November 03, 2016 Service Request No:R1611460

Mr. Jim Nugent
Monroe County Water Authority
Shorement Water Treatment Plant
P.O. Box 12697
Rochester, NY 14612-0697

Laboratory Results for: WCSD -PDC, Bus, Grounds, Klem S.,WAC

Dear Mr.Nugent,

Enclosed are the results of the sample(s) submitted to our laboratory October 18, 2016
For your reference, these analyses have been assigned our service request number **R1611460.**

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

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: Monroe County Water Authority
Project: WCSD -PDC, Bus, Grounds, Klem S.,WAC
Sample Matrix: Drinking Water

Service Request:R1611460
Date Received:10/18/16

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Twenty four drinking water samples were received for analysis at ALS Environmental on 10/18/2016. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Subcontracted Analytical Parameters:

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Approved by _____ Date 11/3/2016

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Monroe County Water Authority **Service Request:**R1611460
Project: WCSD -PDC, Bus, Grounds, Klem S.,WAC

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1611460-001	MCWA#PDC-Coffee-R	10/7/2016	
R1611460-002	MCWA#PDC-Coffee-L	10/7/2016	
R1611460-003	MCWA#PDC-Kitchen-F	10/7/2016	
R1611460-004	MCWA#BUS-BD-Lunch-F	10/7/2016	
R1611460-005	MCWA#BUS-Hall-DF	10/7/2016	
R1611460-006	MCWA#BUS-Mech Lunch-F	10/7/2016	
R1611460-007	MCWA#BUS-Mech-DF	10/7/2016	
R1611460-008	MCWA#B+G #2-F	10/7/2016	
R1611460-009	MCWA#B+G #1-Coffee	10/7/2016	
R1611460-010	MCWA#B+G #3-DF-R	10/7/2016	
R1611460-011	MCWA#B+G #3-DF-L	10/7/2016	
R1611460-012	MCWA#B+G #3-F	10/7/2016	
R1611460-013	MCWA#B+G #3-Coffee	10/7/2016	
R1611460-014	MCWA#KS-306-DF	10/7/2016	1035
R1611460-015	MCWA#KS-405-F	10/7/2016	1037
R1611460-016	MCWA#WAC-Concourse-DF-E	10/10/2016	
R1611460-017	MCWA#WAC-Concourse-DF-W	10/10/2016	
R1611460-018	MCWA#WAC-Lobby-DF-E	10/10/2016	
R1611460-019	MCWA#WAC-Lobby-DF-W	10/10/2016	
R1611460-020	MCWA#WAC-Concession-F	10/10/2016	
R1611460-021	MCWA#WAC-First Aid-F	10/10/2016	
R1611460-022	MCWA#WAC-Pool-DF	10/10/2016	
R1611460-023	MCWA#WAC-2ndFl-DF-E	10/10/2016	
R1611460-024	MCWA#WAC-2ndFl-DF-W	10/10/2016	

ALS Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #: 38416

of

Client Name: Monroe County Water Authority

Address: Po Box 12697

Rochester, NY 14612-0697

Contact: James Nugent

Phone#: 585-442-2000 Ext 531

Project Name/#: WCSD - PDC

Bill To: MCWA

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [X] -Y jlm.nugent@mcwa.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED
						250 ml	none	Enter Number of Containers Per Sample or Field Results Below.
MCWA# PDC - Coffee-R	10/7/16	LR 1031	G	DW				Pb
MCWA# PDC - Coffee-L	↓		G	DW				Pb
MCWA# PDC - Kitchen-F	↓		G	DW				Pb
MCWA#			G	DW				Pb
MCWA#			G	DW				Pb
MCWA#	collection date		G	DW				Pb
MCWA#	DYE DY - 10/31/16		G	DW				Pb
MCWA#			G	DW				Pb
MCWA#			G	DW				Pb
MCWA#			G	DW				Pb

Receipt Information (completed by Receiving Lab)

Cooler Temp: _____ Therm ID: _____

No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor
__Composite Sampling __Rental Equipment
__Other:

Project Comments:

LOGGED BY(signature): DATE TIME

REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Dawn Lehl	10/18	1340	2 [signature] ALS	10/18	1340
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ] [ ]

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC [ ]

Reportable to PADEP? Sample Di...

R1611460 5

Monroe County Water Authority
WCSD

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

ALS Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #: 38416

of

Client Name: Monroe County Water Authority

Address: Po Box 12697
Rochester, NY 14612-0697

Contact: James Nugent

Phone#: 585-442-2000 Ext 531

Project Name/#: WCSD - Bus GARAGE

Bill To: MCWA

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [X] -Y jim.nugent@mcwa.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED
						250 ml	none	Enter Number of Containers Per Sample or Field Results Below.
MCWA# Bus - BD - Lunch - F	10/7/16		G	DW				Pb
MCWA# Bus - Hall - DF	↓		G	DW				Pb
MCWA# Bus - Mech Lunch - F			G	DW				Pb
MCWA# Bus - Mech - DF			G	DW				Pb
~~MCWA#~~			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb

per D.T. 10/3/16 - Collection date

Project Comments:

LOGGED BY(signature): DATE TIME

REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Darren Yeni	10/18	1340	2	10/18	1340
3			4		
5			6		
7			8		
9			10		

Receipt Information (completed by Receiving Lab)

Cooler Temp: ____ Therm ID: ____

No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor
__Composite Sampling __Rental Equipment
__Other:____

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ]

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC

R1611460
Monroe County Water Authority
WCSD
5

PWS:

EDDs: Format Type-

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

ALS Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #: 38416

of

Client Name: Monroe County Water Authority

Address: Po Box 12697

Rochester, NY 14612-0697

Contact: James Nugent

Phone#: 585-442-2000 Ext 531

Project Name/#: WCSD Building & Grounds

Bill To: MCWA

TAT [X] Normal-Standard TAT is 10-12 business days.

[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [X] -Y jlm.nugent@mcwa.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED
						250 ml	none	
MCWA# B+G #2 - F	10/7/16		G	DW				Pb
MCWA# B+G #1 - Coffee			G	DW				Pb
MCWA# B+G # 3 - DF - R			G	DW				Pb
MCWA# B+G #3 - DF - L			G	DW				Pb
MCWA# B+G #3 - F			G	DW				Pb
MCWA# B+G #3 - Coffee			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb

Enter Number of Containers Per Sample or Field Results Below.

Project Comments:

LOGGED BY(signature): DATE TIME

REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Darren Yost	10/18	1340	2 [signature] ALS	10/18	1340
3			4		
5			6		
7			8		
9			10		

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; W

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Receipt Information (completed by Receiving Lab)

Cooler Temp: _____ Therm ID: _____

No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ] [ ]

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC

Reportable to PADEP? Yes [ ]

PWSID #

EDDS:

Sample Disposal: Lab [ ] Special [ ]

R1611460 5

Monroe County Water Authority WCSD

ALS Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #: 38416

of

Client Name: Monroe County Water Authority

Address: Po Box 12697
Rochester, NY 14612-0697

Contact: James Nugent

Phone#: 585-442-2000 Ext 531

Project Name/#: WCSD - Klem South

Bill To: MCWA

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [X] -Y jim.nugent@mcwa.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED
						250 ml	none	
MCWA# KS-306-DF	10/7/16	10:35	G	DW				Pb
MCWA# KS-405-F	10/7/16	10:37	G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb
MCWA#____			G	DW				Pb

Enter Number of Containers Per Sample or Field Results Below.

Project Comments:

LOGGED BY(signature): DATE TIME

REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Darren Uphl	10/18	1340	2 ALS	10-18	1340
3			4		
5			6		
7			8		
9			10		

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA

Receipt Information (completed by Receiving Lab)

Cooler Temp: ____ Therm ID: ____

No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor
__Composite Sampling __Rental Equipment
__Other:

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ]

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC [ ]

Reportable to PADEP? Yes [ ]

Sample Disposal 5

R1611460
Monroe County Water Authority
WCSD

ALS Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #: 38416

of

Client Name: Monroe County Water Authority

Address: Po Box 12697

Rochester, NY 14612-0697

Contact: James Nugent

Phone#: 585-442-2000 Ext 531

Project Name/#: WCSD - WAC

Bill To: MCWA

TAT [X] Normal-Standard TAT is 10-12 business days.

[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [X] -Y jim.nugent@mcwa.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED
						250 ml	none	Enter Number of Containers Per Sample or Field Results Below.
MCWA# WAC-Concourse-DF-E	10/10/16		G	DW				Pb
MCWA# WAC-Concourse-DF-W			G	DW				Pb
MCWA# WAC-Lobby-DF-E			G	DW				Pb
MCWA# WAC-Lobby-DF-W			G	DW				Pb
MCWA# WAC-Concession-F			G	DW				Pb
MCWA# WAC-First Aid-F			G	DW				Pb
MCWA# WAC-Pool-DF			G	DW				Pb
MCWA# WAC-2nd Fl-DF-E			G	DW				Pb
MCWA# WAC 2nd Fl-DF-W			G	DW				Pb
MCWA#			G	DW				Pb

Receipt Information (completed by Receiving Lab)

Cooler Temp: _____ Therm ID: _____

No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: _Pickup _Labor _Composite Sampling _Rental Equipment _Other:

Project Comments:

LOGGED BY(signature): DATE TIME

REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Darren Yehl	10/18	1340	2 ALS	10/18	1340
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ] [ ]

State Samples Collected In: [X] NY [ ] NJ [ ] PA [ ] NC [ ]

R1611460 Monroe County Water Authority WCSD

Sample Disposal: 5

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

5

Cooler Receipt and Preservation Check Form

Project/Client_____ Folder Number_____.

Cooler received on 10-18-16 by: TS

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: 10-18 Time: 1340 ID: (IR#7) IR#8 From: Temp Blank (Sample Bottle)

Observed Temp (°C)	23.0						
Correction Factor (°C)	0						
Corrected Temp (°C)	23.0						
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: _____ 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: SMO by TS on 10-18-16 at 1240
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 10-31-16 Time: 1120 by: TS

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. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (NA)
5. 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		X	HNU		all	1mL	B033261564	<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: _____
Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

PC Secondary Review: _____

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

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Lisa Reyes

Project Number: R1611460
Project Manager: Lisa Reyes
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Pb T UnD 200.8
~~R1611460-001~~	MCWA#PDC-Coffee-R	1	Drinking Water	10/7/16		Middletown ALS	X
R1611460-002	MCWA#PDC-Coffee-L		Drinking Water	10/7/16		Middletown ALS	X
R1611460-003	MCWA#PDC-Kitchen-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-004	MCWA#BUS-BD-Lunch-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-005	MCWA#BUS-Hall-DF		Drinking Water	10/7/16		Middletown ALS	X
R1611460-006	MCWA#BUS-Mech Lunch-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-007	MCWA#BUS-Mech-DF		Drinking Water	10/7/16		Middletown ALS	X
R1611460-008	MCWA#B+G #2-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-009	MCWA#B+G #1-Coffee		Drinking Water	10/7/16		Middletown ALS	X
R1611460-010	MCWA#B+G #3-DF-R		Drinking Water	10/7/16		Middletown ALS	X
R1611460-011	MCWA#B+G #3-DF-L		Drinking Water	10/7/16		Middletown ALS	X
~~R1611460-012~~	MCWA#B+G #3-F		Drinking Water	10/7/16		Middletown ALS	X

UR 10/31/16

Special Instructions/Comments

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

X **STANDARD**

Requested FAX Date: _____

Requested Report Date: 11/04/16 ✓

Report Requirements

____ I. Results Only

X II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J N

EDD N

Invoice Information

PO# 58R1611460

Bill to

Relinquished By: 10/31/16/1683 Received By: _____ Airbill Number: _____

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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.

Subcontracted Analytical Parameters

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November 3, 2016

Reports and Invoices
ALS Environmental
1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623

Certificate of Analysis

Project Name:	**Metals without J values**	Workorder:	**2185834**
Purchase Order:		Workorder ID:	**R1611460**

Dear Reports Invoices:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, November 1, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mr. Brad W Kintzer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Mr. Brad W Kintzer
Project Coordinator

SAMPLE SUMMARY

Workorder: 2185834 R1611460

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2185834001	MCWA#PDC-Coffee-R	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834002	MCWA#PDC-Coffee-L	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834003	MCWA#PDC-Kitchen-F	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834004	MCWA#BUS-BD-Lunch-F	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834005	MCWA#BUS-Hall-DF	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834006	MCWA#BUS-Mech Lunch-F	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834007	MCWA#BUS-Mech-DF	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834008	MCWA#B+G #2-F	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834009	MCWA#B+G #1-Coffee	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834010	MCWA#B+G #3-DF-R	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834011	MCWA#B+G #3-DF-I	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834012	MCWA#B+G #3-F	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834013	MCWA#B+G #3-Coffee	Water	10/7/2016 00:00	11/1/2016 09:17	Collected by Client
2185834014	MCWA#KS-306-DF	Water	10/7/2016 10:35	11/1/2016 09:17	Collected by Client
2185834015	MCWA#KS-405-F	Water	10/7/2016 10:37	11/1/2016 09:17	Collected by Client
2185834016	MCWA#WAC-Concourse-DF-E	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834017	MCWA#WAC-Concourse-DF-W	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834018	MCWA#WAC-Lobby-DF-E	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834019	MCWA#WAC-Lobby-DF-W	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834020	MCWA#WAC-Concession-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834021	MCWA#WAC-First Aid-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834022	MCWA#WAC-Pool-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834023	MCWA#WAC-2ndFl-DF-E	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185834024	MCWA#WAC-2ndFl-DF-W	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2185834 R1611460

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834001** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#PDC-Coffee-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.0031		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:11	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834002** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#PDC-Coffee-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.025		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:19	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834003** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#PDC-Kitchen-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:21	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834004** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#BUS-BD-Lunch-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:24	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834005** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#BUS-Hall-DF** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:27	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834006** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#BUS-Mech Lunch-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.0022		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:29	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834007** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#BUS-Mech-DF** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:37	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834008** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#B+G #2-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:40	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834009** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#B+G #1-Coffee** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.011		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:42	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834010** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#B+G #3-DF-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:45	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834011** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#B+G #3-DF-I** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:48	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834012** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#B+G #3-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.0020		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:56	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834013** Date Collected: 10/7/2016 00:00 Matrix: Water

Sample ID: **MCWA#B+G #3-Coffee** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 14:59	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834014** Date Collected: 10/7/2016 10:35 Matrix: Water

Sample ID: **MCWA#KS-306-DF** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.0054		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:02	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834015** Date Collected: 10/7/2016 10:37 Matrix: Water

Sample ID: **MCWA#KS-405-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.0029		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:10	MO	A1

Mr. Brad W Kintzer
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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834016** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-Concourse-DF-E** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:20	MO	A1

Mr. Brad W Kintzer
Project Coordinator

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834017** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-Concourse-DF-W** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:22	MO	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834018** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-Lobby-DF-E** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:25	MO	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834019** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-Lobby-DF-W** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:28	MO	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834020** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-Concession-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	0.0029		mg/L	0.0020	EPA 200.8	11/2/16 12:04	MO	11/2/16 15:30	MO	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834021** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-First Aid-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:13	MO	11/2/16 14:13	MO	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834022** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-Pool-DF** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:13	MO	11/2/16 14:21	MO	A1

Mr. Brad W Kintzer
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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834023** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-2ndFl-DF-E** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:13	MO	11/2/16 14:29	MO	A1

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ANALYTICAL RESULTS

Workorder: 2185834 R1611460

Lab ID: **2185834024** Date Collected: 10/10/2016 00:00 Matrix: Water

Sample ID: **MCWA#WAC-2ndFl-DF-W** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Lead, Total	ND		mg/L	0.0020	EPA 200.8	11/2/16 12:13	MO	11/2/16 14:32	MO	A1

Mr. Brad W Kintzer
Project Coordinator

QUALITY CONTROL DATA

Workorder: 2185834 R1611460

QC Batch: MDIG/60598 **Analysis Method:** EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2185834001, 2185834002, 2185834003, 2185834004, 2185834005, 2185834006, 2185834007, 2185834008, 2185834009, 2185834010, 2185834011, 2185834012, 2185834013, 2185834014, 2185834015, 2185834016,

METHOD BLANK: 2433617

Parameter	Blank Result	Units	Reporting Limit
Lead, Total	ND	mg/L	0.0020

LABORATORY CONTROL SAMPLE: 2433618

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	99.1	mg/L	.005	0.0050	85 - 115

MATRIX SPIKE: 2433619 DUPLICATE: 2433620 ORIGINAL: 2185834001

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	.00308	mg/L	.1	.10557	.10709	102	104	70 - 130	1.43	20

MATRIX SPIKE: 2433621 DUPLICATE: 2433622 ORIGINAL: 2185834011

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	.00134	mg/L	.1	.10283	.10509	101	104	70 - 130	2.17	20

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QUALITY CONTROL DATA

Workorder: 2185834 R1611460

QC Batch: MDIG/60599 **Analysis Method:** EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2185834021, 2185834022, 2185834023, 2185834024

METHOD BLANK: 2433637

Parameter	Blank Result	Units	Reporting Limit
Lead, Total	ND	mg/L	0.0020

LABORATORY CONTROL SAMPLE: 2433638

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	98.2	mg/L	.005	0.0049	85 - 115

MATRIX SPIKE: 2433639 DUPLICATE: 2433640 ORIGINAL: 2185834021

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	.00042	mg/L	.1	.10304	.10501	103	105	70 - 130	1.9	20

MATRIX SPIKE: 2433641 DUPLICATE: 2433642 ORIGINAL: 2185839007

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Lead, Total	.0019	mg/L	.1	.10676	.10428	105	102	70 - 130	2.35	20

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2185834 R1611460

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2185834001	MCWA#PDC-Coffee-R	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834002	MCWA#PDC-Coffee-L	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834003	MCWA#PDC-Kitchen-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834004	MCWA#BUS-BD-Lunch-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834005	MCWA#BUS-Hall-DF	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834006	MCWA#BUS-Mech Lunch-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834007	MCWA#BUS-Mech-DF	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834008	MCWA#B+G #2-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834009	MCWA#B+G #1-Coffee	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834010	MCWA#B+G #3-DF-R	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834011	MCWA#B+G #3-DF-I	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834012	MCWA#B+G #3-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834013	MCWA#B+G #3-Coffee	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834014	MCWA#KS-306-DF	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834015	MCWA#KS-405-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834016	MCWA#WAC-Concourse-DF-E	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834017	MCWA#WAC-Concourse-DF-W	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834018	MCWA#WAC-Lobby-DF-E	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834019	MCWA#WAC-Lobby-DF-W	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834020	MCWA#WAC-Concession-F	EPA ACIDT	MDIG/60598	EPA 200.8	META/54820
2185834021	MCWA#WAC-First Aid-F	EPA ACIDT	MDIG/60599	EPA 200.8	META/54821
2185834022	MCWA#WAC-Pool-DF	EPA ACIDT	MDIG/60599	EPA 200.8	META/54821
2185834023	MCWA#WAC-2ndFl-DF-E	EPA ACIDT	MDIG/60599	EPA 200.8	META/54821
2185834024	MCWA#WAC-2ndFl-DF-W	EPA ACIDT	MDIG/60599	EPA 200.8	META/54821

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

A

* 2185834 *

Project Number: R1611460
Project Manager: Lisa Reyes
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Pb T UnD 200.8
~~R1611460-001~~	MCWA#PDC-Coffee-R	1	Drinking Water	10/7/16		Middletown ALS	X
R1611460-002	MCWA#PDC-Coffee-L		Drinking Water	10/7/16		Middletown ALS	X
R1611460-003	MCWA#PDC-Kitchen-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-004	MCWA#BUS-BD-Lunch-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-005	MCWA#BUS-Hall-DF		Drinking Water	10/7/16		Middletown ALS	X
R1611460-006	MCWA#BUS-Mech Lunch-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-007	MCWA#BUS-Mech-DF		Drinking Water	10/7/16		Middletown ALS	X
R1611460-008	MCWA#B+G #2-F		Drinking Water	10/7/16		Middletown ALS	X
R1611460-009	MCWA#B+G #1-Coffee		Drinking Water	10/7/16		Middletown ALS	X
R1611460-010	MCWA#B+G #3-DF-R		Drinking Water	10/7/16		Middletown ALS	X
R1611460-011	MCWA#B+G #3-DF-L		Drinking Water	10/7/16		Middletown ALS	X
~~R1611460-012~~	MCWA#B+G #3-F		Drinking Water	10/7/16		Middletown ALS	X

	Y	N	Initials	
Custody Seals Present?			AT	Cooler Temp: 1.8 °C
(if present) Seals Intact?				
Received on Ice?				Cooler #:
COC/Lbls Complete				
Cont in Good Cond?				Therm ID: TH352
Correct Containers?				
Correct Samp Vol?				Ship Carrier:
Correct Preservation?				FedEx UPS
Headspace/Volatiles?				DHL

Tracking #: 6826 8016 9624

LR 10/31/16

Special Instructions/Comments

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

X STANDARD

Requested FAX Date: _____

Requested Report Date: 11/04/16 ✓

Report Requirements

___ I. Results Only

X II. Results + QC Summaries

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

PQL/MDL/J N
EDD N

Invoice Information

PO# 58R1611460

Bill to

Relinquished By: [signature] 10/31/16/1653 Received By: [signature] 11/1/16 0917 Airbill Number: _____

ALS Environmental Chain of Custody

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ALS Contact: Lisa Reyes

Project Number: R1611460
Project Manager: Lisa Reyes
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Pb T UnD 200.8
~~R1611460-013~~	MCWA#B+G #3-Coffee	1	Drinking Water	10/7/16		Middletown ALS	X
R1611460-014	MCWA#KS-306-DF		Drinking Water	10/7/16	1035	Middletown ALS	X
R1611460-015	MCWA#KS-405-F		Drinking Water	10/7/16	1037	Middletown ALS	X
R1611460-016	MCWA#WAC-Concourse-DF-E		Drinking Water	10/10/16		Middletown ALS	X
R1611460-017	MCWA#WAC-Concourse-DF-W		Drinking Water	10/10/16		Middletown ALS	X
R1611460-018	MCWA#WAC-Lobby-DF-E		Drinking Water	10/10/16		Middletown ALS	X
R1611460-019	MCWA#WAC-Lobby-DF-W		Drinking Water	10/10/16		Middletown ALS	X
R1611460-020	MCWA#WAC-Concession-F		Drinking Water	10/10/16		Middletown ALS	X
R1611460-021	MCWA#WAC-First Aid-F		Drinking Water	10/10/16		Middletown ALS	X
R1611460-022	MCWA#WAC-Pool-DF		Drinking Water	10/10/16		Middletown ALS	X
R1611460-023	MCWA#WAC-2ndFl-DF-E		Drinking Water	10/10/16		Middletown ALS	X
~~R1611460-024~~	MCWA#WAC-2ndFl-DF-W		Drinking Water	10/10/16		Middletown ALS	X

LR 10/31/16

Special Instructions/Comments

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

____ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 11/04/16

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J N
EDD N

Invoice Information

PO# 58R1611460

Bill to

Relinquished By: 10/31/16/1637 Received By: 11/1/16 0917 Airbill Number: