



February 14, 2025

Steve Aldrich
Director of Facilities and Grounds
Liberty School District
801 Kent Street
Liberty, Missouri 64068

Project: Limited Lead in Drinking Water Testing
Address: 8 Victory Lane, Liberty, Missouri 64068

Steve Aldrich

On June 28, 2024, and September 4, 2024, Jeff Hurst and/or Bradly Young of Axiom Service Professionals (ASP), conducted lead in drinking water resampling at the above referenced address. Inspectors' certifications are provided in Appendix A. Sampling locations were derived from previously elevated water sources selected for retesting by the Liberty School District. On September 4, 2024, a total of 4 samples were collected from various potential drinking water outlets including sources used for drinking, cooking, or cleaning of cooking and eating utensils throughout the building.

Drinking Water Standards

The use of lead solder and other lead-containing materials as defined in the EPA Safe Drinking Water Act in connecting household plumbing to public water supplies was prohibited as of 1986. The act established the definition of "lead free" to be less than 8% as a weighted average across wetted surfaces of a pipe, pipe fitting, plumbing fitting, and fixture and 0.2% lead for solder and flux. In 2011, the definition of "lead free" as it applied to wetted surfaces of a pipe, pipe fitting, and plumbing fitting and fixture was reduced from 8% to 0.25% as a weighted average. Many older structures still have lead pipe or lead-soldered plumbing internally, which may substantially increase the lead content of water at the tap. Nationwide regulations controlling the lead content of drinking-water coolers in schools went into effect in 1989.

In 1991, the EPA published the Lead and Copper Rule establishing limits on the amount of lead and copper in drinking water. This regulation can be found under 40 CFR Part 141, Subpart I. Reference: <https://www.epa.gov/dwreginfo/lead-and-copper-rule>

The EPA has set lead in drinking water standards as outlined below.

- For lead, the maximum contaminant level goal (MCLG) is zero. This is the levels determined to be safe by toxicological and biomedical considerations, independent of feasibility. EPA's National Primary Drinking Water Regulations for Lead establish a treatment level of **0.015 mg/L** or **15 ppb** (parts per billion) in municipal drinking water systems.

The Missouri Senate Bill 681 “Get the Lead Out of School Drinking Water Act”, passed in 2022, has set the standard summarized below.

- On or before January 1, 2024, each school shall conduct an inventory of all drinking water outlets and all outlets that are used for dispensing water for cooking or for cleaning cooking and eating utensils in each of the school’s buildings. A plan for testing should then be developed, prioritizing early childhood education programs and elementary schools, and made available to the public.
- The bill outlines that beginning in the 2023-2024 school year and for each subsequent school year, each school shall provide drinking water with a lead concentration below five parts per billion (**5 ppb**). Any school with greater than or equal to 5 ppb shall provide results and remediation plans to parents and staff within 7 business days of receiving results.

Drinking Fountain Identification

Drinking fountains throughout the school were visually assessed to determine if they matched those listed by the EPA to be lead-containing. The list of drinking fountains reported by the EPA to contain lead-lined holding tanks or solder joints is presented as Appendix B. Below is a list of drinking fountains within the school that match those reported by the EPA to be lead-containing.

Location	Make	Model #	Serial #
None Matching			

Water Sampling Methods:

Water samples were collected from each selected location as “first draw” and/or “flush”. First draw samples typically represent worst case sample results. A flush sample is typically collected to determine if an elevation is originating beyond the fixture in the fixture supply line or beyond. Samples were deposited into a non-preserved 250-milliliter sterile Nalgene screw top bottle. Immediately following sample collection, the samples were delivered to Keystone Laboratories located at 8857 Long Street, Lenexa, Kansas 66215, and/or Pace Analytical Services, LLC located at 9608 Loiret Boulevard, Lenexa, Kansas 66219. Upon arrival at the laboratories, samples were preserved through addition of nitric acid.

Keystone Laboratories and Pace Analytical Services, LLC are accredited through the Missouri Department of Natural Resources for analysis of lead in water.

Below is a summary of the water sampling results as reported in Appendix C by Keystone Laboratories and/or Pace Analytical Services LLC. Results exceeding the applicable drinking water standards are shown in **red text**.

June 28, 2024, Water Sampling Results:

Sample #	Location	Source Under Test	Test Type	Lead Result (ppb)
8-3-RDF	District Administration Center-004564-By Elevator 4th Floor-Boys-Right	Sink Tap	Retest – First Draw	139
8-4-RDF	District Administration Center-004565-By Elevator 4th Floor-Boys-Left	Sink Tap	Retest – First Draw	29.1
8-5-RDF	District Administration Center-004566-By Elevator 4th Floor-Girls-Right	Sink Tap	Retest – First Draw	6.6
8-6-RDF	District Administration Center-004567-By Elevator 4th Floor-Girls-Left	Sink Tap	Retest – First Draw	280
8-12-RDF	District Administration Center-004559-By Elevator 3rd Floor-Boys- Right	Sink Tap	Retest – First Draw	57.7
8-13-RDF	District Administration Center-004560-By Elevator 3rd Floor-Boys-Left	Sink Tap	Retest – First Draw	86.5
8-14-RDF	District Administration Center-004561-By Elevator 3rd Floor-Girls-Right	Sink Tap	Retest – First Draw	10.3
8-20-RDF	District Administration Center-004550-By Elevator 2nd Floor-Boys-Left	Sink Tap	Retest – First Draw	4040
8-21-RDF	District Administration Center-004551-By Elevator 2nd Floor-Boys-Right	Sink Tap	Retest – First Draw	2310
8-22-RDF	District Administration Center-004552-By Elevator 2nd Floor-Girls-Right	Sink Tap	Retest – First Draw	40
8-23-RDF	District Administration Center-004552-By Elevator 2nd Floor-Girls-Right	Sink Tap	Retest – First Draw	33.5
8-29-RDF	District Administration Center-004545-By Elevator 1st Floor-Boys-Left	Sink Tap	Retest – First Draw	50.8
8-30-RDF	District Administration Center-004546-By Elevator 1st Floor-Boys-Right	Sink Tap	Retest – First Draw	94
8-31-RDF	District Administration Center-004547-By Elevator 1st Floor-Girls- Right	Sink Tap	Retest – First Draw	15.7

Sample #	Location	Source Under Test	Test Type	Lead Result (ppb)
8-32-RDF	District Administration Center-004548-By Elevator 1st Floor- Girls-Left	Sink Tap	Retest – First Draw	53.1

September 4, 2024, Water Sampling Results:

Sample #	Location	Source Under Test	Test Type	Lead Result (ppb)
8-1-RDF	District Administration Center-004563B-By Elevator 4 th Floor	Drinking Fountain	Retest – First Draw	ND
8-2-RDF	District Administration Center-004563F-By Elevator 4th Floor	Bottle Filler	Retest – First Draw	ND
8-32-RDF	District Administration Center-004548-By Elevator-1st Floor- Girls Left	Sink Tap	Retest – First Draw	44.8
8-33-RDF	District Administration Center-004544B-By Elevator 1st Floor	Drinking Fountain	Retest – First Draw	ND

ND=Not Detected at or above adjusted reporting limit

Photos of the sampling locations are provided in Appendix D. A diagram containing identifiers on the outlets tested is provided in Appendix E.

Short-Term Control Measures

- Per the State of Missouri Senate Bills Nos. 681 & 662, a remediation plan should be developed and executed.
- Take immediate steps to prevent use from the failed source(s).
- Shut-off problem outlets.
- Post “Not for Drinking/Cooking” at Problem Outlets. If initial sample results from an outlet(s) exceed the remediation trigger level, but are not routinely used for human ingestion (e.g., handwashing), clear signage can be posted to notify people that the outlet is not to be used for drinking or cooking until the problem is resolved.
- Consider performing follow-up flush testing in order to attempt to identify what component within the system is the source of the elevated lead concentration. This testing will assist to pinpoint where lead is getting into drinking water (i.e., fixtures versus interior plumbing) so that appropriate corrective measures can be taken.
- Shut-off or disconnection of problem outlets can provide a permanent solution. If the outlet is frequently used, this likely is not a practical long-term solution.
- Provide point-of-use (POU) filters at problem taps. Filters need routine maintenance (e.g., cartridge filter units need to be replaced periodically) to remain effective.

Permanent Control Measures

- Per the State of Missouri Senate Bills Nos. 681 & 662, a remediation plan should be developed and executed.
- Replacement of Problem Outlets and any identified upstream plumbing components (e.g., valves, leaded solder) to permanently address the problem. EPA's revised March 2015 guidance, How to Identify Lead-Free Certification Marks for Drinking Water System & Plumbing Products, can be a useful resource selecting leadfree plumbing.
- Provide point-of-use filters (POU) at problem taps as a long-term or permanent control measure. When doing this, facilities should be sure to create maintenance schedules and identify a point of contact to be in charge of making sure they are properly maintained.
- Reconfigure Plumbing. Ongoing renovation of school or childcare buildings may provide an opportunity to modify the plumbing system to redirect water supplied for drinking or cooking to bypass sources of lead contamination. Before undertaking such an alternative, be certain that you have properly identified all of the sources of lead contamination in drinking water.
- Remove and replace any drinking water coolers or drinking water outlets that the United States Environmental Protection Agency has determined are not lead-free under the federal Lead Contamination Control Act of 1988, as amended; except the school shall not be required to replace those drinking water outlets or water coolers that tested in accordance with state regulations and have been determined to be dispensing drinking water with a lead concentration less than five (5) part per billion (ppb); however, such drinking water outlet or water cooler shall be subject to all testing requirements and shall not be excluded from testing under subsection 10 of the Missouri Senate Bills Nos. 681 & 662, Section 160.077.
- Consider filtration of incoming water at the point of entry (POE) to the building.

Required Communication

- Contact staff and parents via written notification within seven (7) business days after receiving the test result.
- The notification shall include at least:
- The test results and a summary that explains such results;
- A description of any remedial steps taken; and
- A description of general health effects of lead contamination and community specific resources; and
- Provide bottled water if there is not enough water to meet the drinking water needs of the students, teachers, and staff.
- Submit such annual testing results to the Missouri Department of Health and Senior Services (DHSS).
- Before August 1, 2024, or the first day on which students will be present in the building, whichever is later, and annually thereafter, each school shall conduct testing for lead by first-draw and followup flush samples of a random sampling of at least twenty-five percent (25%) of remediated drinking water outlets until all remediated sources have been tested as recommended by the 2018 version of the United States Environmental Protection Agency's "Training, Testing, and Taking Action" program. The testing shall be conducted and the results analyzed for both types of tests by an entity or entities approved by the department.

- Any measures taken to remediate any elevated lead levels identified must be recorded and documented.

General Recommendations

- Retesting of all potential cooking and drinking water sources is required five (5) years from previous testing completed.
- If the condition changes or significant alterations to existing plumbing is undertaken, consider performing additional lead in drinking water sampling.
- Ensure that the plumbing system is not used as an electrical ground.
- If equipment is added that could affect water pH, alkalinity, or hardness, consider performing lead in drinking water sampling.

Any work resulting from this report should be conducted in accordance with the EPA Safe Drinking Water Act, Missouri SB 681 & 662, HUD Lead Regulations 24 CFR 35, EPA Lead Regulations 40 CFR 745, and Consumer Product Safety Commission document #5056.

If you have any questions concerning this report, please contact me at 816-678-7894.

Sincerely,



Jeff Hurst

Axiom Service Professionals LLC

jeffh@axiomservicepros.com

Limitations Drinking Water Testing

The presence or absence of lead and copper (if collected) in drinking water applies only to the test locations on the date of the field visit and it should be understood that conditions may change due to deterioration, pH, alkalinity, hardness, use levels, or maintenance. The results noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the property before or after the date of the evaluation. No other environmental concerns or conditions were addressed during this evaluation.

Appendix A

Certifications

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradly A. Young

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Inspector
Category of License

Issuance Date: 10/4/2023
Expiration Date: 10/4/2025
License Number: 211004-300006201



Paula F. Nickelson

Paula F. Nickelson
Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD ABATEMENT OCCUPATION LICENSE

Issued to:

Jeffrey Hurst

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date: 8/1/2024
Expiration Date: 8/1/2026
License Number: 000801-200166567

Paula F. Nickelson

Paula F. Nickelson
Director
Department of Health and Senior Services

 Missouri Department of Health and Senior Services
Lead Occupation License ID Badge

License Number:
000801-200166567



Lead Risk Assessor

Jeffrey Hurst
Expiration Date:
August 1, 2026

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

Appendix B

EPA Listed Lead Containing Drinking Fountains

Table C-1
Water Coolers With Other Lead Components

EBCO Manufacturing

- All pressure bubbler water coolers with shipping dates from 1962 through 1977 have a bubbler valve containing lead. The units contain a single, 50-50 tin-lead solder joint on the bubbler valve. Model numbers for coolers in this category are not available.
- The following models of pressure bubbler coolers produced from 1978 through 1981 contain one 50-50 tin-lead solder joint each.

CP3	DP15W	DPM8	7P	13P	DPM8H	DP15M	DP3R	DP8A
DP16M	DP5S	C10E	PX-10	DP7S	DP13SM	DP7M	DP7MH	DP7WD
WTC10	DP13M-60	DP14M	CP10-50	CP5	CP5M	DP15MW	DP3R	DP14S
DP20-50	DP7SM	DP10X	DP13A	DP13A-50	EP10F	DP5M	DP10F	CP3H
CP3-50	DP13M	DP3RH	DP5F	CP3M	EP5F	13PL	DP8AH	DP13S
CP10	DP20	DP12N	DP7WM	DP14A-50/60				

Halsey Taylor

- Lead solder was used in these models of water coolers manufactured between 1978 and the last week of 1987:

WMA-1	SCWT/SCWT-A	SWA-1	DC/DHC-1
S3/5/10D	BFC-4F/7F/4FS/7FS	S300/500/100D	

- The following coolers manufactured for Haws Drinking Faucet Company (Haws) by Halsey Taylor from November 1984 through December 18, 1987 are not lead-free because they contain 2 tin-lead solder joints. The model designations for these units are as follows:

HC8WT	HC14F	HC6W	HWC7D	HC8WTH	HC14FH	HC8W	HC2F	HC14WT
HC14FL	HC14W	HC2FH	HC14WTH	HC8FL	HC4F	HC5F	HC14WL	HCBF7D
HC4FH	HC10F	HC16WT	HCBF7HO	HC8F	HC8FH	HC4W	HWC7	

Table C-2
Halsey Taylor Water Coolers With Lead-Lined Tanks

- The following six model numbers have one or more units in the model series with lead-lined tanks:

WM8A WT8A GC10ACR GC10A GC5A RWM13A

- The following models and serial numbers contain lead-lined tanks:

WM14A Serial No. 843034	WM14A Serial No. 843006	WT11A Serial No. 222650
WT21A Serial No. 64309550	WT21A Serial No. 64309542	LL14A Serial No. 64346908

Appendix C

Laboratory Analytical Report



Microbac Laboratories, Inc., Lenexa

CERTIFICATE OF ANALYSIS

3HG0108

AXIOM Service Professionals

Jeff Hurst
PO Box 47166
Kansas City, MO 64188

Project Name: 8 Victory Lane

Project / PO Number: 8 Victory Lane
Received: 07/10/2024
Reported: 07/29/2024

Work Order Special Information

Client
8 Victory Lane

Analytical Testing Parameters

Client Sample ID: 8-3-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-01

Collected By: Client
Collection Date: 06/28/2024 10:23

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	139	0.4	ppb	2		07/25/24 1600	07/26/24 2343	RVV

Client Sample ID: 8-4-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-02

Collected By: Client
Collection Date: 06/28/2024 10:24

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	29.1	0.4	ppb	2		07/25/24 1600	07/26/24 2346	RVV

Client Sample ID: 8-5-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-03

Collected By: Client
Collection Date: 06/28/2024 10:26

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	6.6	0.4	ppb	2		07/25/24 1600	07/26/24 2349	RVV

Client Sample ID: 8-6-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-04

Collected By: Client
Collection Date: 06/28/2024 10:27

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	280	0.4	ppb	2		07/25/24 1600	07/26/24 2352	RVV

Microbac Laboratories, Inc., Lenexa

8857 Long Street | Lenexa, KS 66215 | 913-321-7856 p | www.microbac.com



Microbac Laboratories, Inc., Lenexa

CERTIFICATE OF ANALYSIS

3HG0108

Client Sample ID: 8-12-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-05

Collected By: Client
Collection Date: 06/28/2024 10:28

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	57.7	0.4	ppb	2		07/25/24 1600	07/27/24 0001	RVV

Client Sample ID: 8-13-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-06

Collected By: Client
Collection Date: 06/28/2024 10:30

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	86.5	0.4	ppb	2		07/25/24 1600	07/27/24 0004	RVV

Client Sample ID: 8-14-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-07

Collected By: Client
Collection Date: 06/28/2024 10:31

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	10.3	0.4	ppb	2		07/25/24 1600	07/27/24 0007	RVV

Client Sample ID: 8-20-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-08

Collected By: Client
Collection Date: 06/28/2024 10:32

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	4040	20.0	ppb	100		07/25/24 1600	07/29/24 1008	RVV

Client Sample ID: 8-21-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-09

Collected By: Client
Collection Date: 06/28/2024 10:34

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	2310	20.0	ppb	100		07/25/24 1600	07/29/24 1008	RVV

Microbac Laboratories, Inc., Lenexa

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Microbac Laboratories, Inc., Lenexa

CERTIFICATE OF ANALYSIS

3HG0108

Client Sample ID: 8-22-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-10

Collected By: Client
Collection Date: 06/28/2024 10:35

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	40.0	0.4	ppb	2		07/25/24 1600	07/27/24 0016	RVV

Client Sample ID: 8-23-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-11

Collected By: Client
Collection Date: 06/28/2024 10:36

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	33.5	0.4	ppb	2		07/25/24 1600	07/27/24 0019	RVV

Client Sample ID: 8-29-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-12

Collected By: Client
Collection Date: 06/28/2024 10:38

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	50.8	0.4	ppb	2		07/25/24 1600	07/27/24 0022	RVV

Client Sample ID: 8-30-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-13

Collected By: Client
Collection Date: 06/28/2024 10:39

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	94.0	0.4	ppb	2		07/25/24 1600	07/27/24 0025	RVV

Client Sample ID: 8-31-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-14

Collected By: Client
Collection Date: 06/28/2024 10:40

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	15.7	0.4	ppb	2		07/25/24 1600	07/27/24 0028	RVV

Microbac Laboratories, Inc., Lenexa

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Microbac Laboratories, Inc., Lenexa

CERTIFICATE OF ANALYSIS

3HG0108

Client Sample ID: 8-32-RDF
Sample Matrix: Drinking Water
Lab Sample ID: 3HG0108-15

Collected By: Client
Collection Date: 06/28/2024 10:41

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	53.1	0.4	ppb	2		07/25/24 1600	07/27/24 0037	RVV

Definitions

RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Carolyn Jackson
Project Manager
carolyn.jackson@microbac.com
07/29/24 12:33



600 E. 17th St. S
Newton, IA 50208
Phone: 641-792-8451

3012 Ansborough Ave
Waterloo, IA 50701
Phone: 319-235-4440

X

835 S St. Paul
Kansas City, KS 66105
Phone: 913-321-7856

205 E Van Buren St
Centerville, IA 52544
Phone: 641-437-7023

PRINT OR TYPE INFO BELOW:		REPORT TO:		BILL TO:	
SAMPLER:		NAME:	Jeff Hurst	NAME:	Jeff Hurst
SITE NAME:	District Administrative Building	CO. NAME:		CO. NAME:	
ADDRESS:	8 Victory Lane	ADDRESS:	PO Box 47166	ADDRESS:	PO Box 47166
CITY/ST/ZIP:	Liberty MO	CITY/ST/ZIP:	Kansas City, Missouri 64188	CITY/ST/ZIP:	Kansas City, Missouri 64188
PHONE:		PHONE:	816-678-7894	PHONE:	816-678-7894
		EMAIL:	jeffh@axiomservicepros.com	EMAIL:	jeffh@axiomservicepros.com

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED							LAB USE ONLY	
							Lead							Wk Order #:	3H60108
														Short Hold:	
														Rush:	
														Temp:	oC
							Sample Condition		Sample #						
8-3-RDF	6/28/2024	10:23	Boys Restroom - Sink Tap - 004564-By Elevator 4th Floor- Boys-Right	1		Grab	X							3H60108.01	
8-4-RDF	6/28/2024	10:24	Boys Restroom - Sink Tap - 004565-By Elevator 4th Floor-Boys-Left	1		Grab	X							02	
8-5-RDF	6/28/2024	10:26	Girls Restroom - Sink Tap - 004566-By Elevator 4th Floor-Girls-Right	1		Grab	X							03	
8-6-RDF	6/28/2024	10:27	Girls Restroom - Sink Tap - 004567-By Elevator 4th Floor- Girls-Left	1		Grab	X							04	
8-12-RDF	6/28/2024	10:28	Boys Restroom - Sink Tap - 004559-By Elevator 3rd Floor-Boys-Right	1		Grab	X							05	
8-13-RDF	6/28/2024	10:30	Boys Restroom - Sink Tap - 004560-By Elevator 3rd Floor-Boys-Left	1		Grab	X							06	
8-14-RDF	6/28/2024	10:31	Girls Restroom - Sink Tap - 004561-By Elevator 3rd Floor-Girls-Right	1		Grab	X							07	

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:
	7/1/24		07/01/24
Time:		Time:	14:00



3 H 6 0 1 0 8

AXIOM Service Professionals

PM: Carolyn Jackson



600 E. 17th St. S
Newton, IA 50208
Phone: 641-792-8451

3012 Ansborough Ave
Waterloo, IA 50701
Phone: 319-235-4440

X

835 S St. Paul
Kansas City, KS 66105
Phone: 913-321-7856

205 E Van Buren St
Centerville, IA 52544
Phone: 641-437-7023

PRINT OR TYPE INFO BELOW:		REPORT TO:		BILL TO:	
SAMPLER:		NAME:	Jeff Hurst	NAME:	Jeff Hurst
SITE NAME:	District Administrative Building	CO. NAME:		CO. NAME:	
ADDRESS:	8 Victory Lane	ADDRESS:	PO Box 47166	ADDRESS:	PO Box 47166
CITY/ST/ZIP:	Liberty MO	CITY/ST/ZIP:	Kansas City, Missouri 64188	CITY/ST/ZIP:	Kansas City, Missouri 64188
PHONE:		PHONE:	816-678-7894	PHONE:	816-678-7894
		EMAIL:	jeffh@axiomservicepros.com	EMAIL:	jeffh@axiomservicepros.com

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	Lead	ANALYSES REQUIRED						LAB USE ONLY	
														Wk Order #:	
														Short Hold:	
														Rush:	
														Temp: oC	
														Sample Condition	Sample #
8-20-RDF	6/28/2024	10:32	Boys Restroom - Sink Tap - 004550-By Elevator 2nd Floor-Boys-Left	1		Grab	X								3HG0108-08
8-21-RDF	6/28/2024	10:34	Boys Restroom - Sink Tap - 004551-By Elevator 2nd Floor-Boys-Right	1		Grab	X								09
8-22-RDF	6/28/2024	10:35	Girls Restroom - Sink Tap - 004552-By Elevator 2nd Floor-Girls-Right	1		Grab	X								10
8-23-RDF	6/28/2024	10:36	Girls Restroom - Sink Tap - 004553-By Elevator 2nd Floor-Girls-Left	1		Grab	X								11
8-29-RDF	6/28/2024	10:38	Boys Restroom - Sink Tap - 004545-By Elevator 1st Floor-Boys-Left	1		Grab	X								12
8-30-RDF	6/28/2024	10:39	Boys Restroom - Sink Tap - 004546-By Elevator 1st Floor-Boys-Right	1		Grab	X								13
8-31-RDF	6/28/2024	10:40	Girls Restroom - Sink Tap - 004547-By Elevator 1st Floor-Girls-Right	1		Grab	X								14

Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:	07/10/24
	Time:			Time:	14:00



3 H G 0 1 0 8

AXIOM Service Professionals

PM: Carolyn Jackson



600 E. 17th St. S
Newton, IA 50208
Phone: 641-792-8451

3012 Ansborough Ave
Waterloo, IA 50701
Phone: 319-235-4440

X

835 S St. Paul
Kansas City, KS 66105
Phone: 913-321-7856

205 E Van Buren St
Centerville, IA 52544
Phone: 641-437-7023

PRINT OR TYPE INFO BELOW:		REPORT TO:		BILL TO:	
SAMPLER:		NAME:	Jeff Hurst		
SITE NAME:	District Administrative Building	CO. NAME:			
ADDRESS:	8 Victory Lane	ADDRESS:	PO Box 47166		
CITY/ST/ZIP:	Liberty MO	CITY/ST/ZIP:	Kansas City, Missouri 64188		
PHONE:		PHONE:	816-678-7894		
		EMAIL:	jeffh@axiomservicepros.com		

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	Lead	ANALYSES REQUIRED						LAB USE ONLY	
														Wk Order #:	
														Short Hold:	
														Rush:	
														Temp: oC	
														Sample Condition	Sample #
8-32-RDF	6/28/2024	10:41	Girls Restroom - Sink Tap - 004548-By Elevator 1st Floor- Girls- Left	1		Grab	X								3H60108-15

Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		Remarks:
	Time:			Time:		
Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		
	Time:			Time:		



3 H 6 0 1 0 8

AXIOM Service Professionals

PM: Carolyn Jackson



September 09, 2024

Jeff Hurst
Axiom Service Professionals
PO BOX 47166
Kansas City, MO 64188

RE: Project: LIBERTY SD
Pace Project No.: 60459735

Dear Jeff Hurst:

Enclosed are the analytical results for sample(s) received by the laboratory on September 04, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ryan N. Brumfield'.

Ryan N. Brumfield
ryan.brumfield@pacelabs.com
(913)599-5665
Project Manager

Enclosures

cc: Blair B., Axiom Service Professionals
Glenn Robinson, Axiom Service Professionals



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LIBERTY SD

Pace Project No.: 60459735

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Arkansas Certification #: 88-00679

Illinois Certification #: 2000302023-6

Colorado Division of Oil and Public Safety

Iowa Certification #: 118

Kansas Field Laboratory Certification #: E-92587

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Missouri Inorganic Drinking Water Certification

Nevada Certification #: KS000212024-1

Oklahoma Certification #: 2023-073

Texas Certification #: T104704407-23-17

Utah Certification #: KS000212022-13

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LIBERTY SD

Pace Project No.: 60459735

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60459735001	8-1-RDF	Water	09/04/24 06:00	09/04/24 10:48
60459735002	8-2-RDF	Water	09/04/24 06:00	09/04/24 10:48
60459735003	8-32-RDF	Water	09/04/24 06:03	09/04/24 10:48
60459735004	8-33-RDF	Water	09/04/24 06:03	09/04/24 10:48

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SAMPLE ANALYTE COUNT

Project: LIBERTY SD

Pace Project No.: 60459735

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60459735001	8-1-RDF	EPA 6010	ARMN	1	PASI-K
60459735002	8-2-RDF	EPA 6010	ARMN	1	PASI-K
60459735003	8-32-RDF	EPA 6010	ARMN	1	PASI-K
60459735004	8-33-RDF	EPA 6010	ARMN	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: LIBERTY SD
Pace Project No.: 60459735

Sample: 8-1-RDF		Lab ID: 60459735001		Collected: 09/04/24 06:00		Received: 09/04/24 10:48		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lead	ND	ug/L	10.0	1	09/05/24 08:53	09/09/24 10:49	7439-92-1		

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: LIBERTY SD
Pace Project No.: 60459735

Sample: 8-2-RDF		Lab ID: 60459735002		Collected: 09/04/24 06:00		Received: 09/04/24 10:48		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lead	ND	ug/L	10.0	1	09/05/24 08:53	09/09/24 10:54	7439-92-1		

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: LIBERTY SD
Pace Project No.: 60459735

Sample: 8-32-RDF		Lab ID: 60459735003	Collected: 09/04/24 06:03	Received: 09/04/24 10:48	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lead	44.8	ug/L	10.0	1	09/05/24 08:53	09/09/24 10:56	7439-92-1	

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: LIBERTY SD

Pace Project No.: 60459735

Sample: 8-33-RDF		Lab ID: 60459735004		Collected: 09/04/24 06:03		Received: 09/04/24 10:48		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lead	ND	ug/L	10.0	1	09/05/24 08:53	09/09/24 10:58	7439-92-1		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LIBERTY SD
Pace Project No.: 60459735

QC Batch: 907372 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60459735001, 60459735002, 60459735003, 60459735004

METHOD BLANK: 3591281 Matrix: Water
Associated Lab Samples: 60459735001, 60459735002, 60459735003, 60459735004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	09/09/24 10:46	

LABORATORY CONTROL SAMPLE: 3591282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	40	43.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591283 3591284

Parameter	Units	60459735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	40	40	40.3	40.0	99	98	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LIBERTY SD
Pace Project No.: 60459735

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LIBERTY SD
Pace Project No.: 60459735

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60459735001	8-1-RDF	EPA 3010	907372	EPA 6010	907484
60459735002	8-2-RDF	EPA 3010	907372	EPA 6010	907484
60459735003	8-32-RDF	EPA 3010	907372	EPA 6010	907484
60459735004	8-33-RDF	EPA 3010	907372	EPA 6010	907484

REPORT OF LABORATORY ANALYSIS



DC#_Title: ENV-FRM-LENE-0009_Sample C

Revision: 2

Effective Date: 01/12/2022

WO#: 60459735



60459735

Client Name: AxiomCourier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☒ Other ☐Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☒Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☒ Other ☐Thermometer Used: T298 Type of Ice: Wet Blue ☐ None ☐Cooler Temperature (°C): As-read 2.7 Corr. Factor -0.1 Corrected 2.6

Date and initials of person examining contents:

MM 8/9/4/24

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	
Rush Turn Around Time requested:	☒ Yes ☐ No ☐ N/A	<u>3 day</u>
Sufficient volume:	☒ Yes ☐ No ☐ N/A	
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐ Yes ☒ No ☐ N/A	
Filtered volume received for dissolved tests?	☐ Yes ☒ No ☐ N/A	
Sample labels match COC: Date / time / ID / analyses	☒ Yes ☐ No ☐ N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	☐ Yes ☒ No ☐ N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	☐ Yes ☐ No ☒ N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐ Yes ☐ No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐ Yes ☐ No	
Trip Blank present:	☐ Yes ☐ No ☒ N/A	
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	
Samples from USDA Regulated Area: State:	☐ Yes ☐ No ☒ N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

[illegible]

Client: Axiom Service Professionals
Site: Liberty SD

Profile/EZ # 7736

Notes

COC Line Item		Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other				
1		WT																																	
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

Container Codes

Container Codes

Glass			Plastic			Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber vial	WGKU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate		
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpreserved plstic		

Work Order Number:

WO# : 60459735

PM: RNB

Due Date: 09/09/24

CLIENT: Axiom

Appendix D

Photo Log



6/28/2024 - 8-3 - District Administration Center -
004564-By Elevator 4th Floor- Boys-Right



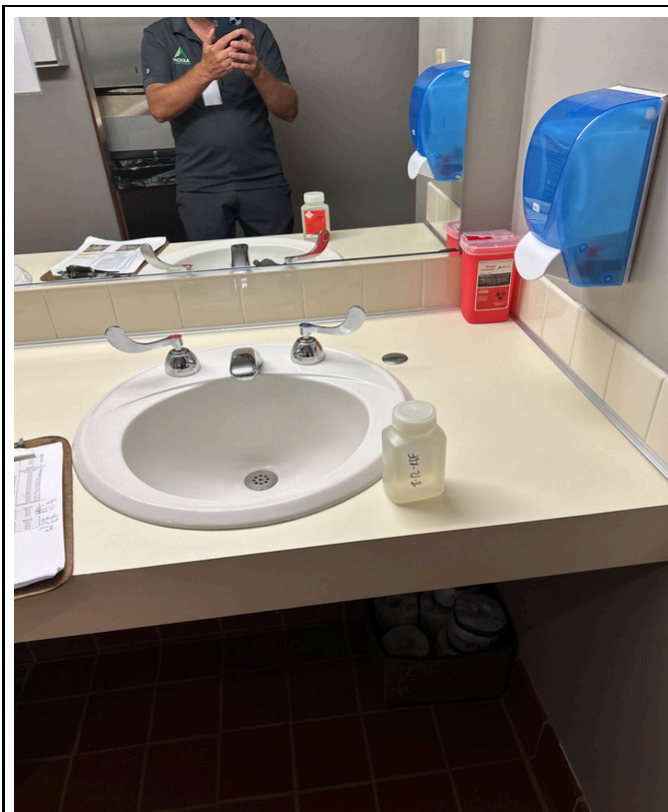
6/28/2024 - 8-4 - District Administration Center -
004565-By Elevator 4th Floor-Boys-Left



6/28/2024 - 8-5 - District Administration Center -
004566-By Elevator 4th Floor-Girls-Right



6/28/2024 - 8-6 - District Administration Center -
004567-By Elevator 4th Floor- Girls-Left



6/28/2024 - 8-12 - District Administration Center - 004559-By Elevator 3rd Floor-Boys- Right



6/28/2024 - 8-13 - District Administration Center - 004560-By Elevator 3rd Floor-Boys-Left



6/28/2024 - 8-14 - District Administration Center - 004561-By Elevator 3rd Floor-Girls-Right



6/28/2024 - 8-20 - District Administration Center - 004550-By Elevator 2nd Floor-Boys-Left



6/28/2024 - 8-21 - District Administration Center -
004551-By Elevator 2nd Floor-Boys-Right



6/28/2024 - 8-22 - District Administration Center -
004552-By Elevator 2nd Floor-Girls-Right



6/28/2024 - 8-23 - District Administration Center -
004553-By Elevator 2nd Floor-Girls-Left



6/28/2024 - 8-29 - District Administration Center -
004545-By Elevator 1st Floor-Boys-Left



6/28/2024 - 8-30 - District Administration Center -
004546-By Elevator 1st Floor-Boys-Right



6/28/2024 - 8-31 - District Administration Center -
004547-By Elevator 1st Floor-Girls- Right



6/28/2024 - 8-32 - District Administration Center -
004548-By Elevator 1st Floor- Girls-Left



9/4/2024 - 8-1 - District Administration Center -
004563B-By Elevator 4th Floor



9/4/2024 - 8-2 - District Administration Center -
004563F-By Elevator 4th Floor



9/4/2024 - 8-32 - District Administration Center -
004548-By Elevator-1st Floor-Girls Left



9/4/2024 - 8-33 - District Administration Center -
004544B-By Elevator 1st Floor

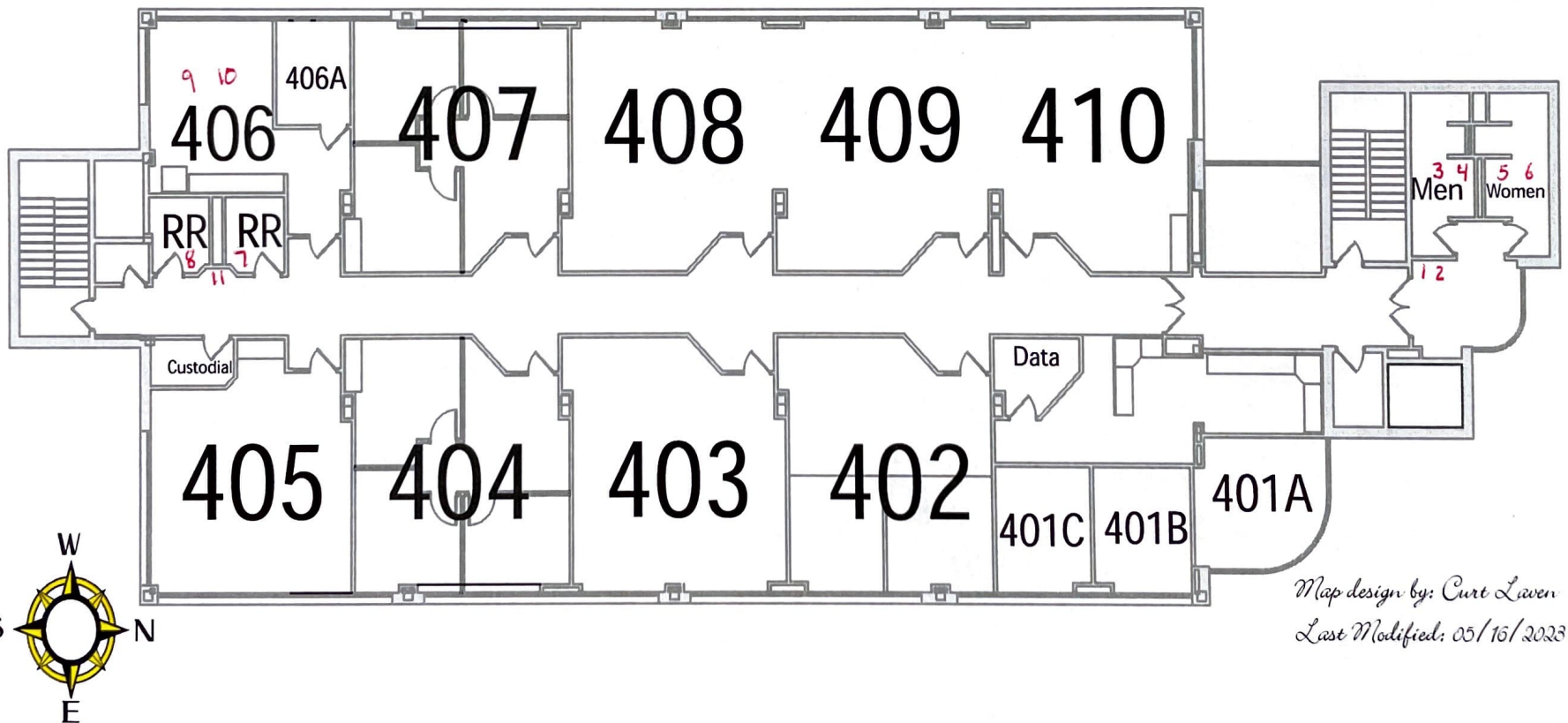
Appendix E

Source Identification Diagram

**ASP was provided sample locations by
Liberty Public School District**

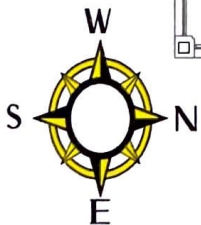
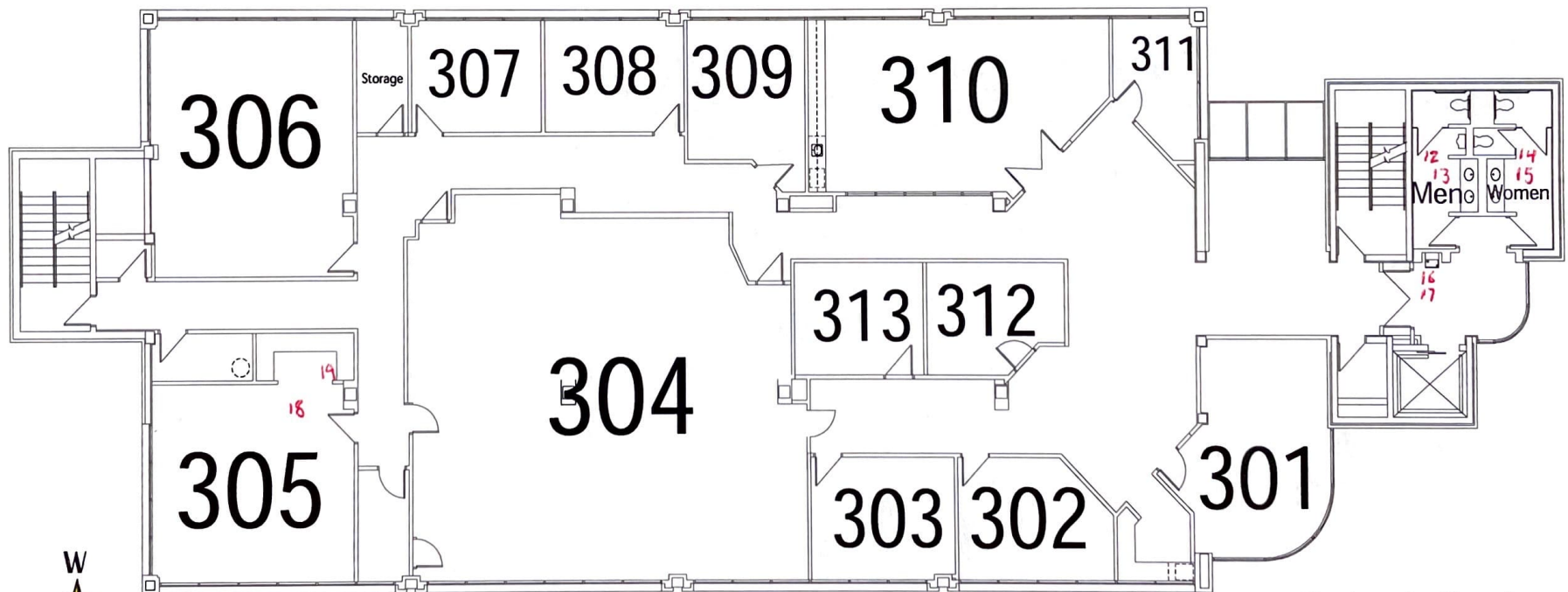


District Administration Center
8 Victory Lane
Liberty, MO 64068
Fourth Floor





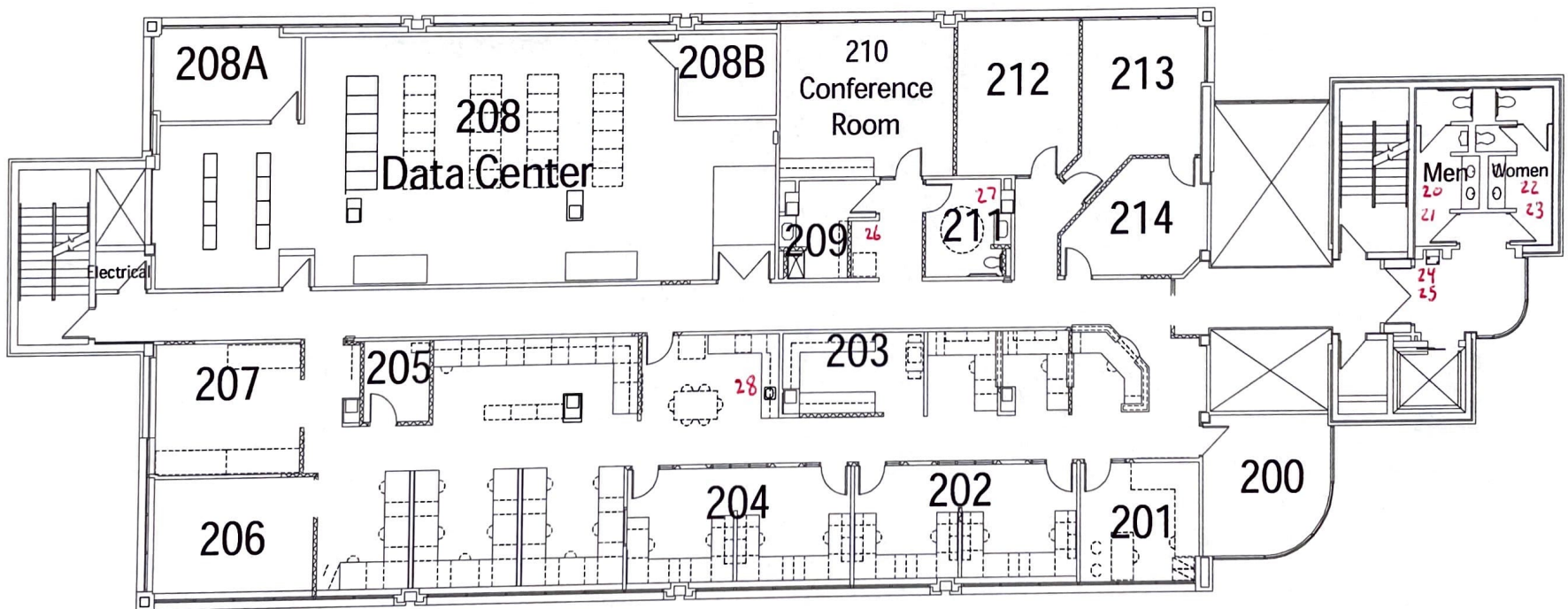
District Administration Center
8 Victory Lane
Liberty, MO 64068
Third Floor



Map design by: Curt Laven
Last Modified: 05/16/2023



District Administration Center
Second Floor - Technology Dept.
Phone: 816-736-6896
Fax: 816-736-6827



Map design by: Curt Laven
Last Modified: 05/16/2023



District Administration Center

First Floor

Phone: 816-736-5300

