ENVOY

environmental consultants inc.

April 12, 2016

Mr. Dennis Draper
Wheatland Chili Central School District
13 Beckwith Avenue
Scottsville, New York 14546

Re: Environmental Water Sampling – Wheatland Chili Middle School/High School

Dear Mr. Draper,

Envoy Environmental was contracted on March 29, 2016 to perform Environmental Water Sampling at Wheatland Chili Middle School/High School located at 940 North Road in Scottsville, New York. All sampling conducted was done in accordance with the EPA's Lead and Copper Rule (LCR) as it pertains to testing schools and child care centers for lead in the drinking water.

The LCR was developed to protect public health by minimizing lead levels in drinking water. The most common source of lead in drinking water is due to the corrosion of plumbing materials. Plumbing materials that can be made with lead include faucets, pipe, solder and fixtures. The potential for Lead leaching into the system increases the longer the water is in contact with the plumbing components. School water supplies tend to have extended periods of no water use that increase the likelihood of elevated levels at the tap.

The LCR established an action level of *0.015 mg/L (15 ppb)* for lead based on the 90th percentile level of tap water samples. This means that no more than 10 percent of the samples taken can be above the action level. When lead levels exceed the action level, other measures should be put in place in order to reduce the levels in the water, as well as protect the public from lead exposure. These actions could include water quality parameter (WQP) monitoring, corrosion control treatment (CCT), source water monitoring/treatment, public education, and lead service line replacement.

Samples taken were based on both the direction of the client, and areas designated as high priority as outlined by the EPA. Every 250 mL sample was taken as a "first draw" from each testing location. *First draw samples* are defined as a sample of tap water, collected in accordance with §141.86(b)(2), that has been standing in plumbing pipes at least 6 hours and is collected without flushing the tap. Water sampling analysis was contracted through ALS Environmental located at 1565 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623.

Table 1 in this report summarizes water samples that met or exceeded the EPA's action level for Lead (Pb).

ENVOY

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TABLE 1

Wheatland Chili Middle School/High School		
Sample ID	**Location**	**Level Detected**
N/A	N/A	None Detected

Please refer to the attached laboratory reports for specific analytical data and sample locations throughout the school. If you have any questions, please contact me at (585) 454-1060. We appreciate the opportunity to provide you with our professional services.

Sincerely,

Ted Knapp
Project Manager
Envoy Environmental Consultants, Inc.

April 05, 2016

Service Request No:R1602844

Mr. Ted Knapp
Envoy Environmental
57 Ambrose Street
Rochester, NY 14608

Laboratory Results for: Wheatland Chili-HS/MS

Dear Mr.Knapp,

Enclosed are the results of the sample(s) submitted to our laboratory March 29, 2016
For your reference, these analyses have been assigned our service request number **R1602844.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1602844

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1602844-001	HS-1-DW-1	3/29/2016	0920
R1602844-002	HS-1-DW-2	3/29/2016	0925
R1602844-003	HS-1-DW-3	3/29/2016	0930
R1602844-004	HS-1-DW-4	3/29/2016	0935
R1602844-005	HS-1-DW-5	3/29/2016	0940
R1602844-006	HS-1-DW-6	3/29/2016	0945
R1602844-007	TRANSIT OFFICE-DW-7	3/29/2016	1000
R1602844-008	HS-1-KS-1	3/29/2016	0950

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

Client:	Envoy Environmental	**Service Request:**	R1602844
Project:	Wheatland Chili-HS/MS/E16-0387	**Date Collected:**	03/29/16
Sample Matrix:	Drinking Water	**Date Received:**	03/29/16
Analysis Method:	200.8	**Units:**	ug/L
		Basis:	NA

Lead, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Regulatory Limit	Date Analyzed	Q
HS-1-DW-1	R1602844-001	1.0 U	1.0	0.10	1	15	04/01/16	
HS-1-DW-2	R1602844-002	**6.8**	1.0	0.10	1	15	04/01/16	
HS-1-DW-3	R1602844-003	**9.7**	1.0	0.10	1	15	04/01/16	
HS-1-DW-4	R1602844-004	**10.5**	1.0	0.10	1	15	04/01/16	
HS-1-DW-5	R1602844-005	**7.1**	1.0	0.10	1	15	04/01/16	
HS-1-DW-6	R1602844-006	**8.7**	1.0	0.10	1	15	04/01/16	
TRANSIT OFFICE-DW-7	R1602844-007	1.0 U	1.0	0.10	1	15	04/01/16	
HS-1-KS-1	R1602844-008	1.0 U	1.0	0.10	1	15	04/01/16	
Method Blank	R1602844-MB	1.0 U	1.0	0.10	1	15	04/01/16	

Client: Envoy Environmental
Project: Wheatland Chili-HS/MS/E16-0387
Sample Matrix: Drinking Water

Service Request: R1602844
Date Analyzed: 04/01/16

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R1602844-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	200.8	20.0	20.0	100	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Envoy Environmental	**Service Request:**	R1602844
Project	Wheatland Chili-HS/MS/E16-0387	**Date Collected:**	03/29/16
Sample Matrix:	Drinking Water	**Date Received:**	03/29/16
		Date Analyzed:	04/01/16

Replicate Sample Summary
Inorganic Parameters

Sample Name:	HS-1-DW-1	**Units:**	ug/L
Lab Code:	R1602844-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1602844-001DUP Result	Average	RPD	RPD Limit
Lead, Total	200.8	1.0	1.0 U	1.0 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Envoy Environmental	**Service Request:**	R1602844
Project:	Wheatland Chili-HS/MS/E16-0387	**Date Collected:**	03/29/16
Sample Matrix:	Drinking Water	**Date Received:**	03/29/16
		Date Analyzed:	04/1/16

Matrix Spike Summary
Inorganic Parameters

Sample Name:	HS-1-DW-1	**Units:**	ug/L
Lab Code:	R1602844-001	**Basis:**	NA
Analysis Method:	200.8		

Matrix Spike
R1602844-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	1.0 U	20.2	20.0	101	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

37022

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: Wheatland Chili - HS/MS	Project Number: ECG-0387
Project Manager: Ted Knapp	Report CC:
Company/Address: Envoy Environmental Consultants 57 Ambrose St Rochester, NY 14608	
Phone #: 585-454-1060	Email: tknapp@envoyenv.com
Sampler's Signature: Robert L. McKnight	Sampler's Printed Name: Robert L. McKnight

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	LEAD in WATER								REMARKS/ ALTERNATE DESCRIPTION
																					3/30/16 1446
HS-1-DW-1		3.29.16	920		1								X								0.15 NTU Drinking WATER Bubbler
HS-1-DW-2		3.29.16	925		1								X								0.07 NTU Drinking WATER Bubbler
HS-1-DW-3		3.29.16	930		1								X								0.07 NTU Drinking WATER Bubbler
HS-1-DW-4		3.29.16	935		1								X								0.06 NTU Drinking WATER Bubbler
HS-1-DW-5		3.29.16	940		1								X								0.08 NTU Drinking WATER Bubbler
HS-1-DW-6		3.29.16	945		1								X								0.09 NTU Drinking WATER Bubbler
TRANSITE OFFICE-DW-7		3.29.16	1000		1								X								0.17 NTU Drinking WATER Bubbler
HS-1-KS-1		3.29.16	950		1								X								0.14 NTU Kitchen Sink
~~ES-1-DW-1~~		~~3.29.16~~			~~1~~								~~X~~								~~Drinking WATER Bubbler~~
~~ES-1-DW-2~~		~~3.29.16~~			~~1~~								~~X~~								~~Drinking WATER Bubbler~~
~~ES-1-DW-3~~		~~3.29.16~~			~~1~~								~~X~~								~~Drinking WATER Bubbler~~

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Metals

PLEASE ALSO FOLLOW UP WITH MATT POPPEN AT:
mpoppen@ENVOYENV.com

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS

X I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

PO #

BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert L. McKnight	Signature:	Signature	Signature	Signature	Signature
Printed Name: Robert L. McKnight	Printed Name: Matt Stare	Printed Name	Printed Name	Printed Name	
Firm: Envoy Env. Con.	Firm: ALS	Firm	Firm	Firm	
Date/Time: 3.29.16	Date/Time: 3/29/16 1520	Date/Time	Date/Time	Date/Time	

R1602844
Envoy Environmental
Drinking Water Lead
5

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservati

R1602844 **5**
Envoy Environmental
Drinking Water Lead

Project/Client Envoy Folder Number

Cooler received on 3/29/16 by: MDS

COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC (CLIENT)
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	Y (N)	7	Soil VOA received as:	Bulk Encore 5035set (NA)

8. Temperature Readings Date: 3/29/16 Time: 1530 ID: IR#3 (IR#9) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	18.0						
Correction Factor (°C)	-						
Corrected Temp (°C)	18.0						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: No Ice Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by: NA

All samples held in storage location: R-002 by MDS on 3/29/16 at 1531
5035 samples placed in storage location: by on at

PC Secondary Review: JR

Cooler Breakdown: Date: 3/29/16 Time: 1640 by: MDS

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3						4mL	BD0326152C	≤2
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 0118KB-2ABZ

Other Comments:

PC Secondary Review: JR

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Client: Wheatland Chili CSD
Location: Wheatland Middle School/High School
Work Performed: Water Testing
Date: March 29, 2016
Job Number: E16-0387