

Davis R-12 Composite Soil Sampling Report

Henry County, Missouri



Prepared by
U.S. Environmental Protection Agency
Region 7
Lenexa, KS

July 2025

Report Reviewed and Approved By:

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1.0 Introduction

This document presents the findings of a soil sampling event conducted on or about June 23, 2025, by the United States Environmental Protection Agency (EPA) at the Davis R-12 School targeting specific heavy metals of concern. This investigation was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Water Infrastructure Improvements Act (WIIN) of 2016.

2.0 Site Information

2.1 Site Location

The Davis R-12 Elementary School is located at 6714 SW HWY T, Clinton, MO., 64735. The school is located southwest of Clinton, Missouri and northeast of Montrose, Missouri along SW Highway T, see Figure 1. The land use surrounding the school is predominately agricultural. Residential properties are located north and south of the school. Historic coal mining activities have occurred within Henry County, MO and evidence of surface mining activities is present northwest, west, and southwest of the school property within one mile. According to the Missouri Department of Natural Resources' (MDNR) Mine Inventory, historic surface mining was conducted northwest of the school by the Peabody Coal Company (MDNR, 2024).

2.2 Site Background

Three sampling events (September 2024, October 2024, and November 2024) were conducted by Triangle Environmental Science and Engineering Inc. on behalf of a concerned citizen living in Henry County, Missouri. These sampling events consisted of potable tap water, surface water, sediment, and soil sampling and indicated a concern for potential soil contamination at the school (Triangle, 2025). In January 2025, Occu-Tec, on behalf of Davis R-12, conducted an additional sampling event consisting of indoor surface wipe and soil sampling at the school. The Occu-Tec report concluded that additional soil sampling would be necessary to characterize the extent of potential hexavalent chromium soil contamination at the school (Occu-Tec, 2025). Following this sampling event, Sunbelt Environmental Service Inc. (Sunbelt), on behalf of Henry County Emergency Management, collected soil samples from the school and several roadside ditches and surface water samples from Montrose Lake, Deepwater Creek, and Truman Lake. The conclusions from Sunbelt's report indicated hexavalent chromium exceeded EPA's Regional Screening Levels in some soil samples collected from the school property (Sunbelt, 2025). The MDNR collected split soil samples during the Sunbelt investigation and selected four samples for laboratory analysis. The MDNR results are presented in their Abbreviated Sampling Report (MDNR, 2025b).

Based upon the previous investigations, the Quality Assurance Project Plan (QAPP) identified the following contaminants of potential concern (COPCs) for this project: arsenic, cobalt, total chromium, and hexavalent chromium. Lead was also evaluated since it is a prevalent residential soil contaminant across much of Missouri. All of the metals of concern are also naturally occurring. Although hexavalent chromium is often found as a result of anthropogenic processes, it can also be naturally occurring from the oxidation of trivalent chromium especially in soils or rock residuum containing oxides such as manganese oxide (Hausladen and Fendorf, 2017).

In January 2025, the Davis R-12 school closed due to concerns of potential contamination in a water well and potential onsite soil contamination. The school remained closed during the spring 2025 semester. The EPA was asked to conduct confirmatory sampling by Henry County Emergency Management and the Missouri Department of Natural Resources because of discrepancies in previous sampling results. The goal of this project is to collect additional soil data for laboratory analysis from the Davis R-12 school property. The laboratory analytical soil results have been compared to EPA's Removal Management Levels (RMLs) for residential soil (EPA, 2024b) which are the action levels authorized under CERCLA 104(a) for performing response actions. Additionally, these results were compared to the calculated background threshold values (BTVs) from United States Geological Survey's (USGS) Geochemical Soil Database (USGS, 2016) and data provided in the 2025 Sunbelt report. A Data Transmittal Letter was provided to the Davis R-12 school district with all EPA soil sampling analytical results on July 23, 2025.

3.0 Physical Setting

3.1 Land Use

The site consists of the yards and track located on the Davis R-12 school property. Students from kindergarten to eighth grade attend the school. According to the Missouri Department of Elementary and Secondary Education's (MDESE) 2025 Missouri School Statistics and Directory, the Davis R-12 school had 47 students enrolled for the 2024-2025 school year (MDESE, 2025). On the school property, there is large, paved play surface, two playgrounds with jungle gym equipment and lined with pea gravel, a grassy field with a gravel track, and a fenced off sewage lagoon. Based on conversations with the school's superintendent/principal, during recess time, students generally have access to the playgrounds, the paved play area, and the grassy field. The grassy areas on the eastern side of the property near SW Highway T are generally only accessed during student drop off and dismissal.

3.2 Soils

According to the United States Department of Agriculture's (USDA) web soil survey, the Hartwell silt loam of 0 to 1 and 1 to 3 percent slopes are the predominant soil series at the school property (USDA, 2019). The Hartwell silt loam is described as somewhat poorly drained, and soil slopes range from zero to 3 percent. A typical soil profile of the Hartwell silt loam is silt loam from zero to 14 inches below ground surface (bgs), clay from 14 to 28 inches bgs, and silty clay loam from 28 to 79 inches bgs (USDA, 2019).

4.0 Assessment Activities

4.1 Overview

A QAPP was developed for this project and approved by the EPA Region 7 Regional Quality Assurance Manager. Region 7 personnel mobilized to the school on June 23, 2025, to conduct the composite soil sampling activities. The composite soil sampling activities, described in the QAPP, generally followed the procedures outlined in Superfund's Lead-Contaminated Residential Sites Handbook (EPA, 2024a).

Each sampling unit was created to be approximately 10,000 square feet or less and 13 aliquots were collected from each sampling unit. The composite soil sampling event consisted of 14 sampling units (13 from yards and one composite sample from the track), one field duplicate, and one rinsate sample. Although EPA's Residential Lead Sites Handbook suggests a minimum of five aliquots, 13 were selected to provide a high level of confidence of coverage for sampling units.

The soil samples were submitted to the EPA Region 7 laboratory for metals analysis via EPA methods SW-846 6010/EPA 200.7 and an EPA contract laboratory for analysis of hexavalent chromium by EPA methods 3060/7199. A rinsate sample was also submitted to the EPA Region 7 laboratory for analysis via EPA methods 6020/200.8. A rinsate sample was not submitted for analysis for hexavalent chromium analysis due to the short hold time.

4.2 Soil Sample Collection

One composite soil sample was collected from each of the 14 sampling units located on the Davis R-12 school property. Each sampling unit (C-1 through C-13 and Track) was sub-sampled with 13 aliquots. One composite soil field duplicate was collected from sampling unit C-1. The approximate sampling unit boundaries and aliquot locations are depicted on Figures 2 and 3 of this report. EPA Region 7 personnel utilized stainless steel trowels to collect approximately 200 grams of surficial soil at each aliquot location from 0 to 1-inch below ground surface (bgs) and placed the soil in a polyethylene bag marked with sample date and time. After the completion of sampling within a sample unit, the field personnel decontaminated the stainless-steel trowels prior to collection of additional composite samples with Alconox® and rinsed with deionized water.

Once composite sampling activities were completed, the composite soil samples were returned to the EPA Region 7 laboratory for drying and sieving. The composite soil samples were placed in disposable aluminum pans and placed into drying ovens. Once samples were thoroughly dried, the samples were crushed via porcelain or glass pestles in the aluminum pans, then they were sieved to a number 100 sieve (150 micrometers) prior to being added to the sampling container. The composite soil samples submitted for hexavalent chromium analysis were not dried or sieved as the method requires the samples to be submitted field moist.

4.3 Development of Background Threshold Values

Background threshold values (BTV) were developed for COPCs based on data obtained from the USGS Geochemical Soil Database (USGS, 2016) and included in the Sunbelt report. The database was filtered to only include data from Henry County, MO. The data were then processed to remove non-COPCs, non-positive integers and data flagged by the USGS. Utilizing the EPA's ProUCL version 5.2 statistical software, the BTV for each COPC was calculated (EPA, 2022) using a 95% upper prediction limit (UPL) due to data distribution. The USGS Geochemical database does not include data for hexavalent chromium in Henry County, MO; therefore, a BTV for hexavalent chromium was not calculated and only the BTV for total chromium was calculated.

4.4 Deviations from the Quality Assurance Project Plan

The QAPP detailed usage of a measuring wheel to define the boundaries of each sampling unit based on a previous standard operating procedure. A project-specific application using ESRI ArcGIS Field Maps was developed and used for this project. The accuracy of the field maps ranged from \pm 6-15 feet. The project manager determined in the field this accuracy was effective for defining the boundaries for each sampling unit and approximate aliquot sampling locations.

5.0 Soil Analytical Results

Soil analytical results for COPCs were compared to the EPA RML values for residential soil, where established. Additionally, the soil analytical results for COPCs were compared to BTV calculated from the USGS geochemical soil database for Henry County, MO provided in the Sunbelt report. Fifteen soil samples were collected and submitted to the EPA Region 7 laboratory for total metals analysis and hexavalent chromium analysis. Table 1 and Figure 4 depict the results of the COPCs for this investigation. None of the COPCs were detected at concentrations exceeding their respective EPA RML values which are the action levels. None of the COPCs exceeded calculated BTVs which indicates all detections appear to be within naturally occurring potential background levels for this region in Missouri. The full laboratory analytical reports can be found in Appendix B of this report.

Table 1: Laboratory Soil Result Comparison to EPA Removal Management Levels and Background Threshold Values

Sampling Unit	Arsenic (mg/kg)	Cobalt (mg/kg)	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Lead (mg/kg)
C-1	2.51 J	3.24	11.7	ND > 1.0	11.0
C-2	3.14 J	3.35	13.0	ND > 0.95	11.8
C-3	2.61 J	2.63	12.4	1.0	10.7
C-4	2.84 J	5.63	16.0	ND > 0.86	14.5
C-5	2.84 J	3.96	14.3	ND > 0.91	12.3
C-6	3.04 J	3.65	12.6	ND > 0.84	12.6
C-7	3.00 J	3.24	11.7	ND > 0.99	12.4
C-8	2.83 J	5.58	16.0	ND > 0.96	18.3
C-9	3.61 J	4.28	12.0	ND > 0.88	27.2
C-10	2.19 J	3.78	10.1	ND > 0.92	12.7
C-11	2.29 J	2.80	9.72	ND > 1.0	11.5
C-12	2.17 J	4.56	12.2	0.21	11.8
C-13	2.06 J	2.82	11.8	ND > 0.98	14.2
Track	2.05 J	2.31	7.45	ND > 0.14	2.16 J
DUP*	2.54 J	3.72	12.1	ND > 0.20	11.2
EPA RML	35	23	N.E.	70	200
Calculated BTV	19	30	100	N.E.**	50

Notes: * DUP is a blind duplicate of C-1

** Hexavalent chromium results are not available in USGS Geochemical Database for Henry County, MO. Hexavalent chromium can be a naturally occurring form of chromium

The method for hexavalent chromium uses colorimetric analysis and slight changes in soil moisture or extraction can cause slight method detection limit variations as indicated in Table 2

ND > not detected above indicated method detection limit

J = detected result exceeds method detection limit but was below laboratory reporting limit.

mg/kg = milligrams per kilogram

N.E. = not established

RML = CERCLA Removal Management Level (Cancer Risk 1E-04; Target Hazard Quotient 1.0)

BTV = Background Threshold Value calculated in EPA's ProUCL version 5.2 software.

Distributions of BTV for arsenic, chromium, and cobalt did not follow a discernable distribution. Therefore, the nonparametric 95% upper prediction limit BTV value was used for Table 1. See Appendix E for the ProUCL BTV output

6.0 Quality Assurance and Quality Control

6.1 Laboratory Data Qualifiers

EPA Method 6020 (Metals & Minerals in Soil & Rinsate Blank)

Soil

Only "UJ" and "J" code qualifiers were applied by the laboratory for the soil results analyzed by this method. The "UJ" code in most cases represents results that were not found at or above the method detection limit (MDL). Antimony was also "UJ" coded in one sample (below method reporting limit [MRL]) due to low recovery of this analyte in the laboratory's matrix spike (MS) and matrix spike duplicate (MSD) quality assurance samples. The reporting limit for antimony may be higher than the value reported by the laboratory. Antimony was not designated as a COPC for this project in the QAPP and was not detected above reporting limits in any samples. Numerous results were also "J" coded because they were detected above the MDL but below the method reporting limit (MRL). "J" coded results are considered estimated concentrations. None of the "UJ" or "J" coded results are problematic for the purposes of this investigation. For the COPCs, none of the MRLs for soil analyzed via this method were above their respective RMLs. The MRLs for all COPCs were well below the action levels (RMLs).

Rinsate

Only "UJ" and "J" code qualifiers were applied by the laboratory for the rinsate results produced by this method. The "UJ" code represents results that were not found at or above the MDL. Aluminum and silver were also "UJ" coded in one sample due to low recovery in the laboratory's matrix spike and matrix spike duplicate quality assurance samples. Neither aluminum nor silver are considered COPCs in the QAPP for this project. The reporting limit for both analytes may be higher than the value reported by the laboratory. Numerous results were also "J" coded because they were detected above the MDL but below the MRL. "J" coded results are considered estimated concentrations. None of the "UJ" or "J" coded results are problematic for the purposes of this investigation. None of the COPCs were detected above the MRL in the single rinsate sample that was collected for the project. Zinc, calcium, magnesium, potassium, and sodium were all detected at relatively low concentrations (near their MRLs) in the rinsate blank, but there is no reason to consider these detections concerning as they are not project COPCs.

EPA Method 3060, Hexavalent Chromium (Cr(VI)) in Soil:

Soil

There were no data quality flags assigned to any of the results from this analytical method. Two results (C-3 and C-12) were reported as a detection, but the results were equal to the MDL for these samples. These results are not indicative of a usability issue. All the method reporting limits for samples analyzed via this method were below the hexavalent chromium residential soil RML.

6.2 Blind Field Duplicates

The QAPP set a relative percent difference (RPD) goal of $\pm 30\%$ for COPCs for this project. The RPD was calculated using the formula below. All the compounds that were detected in both the primary (C1) and duplicate sample (DUP) were well below the 30% RPD threshold established in the QAPP. Table 2 depicts the calculated RPD values for the COPCs. No COPCs exceeded $\pm 30\%$ goal for RPD for this investigation.

$$RPD = \frac{|R_1 - R_2|}{\frac{R_1 + R_2}{2}} * 100$$

All the compounds that were detected in both the primary (C1) and duplicate sample were well below the 30% RPD threshold established in the QAPP. Two compounds, selenium and thallium, were detected either in the primary sample or the duplicate, but not in both. For both analytes the detected value was “J” coded as being between the MDL and the MRL, or in other words, they were very low concentrations. All other compounds were non-detect in both the primary and duplicate samples. Corrective action for these data is not required based upon the calculated RPD values.

Table 2: Relative Percent Difference for Contaminants of Potential Concern

Sampling Unit	Arsenic (mg/kg)	Cobalt (mg/kg)	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Lead (mg/kg)
C-1	2.51 J	3.24	11.7	ND > 1.0	11.0
DUP*	2.54 J	3.72	12.1	ND > 0.20	11.2
RPD	1.19 %	13.79 %	3.36 %	N.A.	1.80%

Notes: * DUP is a blind duplicate of C-1

ND > ## = not detected above method detection limit

J = detected result exceeds method detection limit but was below laboratory reporting limit.

mg/kg = milligrams per kilogram

N.A. = not applicable

6.3 Rinsate

The QAPP required one rinsate sample be collected per day and the analytical results be below laboratory reporting limits. The rinsate sample was collected on June 23, 2025, after decontamination of the sampling equipment utilized at sampling unit C-1.

The laboratory results indicate that COPCs were not detected above laboratory MDL for COPCs in the rinsate sample. Zinc, calcium, magnesium, potassium, and sodium were all detected above laboratory MDL but below laboratory reporting limits and were qualified with “J” codes. Since COPCs were not detected above laboratory MDLs in the rinsate sample, the decontamination efforts were effective, cross-contamination is not suspected, and corrective action is not required. Based upon this review, the rinsate quality control goals established in the QAPP have been achieved.

6.4 Completeness

The QAPP established a completeness goal of 90%. At least 70% of the sampling locations must be sampled and valid data reported for 90% of the samples. A review of the laboratory data package indicates that the reported arsenic concentrations for this sampling event were “J” coded as described above. However, “J” coded values do not impact the usability of the data and thus are considered valid for the purposes described in the QAPP.

One hundred percent of the sampling units and 100% of the aliquots were sampled. One hundred percent of the data for the COPCs are valid for this project. Based upon this review the completeness goal for this project stated in the QAPP has been met.

6.5 Data Usability Determination

Based upon this review of the quality assurance and quality control data, all analytical data appear to be usable for the purposes stated in the QAPP for this project for comparison with RMLs and BTVs.

7.0 Conclusions

One composite soil sample was collected from each of the 14 sampling units at the Davis R-12 School located in Henry County, MO. Arsenic, cobalt, total chromium, and hexavalent chromium were the primary COPCs based upon previous investigations conducted at the school and surrounding areas. Lead was also evaluated since lead is a prevalent soil contaminant in Missouri. The purpose of this investigation was to determine if soil samples exceeded EPA RMLs/action levels and/or BTVs. Based on the laboratory analytical results, COPCs were not detected in exceedance of their respective EPA RML/action levels or calculated BTV values.

Section 104(a)(3)(A) of the Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA) establishes a limitation on response for naturally occurring substances in unaltered form or altered solely through naturally occurring processes. Since no BTVs were exceeded, it appears that all concentrations of COPCs are within what would be expected for naturally occurring background concentrations in this area of Missouri and the CERCLA limitations on response would apply based on the EPA sample results from the Davis R-12 School. No evidence of disposal of any kind of solid or hazardous waste as defined in Section 1004(3) was observed in any of the samples, and thus no basis was identified for additional actions pursuant to RCRA.

8.0 References

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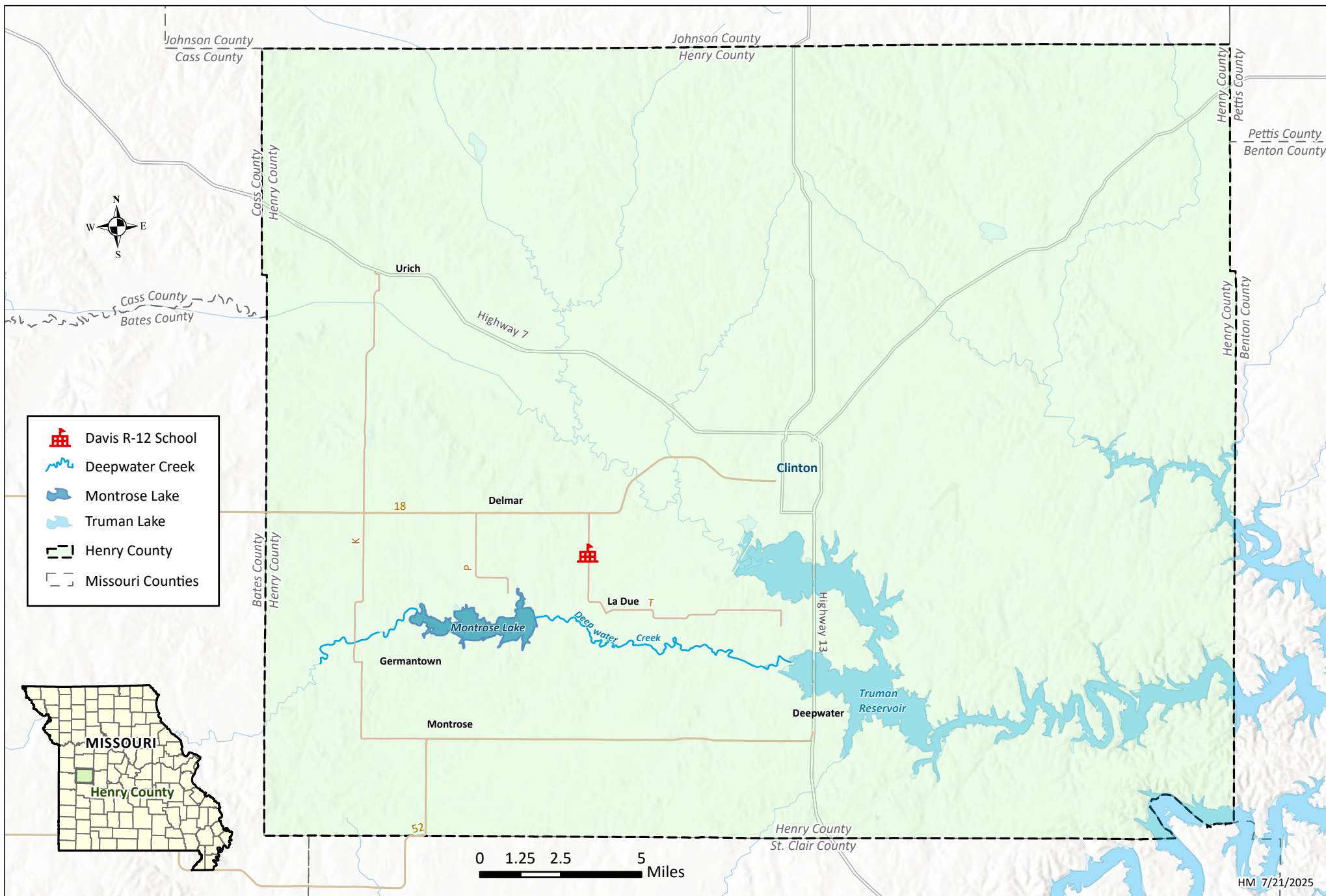
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The Environmental Protection Agency does not guarantee the accuracy, completeness, or timeliness of the information shown, and shall not be liable for any injury or loss resulting from reliance upon the information shown.

Figure 1. Site Map for Davis R-12 School Sampling Project, Henry County, Missouri

Figure 2: Approximate Soil Aliquot Locations

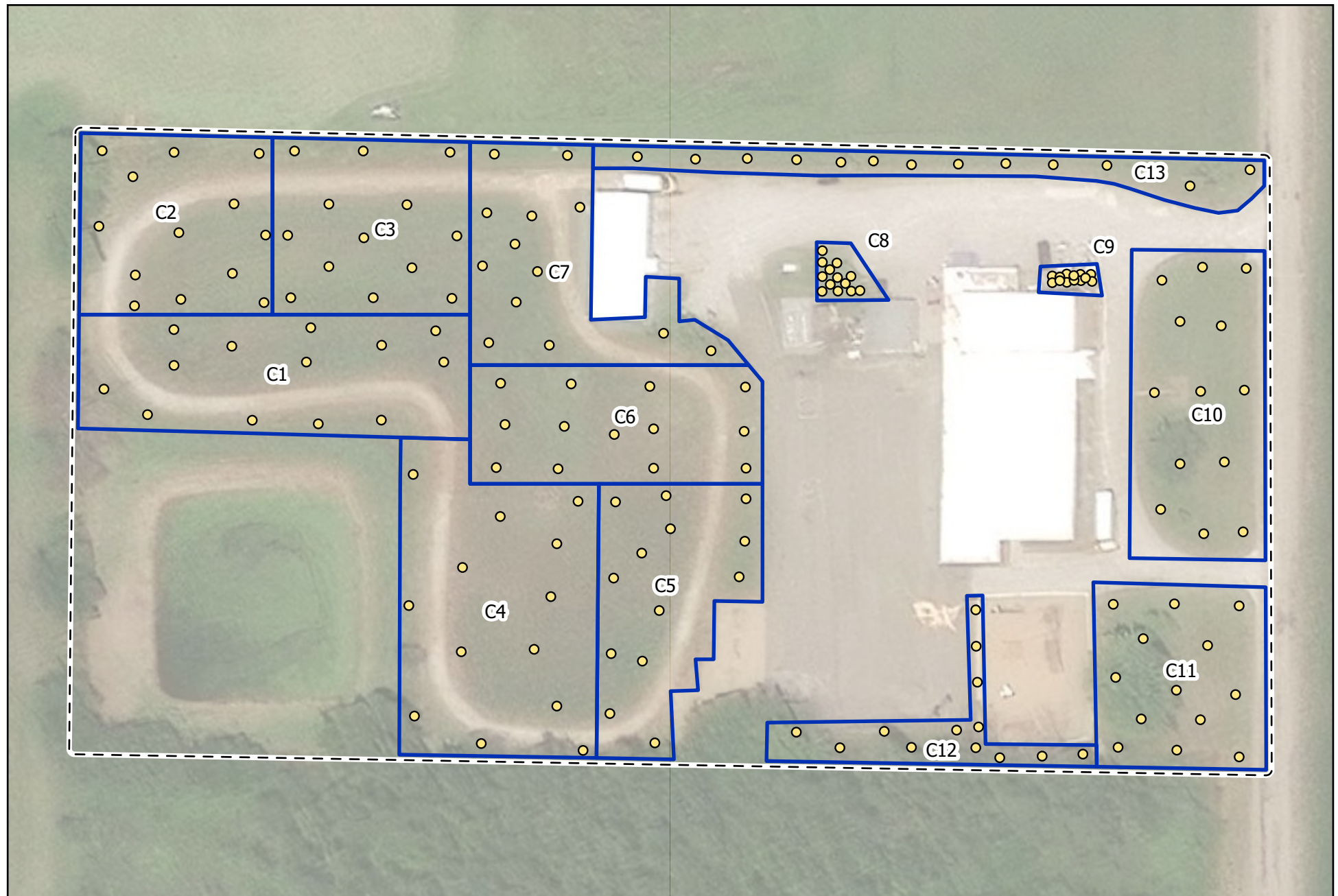
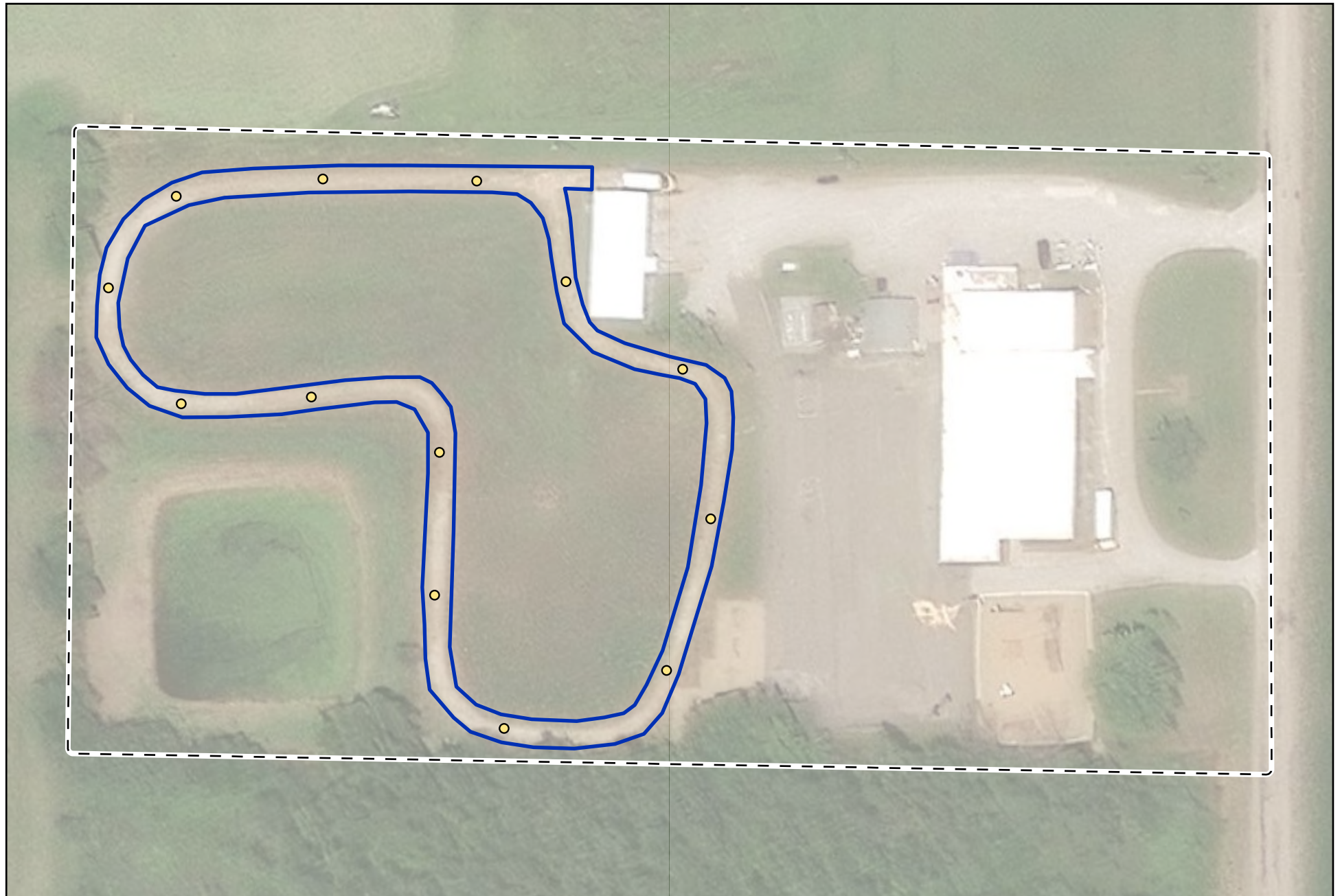





Figure 3: Approximate Track Soil Aliquot Locations



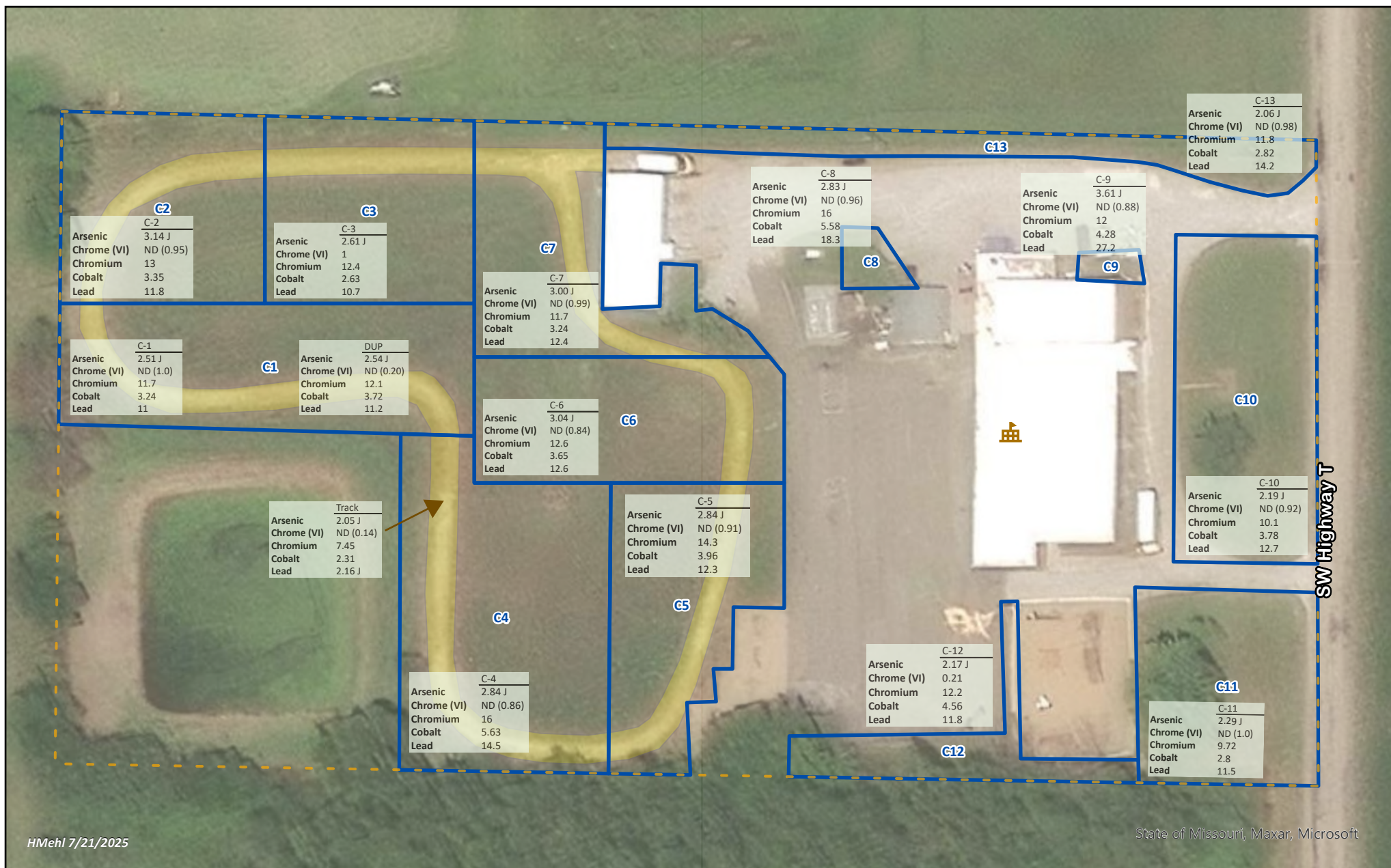
-  Approximate Track Aliquot Locations
-  Davis R-XII Track
-  Approximate Site Boundary

State of Missouri, Maxar, Microsoft, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Copyright:© 2013 National Geographic Society, i-cubed

0 25 50 100 Feet



Figure 4. Sampling Results for Selected Analytes - Davis R-12 School, Clinton, MO



HMehl 7/21/2025

State of Missouri, Maxar, Microsoft



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All samples collected June 23, 2025.

- Davis R-12 School
- Davis School Track
- Sampling Units
- Site Boundary

All results in milligrams per kilogram (mg/kg)

ND – Not detected at the indicated detection limit

VI – Hexavalent chromium

J – Estimated value due to low detection

Scale: 100 Feet



Appendix A – Field Notes

Compositions

Davis R-XII school sampling

Andrew Jennings Project Manager
June 2025

8 1/2 in. x 7 in. • 20 Sheets • Wide Ruled

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6/23/25

0710 EPA personnel depart RO for Davis R-XII school.

0820 Arrive at school. Personnel include PM Andrew Jennings, Supervisor Randy Brown, and Daniel O'Crowley and Wilhem Fraundorfer. Weather 81°F, 14 mph winds, clear skies. High of 91°F expected.

0850 Set up decontamination area. Randy Brown spoke w/ Davis R-XII staff to let them EPA is on site.

0900 Health and safety brief led by A. Jennings. Main concerns of day are slips, trips, & falls and heat illness. Discussed signs, symptoms, & first aid. EPA's Mark Hanson and Tony Gaston on site.

0905 Began gridding off sampling units.

0920 Andrew Jennings and Wilhem Fraundorfer decontaminated the sampling equipment prior to usage.

0935 Begin sampling. Property divided in sampling units per person

SU C10 collected 2500 334-10A, 2500 335-10A

SU C-Z collected 2500 334-02A, 2500 335-02A

6/23/25

0945 SU C8 collected 2500334-08A, 2500335-08A

SU C13 collected 2500334-13A, 2500335-13A

0950 SU C11 collected 2500334-11A, 2500335-11A

1005 SU C-3 collected 2500334-03A, 2500335-03A

1010 SU C-12 collected 2500334-12A, 2500335-12A

1030 SU C-9 collected 2500334-09A, 2500335-09A

SU C-5 collected 2500334-05A, 2500335-05A

1035 SU C-7 collected 2500334-07A, 2500335-07A

1050 SU C-4 collected 2500334-04A, 2500335-04A

1100 SU Track collected ~~2500334-14A~~^{AS} 2500334-14A, 2500335-14A

SU C1 collected 2500334-01A, 2500335-01A (MS/MSD Cr_{tr})

SU DUP collected. 2500334-15A, 2500335-15A

Duplicated sample collected from C-1

1130 SU C-6 collected 2500334-06A, 2500335-06A

1145 Decontaminate sampling equipment and ~~collected~~

~~rinsate~~ sample from C1 equipment. Clean up site and remove flags. Rinsate bottle^{AS} left at lab. Equipment from C1 was decon and placed in ziploc bag. At lab rinsate sample will be collected from C1 equipment.

1200 Off site departing for STC

6/23/25

1300 Stop for lunch

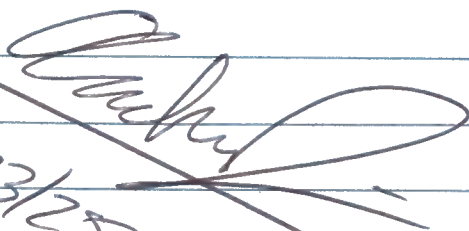
1430 Arrive at STC. Unload sampling supplies, place samples in fridge overnight prior to sieving.

1445 collected Rinstate sample from G1 sampling equipment.

1530 Depart STC for RO. Stopping for fuel.

1600 Arrive at RO

Deviation from QAPP. Sampling Units were not checked using a measuring wheel. AESRI's field map application was used by field staff to mark ~~g~~^{to} sampling units and collect aliquots. Accuracy of Field Maps app ranged from 6' to 15' during sampling.

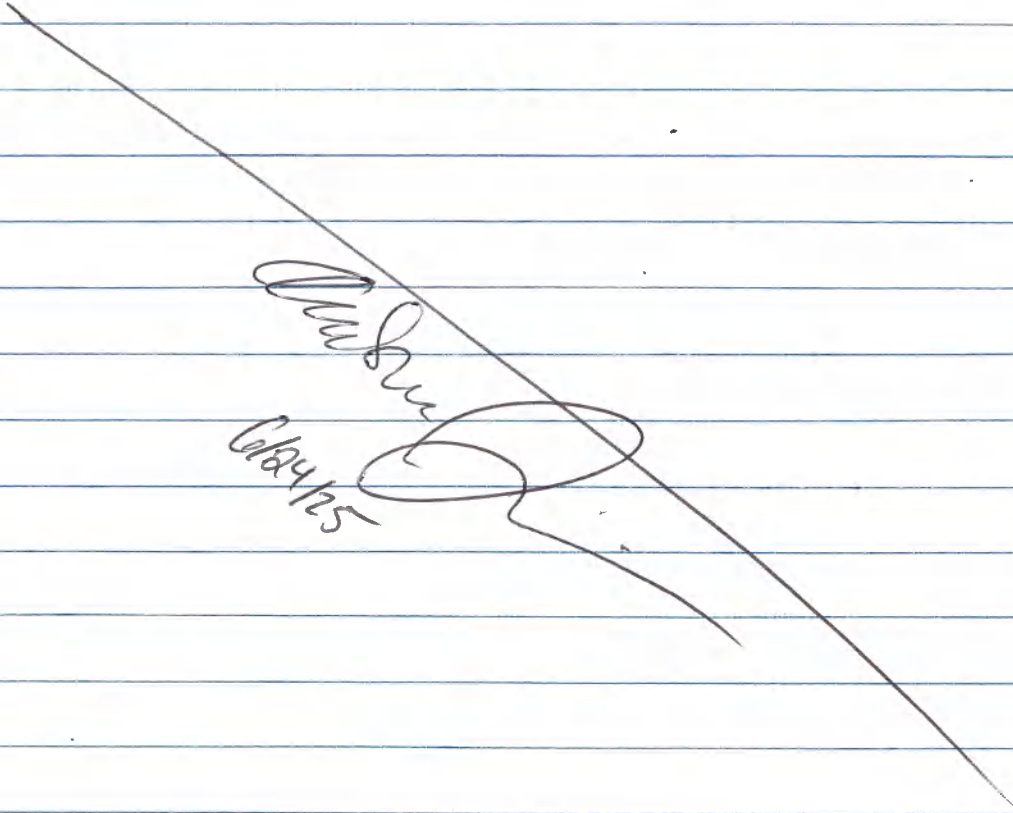

6/23/25

06/24/25

0900 Arrive at STC to begin drying soil and sieving. The
Hex chrome soil samples will not be dried or sieved
due to lab method requiring field moist samples.

1335 While homogenizing C-8, the soil had faint petroleum
odor

1745 Complete homogenization & drying for the day


Andrew
06/24/25

6/25/25

0800 Arrive at STC to continue drying soil and sieving.

1700 Completed drying and sieving activities for day.

Conkur
6/25/25

6/27/25

10800 Arrive ~~on~~^{AS} at STC to complete drying and sieving.

1100 All samples dried, sieved, and submitted to laboratory for analysis.

1145 Finished cleaning lab space and doing final decon of sieving equipment.

Quelwa
6/27/25

Appendix B – Laboratory Data Packages



United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 07/08/2025

Subject: Transmittal of Sample Analysis Results for WO#: **2500334**
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

From: N. Myron Gunsalus, Jr., Chief
Laboratory Technology & Analysis Branch
Laboratory Services and Applied Science Division

To: Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

Enclosed are the analytical data for the above-referenced Work Order[s] (WO) and Project. These results are based on samples as received at the Science and Technology Center. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic transmittal in your records management system. The Regional Laboratory will retain all the original documentation (e.g. COC[s], supporting files, etc.) according to our LSASD records management system. Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. The process of disposing of the samples for this WO will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online Sample/Data Disposition and Customer Survey.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295 or email R7_STC_Helpline@epa.gov.

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United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Summary Information for the Project in this Report

Project Manager: Andrew Jennings

Organization: LSASD/ASB

Project ID: AJHCMODRXII

Project Description: Henry County, MO - Davis R-XII School sampling

Location: Clinton

State: Missouri

Program: RCRA Enforcement

Site Name: NON SITE-SPECIFIC

Site ID: 0000

Site OU: 00

GPRA Code: 000DA1

Purpose: Site Characterization

QAPP Number: 2025170

Samples in this Report

Lab ID	Sample	Matrix	Latitude	Longitude	Date Sampled	Date Received
2500334-01	C-1	Solid	38.33667	-93.887868	06/23/2025 11:00	06/26/2025
2500334-02	C-2	Solid	38.336901	-93.888055	06/23/2025 09:35	06/26/2025
2500334-03	C-3	Solid	38.336889	-93.887679	06/23/2025 10:05	06/26/2025
2500334-04	C-4	Solid	38.336301	-93.88746	06/23/2025 10:50	06/26/2025
2500334-05	C-5	Solid	38.336311	-93.887131	06/23/2025 10:30	06/26/2025
2500334-06	C-6	Solid	38.336578	-93.887218	06/23/2025 11:30	06/26/2025
2500334-07	C-7	Solid	38.33684	-93.887355	06/23/2025 10:35	06/26/2025
2500334-08	C-8	Solid	38.336796	-93.886769	06/23/2025 09:45	06/26/2025
2500334-09	C-9	Solid	38.336778	-93.886332	06/23/2025 10:30	06/26/2025
2500334-10	C-10	Solid	38.336582	-93.886094	06/23/2025 09:35	06/26/2025
2500334-11	C-11	Solid	38.336172	-93.886143	06/23/2025 09:50	06/26/2025
2500334-12	C-12	Solid	38.336083	-93.886626	06/23/2025 10:10	06/26/2025
2500334-13	C-13	Solid	38.33696	-93.8866	06/23/2025 09:45	06/26/2025
2500334-14	Track	Solid			06/23/2025 11:00	06/26/2025
2500334-15	DUP	Solid			06/23/2025 11:00	06/26/2025
2500334-16	Rinsate	Water			06/23/2025 14:45	06/26/2025

Additional Sample Information: Field Data 1-5

Results as provided by the field sampler. No significant figure rules applied.

Lab ID	Altitude	Coord_Sys_Desc	Datum	ElevDatum	GeoMethod
2500334-01		WGS 1984			
2500334-02		WGS 1984			
2500334-03		WGS 1984			
2500334-04		WGS 1984			
2500334-05		WGS 1984			
2500334-06		WGS 1984			
2500334-07		WGS 1984			
2500334-08		WGS 1984			
2500334-09		WGS 1984			

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Andrew Jennings	WO#: 2500334	
R7 Laboratory Services and Applied Science	Project ID: AJHCMODRXII	Reported:
LSASD/ASB	Project: Henry County, MO - Davis R-XII School sampling	07/08/2025 16:17

Additional Sample Information: Field Data 1-5 (Continued)
Results as provided by the field sampler. No significant figure rules applied.

Lab ID	Altitude	Coord_Sys_Desc	Datum	ElevDatum	GeoMethod
2500334-10		WGS 1984			
2500334-11		WGS 1984			
2500334-12		WGS 1984			
2500334-13		WGS 1984			
2500334-14		WGS 1984			
2500334-15		WGS 1984			
2500334-16		WGS 1984			

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WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Analysis Case Narrative

Metals

Met ICP-AES 3122.03 (Soil):

Per the request of the Project Manager, results for all analytes were reported down to the method detection limit (MDL) instead of the reporting limit (RL). Results that were not found at or above the MDL were reported with a UJ-code. Results above the MDL but below the RL were reported with a J-code indicating that they are estimated values.

Slight Aluminum (1.44 mg/kg; MDL=1.28 mg/kg), Manganese (0.059 mg/kg; MDL = 0.032 mg/kg), and Calcium (7.72 mg/kg; MDL = 3.30 mg/kg) contamination were found in the method blank or continuing calibration blanks. Only samples containing these analytes at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained these analytes but at a level less than ten times the contamination in the blank have the result UJ-coded indicating the reported sample result is the estimated lowest level of detection for that analyte. Samples affected were: None.

Antimony was UJ-coded in sample 2500334-01 (%Rec: 42.3%/51.4%; LCL: 75%). This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike and laboratory matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

Met ICP-AES 3122.03 (Water):

Per the request of the Project Manager, results for all analytes were reported down to the method detection limit (MDL) instead of the reporting limit (RL). Results that were not found at or above the MDL were reported with a UJ-code. Results above the MDL but below the RL were reported with a J-code indicating that they are estimated values.

Aluminum was UJ-coded in sample 2500334-16 (%Rec: 81.5%; LCL: 86.9%). This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory control sample. The actual reporting limit for this analyte may be higher than the reported value.

Aluminum was UJ-coded in sample 2500334-16 (%Rec: 80.8%/80.5%; LCL: 86.2%). This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike and laboratory matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

Silver was UJ-coded in sample 2500334-16 (%Rec: 86.7%/87.6%; LCL: 90.4%). This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike and laboratory matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

Minerals 3122.03 (Water):

Per the request of the Project Manager, results for all analytes were reported down to the method detection limit (MDL) instead of the reporting limit (RL). Results that were not found at or above the MDL were reported with a UJ-code. Results above the MDL but below the RL were reported with a J-code indicating that they are estimated values.

Slight Potassium (0.220 mg/L; MDL=0.116 mg/L) and Sodium (0.143 mg/L; MDL = 0.0445 mg/L) contamination were found in the laboratory continuing calibration blanks and method blank. Only samples containing these analytes at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained these analytes but at a level less than ten times the contamination in the blank have the result UJ-coded indicating the reported sample result is the estimated lowest level of detection for that analyte. Samples affected were: For Potassium - 2500334-16; For Sodium - none.

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WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
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Sample Results

Lab ID: 2500334-01

Sample ID: C-1

Matrix: Solid

Sampled: 06/23/25 11:00

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	8800		13.3	52.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.614	2.08	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.51	J	0.594	5.21	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	111		0.259	20.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.629	J	0.019	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.509	J	0.061	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	3750		3.44	52.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	11.7		0.135	2.08	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.24		0.075	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	9.57		0.195	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	9950		4.39	52.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	11.0		0.526	5.21	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1170		2.56	52.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	325		0.034	5.21	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.181	2.08	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	12.9		0.166	2.08	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	713		6.04	52.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.59	10.4	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.320	2.08	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	88.1		2.32	52.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	0.692	J	0.646	10.4	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	19.8		0.303	5.21	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	48.1		0.126	5.21	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Reported:
07/08/2025 16:17

Sample Results

(Continued)

Lab ID: 2500334-01 (Continued)

Sample ID: C-1 **Matrix: Solid** **Sampled: 06/23/25 11:00**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	95.6		0.0100	0.100	%	07/01/2025	SM-2540G

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Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-02

Sample ID: C-2

Matrix: Solid

Sampled: 06/23/25 09:35

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9750		12.7	49.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.587	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	3.14	J	0.567	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	106		0.248	19.9	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.694	J	0.018	0.995	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.561	J	0.059	0.995	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	4150		3.28	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	13.0		0.129	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.35		0.072	0.995	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	10.8		0.186	0.995	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	11400		4.20	49.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	11.8		0.502	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1450		2.45	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	346		0.032	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.173	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	11.8		0.158	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	900		5.77	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.52	9.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.305	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	98.1		2.22	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.617	9.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	21.5		0.290	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	47.1		0.120	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Reported:
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Sample Results
(Continued)

Lab ID: 2500334-02 (Continued)

Sample ID: C-2 **Matrix: Solid** **Sampled: 06/23/25 09:35**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	98.1		0.0100	0.100	%	07/01/2025	SM-2540G

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Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-03

Sample ID: C-3

Matrix: Solid

Sampled: 06/23/25 10:05

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	8910		13.7	53.7	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.634	2.15	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.61	J	0.612	5.37	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	94.0		0.267	21.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.608	J	0.019	1.07	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.490	J	0.063	1.07	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	4400		3.54	53.7	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	12.4		0.140	2.15	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	2.63		0.077	1.07	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	10.1		0.201	1.07	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	9910		4.53	53.7	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	10.7		0.542	5.37	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1330		2.64	53.7	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	274		0.035	5.37	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.187	2.15	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	10.5		0.171	2.15	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	790		6.23	53.7	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.64	10.7	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.330	2.15	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	82.5		2.39	53.7	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.666	10.7	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	20.2		0.313	5.37	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	42.1		0.130	5.37	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Project ID: AJHCMODRXII
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Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-03 (Continued)

Sample ID: C-3 Matrix: Solid Sampled: 06/23/25 10:05

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	92.4		0.0100	0.100	%	07/01/2025	SM-2540G

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Sample Results
(Continued)

Lab ID: 2500334-04

Sample ID: C-4

Matrix: Solid

Sampled: 06/23/25 10:50

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	11800		12.5	49.0	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.578	1.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.84	J	0.559	4.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	161		0.244	19.6	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.881	J	0.018	0.980	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.833	J	0.058	0.980	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	5240		3.23	49.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	16.0		0.127	1.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	5.63		0.071	0.980	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	13.7		0.183	0.980	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	15200		4.14	49.0	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	14.5		0.495	4.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1370		2.41	49.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	467		0.032	4.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.171	1.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	21.4		0.156	1.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	960		5.68	49.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	2.34	J	1.50	9.80	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.301	1.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	54.7		2.19	49.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	0.692	J	0.608	9.80	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	24.2		0.285	4.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	75.0		0.119	4.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

United States Environmental Protection Agency
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Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-04 (Continued)

Sample ID: C-4 Matrix: Solid Sampled: 06/23/25 10:50

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	95.8		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-05

Sample ID: C-5

Matrix: Solid

Sampled: 06/23/25 10:30

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	10600		13.4	52.2	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.616	2.09	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.84	J	0.595	5.22	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	125		0.260	20.9	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.744	J	0.019	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.575	J	0.062	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	4080		3.45	52.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	14.3		0.136	2.09	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.96		0.075	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	11.4		0.195	1.04	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	11600		4.41	52.2	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	12.3		0.527	5.22	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1300		2.57	52.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	345		0.034	5.22	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.182	2.09	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	17.8		0.166	2.09	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	819		6.06	52.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.60	10.4	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.321	2.09	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	60.6		2.33	52.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	0.656	J	0.647	10.4	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	21.9		0.304	5.22	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	58.2		0.126	5.22	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-05 (Continued)

Sample ID: C-5 **Matrix: Solid** **Sampled: 06/23/25 10:30**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	95.3		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-06

Sample ID: C-6

Matrix: Solid

Sampled: 06/23/25 11:30

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9810		12.9	50.2	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.592	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	3.04	J	0.572	5.02	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	105		0.250	20.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.663	J	0.018	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.586	J	0.059	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	8890		3.31	50.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	12.6		0.131	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.65		0.072	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	11.8		0.188	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	11100		4.24	50.2	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	12.6		0.507	5.02	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1450		2.47	50.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	259		0.033	5.02	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.175	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	15.6		0.160	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	831		5.82	50.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	1.74	J	1.54	10.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.308	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	75.7		2.24	50.2	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.623	10.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	19.6		0.292	5.02	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	59.4		0.122	5.02	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-06 (Continued)

Sample ID: C-6 **Matrix: Solid** **Sampled: 06/23/25 11:30**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	99.3		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-07

Sample ID: C-7

Matrix: Solid

Sampled: 06/23/25 10:35

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9460		12.7	49.6	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.585	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	3.00	J	0.566	4.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	97.9		0.247	19.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.606	J	0.018	0.992	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.566	J	0.059	0.992	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	7990		3.27	49.6	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	11.7		0.129	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.24		0.071	0.992	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	11.2		0.186	0.992	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	10300		4.19	49.6	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	12.4		0.501	4.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1560		2.44	49.6	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	306		0.032	4.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.173	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	11.8		0.158	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	823		5.76	49.6	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.52	9.92	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.305	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	100		2.21	49.6	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.615	9.92	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	19.9		0.289	4.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	51.9		0.120	4.96	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-07 (Continued)

Sample ID: C-7 **Matrix: Solid** **Sampled: 06/23/25 10:35**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	98.9		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-08

Sample ID: C-8

Matrix: Solid

Sampled: 06/23/25 09:45

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	11000		12.5	48.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.575	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.83	J	0.556	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	118		0.243	19.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.699	J	0.018	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.902	J	0.058	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	6800		3.22	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	16.0		0.127	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	5.58		0.070	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	14.0		0.182	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	13000		4.12	48.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	18.3		0.493	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1500		2.40	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	411		0.032	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.170	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	18.8		0.155	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	930		5.66	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	1.60	J	1.49	9.75	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.299	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	72.1		2.18	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.605	9.75	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	22.5		0.284	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	106		0.118	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Sample Results
(Continued)

Lab ID:	2500334-08 (Continued)						
Sample ID:	C-8	Matrix:	Solid	Sampled:	06/23/25 09:45		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	97.0		0.0100	0.100	%	07/01/2025	SM-2540G

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Project ID: AJHCOMDRXII
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Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-09

Sample ID: C-9

Matrix: Solid

Sampled: 06/23/25 10:30

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9900		12.7	49.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.584	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	3.61	J	0.565	4.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	106		0.247	19.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.653	J	0.018	0.990	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.685	J	0.058	0.990	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	18800		32.7	495	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Chromium	12.0		0.129	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	4.28		0.071	0.990	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	12.6		0.185	0.990	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	11500		4.18	49.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	27.2		0.500	4.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1750		2.44	49.5	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	364		0.032	4.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.172	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	17.4		0.157	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	765		5.74	49.5	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.52	9.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.304	1.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	72.6		2.21	49.5	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.614	9.90	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	20.0		0.288	4.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	83.2		0.120	4.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
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Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-09 (Continued)

Sample ID: C-9 **Matrix: Solid** **Sampled: 06/23/25 10:30**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	99.0		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-10

Sample ID: C-10

Matrix: Solid

Sampled: 06/23/25 09:35

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	8810		12.5	48.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.575	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.19	J	0.556	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	82.3		0.243	19.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.605	J	0.018	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.646	J	0.058	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	11700		32.2	488	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Chromium	10.1		0.127	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.78		0.070	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	10.4		0.182	0.975	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	9990		4.12	48.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	12.7		0.493	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1700		2.40	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	320		0.032	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.170	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	14.1		0.155	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	764		5.66	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.49	9.75	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.299	1.95	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	71.1		2.18	48.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.605	9.75	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	18.9		0.284	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	74.4		0.118	4.88	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

United States Environmental Protection Agency
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Andrew Jennings
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LSASD/ASB

WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-10 (Continued)

Sample ID: C-10 **Matrix: Solid** **Sampled: 06/23/25 09:35**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	99.4		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-11

Sample ID: C-11

Matrix: Solid

Sampled: 06/23/25 09:50

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	8210		12.8	49.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.588	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.29	J	0.568	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	87.8		0.248	19.9	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.565	J	0.018	0.997	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.554	J	0.059	0.997	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	5830		3.29	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	9.72		0.130	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	2.80		0.072	0.997	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	9.52		0.186	0.997	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	9620		4.21	49.8	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	11.5		0.503	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1270		2.45	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	272		0.032	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.173	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	10.6		0.159	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	746		5.78	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.53	9.97	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.306	1.99	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	66.4		2.22	49.8	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.618	9.97	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	18.1		0.290	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	56.4		0.121	4.98	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-11 (Continued)

Sample ID: C-11 **Matrix: Solid** **Sampled: 06/23/25 09:50**

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	99.6		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-12

Sample ID: C-12

Matrix: Solid

Sampled: 06/23/25 10:10

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9280		12.4	48.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.572	1.94	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.17	J	0.553	4.85	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	94.0		0.242	19.4	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.635	J	0.018	0.970	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.656	J	0.057	0.970	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	12900		32.0	485	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Chromium	12.2		0.126	1.94	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	4.56		0.070	0.970	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	12.6		0.181	0.970	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	11200		4.09	48.5	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	11.8		0.490	4.85	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1390		2.39	48.5	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	436		0.032	4.85	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.169	1.94	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	14.1		0.154	1.94	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	720		5.63	48.5	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	1.73	J	1.48	9.70	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.298	1.94	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	60.2		2.16	48.5	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.601	9.70	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	21.4		0.282	4.85	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	108		0.117	4.85	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

**Sample Results
(Continued)**

Lab ID: 2500334-12 (Continued)

Sample ID: C-12 Matrix: Solid Sampled: 06/23/25 10:10

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	98.5		0.0100	0.100	%	07/01/2025	SM-2540G

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Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-13

Sample ID: C-13

Matrix: Solid

Sampled: 06/23/25 09:45

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9910		12.8	50.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND UJ		0.592	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.06 J		0.572	5.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	116		0.250	20.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.573 J		0.018	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.740 J		0.059	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	28900		33.1	501	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Chromium	11.8		0.130	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	2.82		0.072	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	20.2		0.188	1.00	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	10900		4.23	50.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	14.2		0.506	5.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	2620		24.7	501	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Manganese	294		0.033	5.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND UJ		0.174	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	14.5		0.159	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	895		5.82	50.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND UJ		1.53	10.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND UJ		0.308	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	79.2		2.24	50.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND UJ		0.622	10.0	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	18.9		0.292	5.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	81.5		0.121	5.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results

(Continued)

Lab ID: 2500334-13 (Continued)

Sample ID: C-13 Matrix: Solid Sampled: 06/23/25 09:45

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	98.6		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-14

Sample ID: Track Matrix: Solid Sampled: 06/23/25 11:00

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	4560		12.9	50.3	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.594	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.05	J	0.573	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	153		0.250	20.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.286	J	0.018	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.552	J	0.059	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	195000		166	2510	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Chromium	7.45		0.131	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	2.31		0.072	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	10.6		0.188	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	10200		4.25	50.3	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	2.16	J	0.508	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	16000		24.7	503	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Manganese	386		0.033	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	0.847	J	0.175	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	11.5		0.160	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	1260		5.83	50.3	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	1.54	10.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.309	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	132		2.24	50.3	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.624	10.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	9.10		0.293	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	23.0		0.122	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results

(Continued)

Lab ID: 2500334-14 (Continued)

Sample ID: Track Matrix: Solid Sampled: 06/23/25 11:00

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	98.7		0.0100	0.100	%	07/01/2025	SM-2540G

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WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-15

Sample ID: DUP

Matrix: Solid

Sampled: 06/23/25 11:00

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	9670		12.9	50.3	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	0.593	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	2.54	J	0.573	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	113		0.250	20.1	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	0.664	J	0.018	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	0.549	J	0.059	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	3460		3.32	50.3	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	12.1		0.131	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	3.72		0.072	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	9.87		0.188	1.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Iron	10300		4.24	50.3	mg/kg dry Dry	07/03/2025	SW-846 Method 6010 / EPA-200.7
Lead	11.2		0.508	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	1220		2.47	50.3	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	366		0.033	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	0.175	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	13.5		0.160	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	758		5.83	50.3	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	1.55	J	1.54	10.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	0.309	2.01	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Sodium	93.9		2.24	50.3	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	0.624	10.1	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	20.9		0.293	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	52.6		0.122	5.03	mg/kg dry Dry	07/01/2025	SW-846 Method 6010 / EPA-200.7

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WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-15 (Continued)

Sample ID: DUP Matrix: Solid Sampled: 06/23/25 11:00

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Solids by Gravimetric - %Solids						Analysis: %Solids 3142.09	
Laboratory: EPA							
Solids, percent	99.1		0.0100	0.100	%	07/01/2025	SM-2540G

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Sample Results
(Continued)

Lab ID: 2500334-16

Sample ID: Rinsate

Matrix: Water

Sampled: 06/23/25 14:45

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Metals by ICP/Atomic Emission

Analysis: Met ICP-AES 3122.03

Laboratory: EPA

Aluminum	ND	UJ	25.6	50.0	ug/L	07/03/2025	SW-846 Method 6010 / EPA-200.7
Antimony	ND	UJ	9.77	50.0	ug/L	07/03/2025	SW-846 Method 6010 / EPA-200.7
Arsenic	ND	UJ	11.0	25.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Barium	ND	UJ	0.50	10.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Beryllium	ND	UJ	0.23	3.00	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cadmium	ND	UJ	1.18	3.00	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Chromium	ND	UJ	2.60	15.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Cobalt	ND	UJ	1.44	10.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Copper	ND	UJ	2.69	5.00	ug/L	07/03/2025	SW-846 Method 6010 / EPA-200.7
Iron	ND	UJ	8.43	50.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Lead	ND	UJ	9.59	50.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Manganese	ND	UJ	0.65	5.00	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Molybdenum	ND	UJ	3.48	15.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Nickel	ND	UJ	2.97	20.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Selenium	ND	UJ	29.7	50.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Silver	ND	UJ	6.13	25.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Thallium	ND	UJ	12.4	50.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Titanium	ND	UJ	0.91	20.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Vanadium	ND	UJ	5.81	10.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Zinc	2.54	J	2.42	25.0	ug/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Calcium	0.946	J	0.0659	2.00	mg/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Magnesium	0.179	J	0.0491	2.00	mg/L	07/01/2025	SW-846 Method 6010 / EPA-200.7
Potassium	0.648	UJ	0.116	2.00	mg/L	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Reported:
07/08/2025 16:17

**Sample Results
(Continued)**

Lab ID: 2500334-16 (Continued)

Sample ID: Rinsate Matrix: Water Sampled: 06/23/25 14:45

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Metals by ICP/Atomic Emission (Continued)					Analysis: Minerals ICP-AES 3122.03		
Laboratory: EPA							
Sodium	3.06	J	0.0445	5.00	mg/L	07/01/2025	SW-846 Method 6010 / EPA-200.7

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Reported:
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Certified Analyses included in this Report

Analyte	CAS #	Certifications / Conformancy Standard
Metals by ICP/Atomic Emission		
Method-Matrix: SW-846 Method 6010 / EPA-200.7 in Solid		Analysis: Met ICP-AES 3122.03
Aluminum	7429-90-5	ISO
Antimony	7440-36-0	ISO
Arsenic	7440-38-2	ISO
Barium	7440-39-3	ISO
Beryllium	7440-41-7	ISO
Cadmium	7440-43-9	ISO
Calcium	7440-70-2	ISO
Chromium	7440-47-3	ISO
Cobalt	7440-48-4	ISO
Copper	7440-50-8	ISO
Iron	7439-89-6	ISO
Lead	7439-92-1	ISO
Magnesium	7439-95-4	ISO
Manganese	7439-96-5	ISO
Molybdenum	7439-98-7	ISO
Nickel	7440-02-0	ISO
Potassium	7440-09-7	ISO
Selenium	7782-49-2	ISO
Silver	7440-22-4	ISO
Sodium	7440-23-5	ISO
Thallium	7440-28-0	ISO
Vanadium	7440-62-2	ISO
Zinc	7440-66-6	ISO
Method-Matrix: SW-846 Method 6010 / EPA-200.7 in Water		Analysis: Met ICP-AES 3122.03
Aluminum	7429-90-5	ISO
Antimony	7440-36-0	ISO
Arsenic	7440-38-2	ISO
Barium	7440-39-3	ISO
Beryllium	7440-41-7	ISO
Cadmium	7440-43-9	ISO
Chromium	7440-47-3	ISO
Cobalt	7440-48-4	ISO
Copper	7440-50-8	ISO
Iron	7439-89-6	ISO
Lead	7439-92-1	ISO
Manganese	7439-96-5	ISO
Molybdenum	7439-98-7	ISO
Nickel	7440-02-0	ISO
Selenium	7782-49-2	ISO
Silver	7440-22-4	ISO
Thallium	7440-28-0	ISO
Titanium	7440-32-6	ISO
Vanadium	7440-62-2	ISO
Zinc	7440-66-6	ISO
Method-Matrix: SW-846 Method 6010 / EPA-200.7 in Water		Analysis: Minerals ICP-AES 3122.0
Calcium	7440-70-2	ISO

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Reported:
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Certified Analyses included in this Report
(Continued)

Analyte	CAS #	Certifications / Conformancy Standard
Metals by ICP/Atomic Emission (Continued)		
Method-Matrix: SW-846 Method 6010 / EPA-200.7 in Water (Continued)		Analysis: Minerals ICP-AES 3122.0
Magnesium	7439-95-4	ISO
Potassium	7440-09-7	ISO
Sodium	7440-23-5	ISO
Solids by Gravimetric - %Solids		
Method-Matrix: SM-2540G in Solid		Analysis: %Solids 3142.09
Solids, percent		ISO

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List of Region 7 Laboratories

Code	Description
EPA	Analysis performed by EPA staff at the Region 7 Laboratory
ESAT	Analysis performed by ESAT contractor staff at the Region 7 Laboratory
CLP	Analysis performed by a Superfund Contract Laboratory Program (CLP) Laboratory
ESSC	Analysis performed by an ESAT Subcontracted Laboratory
Mobile 1	Analysis performed by EPA staff in the Region 7 Microbiology Mobile Laboratory 1 (VIN# WDOPE845285240404)
Mobile 2	Analysis performed by EPA staff in the Region 7 Microbiology Mobile Laboratory 2 (VIN# 1GBE5C3296F413034)

List of Certifications / Conformancy Standards

Code	Description	Number	Expires
ISO	ISO/IEC 17025:2017 - Environmental Testing	L24-414-R2	06/05/2026
EPA DW	EPA Certification of Drinking Water Analysis	09-16-2024	06/05/2026
R7 SOP	Conforms to R7 Laboratory Quality Manual.	QM-K	01/03/2027
SFAM01.1	CLP Superfund Analytical Methods SOW	SFAM01.1	09/09/2026
HRSM02.1	CLP High Resolution Superfund Methods SOW	HRSM02.1	09/09/2026
ESSC SOW	ESAT Subcontract (ESSC) Laboratory SOW	ESSC SOW	03/28/2026

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Reported:
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Explanation of Qualifiers used on this report

Item	Definition
J	The identification of the analyte is acceptable, the reported value is an estimate.
UJ	The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
Result	Bold value indicates analyte is DETECTED at or above the MDL or RL, whichever limit is requested in the WO(s).
ND	Analyte NOT DETECTED at or above the at or above the MDL or RL, whichever limit is requested in the WO(s).
MDL or RL	Bold value indicates if the sample result is reported down to the Method Detection Limit or the Reporting Limit.
Dry	Sample results reported on a dry weight basis.
RPD	Relative Percent Difference
RPDL	Relative Percent Difference Limit
LCL	Lower Control Limit
UCL	Upper Control Limit
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

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Reported:
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Explanation of Units used on this report

Units	Description
%	Percent
[blank]	
boat	Milestone boat
cm2	Square Centimeters
copy/uL	Copy per Microliter
Deg C	Degrees Celcius
g	Grams
g/cm2	Grams per Square Centimeter
g/min	Gallons per Minute
gene/rxn	Gene per Reaction
m2	Square Meters
mg	Milligrams
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
mL	Milliliters
mL/L/hr	Milliliters per Liter per Hour
mm	Millimeters
mm/sec	Millimeters per second
MPN/100mL	Most Probable Number per One Hundred Milliliters
mV	Millivolts
ng	Nanograms
ng/g	Nanograms per Gram
ng/kg	Nanograms per Kilogram
ng/L	Nanograms per Liter
ng/mL	Nanograms per Milliliter
NTU	Nephelometric Turbidity Unit
P/A	Presence/Absence
pg/cm2	Picograms per Square Centimeter
pg/L	Picograms per Liter
pg/m3	Picograms per Cubic Meter
SU	Standard Unit
ug/cm2	Micrograms per Square Centimeter
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m2	Micrograms per Square Meter
ug/m3	Micrograms per Cubic Meter
ug/mL	Micrograms per Milliliter
uL	Microliters
umhos/cm	Micromhos per Centimeter
umoles/g	Micromoles per Gram
uS/cm	Microsiemens per Centimeter
Y/N	Yes/No

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Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.22:1015
	%Solids 3142.09	(Solid)	H-Flags used
	Met ICP-AES 3122.03	(Solid)	H-Flags used
	Met ICP-AES 3122.03	(Water)	H-Flags used
	Met ICP-AES 3122.03	(Solid)	Result calculations based on MDL
	Met ICP-AES 3122.03	(Water)	Result calculations based on MDL
	Minerals ICP-AES 3122.03	(Water)	H-Flags used
	Minerals ICP-AES 3122.03	(Water)	Result calculations based on MDL
2500334-01	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-01	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-01	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-01	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-01	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-01	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-01	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-01	Met ICP-AES 3122.03	Thallium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-01	Met ICP-AES 3122.03	Antimony	MSB-02: Matrix Spike and/or Matrix Spike Duplicate recovery was less than the established control limit.
2500334-01	Met ICP-AES 3122.03	Aluminum	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
2500334-01	Met ICP-AES 3122.03	Iron	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
2500334-01	Met ICP-AES 3122.03	Manganese	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
2500334-01	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-01	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-01	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-01	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

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Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
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Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
2500334-02	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-02	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-02	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-02	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-02	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-02	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-02	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-02	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-02	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-02	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-02	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-02	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-02	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-03	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-03	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-03	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-03	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-03	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-03	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-03	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.

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07/08/2025 16:17

Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
2500334-03	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-03	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-03	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-03	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-03	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-03	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-04	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-04	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-04	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-04	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-04	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-04	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-04	Met ICP-AES 3122.03	Selenium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-04	Met ICP-AES 3122.03	Thallium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-04	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-04	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-04	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-05	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-05	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-05	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-05	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

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Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
2500334-05	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-05	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-05	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-05	Met ICP-AES 3122.03	Thallium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-05	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-05	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-05	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-05	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-06	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-06	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-06	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-06	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-06	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-06	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-06	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-06	Met ICP-AES 3122.03	Selenium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-06	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-06	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-06	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-06	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-07	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

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Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
2500334-07	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-07	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-07	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-07	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-07	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-07	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-07	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-07	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-07	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-07	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-07	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-07	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-08	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-08	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-08	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-08	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-08	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-08	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-08	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-08	Met ICP-AES 3122.03	Selenium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.

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LabNumber	Analysis	Analyte	Exception
2500334-08	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-08	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-08	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-08	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-09	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-09	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-09	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-09	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-09	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-09	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-09	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-09	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-09	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-09	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-09	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-09	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-09	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-10	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-10	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-10	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-10	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

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LabNumber	Analysis	Analyte	Exception
2500334-10	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-10	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-10	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-10	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-10	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-10	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-10	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-10	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-10	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-11	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-11	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-11	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-11	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-11	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-11	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-11	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-11	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-11	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-11	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-11	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-11	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-11	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

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LabNumber	Analysis	Analyte	Exception
2500334-12	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-12	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-12	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-12	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-12	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-12	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-12	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-12	Met ICP-AES 3122.03	Selenium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-12	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-12	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-12	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-12	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-13	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-13	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-13	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-13	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-13	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-13	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-13	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-13	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.

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LabNumber	Analysis	Analyte	Exception
2500334-13	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-13	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-13	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-13	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-13	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-14	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-14	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-14	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-14	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-14	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-14	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-14	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-14	Met ICP-AES 3122.03	Lead	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-14	Met ICP-AES 3122.03	Molybdenum	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-14	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-14	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-14	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-14	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-15	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-15	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-15	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

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LabNumber	Analysis	Analyte	Exception
2500334-15	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-15	Met ICP-AES 3122.03	Arsenic	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-15	Met ICP-AES 3122.03	Beryllium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-15	Met ICP-AES 3122.03	Cadmium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-15	Met ICP-AES 3122.03	Selenium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-15	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-15	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-15	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-15	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Aluminum	LCS-02: Laboratory Control Sample recovery was less than the established control limit.
2500334-16	Met ICP-AES 3122.03	Aluminum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Arsenic	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Barium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Beryllium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Cadmium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Chromium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Cobalt	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Copper	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Iron	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500334
Project ID: AJHCOMDRXII
Project: Henry County, MO - Davis R-XII School sampling

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Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
2500334-16	Met ICP-AES 3122.03	Lead	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Manganese	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Nickel	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Titanium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Vanadium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
2500334-16	Met ICP-AES 3122.03	Zinc	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-16	Met ICP-AES 3122.03	Aluminum	MSB-02: Matrix Spike and/or Matrix Spike Duplicate recovery was less than the established control limit.
2500334-16	Met ICP-AES 3122.03	Silver	MSB-02: Matrix Spike and/or Matrix Spike Duplicate recovery was less than the established control limit.
2500334-16	Met ICP-AES 3122.03	Aluminum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Arsenic	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Barium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Beryllium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Cadmium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Chromium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Cobalt	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Copper	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Iron	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Lead	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

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WO#: 2500334
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Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
2500334-16	Met ICP-AES 3122.03	Manganese	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Nickel	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Titanium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Met ICP-AES 3122.03	Vanadium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
2500334-16	Minerals ICP-AES 3122.03	Potassium	BLK-01: Slight contamination was found in the method blank. The concentration found in the sample is less than 10x the contamination level in the blank. The Reporting Limit has been raised to the level found in the sample.
2500334-16	Minerals ICP-AES 3122.03	Sodium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
2500334-16	Minerals ICP-AES 3122.03	Calcium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-16	Minerals ICP-AES 3122.03	Magnesium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-16	Minerals ICP-AES 3122.03	Sodium	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
2500334-16	Minerals ICP-AES 3122.03	Potassium	MDL-03: At the request of the Project Manager, this analysis was reported down to the MDL. The analyte was detected above the MDL, but below the RL. Due to slight contamination in the method blank, the MDL has been raised to the level found in
2500334-16	Minerals ICP-AES 3122.03	Potassium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Aluminum	LCS-02: Laboratory Control Sample recovery was less than the established control limit.
B25F125-BLK1	Met ICP-AES 3122.03	Aluminum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Arsenic	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Barium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Beryllium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

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LabNumber	Analysis	Analyte	Exception
B25F125-BLK1	Met ICP-AES 3122.03	Cadmium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Chromium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Cobalt	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Copper	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Iron	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Lead	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Manganese	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Nickel	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Titanium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Vanadium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Zinc	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Met ICP-AES 3122.03	Aluminum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Arsenic	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Barium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Beryllium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

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Items for Project Manager Review
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LabNumber	Analysis	Analyte	Exception
B25F125-BLK1	Met ICP-AES 3122.03	Cadmium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Chromium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Cobalt	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Copper	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Iron	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Lead	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Manganese	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Nickel	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Titanium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Vanadium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Met ICP-AES 3122.03	Zinc	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Minerals ICP-AES 3122.03	Potassium	BLK-01: Slight contamination was found in the method blank. The concentration found in the sample is less than 10x the contamination level in the blank. The Reporting Limit has been raised to the level found in the sample.
B25F125-BLK1	Minerals ICP-AES 3122.03	Sodium	BLK-01: Slight contamination was found in the method blank. The concentration found in the sample is less than 10x the contamination level in the blank. The Reporting Limit has been raised to the level found in the sample.
B25F125-BLK1	Minerals ICP-AES 3122.03	Calcium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Minerals ICP-AES 3122.03	Magnesium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F125-BLK1	Minerals ICP-AES 3122.03	Potassium	MDL-03: At the request of the Project Manager, this analysis was reported down to the MDL. The analyte was detected above the MDL, but below the RL. Due to slight contamination in the method blank, the MDL has been raised to the level found in
B25F125-BLK1	Minerals ICP-AES 3122.03	Sodium	MDL-03: At the request of the Project Manager, this analysis was reported down to the MDL. The analyte was detected above the MDL, but below the RL. Due to slight contamination in the method blank, the MDL has been raised to the level found in
B25F125-BLK1	Minerals ICP-AES 3122.03	Calcium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Minerals ICP-AES 3122.03	Magnesium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

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LabNumber	Analysis	Analyte	Exception
B25F125-BLK1	Minerals ICP-AES 3122.03	Potassium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BLK1	Minerals ICP-AES 3122.03	Sodium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F125-BS1	Met ICP-AES 3122.03	Aluminum	Exceeds lower control limit
B25F125-BS1	Minerals ICP-AES 3122.03	Potassium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
B25F125-BS1	Minerals ICP-AES 3122.03	Sodium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
B25F125-MS1	Met ICP-AES 3122.03	Aluminum	Exceeds lower control limit
B25F125-MS1	Met ICP-AES 3122.03	Silver	Exceeds lower control limit
B25F125-MS1	Met ICP-AES 3122.03	Aluminum	LCS-02: Laboratory Control Sample recovery was less than the established control limit.
B25F125-MS1	Met ICP-AES 3122.03	Aluminum	MSB-02: Matrix Spike and/or Matrix Spike Duplicate recovery was less than the established control limit.
B25F125-MS1	Minerals ICP-AES 3122.03	Potassium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
B25F125-MS1	Minerals ICP-AES 3122.03	Sodium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
B25F125-MS2	Met ICP-AES 3122.03	Silver	Exceeds lower control limit
B25F125-MS2	Met ICP-AES 3122.03	Aluminum	Exceeds upper control limit
B25F125-MS2	Met ICP-AES 3122.03	Aluminum	LCS-02: Laboratory Control Sample recovery was less than the established control limit.
B25F125-MS2	Met ICP-AES 3122.03	Aluminum	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F125-MSD1	Met ICP-AES 3122.03	Aluminum	Exceeds lower control limit
B25F125-MSD1	Met ICP-AES 3122.03	Silver	Exceeds lower control limit
B25F125-MSD1	Met ICP-AES 3122.03	Aluminum	LCS-02: Laboratory Control Sample recovery was less than the established control limit.
B25F125-MSD1	Met ICP-AES 3122.03	Aluminum	MSB-02: Matrix Spike and/or Matrix Spike Duplicate recovery was less than the established control limit.
B25F125-MSD1	Minerals ICP-AES 3122.03	Potassium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
B25F125-MSD1	Minerals ICP-AES 3122.03	Sodium	BLK-02: Slight contamination was found in the method blank. The concentration found in the sample is greater than 10x the contamination level in the blank and is reported without being qualified.
B25F125-MSD2	Met ICP-AES 3122.03	Silver	Exceeds lower control limit
B25F125-MSD2	Met ICP-AES 3122.03	Aluminum	Exceeds upper control limit
B25F125-MSD2	Met ICP-AES 3122.03	Aluminum	LCS-02: Laboratory Control Sample recovery was less than the established control limit.

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LabNumber	Analysis	Analyte	Exception
B25F125-MSD2	Met ICP-AES 3122.03	Aluminum	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F126-BLK1	Met ICP-AES 3122.03	Manganese	BLK-03: Slight contamination was found in the method blank. The concentration found in the sample is non-detect so the sample is not affected by the 10x blank rule.
B25F126-BLK1	Met ICP-AES 3122.03	Antimony	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Arsenic	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Barium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Beryllium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Cadmium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Calcium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Chromium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Cobalt	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Copper	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Iron	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Lead	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Magnesium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Manganese	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Molybdenum	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Nickel	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Potassium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.

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LabNumber	Analysis	Analyte	Exception
B25F126-BLK1	Met ICP-AES 3122.03	Selenium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Silver	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Sodium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Thallium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Vanadium	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Zinc	MDL-01: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was not detected at or above the MDL.
B25F126-BLK1	Met ICP-AES 3122.03	Aluminum	MDL-02: At the request of the Project Manager, this analysis was reported down to the Method Detection Limit (MDL). The analyte was detected above the MDL, but below the Reporting Limit.
B25F126-BLK1	Met ICP-AES 3122.03	Antimony	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Arsenic	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Barium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Beryllium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Cadmium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Calcium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Chromium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Cobalt	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Copper	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Iron	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Lead	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Magnesium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Manganese	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Molybdenum	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Nickel	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Potassium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Selenium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500334
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling

Reported:
07/08/2025 16:17

Items for Project Manager Review
(Continued)

LabNumber	Analysis	Analyte	Exception
B25F126-BLK1	Met ICP-AES 3122.03	Silver	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Sodium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Thallium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Vanadium	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-BLK1	Met ICP-AES 3122.03	Zinc	UJ: The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
B25F126-MS1	Met ICP-AES 3122.03	Antimony	Exceeds lower control limit
B25F126-MS1	Met ICP-AES 3122.03	Manganese	Exceeds lower control limit
B25F126-MS1	Met ICP-AES 3122.03	Aluminum	Exceeds upper control limit
B25F126-MS1	Met ICP-AES 3122.03	Iron	Exceeds upper control limit
B25F126-MS1	Met ICP-AES 3122.03	Aluminum	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F126-MS1	Met ICP-AES 3122.03	Iron	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F126-MS1	Met ICP-AES 3122.03	Manganese	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F126-MSD1	Met ICP-AES 3122.03	Antimony	Exceeds lower control limit
B25F126-MSD1	Met ICP-AES 3122.03	Manganese	Exceeds lower control limit
B25F126-MSD1	Met ICP-AES 3122.03	Aluminum	Exceeds upper control limit
B25F126-MSD1	Met ICP-AES 3122.03	Iron	Exceeds upper control limit
B25F126-MSD1	Met ICP-AES 3122.03	Aluminum	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F126-MSD1	Met ICP-AES 3122.03	Iron	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.
B25F126-MSD1	Met ICP-AES 3122.03	Manganese	MSB-05: Matrix Spike and Matrix Spike Duplicate were spiked at a concentration significantly lower than the concentration found in the original sample. Spike recoveries were not used to evaluate data quality.

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print) Andrew Jennings		SITE OR SAMPLING EVENT Element LIMS WO 2500334				DATE OF SAMPLE COLLECTION(S) 06 23 2025 MONTH DAY YEAR			COC PAGE 1 of 1	
CONTENTS OF SHIPMENT										
WORK ORDER (WO) AND SAMPLE NUMBER (e.g. 2200058-01)	TYPE OF CONTAINERS				SAMPLED MEDIA				RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)	
	1 L PLASTIC BOTTLE	CANISTER	Glass BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	WATER	SOLID	HAZ WASTE		
NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
2500334-01			1				✓			
2500334-02			1				✓			
2500334-03			1				✓			
2500334-04			1				✓			
2500334-05			1				✓			
2500334-06			1				✓			
2500334-07			1				✓			
2500334-08			1				✓			
2500334-09			1				✓			
2500334-10			1				✓			
2500334-11			1				✓			
2500334-12			1				✓			
2500334-13			1				✓			
2500334-14			1				✓			
2500334-15			1				✓			
2500334-16	1						✓			
										WO Complete
										WO received from lab fridge after sieving, unsealed, temp ok
										KMO 6.26.2025
DESCRIPTION OF SHIPMENT						MODE OF SHIPMENT				
16 CONTAINER(S) CONSISTING OF 0 CRATE(S)						<input type="checkbox"/> COMMERCIAL CARRIER				
1 ICE CHEST(S): OTHER						<input checked="" type="checkbox"/> SAMPLER CONVEYED				
						(SHIPPING AIRBILL NUMBER)				
PERSONNEL CUSTODY RECORD										
RELINQUISHED BY (PM/SAMPLER) ANDREW JENNINGS Digitally signed by ANDREW JENNINGS Date: 2025.06.26 11:29:33 -05'00'						RECEIVED BY KATELYN ORTGIES Digitally signed by KATELYN ORTGIES Date: 2025.06.26 11:55:29 -05'00'			REASON FOR CHANGE OF CUSTODY STC Analysis	
<input type="radio"/> SEALED <input checked="" type="radio"/> UNSEALED						<input type="radio"/> SEALED <input checked="" type="radio"/> UNSEALED				
RELINQUISHED BY (PM/SAMPLER)						RECEIVED BY			REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input type="radio"/> UNSEALED						<input type="radio"/> SEALED <input type="radio"/> UNSEALED				
RELINQUISHED BY (PM/SAMPLER)						RECEIVED BY			REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input type="radio"/> UNSEALED						<input type="radio"/> SEALED <input type="radio"/> UNSEALED				
RELINQUISHED BY (PM/SAMPLER)						RECEIVED BY			REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input type="radio"/> UNSEALED						<input type="radio"/> SEALED <input type="radio"/> UNSEALED				



United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 07/09/2025

Subject: Transmittal of Sample Analysis Results for WO#: **2500335**
Project ID: AJHCMODRXII
Project: Henry County, MO - Davis R-XII School sampling=Cr+6

From: N. Myron Gunsalus, Jr., Chief
Laboratory Technology & Analysis Branch
Laboratory Services and Applied Science Division

To: Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

Enclosed are the analytical data for the above-referenced Work Order[s] (WO) and Project. These results are based on samples as received at the Science and Technology Center. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic transmittal in your records management system. The Regional Laboratory will retain all the original documentation (e.g. COC[s], supporting files, etc.) according to our LSASD records management system. Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. The process of disposing of the samples for this WO will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online Sample/Data Disposition and Customer Survey.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295 or email R7_STC_Helpline@epa.gov.

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United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500335
Project ID: AJHCMODRXII
Project: Henry County,MO - Davis R-XII School
sampling=Cr+6

Reported:
07/09/2025 08:44

Summary Information for the Project in this Report

Project Manager: Andrew Jennings

Organization: LSASD/ASB

Project ID: AJHCMODRXII

Project Description: Henry County,MO - Davis R-XII School sampling=Cr+6

Location: Clinton

State: Missouri

Program: RCRA Enforcement

Site Name: NON SITE-SPECIFIC

Site ID: 0000

Site OU: 00

GPRA Code: 000DA1

Purpose: Site Characterization

QAPP Number: 2025170

Samples in this Report

Lab ID	Sample	Matrix	Latitude	Longitude	Date Sampled	Date Received
2500335-01	C-1	Solid	38.33667	-93.887868	06/23/2025 11:00	06/24/2025
2500335-02	C-2	Solid	38.336901	-93.888055	06/23/2025 09:35	06/24/2025
2500335-03	C-3	Solid	38.336889	-93.887679	06/23/2025 10:05	06/24/2025
2500335-04	C-4	Solid	38.336301	-93.88746	06/23/2025 10:50	06/24/2025
2500335-05	C-5	Solid	38.336311	-93.887131	06/23/2025 10:30	06/24/2025
2500335-06	C-6	Solid	38.336578	-93.887218	06/23/2025 11:30	06/24/2025
2500335-07	C-7	Solid	38.33684	-93.887355	06/23/2025 10:35	06/24/2025
2500335-08	C-8	Solid	38.336796	-93.886769	06/23/2025 09:45	06/24/2025
2500335-09	C-9	Solid	38.336778	-93.886332	06/23/2025 10:30	06/24/2025
2500335-10	C-10	Solid	38.336582	-93.886094	06/23/2025 09:35	06/24/2025
2500335-11	C-11	Solid	38.336172	-93.886143	06/23/2025 09:50	06/24/2025
2500335-12	C-12	Solid	38.336083	-93.886626	06/23/2025 10:10	06/24/2025
2500335-13	C-13	Solid	38.33696	-93.8866	06/23/2025 09:45	06/24/2025
2500335-14	Track	Solid			06/23/2025 11:00	06/24/2025
2500335-15	DUP	Solid			06/23/2025 11:00	06/24/2025

Additional Sample Information: Field Data 1-5

Results as provided by the field sampler. No significant figure rules applied.

Lab ID	Altitude	Coord_Sys_Desc	Datum	ElevDatum	GeoMethod
2500335-01		WGS 1984			
2500335-02		WGS 1984			
2500335-03		WGS 1984			
2500335-04		WGS 1984			
2500335-05		WGS 1984			
2500335-06		WGS 1984			
2500335-07		WGS 1984			
2500335-08		WGS 1984			
2500335-09		WGS 1984			
2500335-10		WGS 1984			

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings	WO#: 2500335	
R7 Laboratory Services and Applied Science	Project ID: AJHCMODRXII	Reported:
LSASD/ASB	Project: Henry County,MO - Davis R-XII School	07/09/2025 08:44
	sampling=Cr+6	

Additional Sample Information: Field Data 1-5 (Continued)
Results as provided by the field sampler. No significant figure rules applied.

Lab ID	Altitude	Coord_Sys_Desc	Datum	ElevDatum	GeoMethod
2500335-11		WGS 1984			
2500335-12		WGS 1984			
2500335-13		WGS 1984			
2500335-14		WGS 1984			
2500335-15		WGS 1984			

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Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results

Lab ID:	2500335-01						
Sample ID:	C-1	Matrix:	Solid	Sampled:	06/23/25 11:00		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		1.0	3.0	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500335
Project ID: AJHCMODRXII
Project: Henry County,MO - Davis R-XII School
sampling=Cr+6

Reported:
07/09/2025 08:44

Sample Results
(Continued)

Lab ID: 2500335-02

Sample ID: C-2

Matrix: Solid

Sampled: 06/23/25 09:35

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Contract SOW-Inorganic							
Laboratory: ESSC							
Chrome (VI)	ND		0.95	2.9	mg/kg	07/02/2025	Contract SOW

Analysis: Cr+6

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-03						
Sample ID:	C-3	Matrix:	Solid	Sampled:	06/23/25 10:05		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	1.0		1.0	3.1	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-04						
Sample ID:	C-4	Matrix:	Solid	Sampled:	06/23/25 10:50		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic **Analysis: Cr+6**

Laboratory: ESSC

Chrome (VI)	ND		0.86	2.6	mg/kg	07/02/2025	Contract SOW
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United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-05						
Sample ID:	C-5	Matrix:	Solid	Sampled:	06/23/25 10:30		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		0.91	2.7	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
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300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-06						
Sample ID:	C-6	Matrix:	Solid	Sampled:	06/23/25 11:30		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic **Analysis: Cr+6**

Laboratory: ESSC

Chrome (VI)	ND		0.84	2.5	mg/kg	07/02/2025	Contract SOW
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United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500335
Project ID: AJHCMODRXII
Project: Henry County,MO - Davis R-XII School
sampling=Cr+6

Reported:
07/09/2025 08:44

Sample Results
(Continued)

Lab ID: 2500335-07

Sample ID: C-7

Matrix: Solid

Sampled: 06/23/25 10:35

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		0.99	3.0	mg/kg	07/02/2025	Contract SOW

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Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-08						
Sample ID:	C-8	Matrix:	Solid	Sampled:	06/23/25 09:45		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		0.96	2.9	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-09						
Sample ID:	C-9	Matrix:	Solid	Sampled:	06/23/25 10:30		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		0.88	2.7	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-10						
Sample ID:	C-10	Matrix:	Solid	Sampled:	06/23/25 09:35		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic **Analysis: Cr+6**

Laboratory: ESSC

Chrome (VI)	ND		0.92	2.8	mg/kg	07/02/2025	Contract SOW
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United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-11						
Sample ID:	C-11	Matrix:	Solid	Sampled:	06/23/25 09:50		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		1.0	3.0	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
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Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500335
Project ID: AJHCMODRXII
Project: Henry County,MO - Davis R-XII School
sampling=Cr+6

Reported:
07/09/2025 08:44

Sample Results
(Continued)

Lab ID: 2500335-12

Sample ID: C-12

Matrix: Solid

Sampled: 06/23/25 10:10

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	0.21		0.21	0.62	mg/kg	07/02/2025	Contract SOW

United States Environmental Protection Agency
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300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500335
Project ID: AJHCMODRXII
Project: Henry County,MO - Davis R-XII School
sampling=Cr+6

Reported:
07/09/2025 08:44

Sample Results
(Continued)

Lab ID: 2500335-13

Sample ID: C-13

Matrix: Solid

Sampled: 06/23/25 09:45

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Contract SOW-Inorganic							
Laboratory: ESSC							
Chrome (VI)	ND		0.98	2.9	mg/kg	07/02/2025	Contract SOW

Analysis: Cr+6

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101

Andrew Jennings R7 Laboratory Services and Applied Science LSASD/ASB	WO#: 2500335 Project ID: AJHCMODRXII Project: Henry County,MO - Davis R-XII School sampling=Cr+6	Reported: 07/09/2025 08:44
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Sample Results
(Continued)

Lab ID:	2500335-14						
Sample ID:	Track	Matrix:	Solid	Sampled:	06/23/25 11:00		

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
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Contract SOW-Inorganic							Analysis: Cr+6
Laboratory: ESSC							
Chrome (VI)	ND		0.14	0.43	mg/kg	07/02/2025	Contract SOW

**United States Environmental Protection Agency
Region 7
300 Minnesota Avenue Kansas City, KS 66101**

Andrew Jennings
R7 Laboratory Services and Applied Science
LSASD/ASB

WO#: 2500335
Project ID: AJHCMODRXII
Project: Henry County,MO - Davis R-XII School
sampling=Cr+6

Reported:
07/09/2025 08:44

Sample Results
(Continued)

Lab ID: 2500335-15

Sample ID: DUP

Matrix: Solid

Sampled: 06/23/25 11:00

Analyte	Result	Qualifiers / Comments	MDL	RL	Units / Basis	Date Analyzed	Method
Contract SOW-Inorganic							
Laboratory: ESSC							
Chrome (VI)	ND		0.20	0.59	mg/kg	07/02/2025	Contract SOW

Analysis: Cr+6

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Certified Analyses included in this Report

Analyte	CAS #	Certifications / Conformancy Standard	
Contract SOW-Inorganic			
Method-Matrix: Contract SOW in Solid			Analysis: Cr+6
Chrome (VI)	18540-29-9	ESSC SOW	

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List of Region 7 Laboratories

Code	Description
EPA	Analysis performed by EPA staff at the Region 7 Laboratory
ESAT	Analysis performed by ESAT contractor staff at the Region 7 Laboratory
CLP	Analysis performed by a Superfund Contract Laboratory Program (CLP) Laboratory
ESSC	Analysis performed by an ESAT Subcontracted Laboratory
Mobile 1	Analysis performed by EPA staff in the Region 7 Microbiology Mobile Laboratory 1 (VIN# WDOPE845285240404)
Mobile 2	Analysis performed by EPA staff in the Region 7 Microbiology Mobile Laboratory 2 (VIN# 1GBE5C3296F413034)

List of Certifications / Conformancy Standards

Code	Description	Number	Expires
ISO	ISO/IEC 17025:2017 - Environmental Testing	L24-414-R2	06/05/2026
EPA DW	EPA Certification of Drinking Water Analysis	09-16-2024	06/05/2026
R7 SOP	Conforms to R7 Laboratory Quality Manual.	QM-K	01/03/2027
SFAM01.1	CLP Superfund Analytical Methods SOW	SFAM01.1	09/09/2026
HRSM02.1	CLP High Resolution Superfund Methods SOW	HRSM02.1	09/09/2026
ESSC SOW	ESAT Subcontract (ESSC) Laboratory SOW	ESSC SOW	03/28/2026

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Explanation of Qualifiers used on this report

Item	Definition
Result	Bold value indicates analyte is DETECTED at or above the MDL or RL, whichever limit is requested in the WO(s).
ND	Analyte NOT DETECTED at or above the at or above the MDL or RL, whichever limit is requested in the WO(s).
MDL or RL	Bold value indicates if the sample result is reported down to the Method Detection Limit or the Reporting Limit.
Dry	Sample results reported on a dry weight basis.

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Explanation of Units used on this report

Units	Description
%	Percent
[blank]	
boat	Milestone boat
cm2	Square Centimeters
copy/uL	Copy per Microliter
Deg C	Degrees Celcius
g	Grams
g/cm2	Grams per Square Centimeter
g/min	Gallons per Minute
gene/rxn	Gene per Reaction
m2	Square Meters
mg	Milligrams
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
mL	Milliliters
mL/L/hr	Milliliters per Liter per Hour
mm	Millimeters
mm/sec	Millimeters per second
MPN/100mL	Most Probable Number per One Hundred Milliliters
mV	Millivolts
ng	Nanograms
ng/g	Nanograms per Gram
ng/kg	Nanograms per Kilogram
ng/L	Nanograms per Liter
ng/mL	Nanograms per Milliliter
NTU	Nephelometric Turbidity Unit
P/A	Presence/Absence
pg/cm2	Picograms per Square Centimeter
pg/L	Picograms per Liter
pg/m3	Picograms per Cubic Meter
SU	Standard Unit
ug/cm2	Micrograms per Square Centimeter
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m2	Micrograms per Square Meter
ug/m3	Micrograms per Cubic Meter
ug/mL	Micrograms per Milliliter
uL	Microliters
umhos/cm	Micromhos per Centimeter
umoles/g	Micromoles per Gram
uS/cm	Microsiemens per Centimeter
Y/N	Yes/No

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Andrew Jennings	WO#: 2500335	
R7 Laboratory Services and Applied Science	Project ID: AJHCMODRXII	Reported:
LSASD/ASB	Project: Henry County,MO - Davis R-XII School	07/09/2025 08:44
	sampling=Cr+6	

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.22:1015
	Cr+6	(Solid)	Result calculations based on MDL

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print) Andrew Jennings		SITE OR SAMPLING EVENT 2500335 KMO 6.24.25 Element LIMS WO 2500225		DATE OF SAMPLE COLLECTION(S) 06 23 2025 MONTH DAY YEAR			COC PAGE 1 of 1				
8oz KMO 6.24.25 CONTENTS OF SHIPMENT											
WORK ORDER (WO) AND SAMPLE NUMBER (e.g. 2200058-01)	TYPE OF CONTAINERS				SAMPLED MEDIA				RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)		
	1 L PLASTIC BOTTLE	CANISTER	Glass BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	WATER	SOLID	HAZ WASTE		AIR	OTHER
NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER											
2500335-01			1				✓				MS/MSD Volume
2500335-02			1				✓				
2500335-03			1				✓				
2500335-04			1				✓				
2500335-05			1				✓				
2500335-06			1				✓				
2500335-07			1				✓				
2500335-08			1				✓				
2500335-09			1				✓				
2500335-10			1				✓				
2500335-11			1				✓				
2500335-12			1				✓				
2500335-13			1				✓				
2500335-14			1				✓				
2500335-15			1				✓				
											WO Complete
											hand delivered from lab fridge to
											L55, unsealed, temp ok
											KMO 6.24.25
DESCRIPTION OF SHIPMENT					MODE OF SHIPMENT						
15 CONTAINER(S) CONSISTING OF 0 CRATE(S)					<input type="checkbox"/> COMMERCIAL CARRIER						
1 ICE CHEST(S): OTHER					<input checked="" type="checkbox"/> SAMPLER CONVEYED						
					(SHIPPING AIRBILL NUMBER)						
PERSONNEL CUSTODY RECORD											
RELINQUISHED BY (PM/SAMPLER) ANDREW JENNINGS Digitally signed by ANDREW JENNINGS Date: 2025.06.24 15:51:08 -05'00'					RECEIVED BY KATELYN ORTGIES Digitally signed by KATELYN ORTGIES Date: 2025.06.24 15:59:33 -05'00'					REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input checked="" type="radio"/> UNSEALED					<input type="radio"/> SEALED <input checked="" type="radio"/> UNSEALED					STC analysis	
RELINQUISHED BY (PM/SAMPLER)					RECEIVED BY					REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input type="radio"/> UNSEALED					<input type="radio"/> SEALED <input type="radio"/> UNSEALED						
RELINQUISHED BY (PM/SAMPLER)					RECEIVED BY					REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input type="radio"/> UNSEALED					<input type="radio"/> SEALED <input type="radio"/> UNSEALED						
RELINQUISHED BY (PM/SAMPLER)					RECEIVED BY					REASON FOR CHANGE OF CUSTODY	
<input type="radio"/> SEALED <input type="radio"/> UNSEALED					<input type="radio"/> SEALED <input type="radio"/> UNSEALED						

Appendix C – Field Activities Form

LSASD Field Activity Report

A Field Activity Report, using the form below (in accordance with SOP 1740.03), is required anytime LSASD staff go to the field to collect environmental samples, observations, or measurements, or to install, service, repair, or retrieve equipment used to collect environmental samples, observations, or measurements. LSASD staff trips to the field to assess the operation of environmental sampling and measurement equipment, also require Field Activity Reports.

PROJECT TITLE	Davis School Soil Sampling under QAPP #2025170
PROJECT CUSTOMER	Region 7, Enforcement and Compliance Assurance Division (ECAD)
PURPOSE AND GOALS OF THE FIELD ACTIVITY	To collect soil samples from the Davis School and provide analytical results to assist the school's decision making regarding the fall semester.
START AND END DATE(s)	06/23/2025 (start & end)
FIELD TEAM MEMBERS	Randolph Brown, USEPA Region 7 (Supervisor) Andrew Jennings, USEPA Region 7 (Project Manager) Daniel O'Crowley, USEPA Region 7 Wilhelm Fraundorfer, USEPA Region 7 Mark Hansen, USEPA Region 7 Toni Castro, USEPA Region 7
LOCATIONAL INFORMATION, ACTIONS PERFORMED, AND THE RESULTS OF THOSE ACTIONS	The sampling team arrived on-site at approximately 8:30 AM and began marking sampling locations. The Region 7 communications team arrived on-site at approximately 9:00 AM and a brief safety tailgate meeting was held where all field staff signed the project's health and safety plan. Sampling began shortly after 9:00 AM. The project manager (Andrew Jennings) assigned the other field staff sampling units to sample individually. During sampling Region 7 communications staff took photos and video of the field crew sampling. Randolph Brown also gave a brief video interview to communications staff regarding the purpose of the field activities. Sampling ended at approximately 11:30 AM. Field staff performed final decontamination, packed up field supplies, and departed the site at approximately 12:00 PM. A more detailed description of the field activities can be found in the project field notes, as well as from the laboratory chain of custody documentation. Photos, videos, scanned field notes, sampling results, and all other project documents are located on the project manager's shared drive.
SIGNIFICANT MEETINGS	Safety Tailgate Meeting, 9:00 AM, 06/23/2025 – Field staff and observers discussed potential safety hazards that could be encountered during the field activities. Hazards related to the high heat were the primary focus. Preventative measures, symptoms, and response actions were discussed. The field staff signed the project's health and safety plan.
ENVIRONMENTAL OR WEATHER CONDITIONS	The weather was generally hot and sunny. Temperatures were about 80 F at the start of field activities and were about 90 F by the time staff left the site. Conditions were mostly sunny and clear with some high-altitude clouds in the sky.
REPORT AUTHOR'S NAME, TITLE, AND ORGANIZATIONAL AFFILIATION	Wilhelm Fraundorfer, USEPA Region 7 LSASD, Applied Sciences Branch.
REPORT AUTHOR'S SIGNATURE	
APPROVAL SIGNATURE	

PHOTO DOCUMENTATION



Photo No: 1	Date: 6/23/2025	Time: ~10:00
Photographer: Randolph Brown		Direction: West
Description: The front of the Davis School, which is the site where the sampling was conducted.		



Photo No: 2	Date: 6/23/2025	Time: ~10:15
Photographer: Randolph Brown	Direction: Southwest	
Description: The C10 sampling unit, which is the grassy area located directly in front of the Davis School.		



Photo No: 3	Date: 6/23/2025	Time: ~9:45
Photographer: Randolph Brown		Direction: Northeast
Description: An aliquot is collected from sampling unit C9 by Wilhelm Fraundorfer.		



Photo No: 4	Date: 6/23/2025	Time: ~09:50
Photographer: Randolph Brown		Direction: West
Description: Another aliquot being collected from sampling unit C9 by Wilhelm Fraundorfer.		



Photo No: 5	Date: 6/23/2025	Time: ~11:15
Photographer: Randolph Brown		Direction: North
Description: Daniel O’Crowley at the sample staging and labeling area on the truck tailgate.		

Appendix D – USGS Geochemical Dataset for COPCs

rec_id	lab_id	species	unit	qvalue	amethod	summary	parameter	mthd_parameter
185577	D141360	As	ppm	-1000	ES_SQ	-1000, ES_SQ	As_ppm	As_Mthd
185589	D141372	As	ppm	-1000	ES_SQ	-1000, ES_SQ	As_ppm	As_Mthd
186168	D145425	As	ppm	11	CM_Acid	11, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
186361	D145618	As	ppm	9.3	CM_Acid	9.3, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
186415	D145672	As	ppm	8.1	CM_Acid	8.1, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
186675	D145932	As	ppm	11	CM_Acid	11, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
186714	D145971	As	ppm	13	CM_Acid	13, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
186833	D146090	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
186856	D146113	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187136	D146393	As	ppm	16	CM_Acid	16, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187298	D146555	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187327	D146584	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187504	D152806	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187508	D152811	As	ppm	7.1	CM_Acid	7.1, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187511	D152814	As	ppm	9.5	CM_Acid	9.5, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187527	D152831	As	ppm	8.6	CM_Acid	8.6, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187531	D152835	As	ppm	17	CM_Acid	17, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187565	D152869	As	ppm	8.8	CM_Acid	8.8, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187571	D152875	As	ppm	9.6	CM_Acid	9.6, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187605	D152909	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187607	D152911	As	ppm	19	CM_Acid	19, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187611	D152915	As	ppm	8.7	CM_Acid	8.7, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187676	D152981	As	ppm	11	CM_Acid	11, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187720	D153025	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187721	D153026	As	ppm	9.6	CM_Acid	9.6, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187725	D153030	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187739	D153044	As	ppm	13	CM_Acid	13, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187754	D153059	As	ppm	14	CM_Acid	14, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187757	D153062	As	ppm	7.9	CM_Acid	7.9, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187772	D153077	As	ppm	7	CM_Acid	7, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187798	D153103	As	ppm	15	CM_Acid	15, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187816	D153122	As	ppm	14	CM_Acid	14, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187849	D153156	As	ppm	19	CM_Acid	19, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187859	D153166	As	ppm	30	CM_Acid	30, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187861	D153168	As	ppm	9.1	CM_Acid	9.1, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187864	D153171	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187873	D153180	As	ppm	13	CM_Acid	13, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187888	D153196	As	ppm	14	CM_Acid	14, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187890	D153198	As	ppm	15	CM_Acid	15, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187903	D153211	As	ppm	11	CM_Acid	11, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187927	D153235	As	ppm	14	CM_Acid	14, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187928	D153236	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187934	D153242	As	ppm	9.6	CM_Acid	9.6, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187941	D153249	As	ppm	9.3	CM_Acid	9.3, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd

187978	D153287	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
187984	D153293	As	ppm	8.4	CM_Acid	8.4, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188394	D156212	As	ppm	9.3	CM_Acid	9.3, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188418	D156236	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188431	D156249	As	ppm	9.9	CM_Acid	9.9, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188453	D156271	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188482	D156300	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188491	D156309	As	ppm	12	CM_Acid	12, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
188518	D156336	As	ppm	10	CM_Acid	10, CM_Acid; -1000, ES_SQ	As_ppm	As_Mthd
959655	D141360	Co	ppm	15	ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
959667	D141372	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
960246	D145425	Co	ppm	15	ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
960439	D145618	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
960493	D145672	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
960753	D145932	Co	ppm	15	ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
960792	D145971	Co	ppm	20	ES_SQ	20, ES_SQ	Co_ppm	Co_Mthd
960911	D146090	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
960934	D146113	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
961214	D146393	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
961376	D146555	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961405	D146584	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
961579	D152806	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
961583	D152811	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
961586	D152814	Co	ppm	5	ES_SQ	5, ES_SQ	Co_ppm	Co_Mthd
961602	D152831	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961606	D152835	Co	ppm	30	ES_SQ	30, ES_SQ	Co_ppm	Co_Mthd
961640	D152869	Co	ppm	15	ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
961646	D152875	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961680	D152909	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961682	D152911	Co	ppm	20	ES_SQ	20, ES_SQ	Co_ppm	Co_Mthd
961686	D152915	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961751	D152981	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961795	D153025	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961796	D153026	Co	ppm	10	ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
961800	D153030	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961814	D153044	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961829	D153059	Co	ppm	15	ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
961832	D153062	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961847	D153077	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961873	D153103	Co	ppm	30	ES_SQ	30, ES_SQ	Co_ppm	Co_Mthd
961891	D153122	Co	ppm	20	ES_SQ	20, ES_SQ	Co_ppm	Co_Mthd
961924	D153156	Co	ppm	7	ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
961934	D153166	Co	ppm	30	ES_SQ	30, ES_SQ	Co_ppm	Co_Mthd
961936	D153168	Co	ppm	3	ES_SQ	3, ES_SQ	Co_ppm	Co_Mthd
961939	D153171	Co	ppm	15	ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd

961948	D153180	Co	ppm	15 ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
961963	D153196	Co	ppm	15 ES_SQ	15, ES_SQ	Co_ppm	Co_Mthd
961965	D153198	Co	ppm	50 ES_SQ	50, ES_SQ	Co_ppm	Co_Mthd
961978	D153211	Co	ppm	7 ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
962002	D153235	Co	ppm	10 ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
962003	D153236	Co	ppm	10 ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
962009	D153242	Co	ppm	7 ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
962016	D153249	Co	ppm	30 ES_SQ	30, ES_SQ	Co_ppm	Co_Mthd
962053	D153287	Co	ppm	20 ES_SQ	20, ES_SQ	Co_ppm	Co_Mthd
962059	D153293	Co	ppm	5 ES_SQ	5, ES_SQ	Co_ppm	Co_Mthd
962469	D156212	Co	ppm	7 ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
962493	D156236	Co	ppm	7 ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
962506	D156249	Co	ppm	10 ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
962528	D156271	Co	ppm	10 ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
962557	D156300	Co	ppm	7 ES_SQ	7, ES_SQ	Co_ppm	Co_Mthd
962566	D156309	Co	ppm	10 ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
962593	D156336	Co	ppm	10 ES_SQ	10, ES_SQ	Co_ppm	Co_Mthd
1064250	D141360	Cr	ppm	100 ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1064262	D141372	Cr	ppm	50 ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1064841	D145425	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065034	D145618	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065088	D145672	Cr	ppm	50 ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1065348	D145932	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065387	D145971	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065506	D146090	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065529	D146113	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065809	D146393	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1065971	D146555	Cr	ppm	50 ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066000	D146584	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066174	D152806	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066178	D152811	Cr	ppm	30 ES_SQ	30, ES_SQ	Cr_ppm	Cr_Mthd
1066181	D152814	Cr	ppm	50 ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066197	D152831	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066201	D152835	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066235	D152869	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066241	D152875	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066275	D152909	Cr	ppm	50 ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066277	D152911	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066281	D152915	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066346	D152981	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066390	D153025	Cr	ppm	50 ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066391	D153026	Cr	ppm	100 ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1066395	D153030	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066409	D153044	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066424	D153059	Cr	ppm	70 ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd

1066427	D153062	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066442	D153077	Cr	ppm	50	ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066468	D153103	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066486	D153122	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066519	D153156	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066529	D153166	Cr	ppm	100	ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1066531	D153168	Cr	ppm	100	ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1066534	D153171	Cr	ppm	100	ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1066543	D153180	Cr	ppm	100	ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1066558	D153196	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066560	D153198	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066573	D153211	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066597	D153235	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066598	D153236	Cr	ppm	50	ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066604	D153242	Cr	ppm	50	ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066611	D153249	Cr	ppm	50	ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1066648	D153287	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1066654	D153293	Cr	ppm	100	ES_SQ	100, ES_SQ	Cr_ppm	Cr_Mthd
1067064	D156212	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1067088	D156236	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1067101	D156249	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1067123	D156271	Cr	ppm	50	ES_SQ	50, ES_SQ	Cr_ppm	Cr_Mthd
1067152	D156300	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1067161	D156309	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd
1067188	D156336	Cr	ppm	70	ES_SQ	70, ES_SQ	Cr_ppm	Cr_Mthd

Appendix E – Background Threshold ProUCL Output

1	A	B	C	D	E	F	G	H	I	J	K	L
2	User Selected Options			Background Statistics for Uncensored Full Data Sets								
3	Date/Time of Computation			ProUCL 5.2 6/6/2025 11:18:13 AM								
4	From File			C:\Users\RBROWN\OneDrive - Environmental Protection Agency (EPA)\Documents\ASB Sites\Montrose CCR\								
5	Full Precision			OFF								
6	Confidence Coefficient			95%								
7	Coverage			95%								
8	New or Future K Observations			1								
9	Number of Bootstrap Operations			2000								
10												
11	As											
12												
13	General Statistics											
14	Total Number of Observations			52	Number of Distinct Observations			24				
15	Minimum			0	First Quartile			9.3				
16	Second Largest			19	Median			11				
17	Maximum			30	Third Quartile			13				
18	Mean			11.3	SD			4.374				
19	Coefficient of Variation			0.387	Skewness			1.138				
20												
21	Critical Values for Background Threshold Values (BTVs)											
22	Tolerance Factor K (For UTL)			2.049	d2max (for USL)			2.972				
23												
24	Normal GOF Test											
25	Shapiro Wilk Test Statistic			0.87	Normal GOF Test							
26	1% Shapiro Wilk P Value			6.2699E-6	Data Not Normal at 1% Significance Level							
27	Lilliefors Test Statistic			0.168	Lilliefors GOF Test							
28	1% Lilliefors Critical Value			0.141	Data Not Normal at 1% Significance Level							
29	Data Not Normal at 1% Significance Level											
30												
31	Background Statistics Assuming Normal Distribution											
32	95% UTL with 95% Coverage		20.27	90% Percentile (z)		16.91						
33	95% UPL (t)		18.7	95% Percentile (z)		18.5						
34	95% USL		24.3	99% Percentile (z)		21.48						
35												
36	Gamma Statistics											
37	Gamma Statistics Not Available											
38												
39	Cannot Compute Gamma Statistics!											
40												
41	Cannot Compute Log Statistics											
42												
43	Nonparametric Distribution Free Background Statistics											
44	Data do not follow a Discernible Distribution											
45												
46	Nonparametric Upper Limits for Background Threshold Values											
47	Order of Statistic, order		52	95% UTL with 95% Coverage		30						
48	Approx, f used to compute achieved CC		2.737	Approximate Actual Confidence Coefficient achieved by UTL		0.931						
49				Approximate Sample Size needed to achieve specified CC		59						
50	95% Percentile Bootstrap UTL with 95% Coverage		23.95	95% BCA Bootstrap UTL with 95% Coverage		23.95						
51	95% UPL		19	90% Percentile		15						
52	90% Chebyshev UPL		24.55	95% Percentile		17.9						
53	95% Chebyshev UPL		30.55	99% Percentile		24.39						
54	95% USL		30									
55												

	A	B	C	D	E	F	G	H	I	J	K	L
56	Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.											
57	Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers											
58	and consists of observations collected from clean unimpacted locations.											
59	The use of USL tends to provide a balance between false positives and false negatives provided the data											
60	represents a background data set and when many onsite observations need to be compared with the BTV.											
61												

	A	B	C	D	E	F	G	H	I	J	K	L
1				Background Statistics for Uncensored Full Data Sets								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.2 6/6/2025 11:21:57 AM								
4	From File			C:\Users\RBROWN\OneDrive - Environmental Protection Agency (EPA)\Documents\ASB Sites\Montrose CCR\U								
5	Full Precision			OFF								
6	Confidence Coefficient			95%								
7	Coverage			95%								
8	New or Future K Observations			1								
9	Number of Bootstrap Operations			2000								
10												
11	Cr											
12												
13	General Statistics											
14	Total Number of Observations				52	Number of Distinct Observations					4	
15	Minimum				30	First Quartile					70	
16	Second Largest				100	Median					70	
17	Maximum				100	Third Quartile					70	
18	Mean				69.42	SD					15.26	
19	Coefficient of Variation				0.22	Skewness					0.376	
20	Mean of logged Data				4.216	SD of logged Data					0.229	
21												
22	Critical Values for Background Threshold Values (BTVs)											
23	Tolerance Factor K (For UTL)				2.049	d2max (for USL)					2.972	
24												
25	Normal GOF Test											
26	Shapiro Wilk Test Statistic				0.77	Normal GOF Test						
27	1% Shapiro Wilk P Value				2.336E-10	Data Not Normal at 1% Significance Level						
28	Lilliefors Test Statistic				0.35	Lilliefors GOF Test						
29	1% Lilliefors Critical Value				0.141	Data Not Normal at 1% Significance Level						
30	Data Not Normal at 1% Significance Level											
31												
32	Background Statistics Assuming Normal Distribution											
33	95% UTL with		95% Coverage	100.7	90% Percentile (z)					88.98		
34			95% UPL (t)	95.24	95% Percentile (z)					94.53		
35			95% USL	114.8	99% Percentile (z)					104.9		
36												
37	Gamma GOF Test											
38	A-D Test Statistic				5.936	Anderson-Darling Gamma GOF Test						
39	5% A-D Critical Value				0.748	Data Not Gamma Distributed at 5% Significance Level						
40	K-S Test Statistic				0.333	Kolmogorov-Smirnov Gamma GOF Test						
41	5% K-S Critical Value				0.123	Data Not Gamma Distributed at 5% Significance Level						
42	Data Not Gamma Distributed at 5% Significance Level											
43												
44	Gamma Statistics											
45	k hat (MLE)			20.4	k star (bias corrected MLE)					19.24		
46	Theta hat (MLE)			3.403	Theta star (bias corrected MLE)					3.609		
47	nu hat (MLE)			2122	nu star (bias corrected)					2000		
48	MLE Mean (bias corrected)			69.42	MLE Sd (bias corrected)					15.83		
49												
50	Background Statistics Assuming Gamma Distribution											
51	95% Wilson Hilferty (WH) Approx. Gamma UPL			97.68	90% Percentile					90.32		
52	95% Hawkins Wixley (HW) Approx. Gamma UPL			98.14	95% Percentile					97.34		
53	95% WH Approx. Gamma UTL with		95% Coverage	104.8	99% Percentile					111.4		
54	95% HW Approx. Gamma UTL with		95% Coverage	105.6								
55	95% WH USL			124.8	95% HW USL					126.7		

	A	B	C	D	E	F	G	H	I	J	K	L
1				Background Statistics for Uncensored Full Data Sets								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.2 6/6/2025 11:21:08 AM								
4	From File			C:\Users\RBROWN\OneDrive - Environmental Protection Agency (EPA)\Documents\ASB Sites\Montrose CCR\U								
5	Full Precision			OFF								
6	Confidence Coefficient			95%								
7	Coverage			95%								
8	New or Future K Observations			1								
9	Number of Bootstrap Operations			2000								
10												
11	Co											
12												
13	General Statistics											
14	Total Number of Observations				52	Number of Distinct Observations					8	
15	Minimum				3	First Quartile					7	
16	Second Largest				30	Median					10	
17	Maximum				50	Third Quartile					15	
18	Mean				12.42	SD					8.592	
19	Coefficient of Variation				0.692	Skewness					2.308	
20	Mean of logged Data				2.354	SD of logged Data					0.549	
21												
22	Critical Values for Background Threshold Values (BTVs)											
23	Tolerance Factor K (For UTL)				2.049	d2max (for USL)					2.972	
24												
25	Normal GOF Test											
26	Shapiro Wilk Test Statistic				0.736	Normal GOF Test						
27	1% Shapiro Wilk P Value				9.961E-12	Data Not Normal at 1% Significance Level						
28	Lilliefors Test Statistic				0.284	Lilliefors GOF Test						
29	1% Lilliefors Critical Value				0.141	Data Not Normal at 1% Significance Level						
30	Data Not Normal at 1% Significance Level											
31												
32	Background Statistics Assuming Normal Distribution											
33	95% UTL with		95% Coverage	30.03	90% Percentile (z)					23.43		
34			95% UPL (t)	26.95	95% Percentile (z)					26.56		
35			95% USL	37.96	99% Percentile (z)					32.41		
36												
37	Gamma GOF Test											
38	A-D Test Statistic				2.88	Anderson-Darling Gamma GOF Test						
39	5% A-D Critical Value				0.757	Data Not Gamma Distributed at 5% Significance Level						
40	K-S Test Statistic				0.245	Kolmogorov-Smirnov Gamma GOF Test						
41	5% K-S Critical Value				0.124	Data Not Gamma Distributed at 5% Significance Level						
42	Data Not Gamma Distributed at 5% Significance Level											
43												
44	Gamma Statistics											
45	k hat (MLE)			3.17	k star (bias corrected MLE)					3		
46	Theta hat (MLE)			3.919	Theta star (bias corrected MLE)					4.141		
47	nu hat (MLE)			329.7	nu star (bias corrected)					312		
48	MLE Mean (bias corrected)			12.42	MLE Sd (bias corrected)					7.173		
49												
50	Background Statistics Assuming Gamma Distribution											
51	95% Wilson Hilferty (WH) Approx. Gamma UPL			26.14	90% Percentile					22.04		
52	95% Hawkins Wixley (HW) Approx. Gamma UPL			26.18	95% Percentile					26.07		
53	95% WH Approx. Gamma UTL with		95% Coverage	30.48	99% Percentile					34.81		
54	95% HW Approx. Gamma UTL with		95% Coverage	30.8								
55	95% WH USL			43.87	95% HW USL					45.55		

	A	B	C	D	E	F	G	H	I	J	K	L
1				Background Statistics for Uncensored Full Data Sets								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.2 7/18/2025 8:47:51 AM								
4	From File			C:\Users\RBROWN\OneDrive - Environmental Protection Agency (EPA)\Documents\ASB Sites\Montrose CCR\U								
5	Full Precision			OFF								
6	Confidence Coefficient			95%								
7	Coverage			95%								
8	New or Future K Observations			1								
9	Number of Bootstrap Operations			2000								
10												
11	Pb											
12												
13	General Statistics											
14	Total Number of Observations				52		Number of Distinct Observations				6	
15	Minimum				10		First Quartile				18.75	
16	Second Largest				50		Median				20	
17	Maximum				100		Third Quartile				30	
18	Mean				24.04		SD				12.95	
19	Coefficient of Variation				0.539		Skewness				4.193	
20	Mean of logged Data				3.097		SD of logged Data				0.375	
21												
22	Critical Values for Background Threshold Values (BTVs)											
23	Tolerance Factor K (For UTL)				2.049		d2max (for USL)				2.972	
24												
25	Normal GOF Test											
26	Shapiro Wilk Test Statistic				0.591		Normal GOF Test					
27	1% Shapiro Wilk P Value				0		Data Not Normal at 1% Significance Level					
28	Lilliefors Test Statistic				0.284		Lilliefors GOF Test					
29	1% Lilliefors Critical Value				0.141		Data Not Normal at 1% Significance Level					
30	Data Not Normal at 1% Significance Level											
31												
32	Background Statistics Assuming Normal Distribution											
33	95% UTL with		95% Coverage		50.57		90% Percentile (z)				40.63	
34			95% UPL (t)		45.94		95% Percentile (z)				45.34	
35			95% USL		62.53		99% Percentile (z)				54.16	
36												
37	Gamma GOF Test											
38	A-D Test Statistic				3.323		Anderson-Darling Gamma GOF Test					
39	5% A-D Critical Value				0.753		Data Not Gamma Distributed at 5% Significance Level					
40	K-S Test Statistic				0.256		Kolmogorov-Smirnov Gamma GOF Test					
41	5% K-S Critical Value				0.123		Data Not Gamma Distributed at 5% Significance Level					
42	Data Not Gamma Distributed at 5% Significance Level											
43												
44	Gamma Statistics											
45	k hat (MLE)				6.222		k star (bias corrected MLE)				5.875	
46	Theta hat (MLE)				3.864		Theta star (bias corrected MLE)				4.091	
47	nu hat (MLE)				647		nu star (bias corrected)				611	
48	MLE Mean (bias corrected)				24.04		MLE Sd (bias corrected)				9.917	
49												
50	Background Statistics Assuming Gamma Distribution											
51	95% Wilson Hilferty (WH) Approx. Gamma UPL				42.31		90% Percentile				37.3	
52	95% Hawkins Wixley (HW) Approx. Gamma UPL				42.08		95% Percentile				42.33	
53	95% WH Approx. Gamma UTL with		95% Coverage		47.56		99% Percentile				52.88	

	A	B	C	D	E	F	G	H	I	J	K	L
54	95% HW Approx. Gamma UTL with 95% Coverage					47.47						
55	95% WH USL					63.05	95% HW USL					63.77
56												
57	Lognormal GOF Test											
58	Shapiro Wilk Test Statistic					0.851	Shapiro Wilk Lognormal GOF Test					
59	10% Shapiro Wilk P Value					7.9753E-7	Data Not Lognormal at 10% Significance Level					
60	Lilliefors Test Statistic					0.241	Lilliefors Lognormal GOF Test					
61	10% Lilliefors Critical Value					0.112	Data Not Lognormal at 10% Significance Level					
62	Data Not Lognormal at 10% Significance Level											
63												
64	Background Statistics assuming Lognormal Distribution											
65	95% UTL with		95% Coverage		47.71	90% Percentile (z)					35.78	
66			95% UPL (t)		41.72	95% Percentile (z)					41	
67			95% USL		67.43	99% Percentile (z)					52.93	
68												
69	Nonparametric Distribution Free Background Statistics											
70	Data do not follow a Discernible Distribution											
71												
72	Nonparametric Upper Limits for Background Threshold Values											
73	Order of Statistic, order					52	95% UTL with 95% Coverage					100
74	Approx, f used to compute achieved CC					2.737	Approximate Actual Confidence Coefficient achieved by UTL					0.931
75							Approximate Sample Size needed to achieve specified CC					59
76	95% Percentile Bootstrap UTL with		95% Coverage		72.5	95% BCA Bootstrap UTL with 95% Coverage					30	
77			95% UPL		37	90% Percentile					30	
78			90% Chebyshev UPL		63.26	95% Percentile					30	
79			95% Chebyshev UPL		81.02	99% Percentile					74.5	
80			95% USL		100							
81												
82	Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.											
83	Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers											
84	and consists of observations collected from clean unimpacted locations.											
85	The use of USL tends to provide a balance between false positives and false negatives provided the data											
86	represents a background data set and when many onsite observations need to be compared with the BTV.											
87												