

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ian St. John  
St. John Environmental Consulting  
5515 Grace Ave.  
Saint Louis, Missouri 63116

Generated 11/12/2024 3:59:05 AM

## JOB DESCRIPTION

Columbia Public Schools - Smithton Middle School

## JOB NUMBER

810-127314-1

# Eurofins Eaton Analytical South Bend

## Job Notes

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

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

## Authorization



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# Definitions/Glossary

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle  
School

Job ID: 810-127314-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

Client: St. John Environmental Consulting  
Project: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

**Job ID: 810-127314-1**

**Eurofins Eaton Analytical South Bend**

## Job Narrative 810-127314-1

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

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

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

### Receipt

The samples were received on 11/8/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

### Metals

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

Eurofins Eaton Analytical South Bend

# Detection Summary

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

## Client Sample ID: SM-1 Sink - Green Area/Rm 153

Lab Sample ID: 810-127314-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.58		0.50		ug/L	1		200.8	Total/NA

## Client Sample ID: SM-2 Sink - Yellow Area/Rm 153

Lab Sample ID: 810-127314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.0		0.50		ug/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

## Client Sample ID: SM-1 Sink - Green Area/Rm 153

Lab Sample ID: 810-127314-1

Date Collected: 11/05/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 09:20

### Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.58		0.50		ug/L			11/11/24 09:52	1

## Client Sample ID: SM-2 Sink - Yellow Area/Rm 153

Lab Sample ID: 810-127314-2

Date Collected: 11/05/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 09:20

### Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.0		0.50		ug/L			11/11/24 09:54	1

# QC Sample Results

Client: St. John Environmental Consulting  
 Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MBL 810-122122/11**  
**Matrix: Drinking Water**  
**Analysis Batch: 122122**

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

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.12		0.50		ug/L			11/11/24 09:33	1

**Lab Sample ID: LCS 810-122122/12**  
**Matrix: Drinking Water**  
**Analysis Batch: 122122**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	49.2		ug/L		98	85 - 115

**Lab Sample ID: LLCS 810-122122/10**  
**Matrix: Drinking Water**  
**Analysis Batch: 122122**

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.300	0.299	J	ug/L		100	50 - 150



# QC Association Summary

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

## Metals

### Analysis Batch: 122122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-127314-1	SM-1 Sink - Green Area/Rm 153	Total/NA	Drinking Water	200.8	
810-127314-2	SM-2 Sink - Yellow Area/Rm 153	Total/NA	Drinking Water	200.8	
MBL 810-122122/11	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-122122/12	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-122122/10	Lab Control Sample	Total/NA	Drinking Water	200.8	

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# Lab Chronicle

Client: St. John Environmental Consulting  
 Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

**Client Sample ID: SM-1 Sink - Green Area/Rm 153**

**Lab Sample ID: 810-127314-1**

Date Collected: 11/05/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	122122	CA	EA SB	11/11/24 09:52

**Client Sample ID: SM-2 Sink - Yellow Area/Rm 153**

**Lab Sample ID: 810-127314-2**

Date Collected: 11/05/24 11:00

Matrix: Drinking Water

Date Received: 11/08/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	122122	CA	EA SB	11/11/24 09:54

**Laboratory References:**

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



# Accreditation/Certification Summary

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

## Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
Missouri	State	880	09-30-27

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# Method Summary

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

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Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EA SB

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**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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# Sample Summary

Client: St. John Environmental Consulting  
Project/Site: Columbia Public Schools - Smithton Middle School

Job ID: 810-127314-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-127314-1	SM-1 Sink - Green Area/Rm 153	Drinking Water	11/05/24 11:00	11/08/24 09:20
810-127314-2	SM-2 Sink - Yellow Area/Rm 153	Drinking Water	11/05/24 11:00	11/08/24 09:20

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Eurofins Eaton Analytical: South Bend

Chain of Custody Record

110 South Hill Street  
South Bend, IN 46617  
Phone (574) 233-4777

*1st Draw 10/8/24 PDB*

eurofins  
Environment Testing  
America

Client Information  
Client Contact: **Kathy Pace** Phone: **314-853-4668** Lab Pk: **ian@stjohnenv.com** Carrier/Tracking No(s): **MO** Page: **1 of 1**  
Company: **Columbia School District** PWSID: **ian@stjohnenv.com** State of Origin: **MO** Job #: **Page 1 of 1**  
Address: **Columbia, MO** TAT Requested (days): **Standard** Compliance Project: **Yes No** PO #: **573-214-3759** WO #: **7125** Project #: **7125** SOW#: **7125**

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab, W=Walk, B=Roll, O=Other)	Matrix (W=Water, B=Soil, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Special Instructions/Notes
SM-1 Sink	11-5-24	11:00	G	W		X		Green Area/RA153
SM-2 Sink			G	W		X		Yellow Area/RA153



Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (Specify) \_\_\_\_\_  
 Empty Kit Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Requisitioned by: **Heceta Shy** Date/Time: **11-7-24** Company: \_\_\_\_\_  
 Requisitioned by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact:  Custody Seal No.: \_\_\_\_\_  
 Custody Seals Intact:  Custody Seal No.: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Dispose By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_ Date/Time: **11/8/24 9:20am** Company: **ETA**  
 Rechecked by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Rechecked by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: **Ambient**

Ver: 02/24/23

## Login Sample Receipt Checklist

Client: St. John Environmental Consulting

Job Number: 810-127314-1

**Login Number: 127314**

**List Source: Eurofins Eaton Analytical South Bend**

**List Number: 1**

**Creator: Moffitt, Tisha**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	