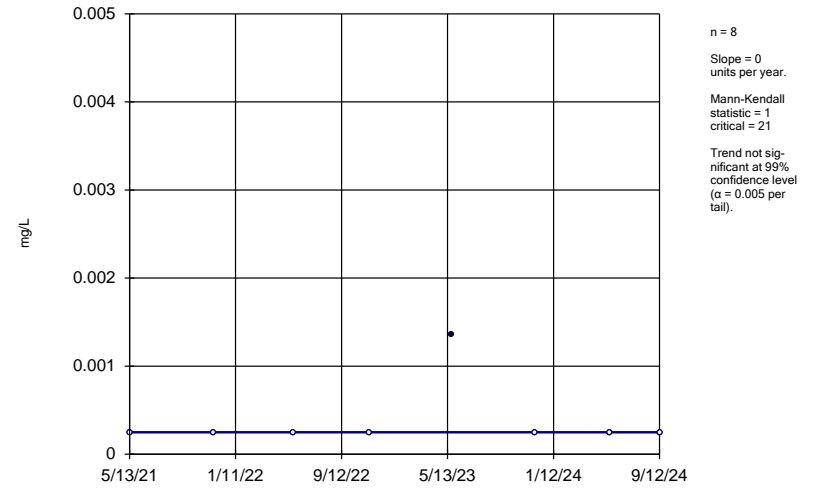
MW-19



Constituent: Lead Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

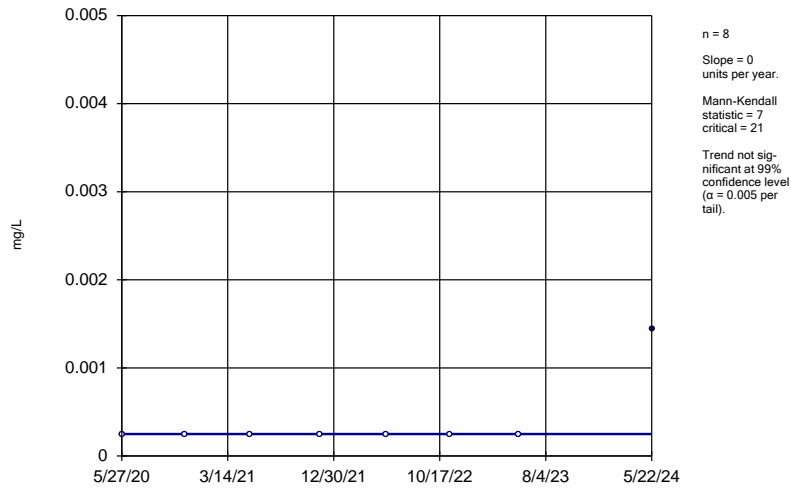
MW-22B



Constituent: Lead Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

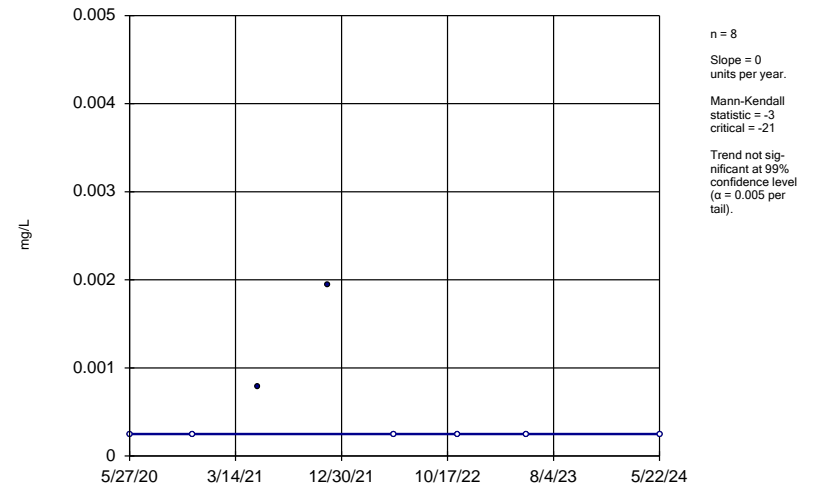
MW-23



Constituent: Lead Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

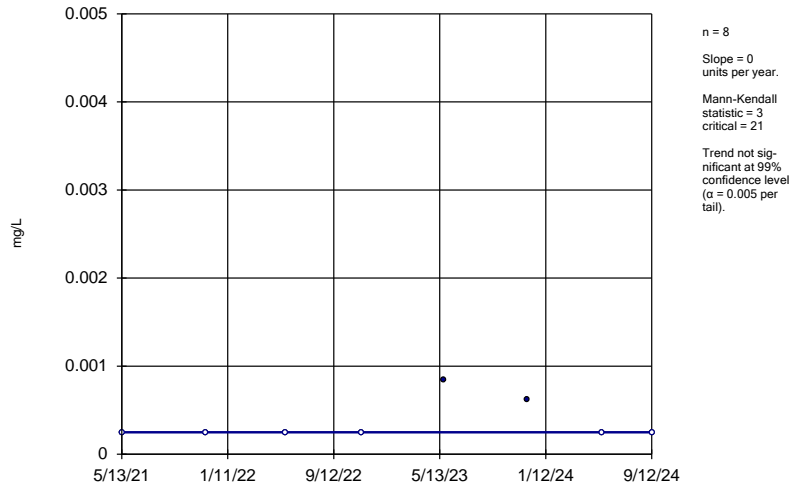
MW-25



Constituent: Lead Analysis Run 1/29/2025 2:03 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

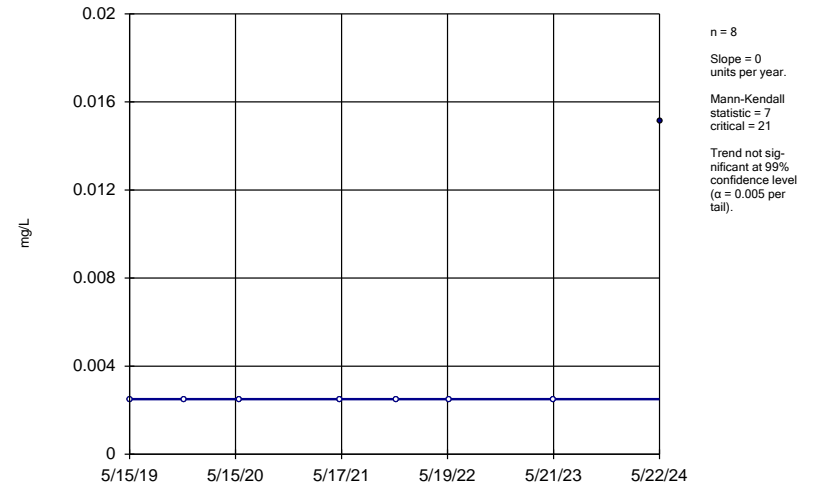
MW-28



Constituent: Lead Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

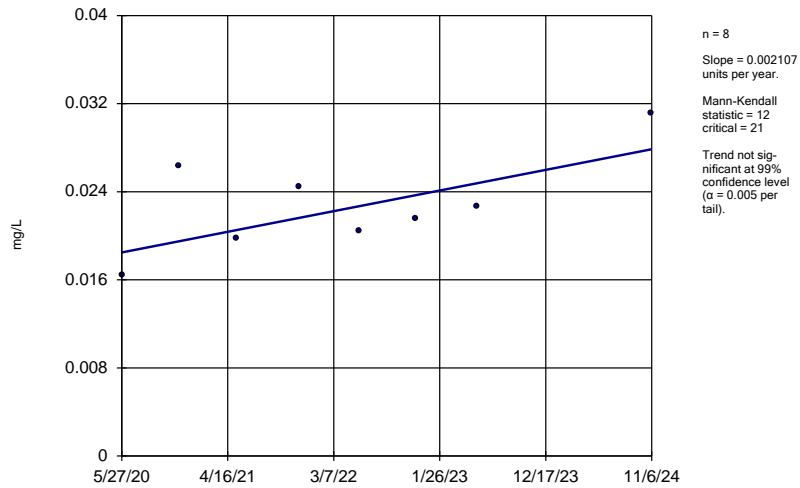
MW-18



Constituent: Nickel Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

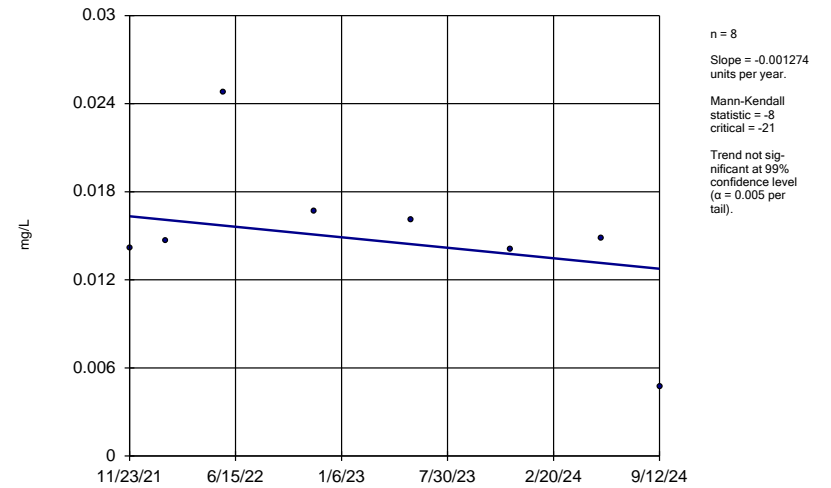
MW-19



Constituent: Nickel Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

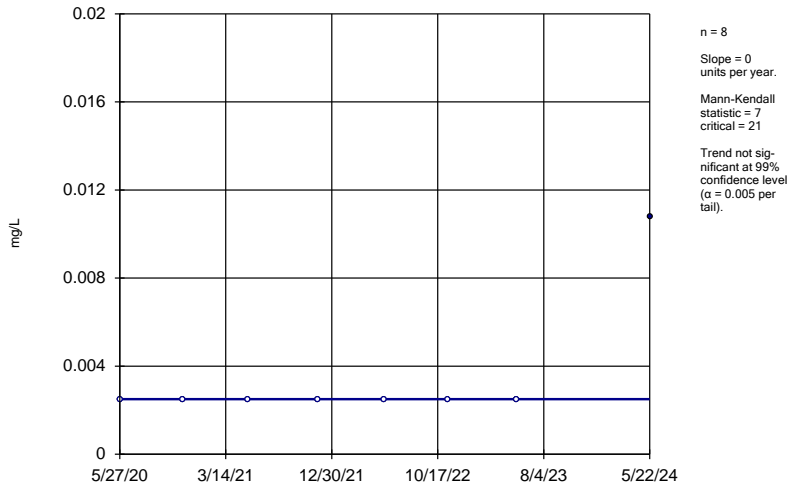
MW-22B



Constituent: Nickel Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

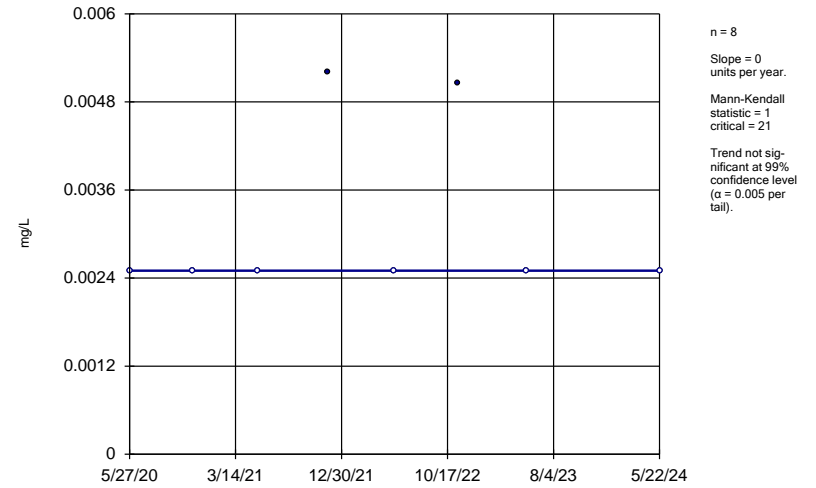
MW-23



Constituent: Nickel Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

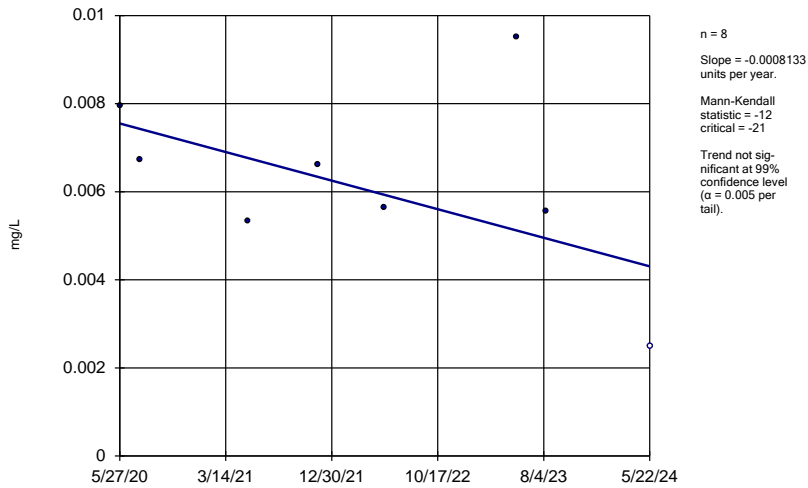
MWPz-16A



Constituent: Nickel Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

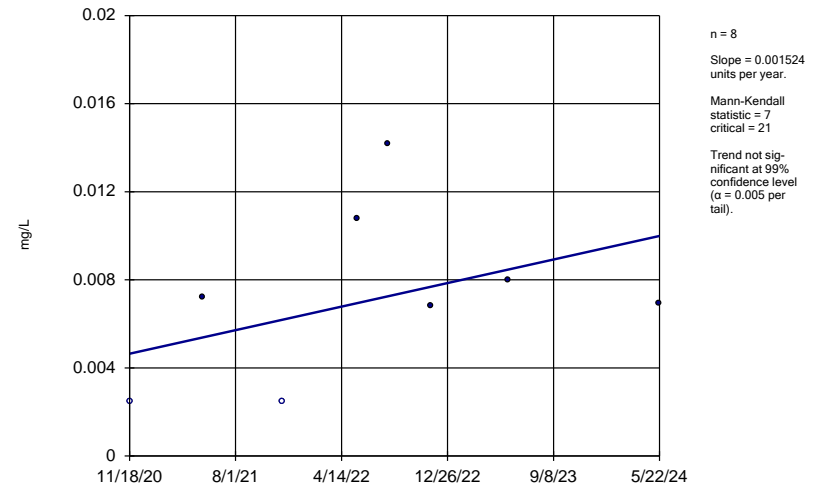
MW-18



Constituent: Selenium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

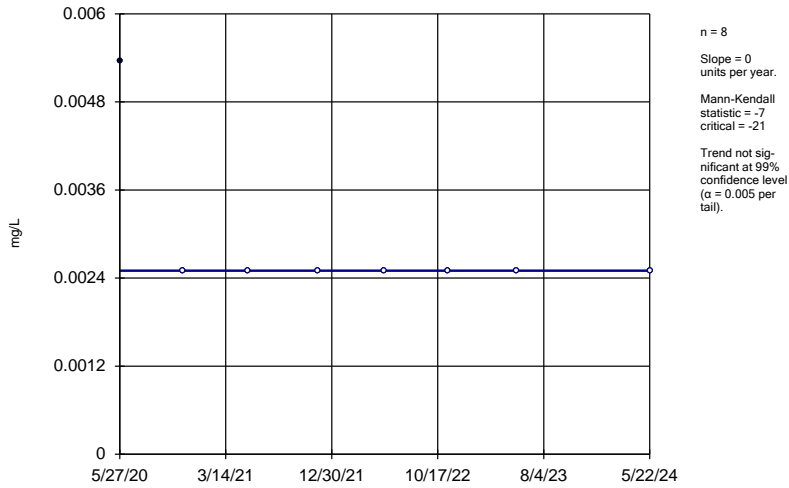
MW-20



Constituent: Selenium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

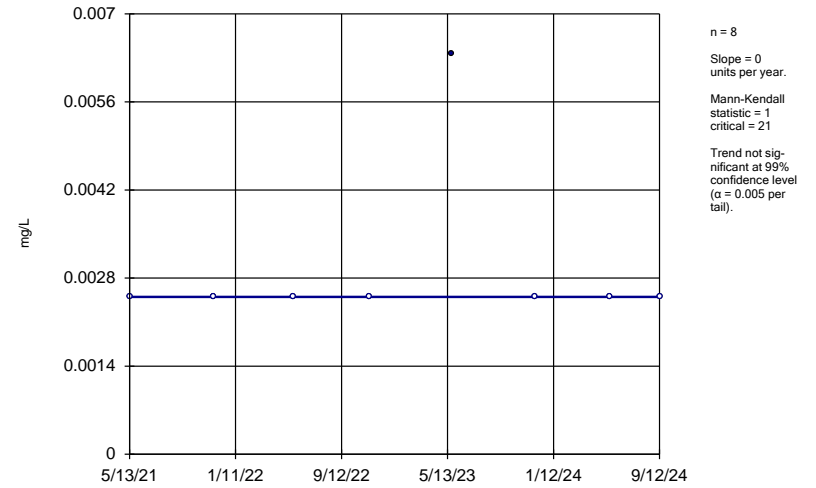
MW-25



Constituent: Selenium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

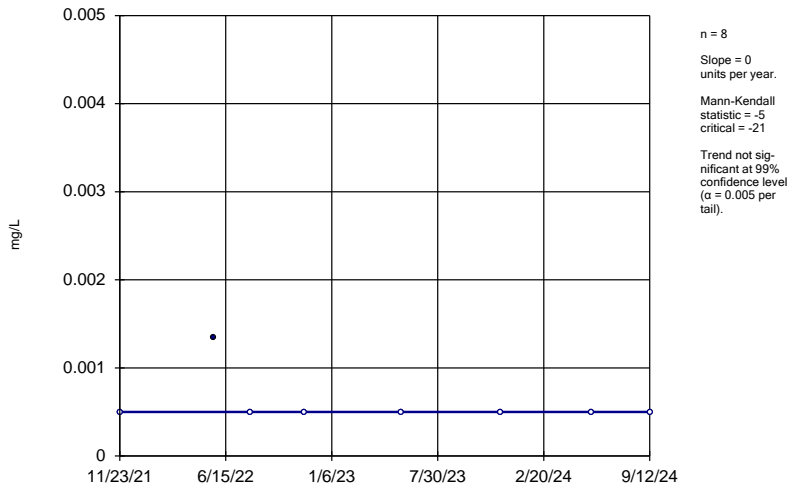
MW-28



Constituent: Selenium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

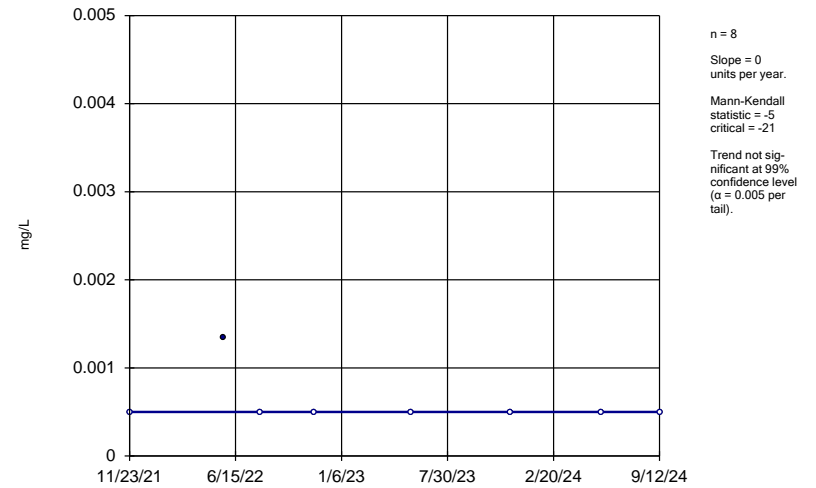
MW-22B



Constituent: Silver Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

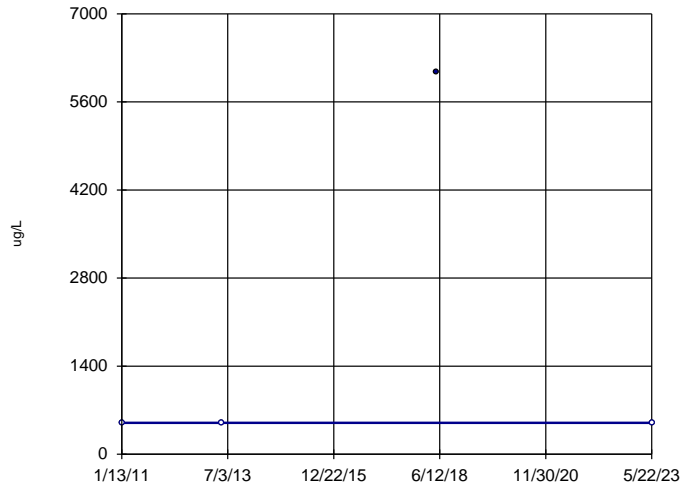
MW-28



Constituent: Silver Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-18

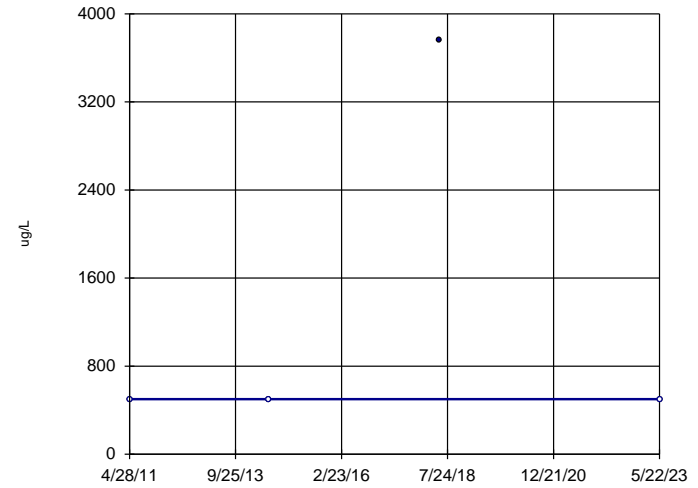


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-19

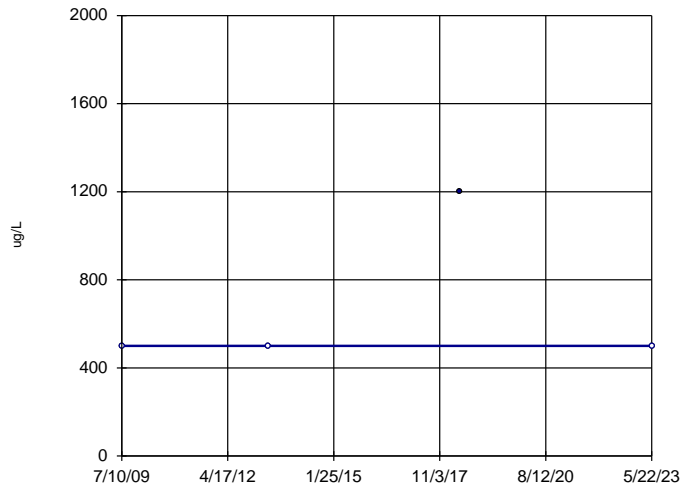


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-22B

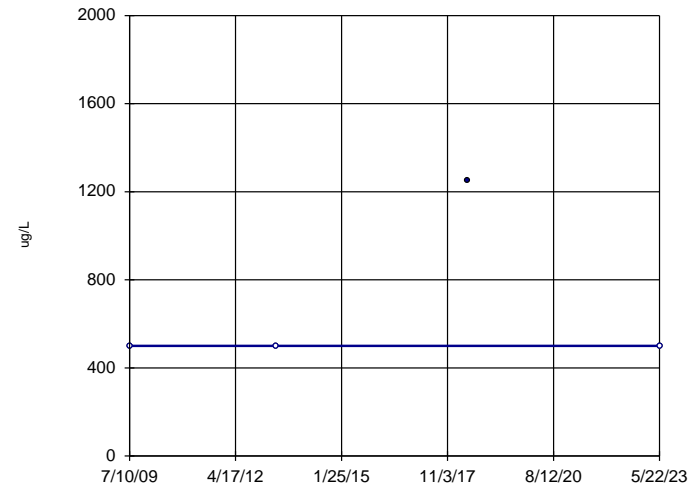


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-23

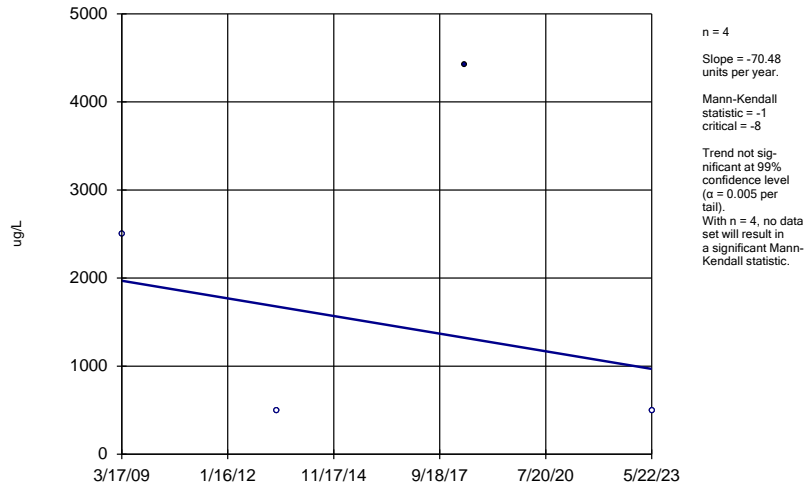


n = 4  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 8  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).  
With n = 4, no data  
set will result in  
a significant Mann-  
Kendall statistic.

Constituent: Sulfide Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

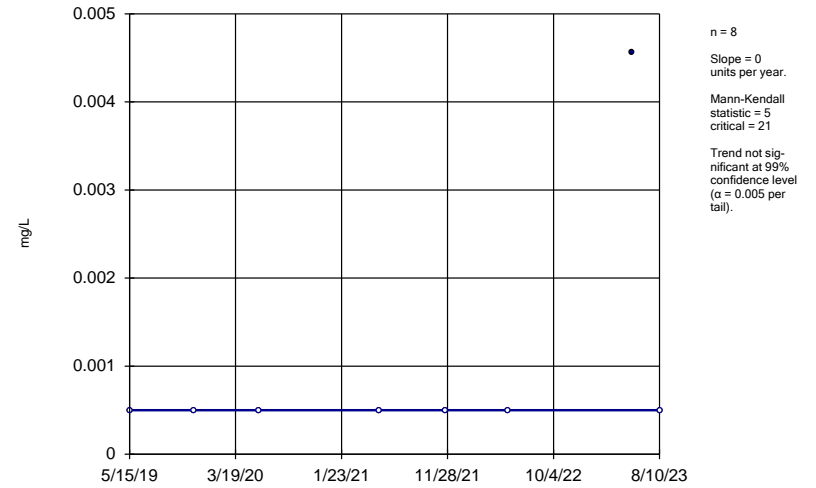
MWPz-16A



Constituent: Sulfide Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

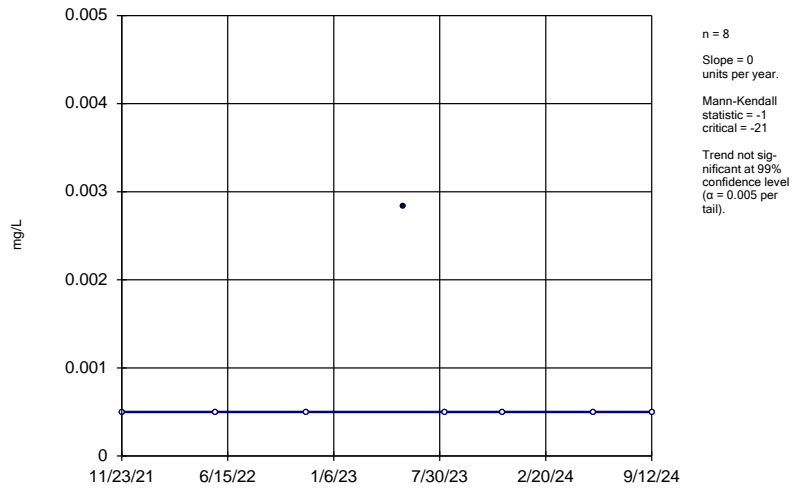
MW-18



Constituent: Thallium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

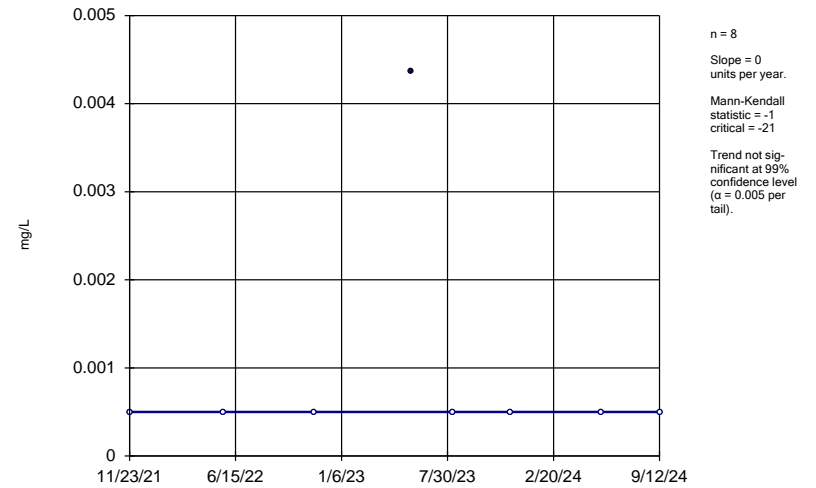
MW-22B



Constituent: Thallium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

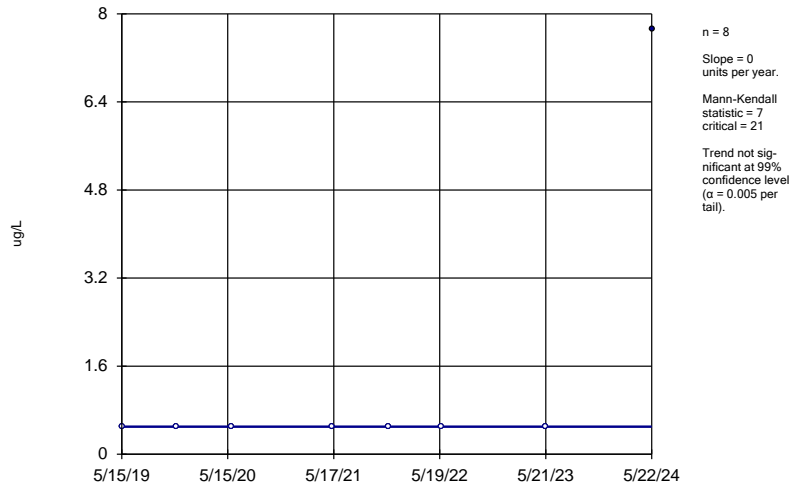
MW-28



Constituent: Thallium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

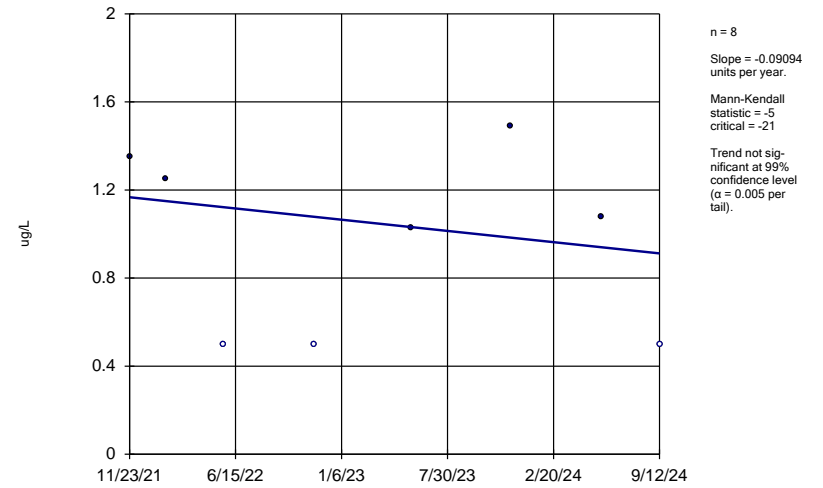
MW-18



Constituent: Toluene Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

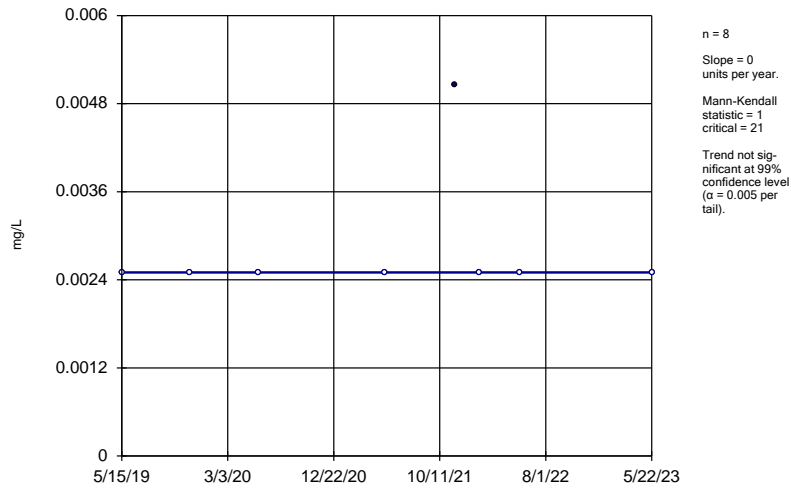
MW-22B



Constituent: trans-1,2-Dichloroethene Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

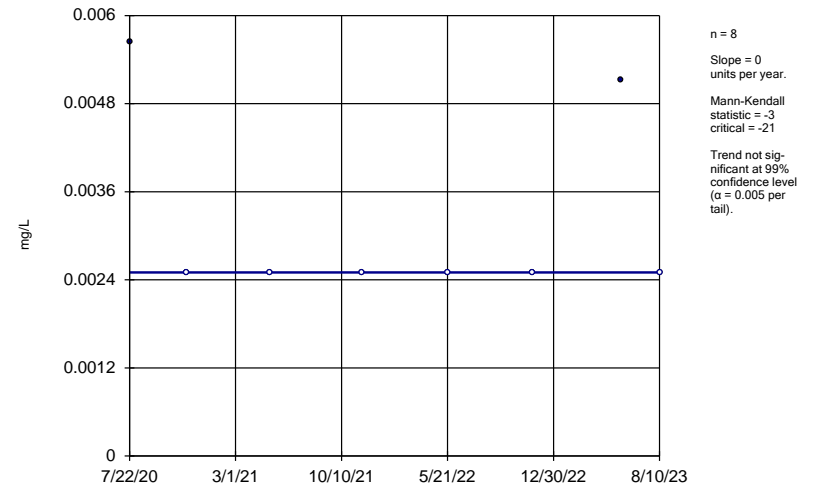
MW-18



Constituent: Vanadium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Sen's Slope Estimator

MW-20

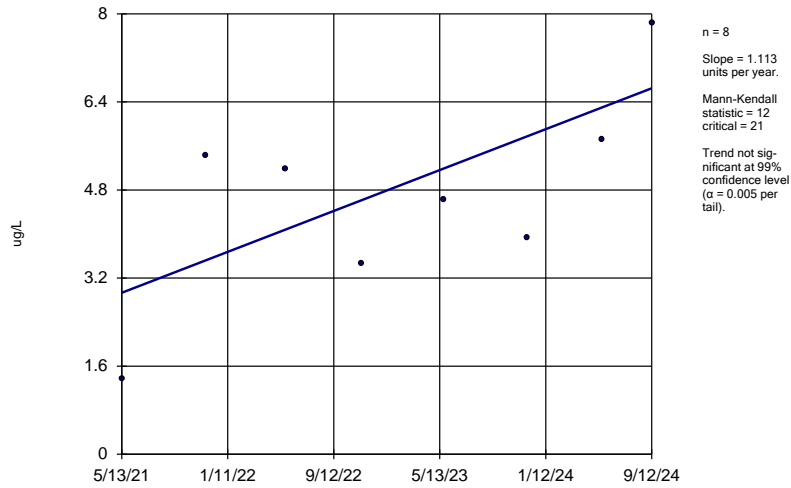


Constituent: Vanadium Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM



### Sen's Slope Estimator

MW-22B

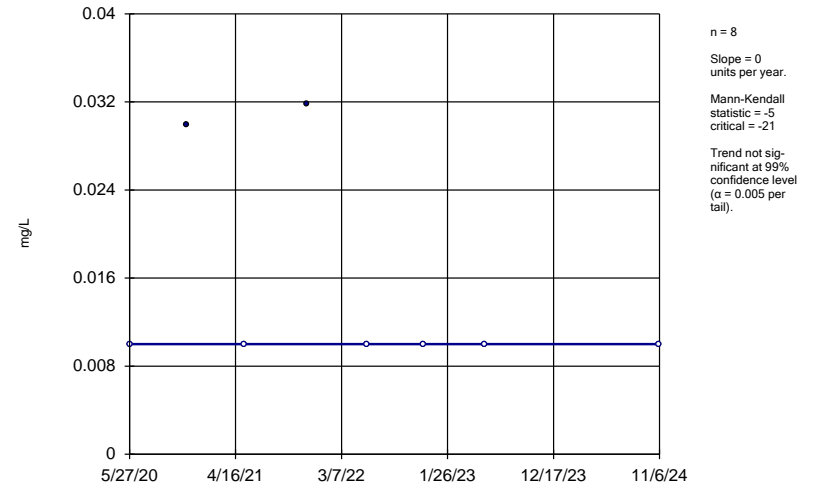


Constituent: Vinyl Chloride Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

Hollow symbols indicate censored values.

### Sen's Slope Estimator

MW-19

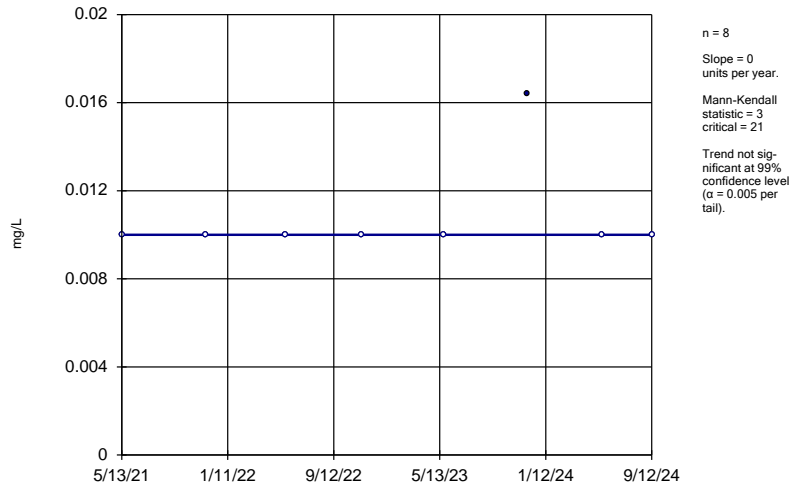


Constituent: Zinc Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

Hollow symbols indicate censored values.

### Sen's Slope Estimator

MW-22B



Constituent: Zinc Analysis Run 1/29/2025 2:04 PM View: 2024AWQR-Mann\_Kendall  
 Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

## **Confidence Interval Summary Table and Graphs**

# Confidence Interval

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-2024AWQR-AM    Printed 1/29/2025, 2:23 PM

| <u>Constituent</u>            | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|-------------------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|--------------|----------------|
| 1,1-Dichloroethane (ug/L)     | MW-19       | 4.503             | 3.297             | 140               | No          | 8        | 0           | No               | 0.01         | Param.         |
| 1,1-Dichloroethane (ug/L)     | MWPz-16A    | 1.892             | 1.405             | 140               | No          | 8        | 0           | No               | 0.01         | Param.         |
| 4,4'-DDD (ug/L)               | MW-19       | 0.1615            | 0.016             | 0.73              | No          | 5        | 80          | No               | 0.031        | NP (NDs)       |
| Acetone (ug/L)                | MW-18       | 45.7              | 5                 | 6300              | No          | 8        | 62.5        | No               | 0.004        | NP (NDs)       |
| Acetone (ug/L)                | MW-19       | 24.89             | 5.815             | 6300              | No          | 8        | 50          | No               | 0.01         | Param.         |
| Acetone (ug/L)                | MW-22B      | 14                | 5                 | 6300              | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Arsenic (mg/L)                | MW-18       | 0.00471           | 0.001             | 0.01              | No          | 8        | 62.5        | No               | 0.004        | NP (NDs)       |
| Arsenic (mg/L)                | MW-19       | 0.08874           | 0.007332          | 0.01              | No          | 8        | 0           | No               | 0.01         | Param.         |
| Arsenic (mg/L)                | MW-20       | 0.00229           | 0.001             | 0.01              | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Arsenic (mg/L)                | MW-22B      | 0.00394           | 0.001             | 0.01              | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Barium (mg/L)                 | MW-18       | 0.423             | 0.0596            | 2                 | No          | 8        | 0           | No               | 0.004        | NP (normality) |
| Barium (mg/L)                 | MW-19       | 1.046             | 0.7681            | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-20       | 0.1135            | 0.06176           | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-22B      | 0.3893            | 0.3089            | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-23       | 0.506             | 0.369             | 2                 | No          | 8        | 0           | No               | 0.004        | NP (normality) |
| Barium (mg/L)                 | MW-25       | 0.1063            | 0.06682           | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MW-28       | 0.06691           | 0.04341           | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Barium (mg/L)                 | MWPz-16A    | 0.3222            | 0.2991            | 2                 | No          | 8        | 0           | No               | 0.01         | Param.         |
| Benzene (ug/L)                | MW-19       | 0.7577            | 0.4478            | 5                 | No          | 8        | 50          | No               | 0.01         | Param.         |
| Benzene (ug/L)                | MW-22B      | 2.883             | 0.9319            | 5                 | No          | 8        | 12.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-18       | 0.0003682         | 0.00004153        | 0.005             | No          | 8        | 50          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-19       | 0.0007098         | 0.00002017        | 0.005             | No          | 8        | 37.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-20       | 0.00023           | 0.00007357        | 0.005             | No          | 8        | 37.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-22B      | 0.0007767         | 0.0002427         | 0.005             | No          | 8        | 25          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-23       | 0.0003534         | 0.00006239        | 0.005             | No          | 8        | 25          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-25       | 0.0004415         | 0.00009779        | 0.005             | No          | 8        | 25          | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MW-28       | 0.0002305         | 0.0001057         | 0.005             | No          | 8        | 37.5        | No               | 0.01         | Param.         |
| Cadmium (mg/L)                | MWPz-16A    | 0.000636          | 0.00005           | 0.005             | No          | 8        | 37.5        | No               | 0.004        | NP (normality) |
| Chromium (mg/L)               | MW-22B      | 0.00429           | 0.0025            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| cis-1,2-Dichloroethene (ug/L) | MW-22B      | 96.32             | 39.44             | 70                | No          | 8        | 0           | No               | 0.01         | Param.         |
| cis-1,2-Dichloroethene (ug/L) | MWPz-16A    | 3.156             | 2.386             | 70                | No          | 8        | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                 | MW-18       | 0.0367            | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MW-19       | 0.003969          | 0.001814          | 0.0021            | No          | 8        | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                 | MW-22B      | 0.004992          | 0.001383          | 0.0021            | No          | 8        | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                 | MW-23       | 0.00147           | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MW-25       | 0.000607          | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MW-28       | 0.000506          | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cobalt (mg/L)                 | MWPz-16A    | 0.00071           | 0.00025           | 0.0021            | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Cyanide (ug/L)                | MW-22B      | 13.1              | 5                 | 200               | No          | 4        | 75          | No               | 0.0625       | NP (NDs)       |
| Lead (mg/L)                   | MW-18       | 0.000756          | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-19       | 0.000638          | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-22B      | 0.00136           | 0.00025           | 0.015             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-23       | 0.00144           | 0.00025           | 0.015             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-25       | 0.00194           | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Lead (mg/L)                   | MW-28       | 0.000847          | 0.00025           | 0.015             | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |
| Nickel (mg/L)                 | MW-18       | 0.0151            | 0.0025            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Nickel (mg/L)                 | MW-19       | 0.02763           | 0.01809           | 0.1               | No          | 8        | 0           | No               | 0.01         | Param.         |
| Nickel (mg/L)                 | MW-22B      | 0.02078           | 0.00925           | 0.1               | No          | 8        | 0           | No               | 0.01         | Param.         |
| Nickel (mg/L)                 | MW-23       | 0.0108            | 0.0025            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)       |
| Nickel (mg/L)                 | MWPz-16A    | 0.0052            | 0.0025            | 0.1               | No          | 8        | 75          | No               | 0.004        | NP (NDs)       |

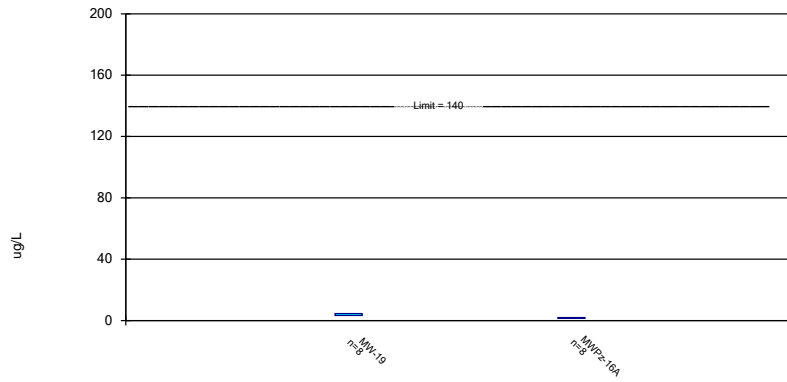
# Confidence Interval

Kossuth County SLF    Client: SCS Engineers    Data: Kossuth-2024AWQR-AM    Printed 1/29/2025, 2:23 PM

| <u>Constituent</u>              | <u>Well</u>   | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|---------------------------------|---------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|--------------|---------------|
| Selenium (mg/L)                 | MW-18         | 0.008408          | 0.00405           | 0.05              | No          | 8        | 12.5        | No               | 0.01         | Param.        |
| Selenium (mg/L)                 | MW-20         | 0.01108           | 0.004924          | 0.05              | No          | 8        | 25          | No               | 0.01         | Param.        |
| Selenium (mg/L)                 | MW-25         | 0.00536           | 0.0025            | 0.05              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Selenium (mg/L)                 | MW-28         | 0.00636           | 0.0025            | 0.05              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Silver (mg/L)                   | MW-22B        | 0.00134           | 0.0005            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Silver (mg/L)                   | MW-28         | 0.00134           | 0.0005            | 0.1               | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Sulfide (ug/L)                  | MW-18         | 6080              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MW-19         | 3760              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MW-22B        | 1200              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MW-23         | 1250              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Sulfide (ug/L)                  | MWPz-16A      | 4420              | 500               | 1000              | No          | 4        | 75          | No               | 0.0625       | NP (NDs)      |
| Thallium (mg/L)                 | MW-18         | 0.00456           | 0.0005            | 0.002             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Thallium (mg/L)                 | MW-22B        | 0.00284           | 0.0005            | 0.002             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Thallium (mg/L)                 | MW-28         | 0.00437           | 0.0005            | 0.002             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Toluene (ug/L)                  | MW-18         | 7.72              | 0.5               | 1000              | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| trans-1,2-Dichloroethene (ug/L) | MW-22B        | 1.338             | 0.9617            | 100               | No          | 8        | 37.5        | No               | 0.01         | Param.        |
| Vanadium (mg/L)                 | MW-18         | 0.00505           | 0.0025            | 0.035             | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |
| Vanadium (mg/L)                 | MW-20         | 0.00564           | 0.0025            | 0.035             | No          | 8        | 75          | No               | 0.004        | NP (NDs)      |
| <b>Vinyl Chloride (ug/L)</b>    | <b>MW-22B</b> | <b>6.682</b>      | <b>2.7</b>        | <b>2</b>          | <b>Yes</b>  | <b>8</b> | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>Param.</b> |
| Zinc (mg/L)                     | MW-19         | 0.0318            | 0.01              | 2                 | No          | 8        | 75          | No               | 0.004        | NP (NDs)      |
| Zinc (mg/L)                     | MW-22B        | 0.0164            | 0.01              | 2                 | No          | 8        | 87.5        | No               | 0.004        | NP (NDs)      |

### Parametric Confidence Interval

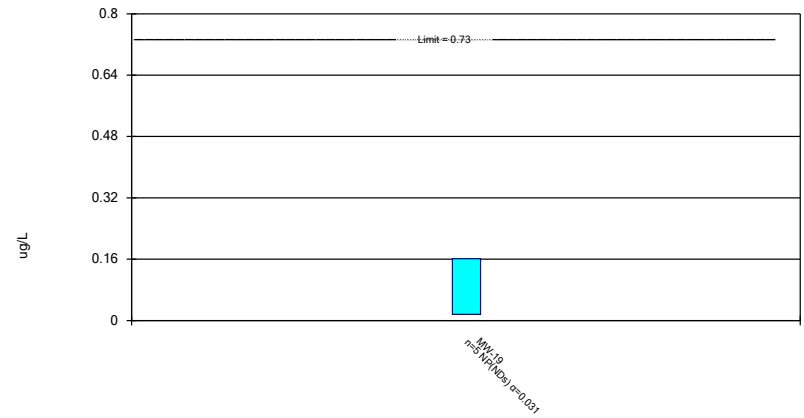
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

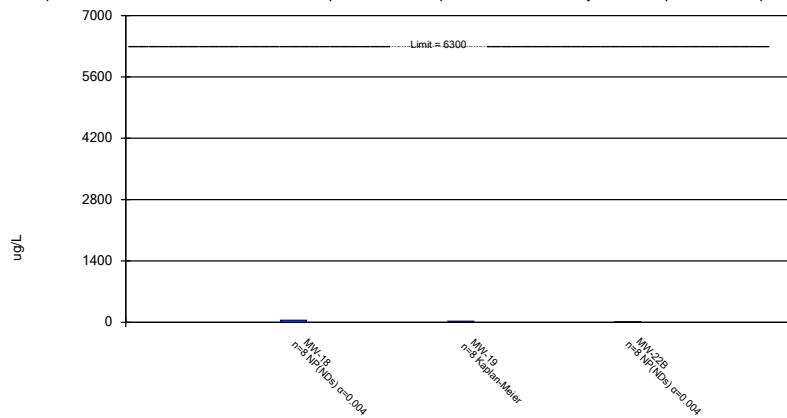
Compliance Limit is not exceeded.



Constituent: 4,4'-DDD Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

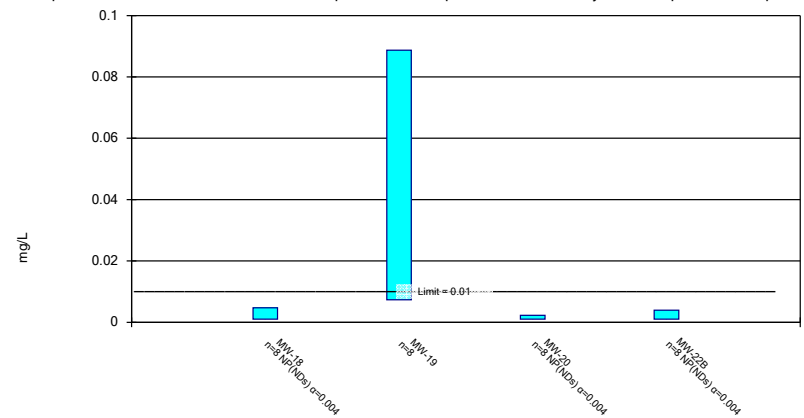
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Acetone Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

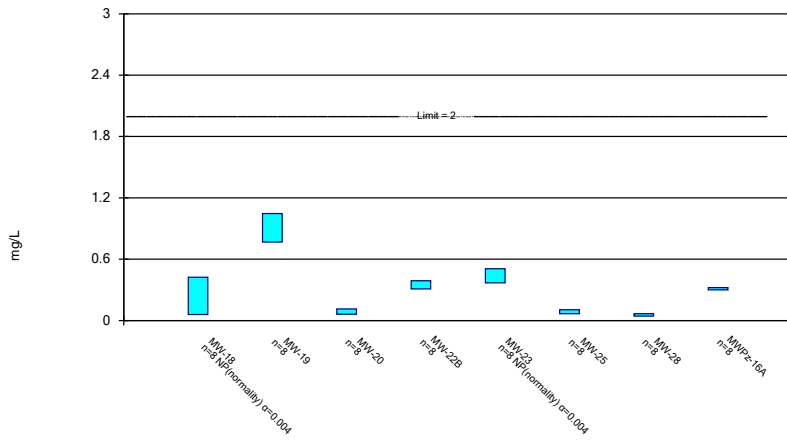
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

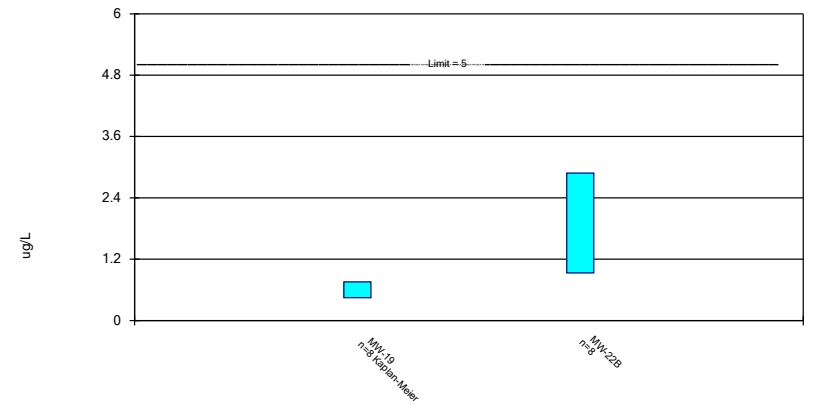
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric Confidence Interval

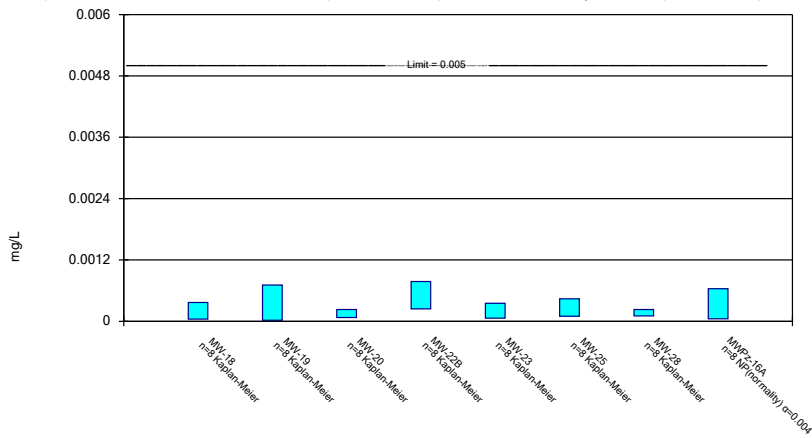
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

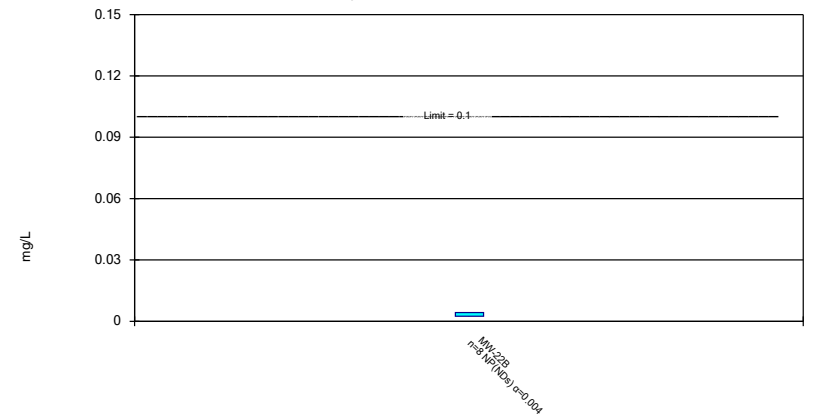
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

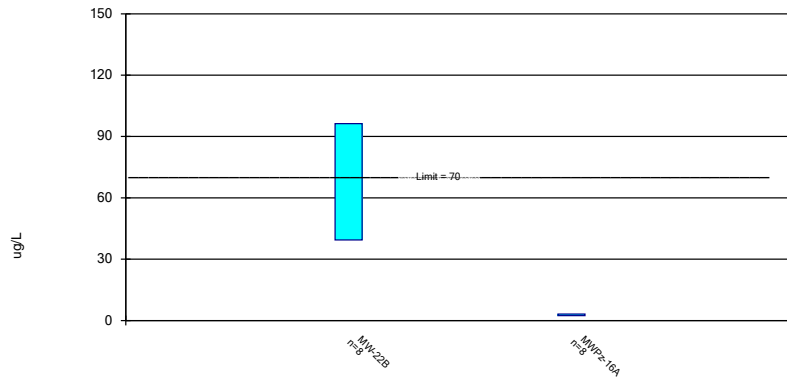
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric Confidence Interval

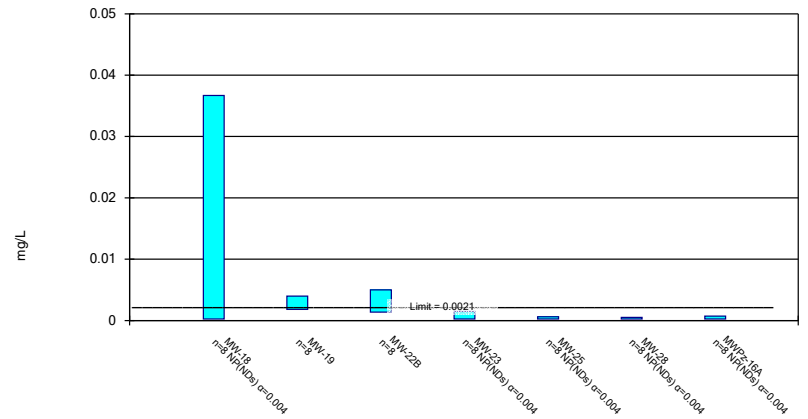
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Inter  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

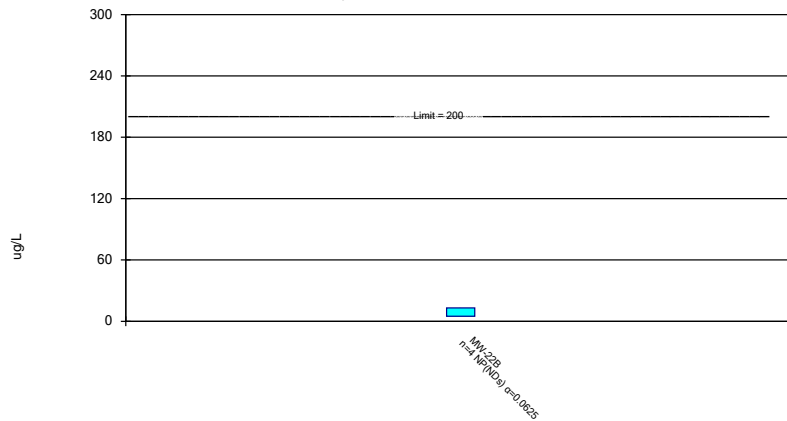
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

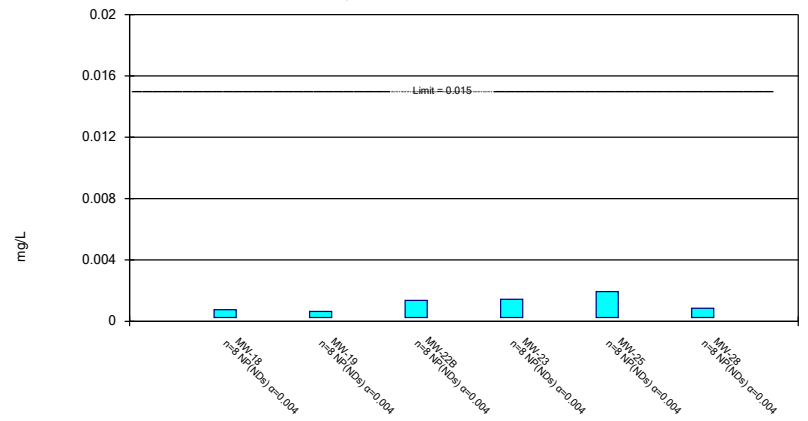
Compliance Limit is not exceeded.



Constituent: Cyanide Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

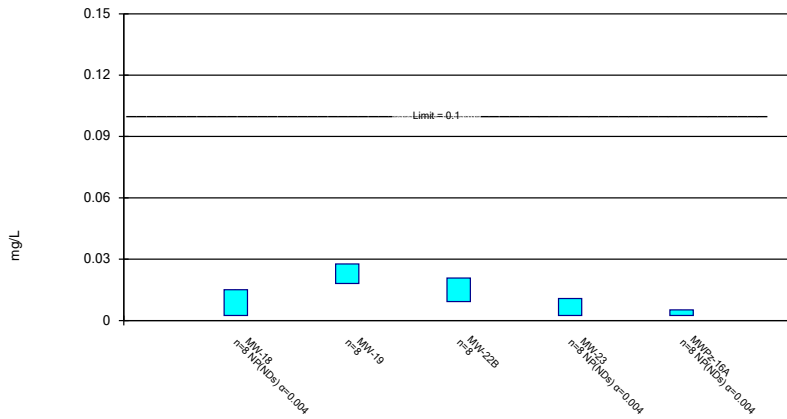
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

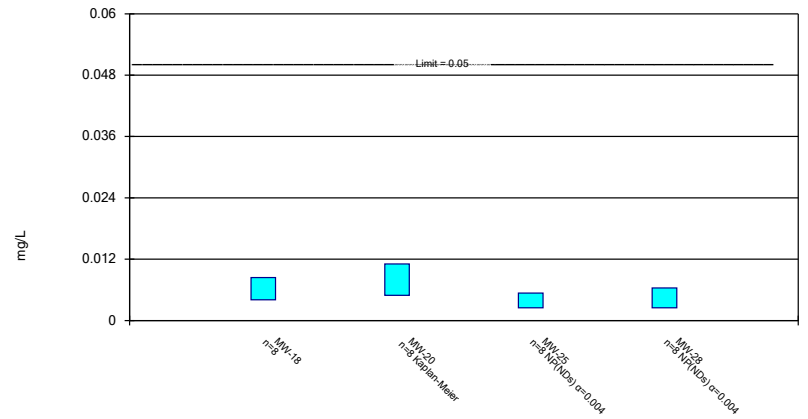
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric and Non-Parametric (NP) Confidence Interval

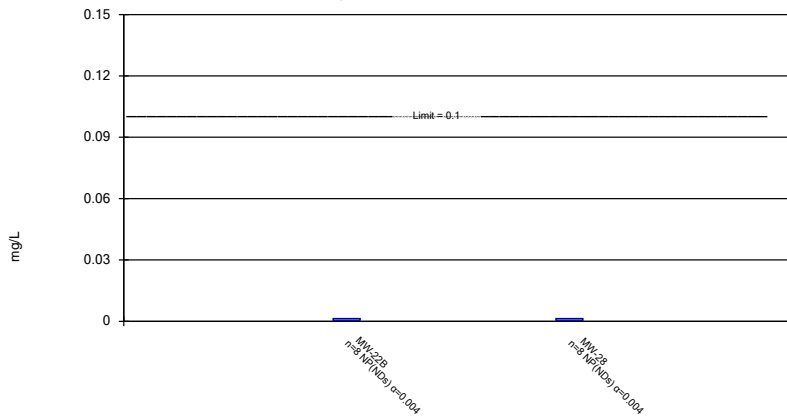
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Selenium Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

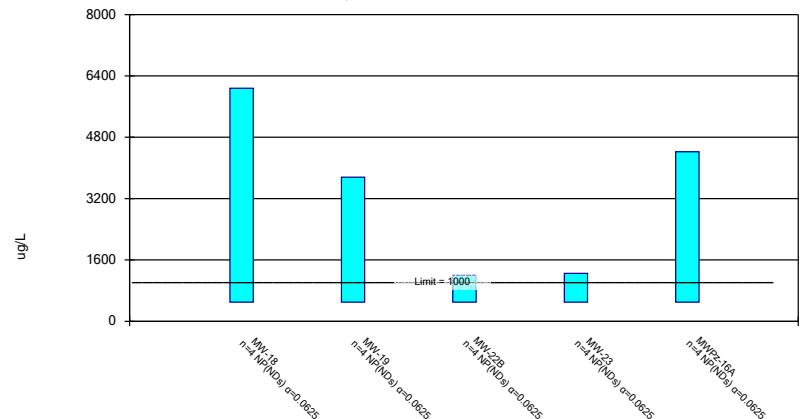
Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

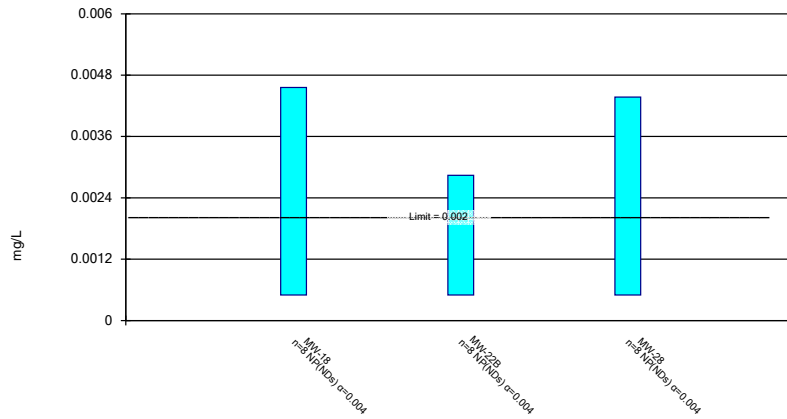


Constituent: Sulfide Analysis Run 1/29/2025 2:21 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM



### Non-Parametric Confidence Interval

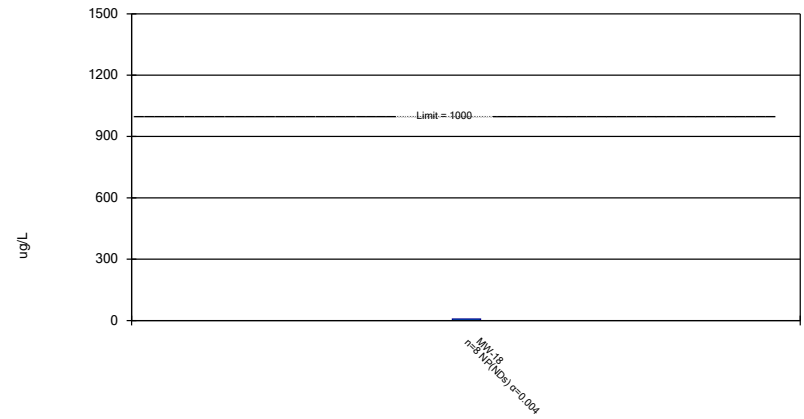
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 1/29/2025 2:22 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

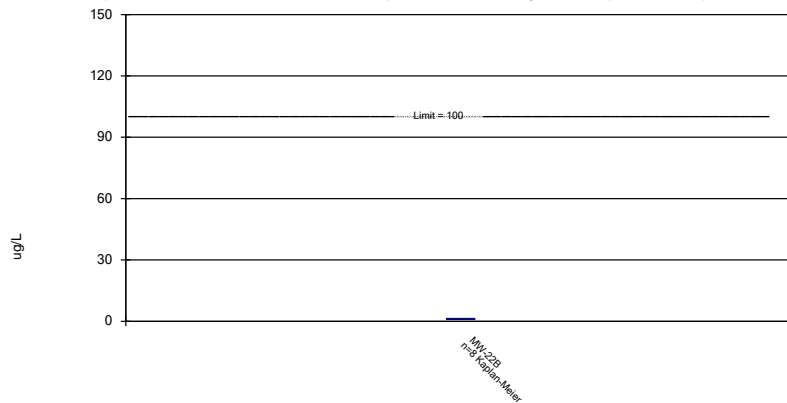
Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 1/29/2025 2:22 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric Confidence Interval

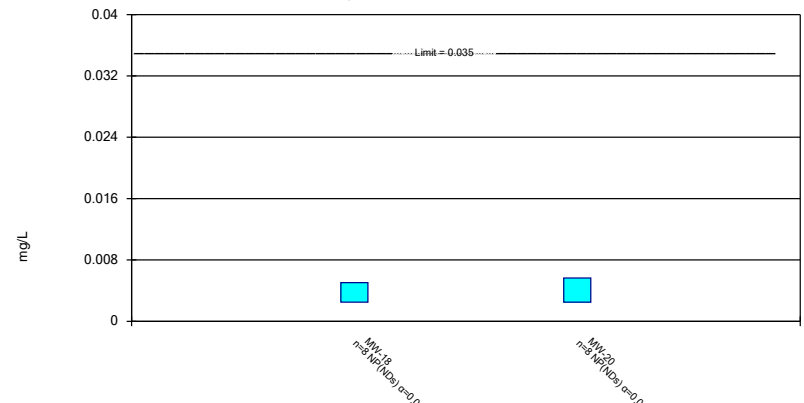
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: trans-1,2-Dichloroethene Analysis Run 1/29/2025 2:22 PM View: 2024AWQR-Confidence\_Int  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

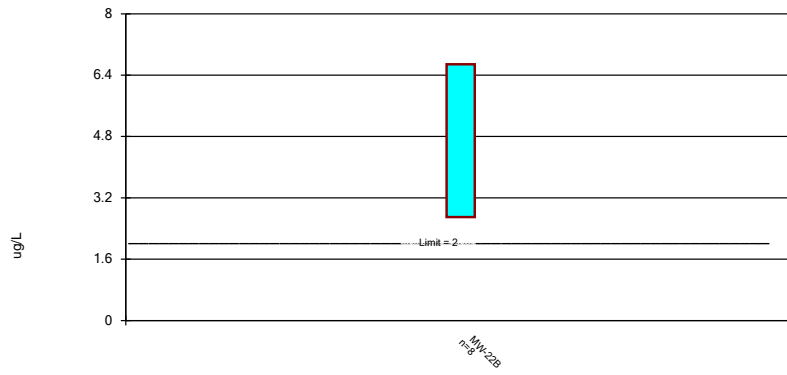
Compliance Limit is not exceeded.



Constituent: Vanadium Analysis Run 1/29/2025 2:22 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Parametric Confidence Interval

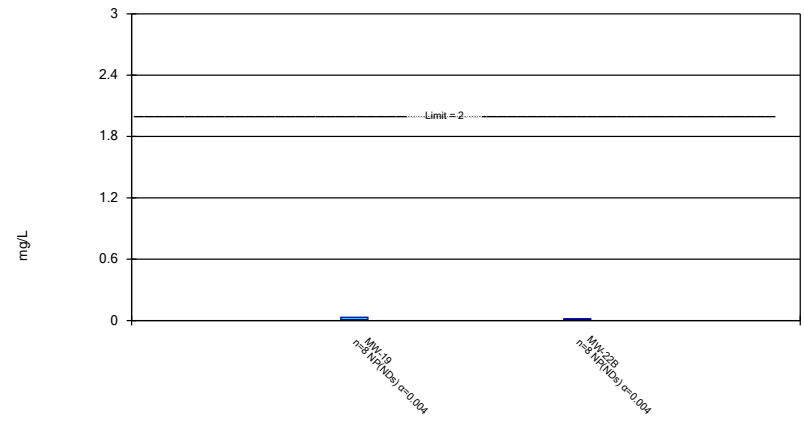
Compliance limit is exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Vinyl Chloride Analysis Run 1/29/2025 2:22 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Zinc Analysis Run 1/29/2025 2:22 PM View: 2024AWQR-Confidence\_Interval  
Kossuth County SLF Client: SCS Engineers Data: Kossuth-2024AWQR-AM

**Appendix E**  
**2024 Leachate Control System Performance Evaluation Report**

**Leachate Management Summary**  
**2024 Leachate Control System Performance Evaluation Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Month                  | Unlined Cells - Column Thickness (ft) |     |      |     |      |      |     |     |      |      | Leachate Lagoon | Discharged to POTW (gal) | Precipitation (in) |
|------------------------|---------------------------------------|-----|------|-----|------|------|-----|-----|------|------|-----------------|--------------------------|--------------------|
|                        | KL1                                   | KL2 | KL3  | KL4 | KL5  | KL6  | KL7 | KL8 | KL9  | KL10 |                 |                          |                    |
| January 2024           |                                       |     |      |     |      |      |     |     |      |      | 2.1             | 0                        | 0.15               |
| February 2024          |                                       |     |      |     |      |      |     |     |      |      | 2.3             | 0                        | 0.11               |
| March 2024             | 0.9                                   | 7.2 | 10.0 | Dry | 11.1 | 10.7 | 1.1 | Dry | 12.6 | Dry  | 2.7             | 0                        | 3.23               |
| April 2024             |                                       |     |      |     |      |      |     |     |      |      | 2.9             | 0                        | 4.67               |
| May 2024               | 0.8                                   | 8.8 | 13.9 | 2.9 | 17.7 | 14.7 | 2.1 | 2.4 | 13.5 | 5.2  | 3.5             | 0                        | 10.78              |
| June 2024              |                                       |     |      |     |      |      |     |     |      |      | 4.1             | 0                        | 8.65               |
| July 2024              |                                       |     |      |     |      |      |     |     |      |      | 3.9             | 0                        | 4.79               |
| August 2024            |                                       |     |      |     |      |      |     |     |      |      | 3.5             | 0                        | 3.38               |
| September 2024         | 0.5                                   | 7.8 | 13.7 | 2.4 | 15.0 | Dry  | 2.0 | Dry | 13.0 | 4.7  | 3.3             | 0                        | 0.10               |
| October 2024           |                                       |     |      |     |      |      |     |     |      |      | 3.1             | 0                        | 0.34               |
| November 2024          | Dry                                   | 7.7 | 13.5 | Dry | Dry  | 11.8 | 1.8 | Dry | 12.0 | Dry  | 3.2             | 0                        | 1.40               |
| December 2024          |                                       |     |      |     |      |      |     |     |      |      | 3.2             | 0                        | 0.51               |
| Reporting Period Total |                                       |     |      |     |      |      |     |     |      |      |                 | 0                        | 38.11              |

Notes:

- 1) Fluid level measurements are collected quarterly by SCS.
- 2) Leachate lagoon levels are measured monthly by facility staff. See the graph following the piezometer graphs.
- 3) Precipitation data obtained from [https://mesonet.agron.iastate.edu/ASOS/reports/mon\\_prec.php?year=2024](https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?year=2024) for Algona, IA.
- 4) Figure 1 shows the location of the leachate monitoring points.
- 5) Historical leachate levels and graphs are included in Attachment A. It should be noted that the "Dry" measurements recorded for monitoring point KL-5 in November 2024 and in monitoring point KL-6 in September 2024 are likely anomalous compared to other measurements and are not included in the graphs.

Comments:

**Reporting Period:** January - December 2024.

**Approved Changes to Leachate Collection System:** There were no new approved changes to the leachate collection system during this reporting period.

**Recommended Changes to Leachate Collection System:** None.

**Maintenance Performed on Leachate Collection System:** None.

**Last Date of Cleaning and Inspection:** Leachate line cleaning and inspection was performed in October 2024.

**Date of Next Cleaning and Inspection:** Leachate line cleaning and inspection will be performed next in 2027.

**Volume of Leachate Recirculated:** Leachate is not recirculated at this facility.

**Volume of Leachate Treated Off-Site:** Leachate was not transported for treatment off-site during this reporting period.

**Leachate Quality Testing Results:** Leachate quality testing was not performed during this reporting period.

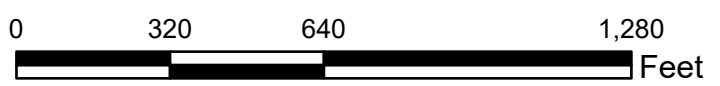
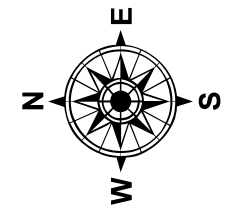




## Leachate Control System

| Legend   |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li><span style="color: red;">▲</span> Leachate Piezometer</li> <li><span style="color: red;">▲</span> Leachate Line Cleanout</li> <li><span style="color: red;">—</span> Leachate Collection Line</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">▲</span> Monitoring Well</li> <li><span style="color: blue;">▲</span> Surface Monitoring Point</li> <li><span style="color: green;">▲</span> Gas Vent</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">—</span> Waterway</li> <li><span style="border-bottom: 1px dashed red;">—</span> Approximate Property Boundary</li> <li><span style="border-bottom: 1px dashed pink;">—</span> Approximate Waste Boundary</li> </ul> |

Kossuth County Sanitary  
Landfill  
Burt, IA  
Project No: 27223408.25  
Drawing Date: February 2025



**Figure 1**



Data Saved: 2/17/2025 4:10 PM  
User: bmadison  
Path: C:\Users\bmadison\OneDrive - SCS Engineers\Desktop\GIS\MapDocs\Kossuth\_County\_Landfill\2025\_Aerial\Kossuth\_County\_2025



**Historical Leachate Levels  
Kossuth County Sanitary Landfill**

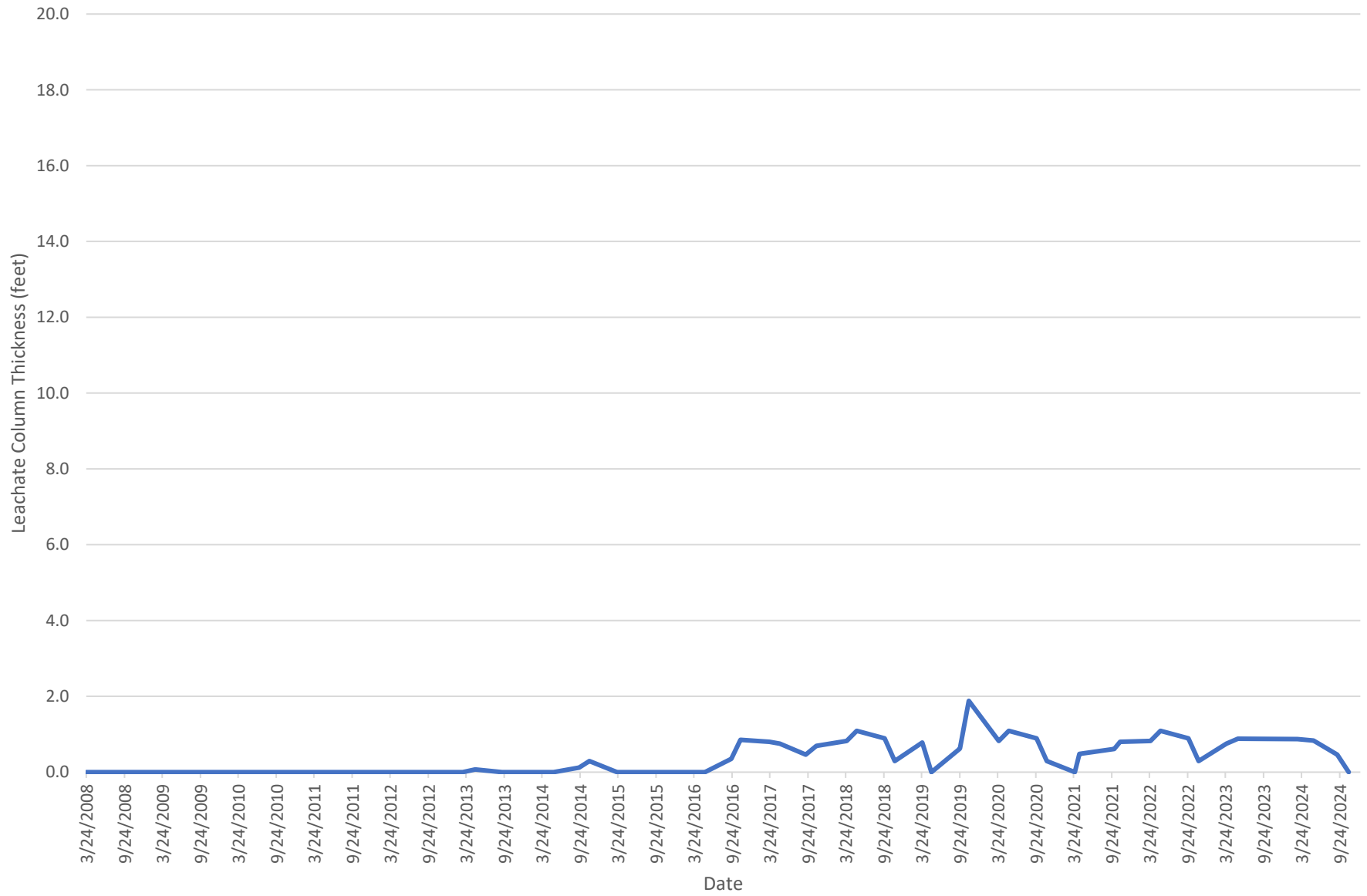
| Monitoring Location | KL1 | KL2  | KL3  | KL4 | KL5  | KL6  | KL7 | KL8 | KL9  | KL10 | Leachate Lagoon |
|---------------------|-----|------|------|-----|------|------|-----|-----|------|------|-----------------|
| 3/24/2008           | 0.0 | 3.4  | 11.0 | 0.0 | 13.1 | 13.1 | 0.8 | 0.5 | 0.8  | 1.4  | 2.5             |
| 6/9/2008            | 0.0 | 3.4  | 11.0 | 0.0 | 13.1 | 13.1 | 0.8 | 0.5 | 0.8  | 1.4  | 2.5             |
| 9/10/2008           | 0.0 | 3.8  | 13.6 | 1.4 | 14.5 | 13.1 | 0.0 | 0.7 | 2.2  | 0.9  | 1.5             |
| 12/26/2008          | 0.0 | 10.8 | 11.7 | 0.0 | 13.5 | 12.8 | 0.0 | 0.8 | 2.8  | 1.8  | 1.8             |
| 3/30/2009           | 0.0 | 3.9  | 11.8 | 2.5 | 15.1 | 14.1 | 0.8 | 0.7 | 2.4  | 1.6  | 3.1             |
| 6/17/2009           | 0.0 | 3.9  | 12.2 | 2.4 | 15.9 | 14.0 | 0.0 | 0.7 | 2.1  | 1.3  | 2.5             |
| 9/29/2009           | 0.0 | 4.0  | 12.6 | 1.4 | 13.8 | 13.0 | 1.1 | 0.2 | 2.7  | 1.0  | 2.0             |
| 12/22/2009          | 0.0 | 4.2  | 14.7 | 2.2 | 16.0 | 14.1 | 1.2 | 0.4 | 2.9  | 1.2  | 2.0             |
| 3/26/2010           | 0.0 | 4.3  | 14.0 | 3.6 | 17.6 | 14.4 | 1.2 | 1.1 | 2.7  | 2.5  | 3.8             |
| 6/30/2010           | 0.0 | 5.0  | 15.0 | 2.9 | 16.7 | 14.4 | 1.6 | 0.7 | 2.5  | 1.2  | 3.8             |
| 9/30/2010           | 0.0 | 5.1  | 13.4 | 1.2 | 14.5 | 13.6 | 1.3 | 0.0 | 2.8  | 2.2  | 3.5             |
| 12/22/2010          | 0.0 | 5.0  | 12.0 | 0.0 | 11.5 | 13.7 | 0.0 | 0.0 | 3.2  | 2.0  | 3.5             |
| 3/30/2011           | 0.0 | 5.0  | 12.8 | 0.0 | 13.1 | 14.5 | 1.1 | 0.0 | 2.7  | 2.4  | 3.5             |
| 6/29/2011           | 0.0 | 5.1  | 16.8 | 3.1 | 15.9 | 14.4 | 1.1 | 0.0 | 3.3  | 3.9  | 3.5             |
| 9/28/2011           | 0.0 | 5.2  | 13.9 | 1.7 | 14.3 | 13.9 | 1.2 | 0.0 | 4.1  | 2.9  | 3.0             |
| 12/21/2011          | 0.0 | 5.3  | 12.0 | 0.7 | 12.9 | 13.6 | 1.1 | 0.0 | 4.1  | 2.8  | 3.0             |
| 3/23/2012           | 0.0 | 5.2  | 10.9 | 0.9 | 12.2 | 13.7 | 1.0 | 0.0 | 3.5  | 2.7  | 3.3             |
| 5/4/2012            | 0.0 | 5.1  | 11.0 | 2.2 | 12.8 | 14.1 | 1.0 | 0.0 | 3.4  | 2.6  | 3.0             |
| 9/19/2012           | 0.0 | 5.1  | 11.2 | 0.4 | 12.3 | 11.8 | 0.8 | 0.0 | 4.1  | 2.6  | 2.0             |
| 11/2/2012           | 0.0 | 5.1  | 10.9 | 0.0 | 11.7 | 11.5 | 0.0 | 0.0 | 1.9  | 2.6  | 1.0             |
| 3/8/2013            | 0.0 | 4.6  | 9.9  | 0.0 | 10.3 | 10.7 | 0.4 | 0.0 | 2.7  | 2.6  | 1.2             |
| 5/7/2013            | 0.1 | 5.3  | 15.0 | 2.9 | 17.5 | 14.4 | 0.3 | 1.9 | 2.1  | 3.2  | 2.0             |
| 9/13/2013           | 0.0 | 5.4  | 13.9 | 2.1 | 14.9 | 12.9 | 1.3 | 0.0 | 2.5  | 2.7  | 1.8             |
| 11/14/2013          | 0.0 | 5.4  | 13.9 | 2.1 | 14.9 | 12.9 | 1.3 | 0.0 | 2.5  | 2.7  | 1.8             |
| 3/21/2014           | 0.0 | 5.3  | 10.3 | 0.0 | 11.7 | 11.8 | 1.0 | 0.0 | 2.3  | 1.9  | 2.5             |
| 5/19/2014           | 0.0 | 5.5  | 11.0 | 2.8 | 14.2 | 14.4 | 1.2 | 0.0 | 1.8  | 2.8  | 2.3             |
| 9/19/2014           | 0.1 | 5.7  | 14.8 | 2.7 | 16.4 | 14.2 | 1.7 | 0.0 | 2.5  | 1.6  | 2.9             |
| 11/7/2014           | 0.3 | 5.7  | 13.7 | 2.2 | 15.3 | 14.0 | 2.0 | 0.0 | 3.0  | 2.6  | 2.8             |
| 3/20/2015           | 0.0 | 5.8  | 12.1 | 0.5 | 13.7 | 14.1 | 1.2 | 0.0 | 2.9  | 2.7  | 2.8             |
| 5/1/2015            | 0.0 | 5.9  | 17.4 | 2.8 | 17.7 | 14.6 | 1.1 | 0.0 | 2.3  | 4.1  | 2.7             |
| 9/17/2015           | 0.0 | 6.2  | 14.3 | 2.4 | 16.1 | 14.5 | 1.2 | 0.0 | 5.1  | 4.6  | 3.3             |
| 11/9/2015           | 0.0 | 6.0  | 12.9 | 1.3 | 14.4 | 12.9 | 1.4 | 0.0 | 4.6  | 3.8  | 4.0             |
| 3/29/2016           | 0.0 | 6.4  | 18.0 | 2.9 | 18.5 | 14.5 | 1.2 | 2.4 | 7.8  | 7.9  | 4.1             |
| 5/16/2016           | 0.0 | 6.7  | 17.7 | 3.0 | 15.1 | 14.2 | 1.1 | 2.1 | 8.2  | 7.9  | 4.2             |
| 9/20/2016           | 0.4 | 6.9  | 12.8 | 2.6 | 16.1 | 14.7 | 1.1 | 0.0 | 7.7  | 7.1  | 4.0             |
| 11/3/2016           | 0.9 | 6.9  | 15.2 | 2.5 | 16.2 | 14.6 | 1.3 | 0.0 | 7.9  | 6.4  | 4.2             |
| 3/22/2017           | 0.8 | 6.6  | 18.1 | 2.8 | 16.7 | 14.5 | 1.0 | 0.0 | 9.9  | 8.3  | 4.6             |
| 5/11/2017           | 0.8 | 6.9  | 18.3 | 1.8 | 17.0 | 14.6 | 1.0 | 0.0 | 11.1 | 8.6  | 4.7             |
| 9/13/2017           | 0.5 | 6.9  | 13.6 | 1.9 | 14.9 | 14.5 | 1.1 | 0.0 | 11.4 | 7.7  | 3.9             |
| 11/3/2017           | 0.7 | 6.8  | 13.0 | 1.9 | 14.7 | 14.2 | 1.2 | 0.0 | 11.1 | 6.6  | 4.1             |
| 3/29/2018           | 0.8 | 7.0  | 10.4 | 0.0 | 12.7 | 12.3 | 1.6 | 0.0 | 12.1 | 4.8  | 3.2             |
| 5/16/2018           | 1.1 | 7.5  | 10.8 | 2.4 | 15.0 | 14.4 | 1.8 | 0.0 | 12.2 | 5.7  | 3.1             |
| 9/27/2018           | 0.9 | 7.5  | 12.1 | 0.7 | 13.1 | 12.0 | 1.2 | 0.0 | 12.7 | 5.2  | 2.3             |
| 11/15/2018          | 0.3 | 7.4  | 11.7 | 0.1 | 13.0 | 11.6 | 1.4 | 0.0 | 12.9 | 5.2  | 2.1             |
| 3/27/2019           | 0.8 | 6.7  | 12.0 | 0.2 | 14.0 | 12.3 | 1.1 | 0.0 | 12.0 | 7.5  | 5.3             |
| 5/10/2019           | 0.0 | 6.9  | 13.9 | 2.9 | 16.5 | 14.4 | 1.8 | 0.0 | 12.4 | 8.7  | 5.5             |
| 9/24/2019           | 0.6 | 7.2  | 13.5 | 1.2 | 15.1 | 14.5 | 1.5 | 0.0 | 13.3 | 9.1  | 5.0             |
| 11/6/2019           | 1.9 | 7.2  | 14.3 | 1.7 | 15.6 | 14.4 | 1.6 | 0.0 | 13.3 | 8.3  | 5.0             |

**Historical Leachate Levels  
Kossuth County Sanitary Landfill**

| Monitoring Location | KL1 | KL2 | KL3  | KL4 | KL5  | KL6  | KL7 | KL8 | KL9  | KL10 | Leachate Lagoon |
|---------------------|-----|-----|------|-----|------|------|-----|-----|------|------|-----------------|
| 3/29/2020           | 0.8 | 7.0 | 10.4 | 0.0 | 12.7 | 12.3 | 1.6 | 0.0 | 12.1 | 4.8  | 3.2             |
| 5/16/2020           | 1.1 | 7.5 | 10.8 | 2.4 | 15.0 | 14.4 | 1.8 | 0.0 | 12.2 | 5.7  | 3.1             |
| 9/27/2020           | 0.9 | 7.5 | 12.1 | 0.7 | 13.1 | 12.0 | 1.2 | 0.0 | 12.7 | 5.2  | 2.3             |
| 11/15/2020          | 0.3 | 7.4 | 11.7 | 0.1 | 13.0 | 11.6 | 1.4 | 0.0 | 12.9 | 5.2  | 2.1             |
| 3/30/2021           | NA  | 7.0 | 10.4 | 2.5 | 12.2 | 13.4 | 1.2 | 0.0 | 12.8 | 5.8  | 3.5             |
| 4/21/2021           | 0.5 | 7.5 | 10.8 | 1.5 | 12.8 | 13.8 | 1.6 | 0.0 | 12.6 | 5.2  | 3.2             |
| 10/5/2021           | 0.6 | 7.5 | 12.1 | 2.3 | 15.4 | 14.1 | 1.5 | 0.0 | 12.4 | 5.2  | 3.0             |
| 11/3/2021           | 0.8 | 7.4 | 11.7 | 1.9 | 14.5 | 13.1 | 1.7 | 0.0 | 12.6 | 5.2  | 3.0             |
| 3/29/2022           | 0.8 | 7.0 | 10.4 | 0.0 | 12.7 | 12.3 | 1.6 | 0.0 | 12.1 | 4.8  | 3.2             |
| 5/16/2022           | 1.1 | 7.5 | 10.8 | 2.4 | 15.0 | 14.4 | 1.8 | 0.0 | 12.2 | 5.7  | 3.1             |
| 9/27/2022           | 0.9 | 7.5 | 12.1 | 0.7 | 13.1 | 12.0 | 1.2 | 0.0 | 12.7 | 5.2  | 2.3             |
| 11/15/2022          | 0.3 | 7.4 | 11.7 | 0.1 | 13.0 | 11.6 | 1.4 | 0.0 | 12.9 | 5.2  | 2.1             |
| 3/29/2023           | 0.8 | 7.2 | 10.3 | 0.0 | 13.6 | 13.9 | 1.8 | 1.8 | 12.3 | 4.4  | 3.0             |
| 5/23/2023           | 0.9 | 7.4 | 11.3 | 2.9 | 16.0 | 14.6 | 1.7 | 2.1 | 12.4 | 5.0  | 3.0             |
| 3/5/2024            | 0.9 | 7.2 | 10.0 | 0.0 | 11.1 | 10.7 | 1.1 | 0.0 | 12.6 | 0.0  | 2.7             |
| 5/21/2024           | 0.8 | 8.8 | 13.9 | 2.9 | 17.7 | 14.7 | 2.1 | 2.4 | 13.5 | 5.2  | 3.5             |
| 9/12/2024           | 0.5 | 7.8 | 13.7 | 2.4 | 15.0 | 0.0  | 2.0 | 0.0 | 13.0 | 4.7  | 3.3             |
| 11/6/2024           | 0.0 | 7.7 | 13.5 | 0.0 | 0.0  | 11.8 | 1.8 | 0.0 | 12.0 | 0.0  | 3.2             |

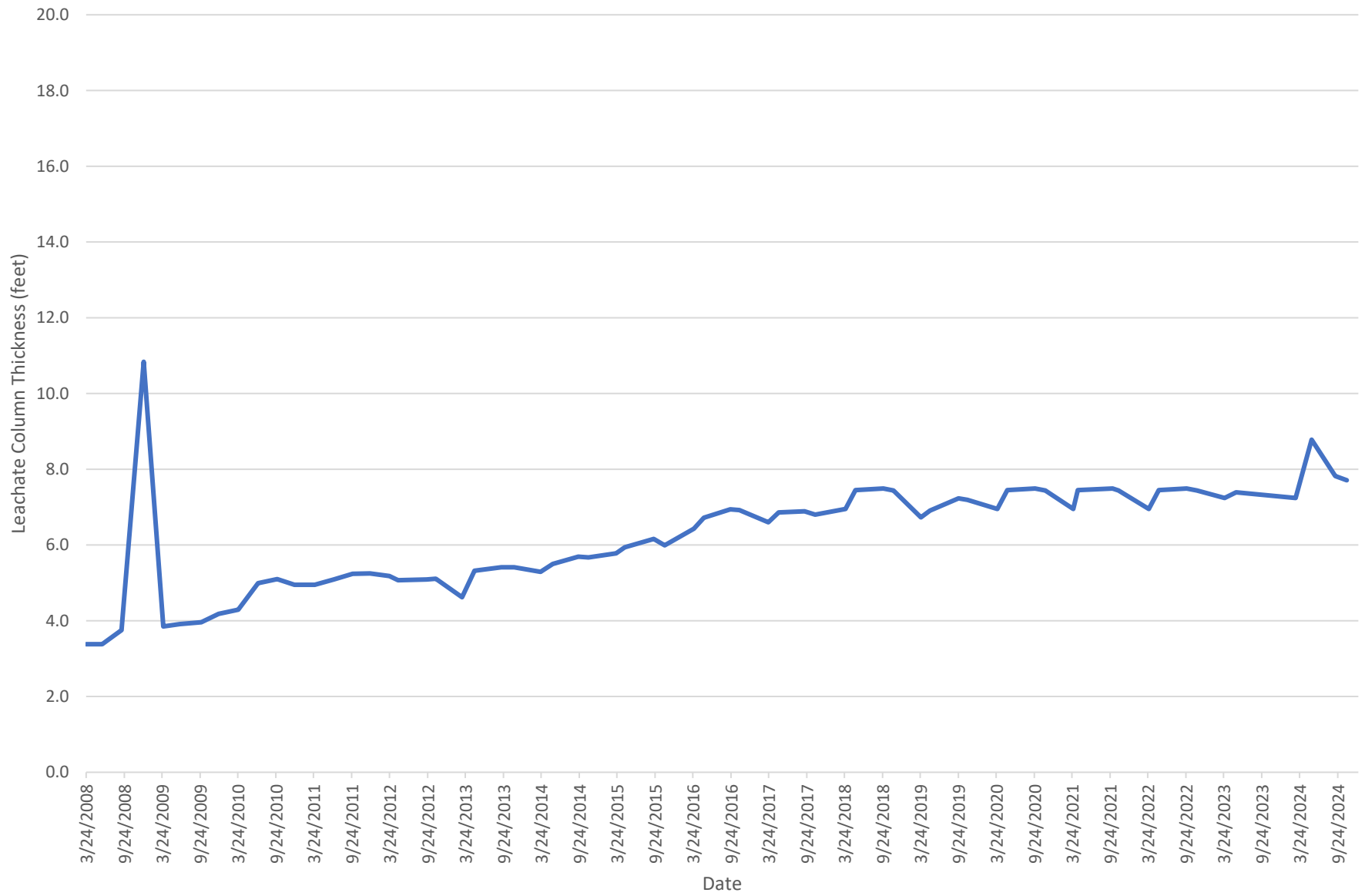
NA - Not available.

# Historical Leachate Thickness KL-1

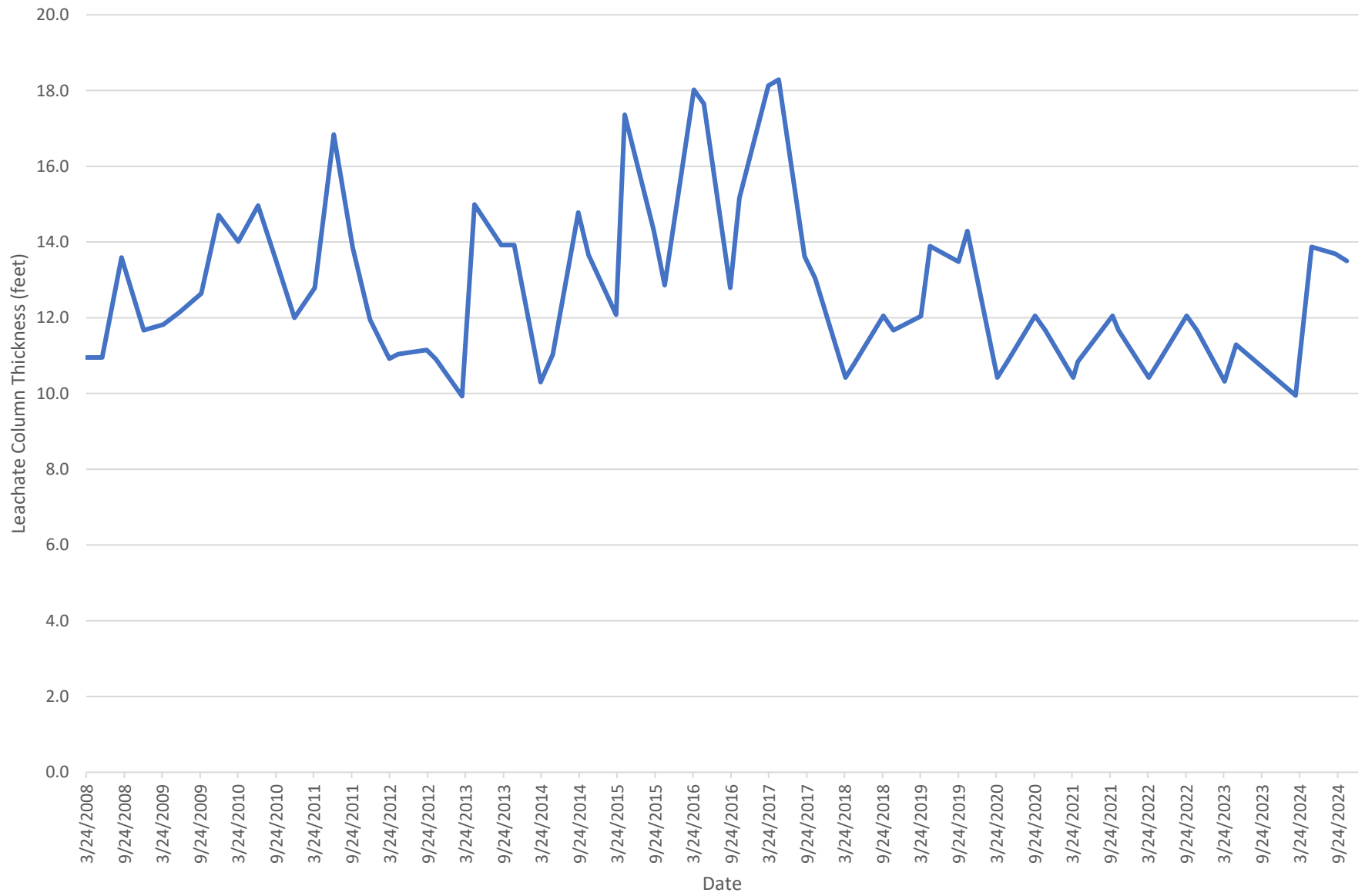




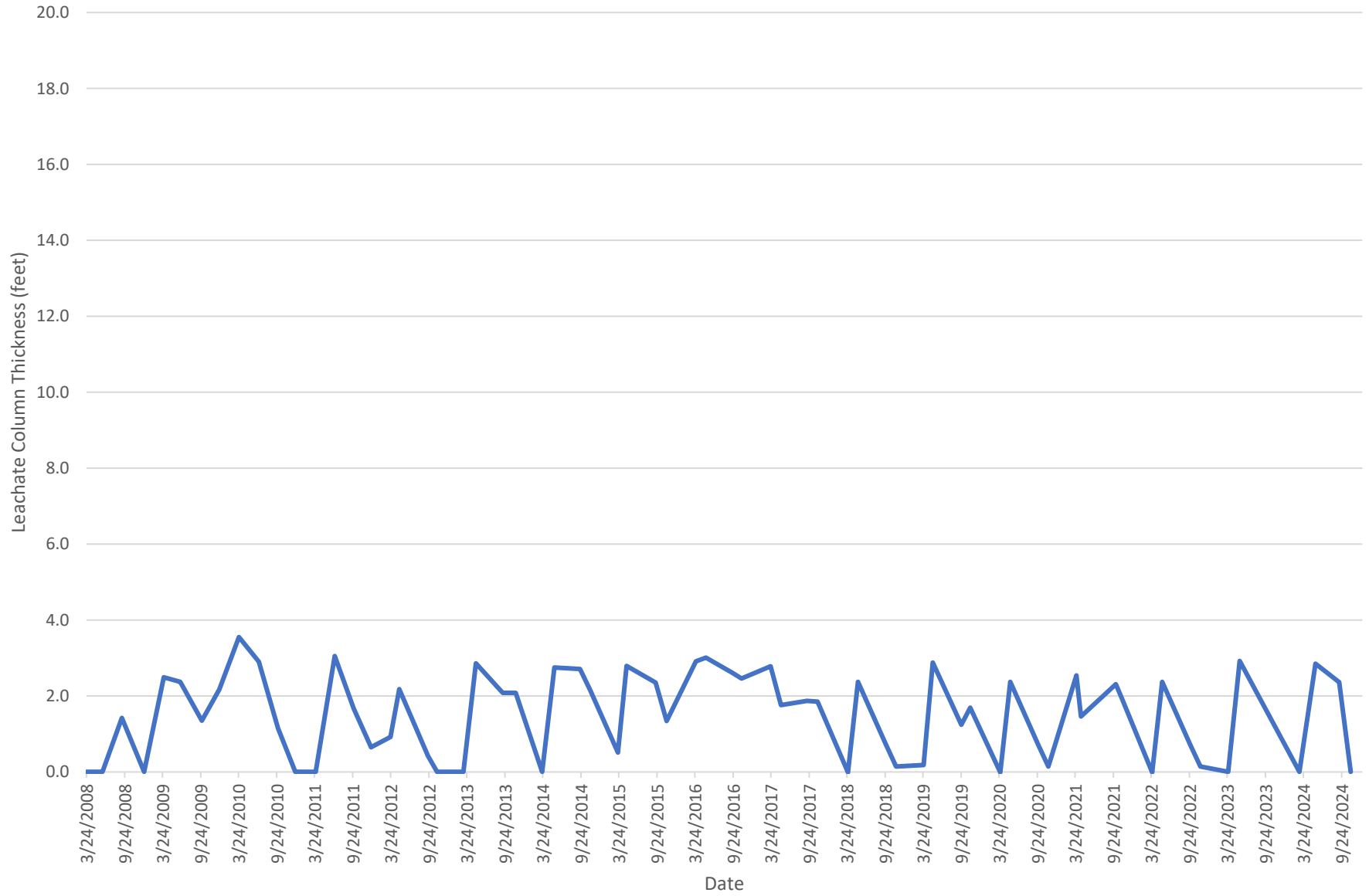
# Historical Leachate Thickness KL-2



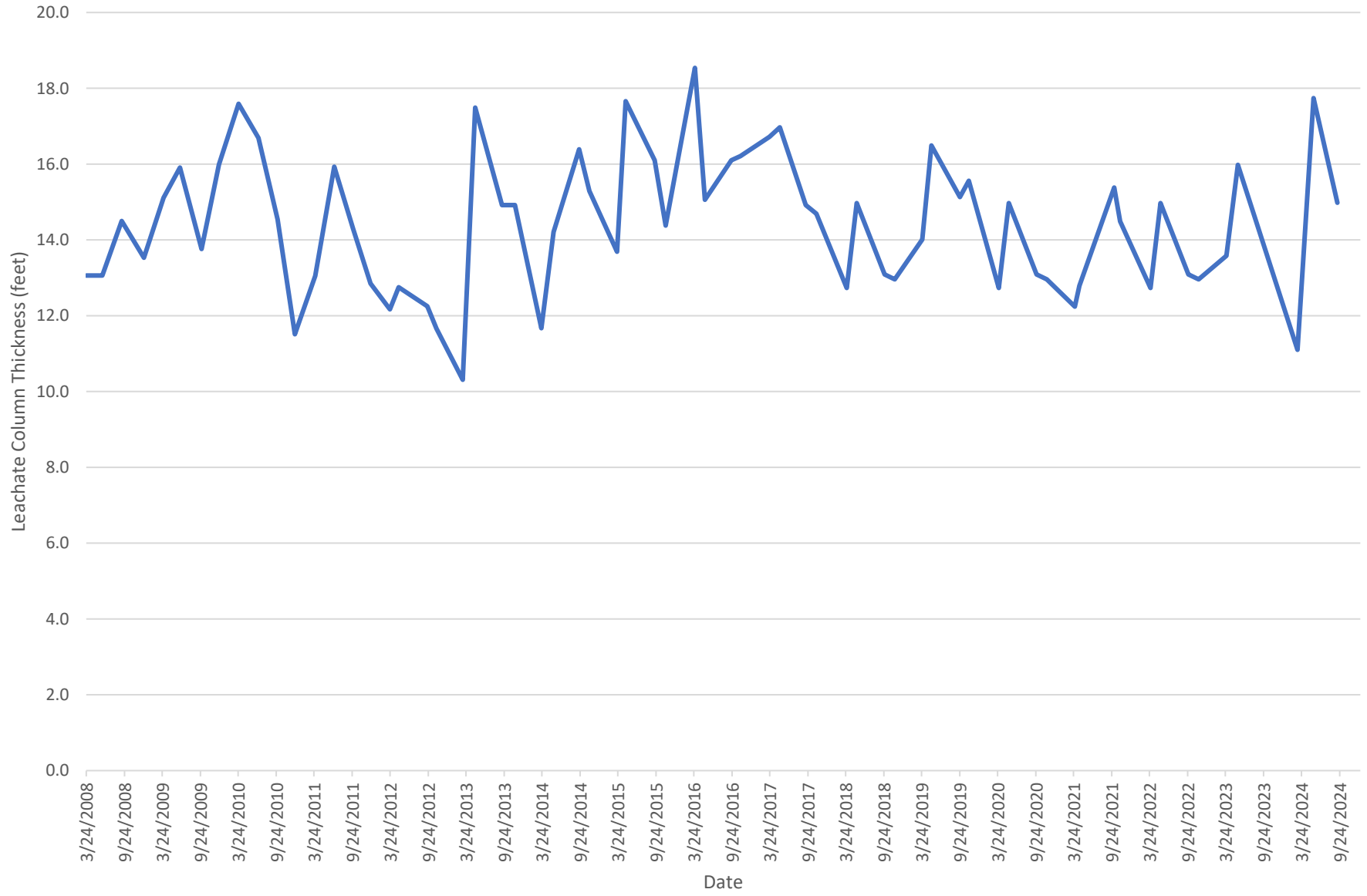
# Historical Leachate Thickness KL-3



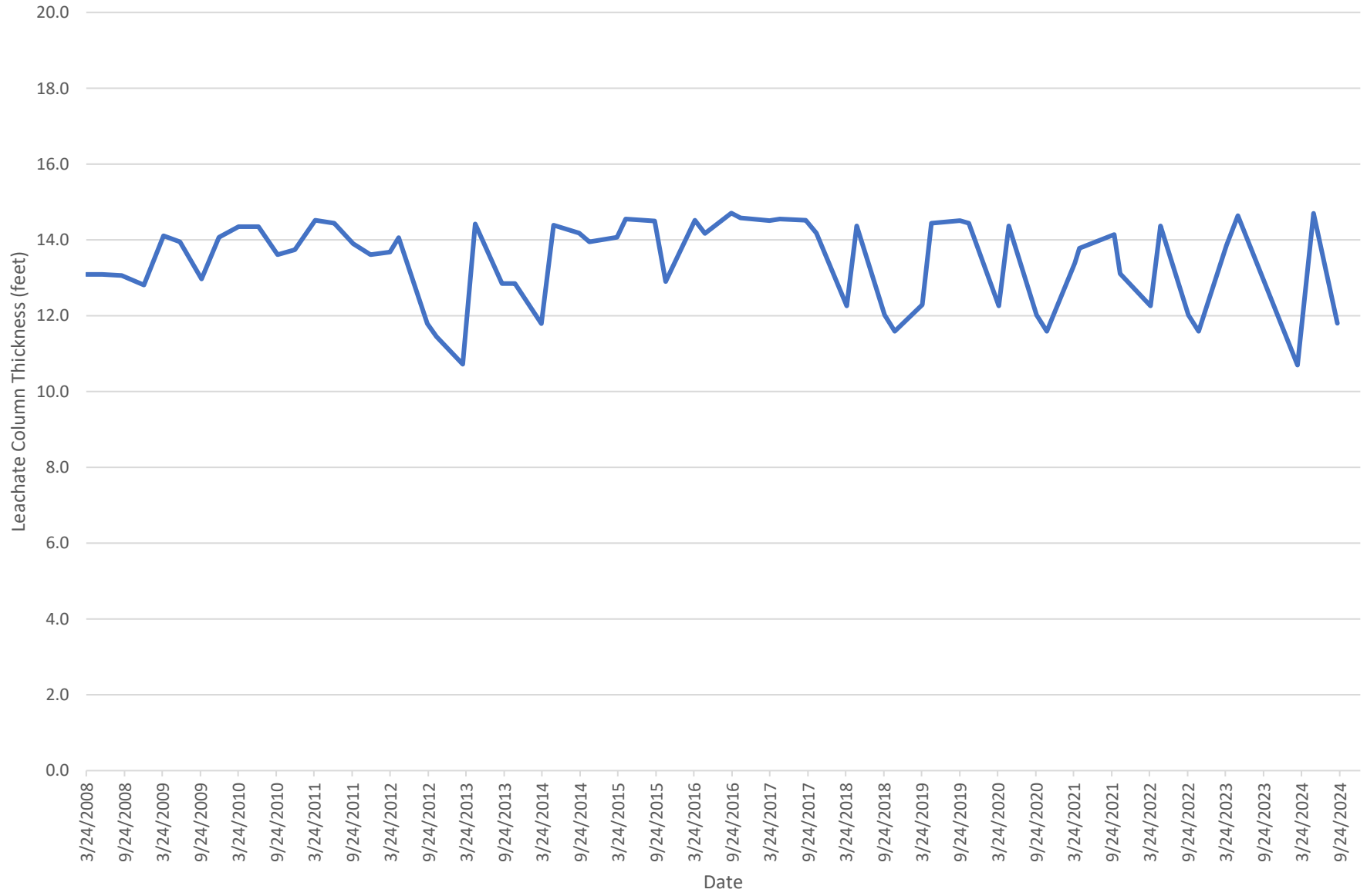
# Historical Leachate Thickness KL-4



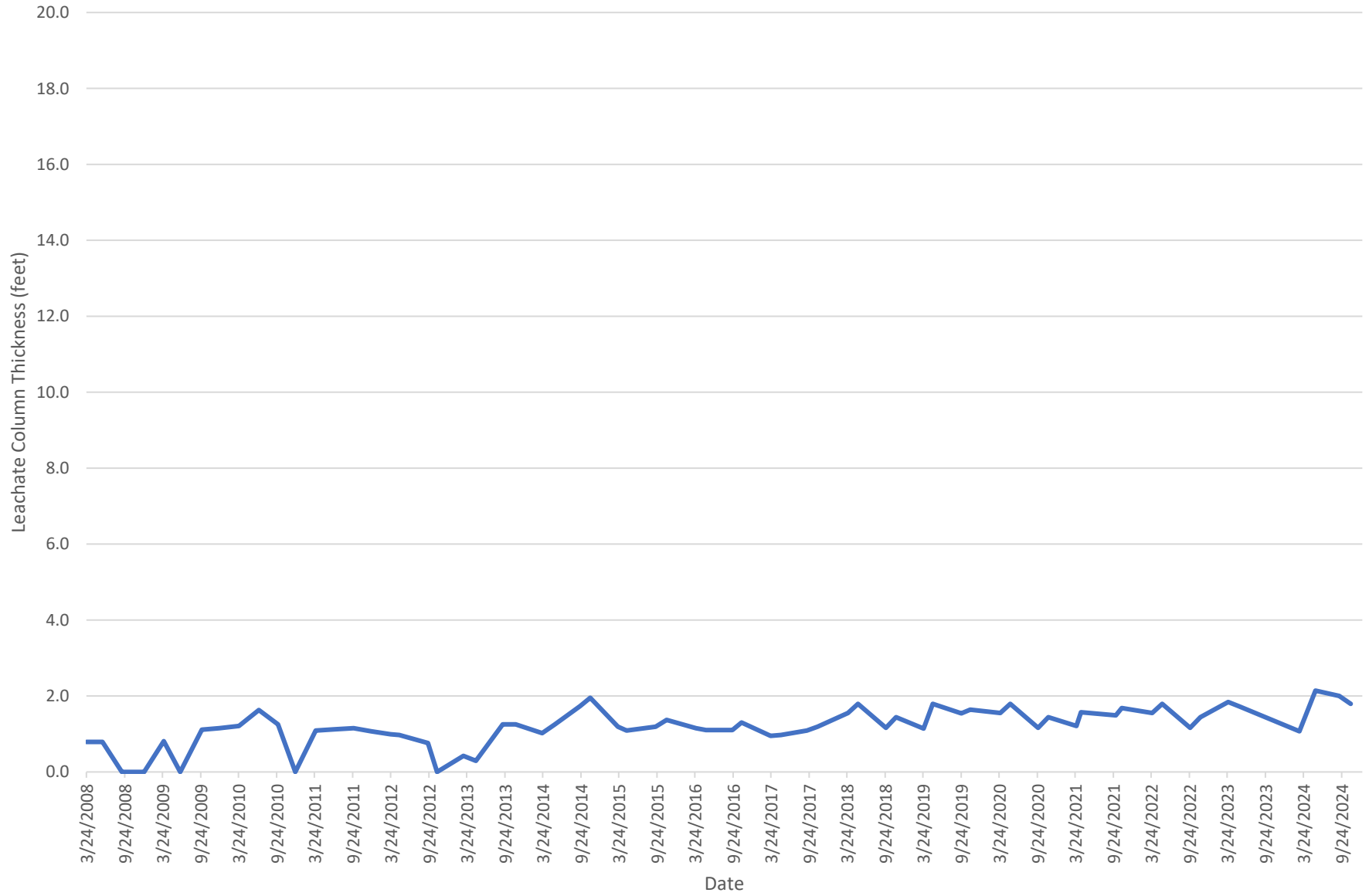
# Historical Leachate Thickness KL-5



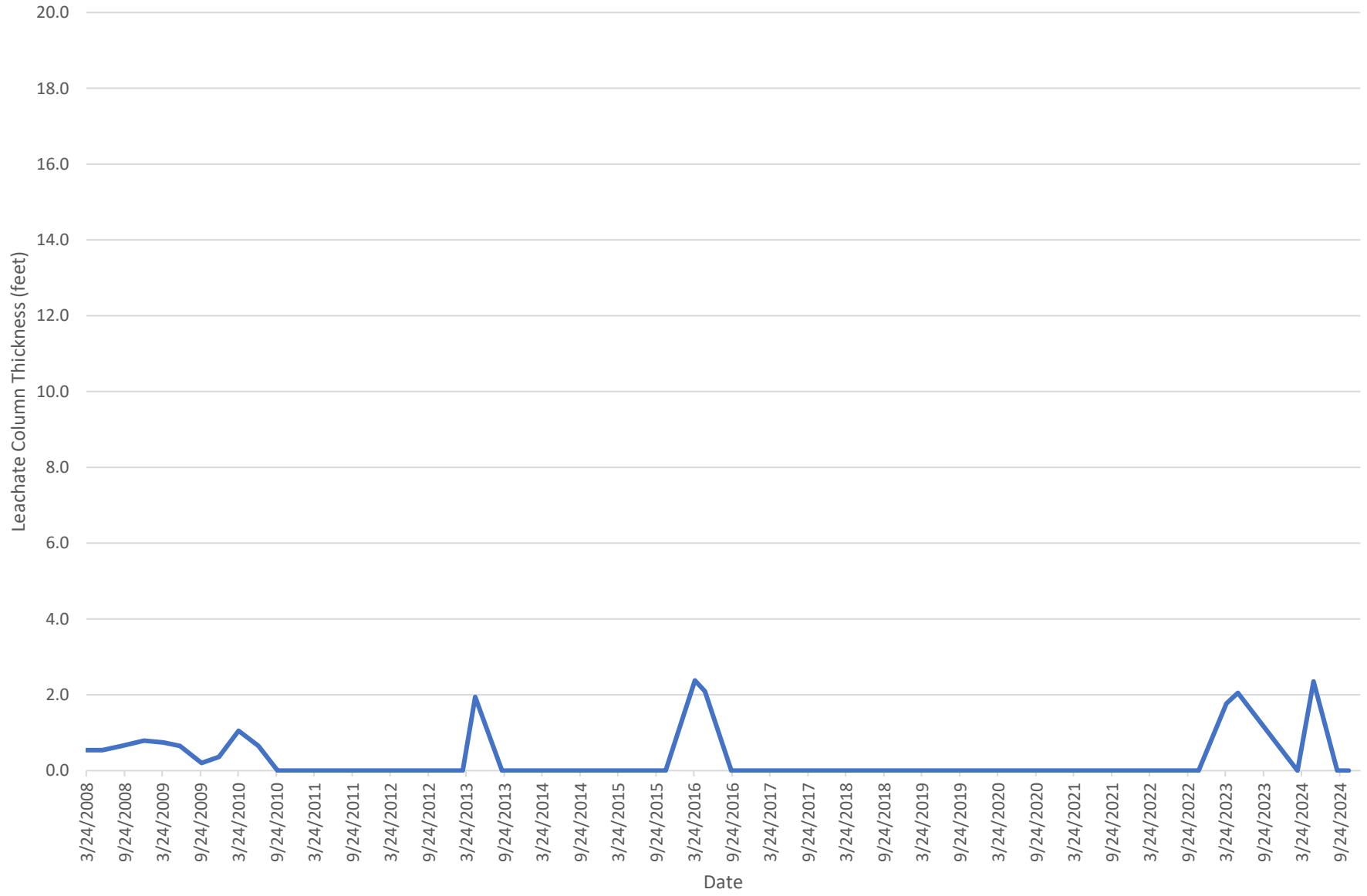
# Historical Leachate Thickness KL-6



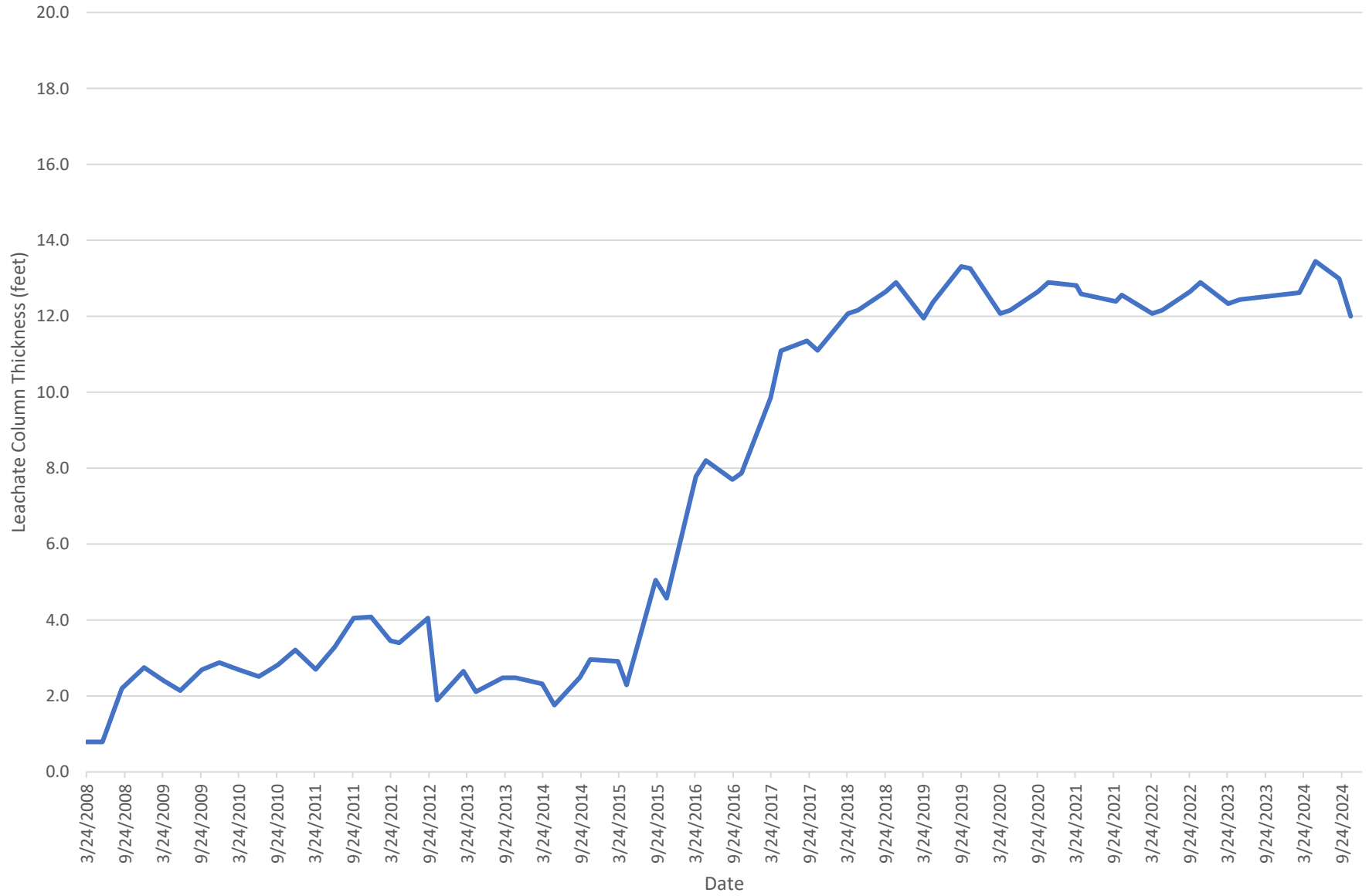
# Historical Leachate Thickness KL-7



# Historical Leachate Thickness KL-8

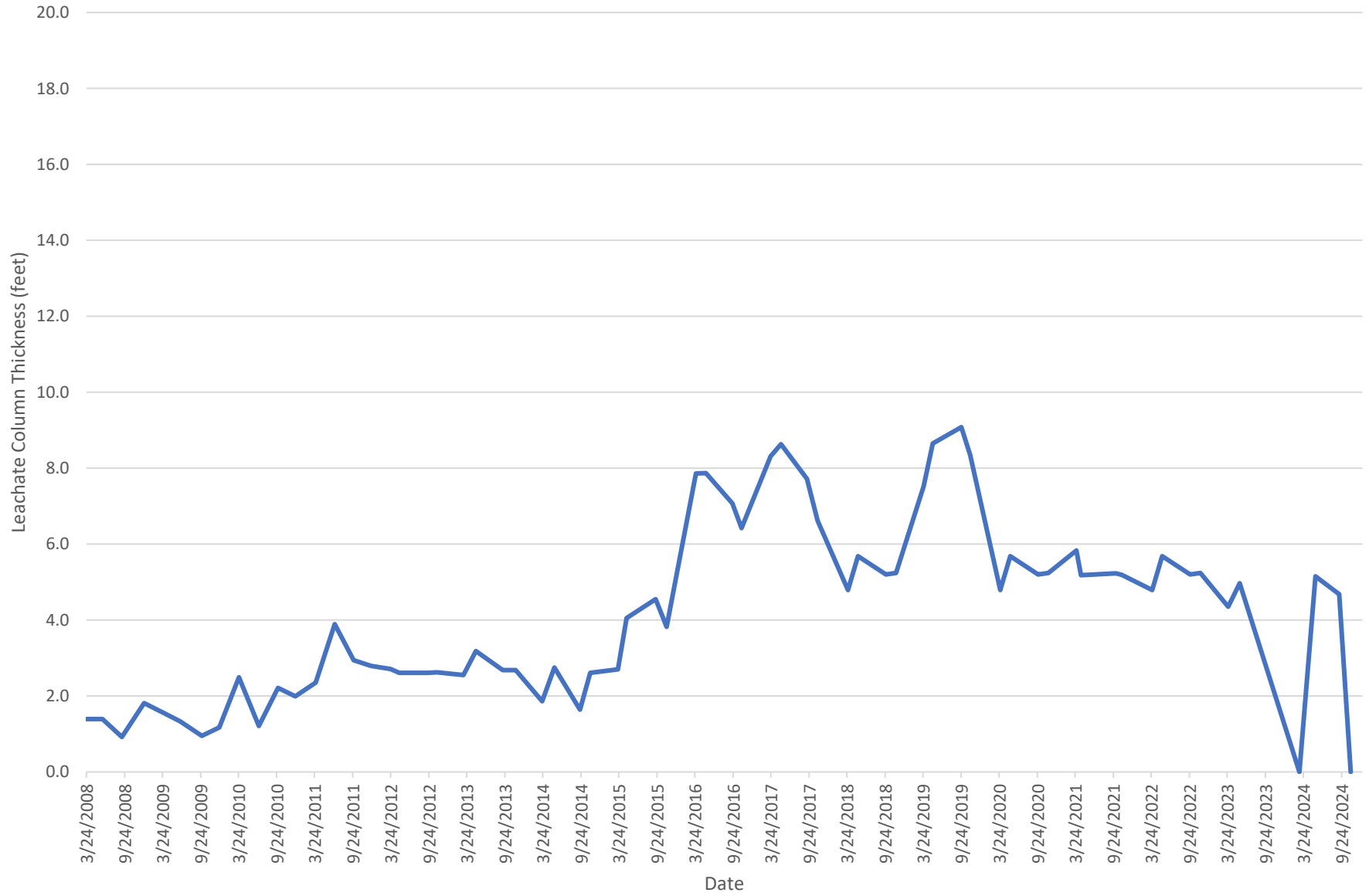


# Historical Leachate Thickness KL-9

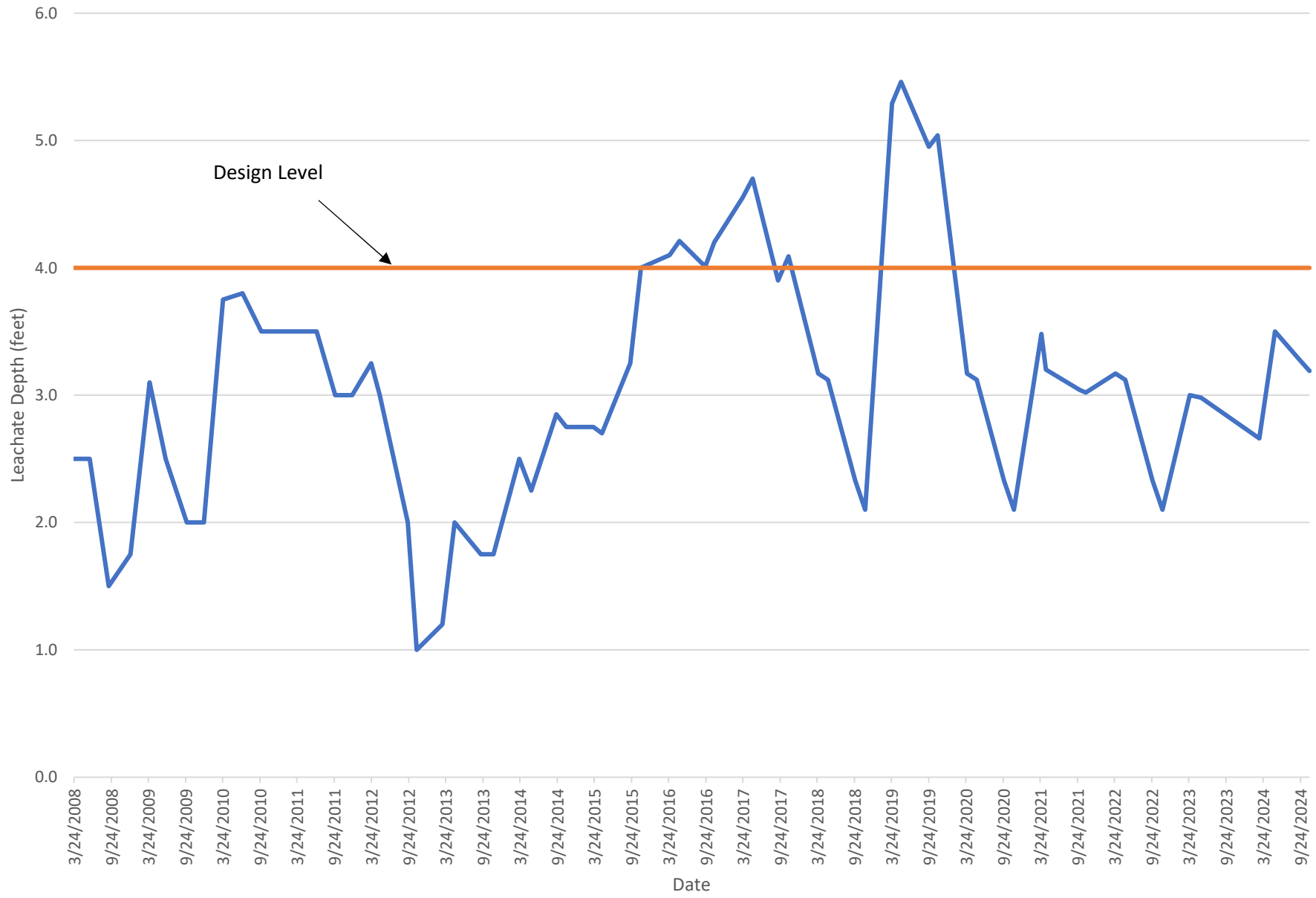




# Historical Leachate Thickness KL-10



# Historical Leachate Lagoon Depth



**Appendix F**  
**2024 Landfill Gas Annual Report**

**Table 12**  
**Gas Monitoring Summary**  
**2024 Gas Monitoring Report**  
**Kossuth County Sanitary Landfill**  
**Permit No. 55-SDP-01-75C**

| Monitoring Points      |                     |   | Methane Results (% LEL) |        |             |              |               |           |        |             |              |               |
|------------------------|---------------------|---|-------------------------|--------|-------------|--------------|---------------|-----------|--------|-------------|--------------|---------------|
| Name                   | Type                | Description   | 3/5/2024                | S(Y/N) | Inside Well | Outside Well | Site Boundary | 5/22/2024 | S(Y/N) | Inside Well | Outside Well | Site Boundary |
| #1. Office             | Indoor              | Inside Office   | 0                       |        |             |              |               | 0         |        |             |              |               |
| #2. Recycling Building | Indoor              | Inside Recycling Building                                 | 0                       |        |             |              |               | 1         |        |             |              |               |
| #3. South Garage       | Indoor              | Inside South Garage                                       | 0                       |        |             |              |               | 0         |        |             |              |               |
| #4. Transfer Station   | Indoor              | Inside Transfer Statopm                                   | 0                       |        |             |              |               | 0         |        |             |              |               |
| #5. SW-1               | Subsurface          | Subsurface pin at property boundary near SW-1             |                         |        |             |              |               |           |        |             |              | 0             |
| #6. NE Corner          | Ambient             | Subsurface pin at property boundary near northeast corner |                         |        |             |              |               |           |        |             |              | 0             |
| #7. SW-2               | Subsurface          | Subsurface pin at property boundary near SW-2             |                         |        |             |              |               |           |        |             |              | 2             |
| #8. NW Corner          | Ambient             | Subsurface pin at property boundary near northwest corner |                         |        |             |              |               |           |        |             |              | 0             |
| #9. North Gas Vent     | Gas Extraction Tile | At north outlet   | 91*                     |        |             |              |               | 0         |        |             |              |               |
| #10. South Gas Vent    | Gas Extraction Tile | At south outlet   | 0                       |        |             |              |               | 0         |        |             |              |               |
| #11. MWPz-16A          | Monitoring Well     | Inside monitoring well or subsurface pin                  |                         |        |             |              |               | 0         | Y      | 0           | 0            |               |
| #12. MW-12             | Monitoring Well     | Inside monitoring well or subsurface pin                  |                         |        |             |              |               | 0         | Y      | 0           | 0            |               |
| #13. MW-19             | Monitoring Well     | Inside monitoring well or subsurface pin                  |                         |        |             |              |               | 0         | Y      | 0           |              |               |
| #14. MW-25             | Monitoring Well     | Inside monitoring well or subsurface pin                  |                         |        |             |              |               | 0         | N      | 0           | 0            |               |
| #15. MWPz-8A           | Monitoring Well     | Inside monitoring well or subsurface pin                  |                         |        |             |              |               | 0         | N      | 0           |              |               |
| #16. MW-23             | Monitoring Well     | Inside monitoring well or subsurface pin                  |                         |        |             |              |               | 0         | N      | 0           |              |               |
| #17. MW-22B            | Monitoring Well     | Inside monitoring well or subsurface pin                  | 5                       | N      | 0           | 0            |               | 0         | N      | 0           |              |               |
| #18. MW-28             | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           | 0            |               | 0         | N      | 0           |              |               |

| Monitoring Points      |                     |   | Methane Results (% LEL) |        |             |              |               |           |        |             |              |               |
|------------------------|---------------------|---|-------------------------|--------|-------------|--------------|---------------|-----------|--------|-------------|--------------|---------------|
| Name                   | Type                | Description   | 9/12/2024               | S(Y/N) | Inside Well | Outside Well | Site Boundary | 11/6/2024 | S(Y/N) | Inside Well | Outside Well | Site Boundary |
| #1. Office             | Indoor              | Inside Office   | 0                       |        |             |              |               | 0         |        |             |              |               |
| #2. Recycling Building | Indoor              | Inside Recycling Building                                 | 0                       |        |             |              |               | 0         |        |             |              |               |
| #3. South Garage       | Indoor              | Inside South Garage                                       | 0                       |        |             |              |               | 0         |        |             |              |               |
| #4. Transfer Station   | Indoor              | Inside Transfer Statopm                                   | 0                       |        |             |              |               | 0         |        |             |              |               |
| #5. SW-1               | Subsurface          | Subsurface pin at property boundary near SW-1             |                         |        |             |              | 0             |           |        |             |              |               |
| #6. NE Corner          | Ambient             | Subsurface pin at property boundary near northeast corner |                         |        |             |              | 0             |           |        |             |              |               |
| #7. SW-2               | Subsurface          | Subsurface pin at property boundary near SW-2             |                         |        |             |              | 1             |           |        |             |              |               |
| #8. NW Corner          | Ambient             | Subsurface pin at property boundary near northwest corner |                         |        |             |              | 0             |           |        |             |              |               |
| #9. North Gas Vent     | Gas Extraction Tile | At north outlet   | 15                      |        |             |              |               | 0         |        |             |              |               |
| #10. South Gas Vent    | Gas Extraction Tile | At south outlet   | 0                       |        |             |              |               | 0         |        |             |              |               |
| #11. MWPz-16A          | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | Y      | 0           | 0            |               |           |        |             |              |               |
| #12. MW-12             | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           |              |               |           |        |             |              |               |
| #13. MW-19             | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           |              |               |           |        |             |              |               |
| #14. MW-25             | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | Y      | 0           | 0            |               |           |        |             |              |               |
| #15. MWPz-8A           | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           |              |               |           |        |             |              |               |
| #16. MW-23             | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           |              |               |           |        |             |              |               |
| #17. MW-22B            | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           |              |               | 0         | N      | 0           |              |               |
| #18. MW-28             | Monitoring Well     | Inside monitoring well or subsurface pin                  | 0                       | N      | 0           |              |               | 0         | N      | 0           |              |               |

Notes:

S(Y/N) - Was screen submerged, yes or no or blank is non-applicable

\* - Following the monitoring of the gas vent, the field technician monitored at the property boundary to the west and at the road to the south. No methane was detected at these two points, so action levels at the property boundary were not exceeded.





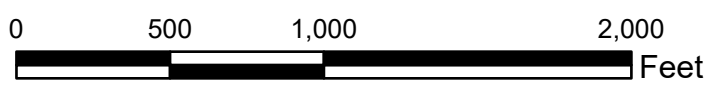
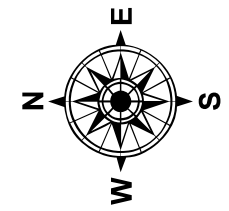
Date Saved: 2/17/2025 4:10 PM  
 User: bmadson  
 Path: C:\Users\bmadson\OneDrive - SCS Engineers\Desktop\GIS\MapDocs\Kossuth County Landfill\2025 AM\01\KossuthCounty2025



## Methane Monitoring Network

| Legend                   |                          |                               |
|--------------------------|--------------------------|-------------------------------|
| Methane Monitoring Point | Leachate Piezometer      | Waterway                      |
| Gas Vent                 | Monitoring Well          | Approximate Property Boundary |
| Gas Collection Tile      | Surface Monitoring Point | Approximate Waste Boundary    |

Kossuth County Sanitary Landfill  
 Burt, IA  
 Project No: 27223408.25  
 Drawing Date: February 2025



**Figure 1**



**Appendix G**  
**Standards History Graphs**

