April 25, 2016 Service Request No:R1603683

Mr. Jose Correa
East Rochester Schools
222 Woodbine Ave
East Rochester, NY 14445

Laboratory Results for: Bird/Morgan Lead Testing

Dear Mr.Correa,

Enclosed are the results of the sample(s) submitted to our laboratory April 12, 2016
For your reference, these analyses have been assigned our service request number **R1603683.**

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: R1603683

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1603683-001	M209 Sink	4/12/2016	0508
R1603683-002	Outside M210 WF	4/12/2016	0510
R1603683-003	M218A Sink	4/12/2016	0512
R1603683-004	M241 Sink	4/12/2016	0513
R1603683-005	Outside M241 WF	4/12/2016	0514
R1603683-006	Outside M205 WF	4/12/2016	0515
R1603683-007	M204 Sink	4/12/2016	0517
R1603683-008	M109 Sink	4/12/2016	0520
R1603683-009	Outside M110 WF	4/12/2016	0521
R1603683-010	M116 Sink	4/12/2016	0523
R1603683-011	Outside M106 WF	4/12/2016	0525
R1603683-012	Outside M105 WF	4/12/2016	0526
R1603683-013	M104 Sink	4/12/2016	0527
R1603683-014	M11 Sink	4/12/2016	0531
R1603683-015	M09 Sink	4/12/2016	0534
R1603683-016	Outside M10 WF	4/12/2016	0535
R1603683-017	Outside M38 WF	4/12/2016	0537
R1603683-018	Outside M16 WF	4/12/2016	0539
R1603683-019	M16 Sink	4/12/2016	0540
R1603683-020	M16A Sink	4/12/2016	0541
R1603683-021	M19 Sink	4/12/2016	0543
R1603683-022	M21 SInk	4/12/2016	0545

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.

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 ñNotesò 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 ñimmediateò 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 (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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.

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 laboratoryôs 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

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.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	East Rochester Schools	**Service Request:**	R1603683
Project:	Bird/Morgan Lead Testing	**Date Collected:**	04/12/16
Sample Matrix:	Drinking Water	**Date Received:**	04/12/16
Analysis Method:	200.8	**Units:**	ug/L
		Basis:	NA

Lead, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
M209 Sink	R1603683-001	**1.1**	1.0	1	04/21/16 18:08	
Outside M210 WF	R1603683-002	1.0 U	1.0	1	04/21/16 18:11	
M218A Sink	R1603683-003	**15.0**	1.0	1	04/21/16 18:14	
M241 Sink	R1603683-004	**4.2**	1.0	1	04/21/16 18:18	
Outside M241 WF	R1603683-005	1.0 U	1.0	1	04/21/16 18:21	
Outside M205 WF	R1603683-006	1.0 U	1.0	1	04/21/16 18:24	
M204 Sink	R1603683-007	1.0 U	1.0	1	04/21/16 18:27	
M109 Sink	R1603683-008	1.0 U	1.0	1	04/21/16 18:30	
Outside M110 WF	R1603683-009	1.0 U	1.0	1	04/21/16 18:40	
M116 Sink	R1603683-010	**2.7**	1.0	1	04/21/16 18:44	
Outside M106 WF	R1603683-011	1.0 U	1.0	1	04/21/16 18:53	
Outside M105 WF	R1603683-012	1.0 U	1.0	1	04/21/16 18:56	
M104 Sink	R1603683-013	1.0 U	1.0	1	04/21/16 18:59	
M11 Sink	R1603683-014	**3.0**	1.0	1	04/21/16 19:02	
M09 Sink	R1603683-015	**1.9**	1.0	1	04/21/16 19:05	
Outside M10 WF	R1603683-016	1.0 U	1.0	1	04/21/16 19:08	
Outside M38 WF	R1603683-017	1.0 U	1.0	1	04/21/16 19:19	
Outside M16 WF	R1603683-018	1.0 U	1.0	1	04/21/16 19:22	
M16 Sink	R1603683-019	**1.2**	1.0	1	04/21/16 19:25	
M16A Sink	R1603683-020	**6.7**	1.0	1	04/21/16 19:28	
M19 Sink	R1603683-021	1.0 U	1.0	1	04/21/16 16:34	
M21 SInk	R1603683-022	1.0 U	1.0	1	04/21/16 16:37	
Method Blank	R1603683-MB1	1.0 U	1.0	1	04/21/16 16:12	
Method Blank	R1603683-MB2	1.0 U	1.0	1	04/21/16 18:02	

Client:	East Rochester Schools	**Service Request:**	R1603683
Project:	Bird/Morgan Lead Testing	**Date Collected:**	04/12/16
Sample Matrix:	Drinking Water	**Date Received:**	04/12/16
		Date Analyzed:	04/21/16

Matrix Spike Summary
Inorganic Parameters

Sample Name:	M116 Sink	**Units:**	ug/L
Lab Code:	R1603683-010	**Basis:**	NA
Analysis Method:	200.8		

Matrix Spike
R1603683-010MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	2.7	21.5	20.0	94	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.

Client:	East Rochester Schools	**Service Request:**	R1603683
Project:	Bird/Morgan Lead Testing	**Date Collected:**	04/12/16
Sample Matrix:	Drinking Water	**Date Received:**	04/12/16
		Date Analyzed:	04/21/16

Matrix Spike Summary
Inorganic Parameters

Sample Name:	M16A Sink	**Units:**	ug/L
Lab Code:	R1603683-020	**Basis:**	NA
Analysis Method:	200.8		

Matrix Spike
R1603683-020MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	6.7	26.2	20.0	97	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

37646

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 5

Project Name: Bird/Morgan Lead Testing
Project Number:
Project Manager: Jose Correa
Report CC:
Company/Address: East Rochester Schools
108 East Ave
East Rochester, NY 14445
Phone #: 585-750-0981
Email:
Sampler's Signature:
Sampler's Printed Name: Kyle Lee

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)	D.W. Lead							REMARKS/ ALTERNATE DESCRIPTION
																				4/9/16 1425
M209 Sink		4/10/16	0508	DW	1								X							0.16 NTU 30
Outside M210 W.F.			0510		1								X							0.08 NTU 31
M 218 A Sink			0512		1								X							0.11 NTU 32
M 241 Sink			0513		1								X							0.08 NTU 33
Outside M 241 W.F.			0514		1								X							0.16 NTU 34
Outside M 205 W.F.			0515		1								X							0.13 NTU 35
M 204 Sink			0517		1								X							0.18 NTU 36
M 109 Sink			0520		1								X							0.06 NTU 37
Outside M110 W.F.			0521		1								X							0.14 NTU 38
M116 Sink			0523		1								X							0.10 NTU 39
Outside M106 W.F.			0525		1								X							0.13 NTU 40

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

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ 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	Signature Daniel Ward	Signature	Signature	Signature	
Printed Name Kyle Lee	Printed Name ALS	Printed Name	Printed Name	Printed Name	
Firm ALS	Firm 4/12/16 1435	Firm	Firm	Firm	
Date/Time 4/9/16 1435	Date/Time	Date/Time	Date/Time	Date/Time	

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East Rochester Schools
East Rochester Schools

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

37648

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

Project Name: Bird/Morgan Lead Testing	Project Number:
Project Manager: Jose Correa	Report CC:
Company/Address: East Rochester Schools 108 East Ave East Rochester, NY	
Phone #: 585-760-0981	Email:
Sampler's Signature:	Sampler's Printed Name: Kyle Lee

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)	D.W. Lead	4/19/16 1438	REMARKS/ ALTERNATE DESCRIPTION
OutSide M105 W.F.		4/12/16	0526	DW	1								X	0.05NTU	41
M 104 Sink			0527		1								X	0.05NTU	42
M 11 Sink			0531		1								X	0.12NTU	43
M 09 Sink			0534		1								X	0.07NTU	44
OutSide M10 W.F.			0535		1								X	0.1NTU	45
OutSide M38 W.F.			0537		1								X	0.07NTU	46
OutSide M16 W.F.			0539		1								X	0.11NTU	47
M16 Sink			0540		1								X	0.08NTU	48
M16A Sink			0541		1								X	0.18NTU	49
M19 Sink			0543		1								X	0.11NTU	50
M21 Sink			0545		1								X	0.07NTU	51

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

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ 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	Signature Daniel Mac	Signature	Signature	Signature	
Printed Name Kyle Lee	Printed Name ALS	Printed Name	Printed Name	Printed Name	
Firm ALS	Firm 4/12/16/1435	Firm	Firm	Firm	
Date/Time 4/12/16 1435	Date/Time	Date/Time	Date/Time	Date/Time	

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East Rochester Schools
East Rochester Schools

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

Cooler Receipt and Preservation Check Form

R1603683 5
East Rochester Schools
East Rochester Schools

Project/Client East Rochester Folder Number R16-3683

Cooler received on 4/12/16 by: DW 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: 4/12/16 Time: 1443 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	15.7						
Correction Factor (°C)	+0.0						
Corrected Temp (°C)	15.7						
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: _____ 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: Rack by DW on 4/12/16 at 1443

5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: AZ

Cooler Breakdown: Date: 4/17/16 Time: 1048 by: DW

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 NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3		✓			-001-7-022	1.0	M7080070	≤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: 120715-ZAA0

Other Comments:

PC Secondary Review: AZ

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