



November 03, 2016

Service Request No:R1611466

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

Laboratory Results for: WCSD-Willink Middle School

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 **R1611466**.

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



Client: Monroe County Water Authority
Project: WCSD-Willink Middle School
Sample Matrix: Drinking Water

Service Request:R1611466
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

Sixty 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
Project: WCSD-Willink Middle School

Service Request:R1611466

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1611466-001	MCWA# WMS-C206-F-M	10/10/2016	
R1611466-002	MCWA# WMS-C206-F-R	10/10/2016	
R1611466-003	MCWA# WMS-C207-F-L	10/10/2016	
R1611466-004	MCWA# WMS-C207-F-M	10/10/2016	
R1611466-005	MCWA# WMS-C207-F-R	10/10/2016	
R1611466-006	MCWA# WMS-C207-DF	10/10/2016	
R1611466-007	MCWA# WMS-B207-F-R	10/10/2016	
R1611466-008	MCWA# WMS-B207-F-M	10/10/2016	
R1611466-009	MCWA# WMS-B207-F-L	10/10/2016	
R1611466-010	MCWA# WMS-B207-DF	10/10/2016	
R1611466-011	MCWA# WMS-B105-F	10/10/2016	
R1611466-012	MCWA# WMS-B111-DF	10/10/2016	
R1611466-013	MCWA# WMS-B112-F	10/10/2016	
R1611466-014	MCWA# WMS-A105-F	10/10/2016	
R1611466-015	MCWA# WMS-A107-F	10/10/2016	
R1611466-016	MCWA# WMS-A112-F	10/10/2016	
R1611466-017	MCWA# WMS-A111-DF	10/10/2016	
R1611466-018	MCWA# WMS-B206-F-M	10/10/2016	
R1611466-019	MCWA# WMS-B206-F-R	10/10/2016	
R1611466-020	MCWA# WMS-C206-F-L	10/10/2016	
R1611466-021	MCWA# WMS-A207-DF	10/10/2016	
R1611466-022	MCWA# WMS-A207-F-L	10/10/2016	
R1611466-023	MCWA# WMS-A207-F-M	10/10/2016	
R1611466-024	MCWA# WMS-A207-F-R	10/10/2016	
R1611466-025	MCWA# WMS-A206-F-L	10/10/2016	
R1611466-026	MCWA# WMS-A206-F-R	10/10/2016	
R1611466-027	MCWA# WMS-A206-F-M	10/10/2016	
R1611466-028	MCWA# WMS-B110-F	10/10/2016	
R1611466-029	MCWA# WMS-A110-F	10/10/2016	
R1611466-030	MCWA# WMS-B107-F	10/10/2016	
R1611466-031	MCWA# WMS-NURSE BATHROOM-F	10/10/2016	
R1611466-032	MCWA# WMS-D-106-F	10/10/2016	
R1611466-033	MCWA# WMS-C111-DF	10/10/2016	
R1611466-034	MCWA# WMS-C112-F	10/10/2016	
R1611466-035	MCWA# WMS-E105-F-R	10/10/2016	
R1611466-036	MCWA# WMS-E105-F-L	10/10/2016	
R1611466-037	MCWA# WMS-C105-F	10/10/2016	
R1611466-038	MCWA# WMS-G113-F	10/10/2016	
R1611466-039	MCWA# WMS-E106-F-L	10/10/2016	
R1611466-040	MCWA# WMS-B206-F-L	10/10/2016	
R1611466-041	MCWA# WMS-KITCHEN-F-W	10/10/2016	
R1611466-042	MCWA# WMS-KITCHEN-F-E	10/10/2016	

Client: Monroe County Water Authority
Project: WCSD-Willink Middle School

Service Request:R1611466

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1611466-043	MCWA# WMS-KITCHEN-COFFEE	10/10/2016	
R1611466-044	MCWA# WMS-CAPE-DF	10/10/2016	
R1611466-045	MCWA# WMS-NURSE OFFICE-F	10/10/2016	
R1611466-046	MCWA# WMS-NURSE-F	10/10/2016	
R1611466-047	MCWA# WMS-CUSTODIAL-DF	10/10/2016	
R1611466-048	MCWA# WMS-E103-F-R	10/10/2016	
R1611466-049	MCWA# WMS-E103-F-L	10/10/2016	
R1611466-050	MCWA# WMS-WTRM-DF	10/10/2016	
R1611466-051	MCWA# WMS-LIBRARY-DF	10/10/2016	
R1611466-052	MCWA# WMS-LIBRARY-F	10/10/2016	
R1611466-053	MCWA# WMS-D103-DF	10/10/2016	
R1611466-054	MCWA# WMS-D103-F	10/10/2016	
R1611466-055	MCWA# WMS-MO-F	10/10/2016	
R1611466-056	MCWA# WMS-B123-F	10/10/2016	
R1611466-057	MCWA# WMS-C107-F	10/10/2016	
R1611466-058	MCWA# WMS-C110-F	10/10/2016	
R1611466-059	MCWA# WMS-FACULTY-F	10/10/2016	
R1611466-060	MCWA# WMS-E106-F-R	10/10/2016	



Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC #:		of
ALS Quote #:	38416	

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-Willink Middle School
 Bill To: MCWA
 TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved?
 Email? -Y Jim.nugent@mcwa.com
 Fax? -Y No.:

Container Type	Container Size	Preservative
	250 ml	none

Receipt Information (completed by Receiving Lab)
 Cooler Temp: _____ Therm ID: _____
 No. of Coolers: _____ Y N Initial
 Custody Seals Present? Y N
 (if present) Seals Intact? Y N
 Received on Ice? Y N
 COC/Labels Complete/Accurate? Y N
 Cont. In Good Cond.? Y N
 Correct Containers? Y N
 Correct Sample Volumes? Y N
 Correct Preservation? Y N
 Headspace/Volatiles? Y N
 Courier/Tracking #:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	ANALYSES/METHOD REQUESTED										
Enter Number of Containers Per Sample or Field Results Below.															
MCWA# <u>WMS-C206-F-M</u>	<u>10/10/16</u>		G	DW	Pb										
MCWA# <u>WMS-C206-F-R</u>			G	DW	Pb										
MCWA# <u>WMS-C207-F-L</u>			G	DW	Pb										
MCWA# <u>WMS-C207-F-M</u>			G	DW	Pb										
MCWA# <u>WMS-C207-F-R</u>			G	DW	Pb										
MCWA# <u>WMS-C207-DF</u>			G	DW	Pb										
MCWA# <u>WMS B207-F-R</u>			G	DW	Pb										
MCWA# <u>WMS B207-F-M</u>			G	DW	Pb										
MCWA# <u>WMS B207-F-L</u>			G	DW	Pb										
MCWA# <u>WMS B207-DF</u>			G	DW	Pb										

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>Darren York</u>	<u>10/18</u>	<u>1340</u>	<u>[Signature] ALS</u>	<u>10/18</u>	<u>1340</u>

LOGGED BY (signature): _____ DATE: _____ TIME: _____
 REVIEWED BY (signature): _____ DATE: _____ TIME: _____

Data Deliverables: Standard CLP-like USACE
 Reportable to PADEP? Yes
 PWSID # _____ EDDS: For _____
 Special Processing: USACE Navy
 State Samples Collected In: NY NJ PA NC
 Sample Disposal: Lab
 R1611466
 Monroe County Water Authority
 WCSD-WILLINK MIDDLE SCHOOL
 5





Environmental

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS

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

COC #:		of
ALS Quote #:	38416	

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#: WMSD - Willink Middle School
 Bill To: MCWA
 TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved?
 Email? -Y jim.nugent@mcwa.com
 Fax? -Y No.:

Container Type	Container Size	Preservative																
	250 ml	none																

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 Description/Location (as it will appear on the lab report)	Sample Date	Time	G or C	Matrix	ANALYSES/METHOD REQUESTED	Enter Number of Containers Per Sample or Field Results Below.															
MCWA# WMS-B105-F	10/10/16		G	DW	Pb																
MCWA# WMS-B111-DF			G	DW	Pb																
MCWA# WMS-B112-F			G	DW	Pb																
MCWA# WMS-A105-F			G	DW	Pb																
MCWA# WMS-A107-F			G	DW	Pb																
MCWA# WMS-A112-F			G	DW	Pb																
MCWA# WMS-A111-DF			G	DW	Pb																
MCWA# WMS B206-F-M			G	DW	Pb																
MCWA# WMS B206-F-R			G	DW	Pb																
MCWA# WMS C206-F-L			G	DW	Pb																

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 *Danica Yeh* 10/12 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: NY NJ PA NC
 Reportable to PADEP? Yes
 Sample Disposal: Lab Special
 PWSID # _____
 5

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

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

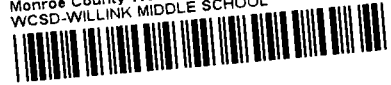




Cooler Receipt and Preservation Check Form

R1611466
Monroe County Water Authority
WCSD-WILLINK MIDDLE SCHOOL

5



Project/Client MCWA 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 <input checked="" type="checkbox"/>	N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>
4	Circle: Wet Ice Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>

5a	Perchlorate samples have required headspace?	Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>	NA <input checked="" type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input type="checkbox"/>	N <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT		
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="checkbox"/>

8. Temperature Readings Date: 10-18 Time: 1340 ID: IR#7 IR#8 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>23.0</u>									
Correction Factor (°C)	<u>0</u>									
Corrected Temp (°C)	<u>23.0</u>									
Within 0-6°C?	Y <input checked="" type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>	
If <0°C, were samples frozen?	Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>	Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>	Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>	Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>	Y <input type="checkbox"/>	N <input checked="" type="checkbox"/>

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: SNO by TS on 10-18-16 at 1340
5035 samples placed in storage location: _____ by _____ on _____ at _____

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

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 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		X	<u>none</u>		<u>all</u>	<u>1ml</u>	<u>1323261564</u>	<u><2</u>
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK
No=Samples were preserved at The lab as listed
PM OK to Adjust: _____

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

Bottle lot numbers: _____
Other Comments: _____

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

PC Secondary Review: VR

*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: R1611466
 Project Manager: Lisa Reyes
 QAP: LAB QAP

Pb T 200.8

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	
				Date	Time		
R1611466-001	MCWA# WMS-C206-F-M	1	Drinking Water	10/10/16		Middletown ALS	X
R1611466-002	MCWA# WMS-C206-F-R		Drinking Water	10/10/16		Middletown ALS	X
R1611466-003	MCWA# WMS-C207-F-L		Drinking Water	10/10/16		Middletown ALS	X
R1611466-004	MCWA# WMS-C207-F-M		Drinking Water	10/10/16		Middletown ALS	X
R1611466-005	MCWA# WMS-C207-F-R		Drinking Water	10/10/16		Middletown ALS	X
R1611466-006	MCWA# WMS-C207-DF		Drinking Water	10/10/16		Middletown ALS	X
R1611466-007	MCWA# WMS-B207-F-R		Drinking Water	10/10/16		Middletown ALS	X
R1611466-008	MCWA# WMS-B207-F-M		Drinking Water	10/10/16		Middletown ALS	X
R1611466-009	MCWA# WMS-B207-F-L		Drinking Water	10/10/16		Middletown ALS	X
R1611466-010	MCWA# WMS-B207-DF		Drinking Water	10/10/16		Middletown ALS	X
R1611466-011	MCWA# WMS-B105-F		Drinking Water	10/10/16		Middletown ALS	X
R1611466-012	MCWA# WMS-B111-DF		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 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: <u>11/08/16</u>	Report Requirements _____ I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries _____ III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data PQL/MDL/J <u>N</u> EDD <u>N</u>	Invoice Information PO# 58R1611466 Bill to
--	--	--	--

Relinquished By: ahel mhd 10/31/16 1633

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

<p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* 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.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\times 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
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>

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.



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.



Subcontracted Analytical Parameters

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

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: 2185842
Purchase Order:	Workorder ID: R1611466

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.

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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

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SAMPLE SUMMARY

Workorder: 2185842 R1611466

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2185842001	MCWA# WMS-C206-F-M	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842002	MCWA# WMS-C206-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842003	MCWA# WMS-C207-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842004	MCWA# WMS-C207-F-M	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842005	MCWA# WMS-C207-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842006	MCWA# WMS-C207-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842007	MCWA# WMS-B207-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842008	MCWA# WMS-B207-F-M	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842009	MCWA# WMS-B207-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842010	MCWA# WMS-B207-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842011	MCWA# WMS-B105-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842012	MCWA# WMS-B111-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842013	MCWA# WMS-B112-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842014	MCWA# WMS-A105-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842015	MCWA# WMS-A107-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842016	MCWA# WMS-A112-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842017	MCWA# WMS-A111-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842018	MCWA# WMS-B206-F-M	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842019	MCWA# WMS-B206-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842020	MCWA# WMS-C206-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842021	MCWA# WMS-A207-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842022	MCWA# WMS-A207-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842023	MCWA# WMS-A207-F-M	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842024	MCWA# WMS-A207-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842025	MCWA# WMS-A206-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842026	MCWA# WMS-A206-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842027	MCWA# WMS-A206-F-M	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842028	MCWA# WMS-B110-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842029	MCWA# WMS-A110-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842030	MCWA# WMS-B107-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842031	MCWA# WMS-NURSE BATHROOM-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842032	MCWA# WMS-D-106-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842033	MCWA# WMS-C111-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client

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SAMPLE SUMMARY

Workorder: 2185842 R1611466

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2185842034	MCWA# WMS-C112-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842035	MCWA# WMS-E105-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842036	MCWA# WMS-E105-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842037	MCWA# WMS-C105-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842038	MCWA# WMS-G113-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842039	MCWA# WMS-E106-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842040	MCWA# WMS-B206-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842041	MCWA# WMS-KITCHEN-F-W	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842042	MCWA# WMS-KITCHEN-F-E	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842043	MCWA# WMS-KITCHEN COFFEE	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842044	MCWA# WMS-CAPE-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842045	MCWA# WMS-NURSE OFFICE-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842046	MCWA# WMS-NURSE-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842047	MCWA# WMS-CUSTODIAL-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842048	MCWA# WMS-E103-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842049	MCWA# WMS-E103-F-L	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842050	MCWA# WMS-WTRM-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842051	MCWA# WMS-LIBRARY-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842052	MCWA# WMS-LIBRARY-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842053	MCWA# WMS-D103-DF	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842054	MCWA# WMS-D103-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842055	MCWA# WMS-MO-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842056	MCWA# WMS-B123-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842057	MCWA# WMS-C107-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842058	MCWA# WMS-C110-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842059	MCWA# WMS-FACULTY-F	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client
2185842060	MCWA# WMS-E106-F-R	Water	10/10/2016 00:00	11/1/2016 09:17	Collected by Client

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SAMPLE SUMMARY

Workorder: 2185842 R1611466

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 performed 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 incubator 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: 2185842 R1611466

Lab ID: **2185842001** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C206-F-M** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.044		mg/L	0.0020	EPA 200.8	11/2/16 15:04	MO	11/2/16 18:28	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842002** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C206-F-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.043		mg/L	0.0020	EPA 200.8	11/2/16 15:04	MO	11/2/16 18:31	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842003** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C207-F-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.052		mg/L	0.0020	EPA 200.8	11/2/16 15:04 MO	11/2/16 18:33 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842004** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C207-F-M** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.033		mg/L	0.0020	EPA 200.8	11/2/16 15:04 MO	11/2/16 18:36 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842005** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C207-F-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.032		mg/L	0.0020	EPA 200.8	11/2/16 15:04 MO	11/2/16 18:39 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842006** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C207-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 15:04 MO	11/2/16 18:41 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842007** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B207-F-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.033		mg/L	0.0020	EPA 200.8	11/2/16 15:04 MO	11/2/16 18:44 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842008** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B207-F-M** 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 15:05 MO	11/2/16 18:52 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842009** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B207-F-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.033		mg/L	0.0020	EPA 200.8	11/2/16 15:05	MO	11/2/16 19:00	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842010** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B207-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 15:05	MO	11/2/16 19:03	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842011** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B105-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 15:05	MO	11/2/16 19:05	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842012** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B111-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 15:05	MO	11/2/16 19:08	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842013** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B112-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 15:05 MO	11/2/16 19:11 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842014** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A105-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 15:05 MO	11/2/16 19:13 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842015** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A107-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 15:05 MO	11/2/16 19:16 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842016** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A112-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 15:05 MO	11/2/16 19:24 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842017** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A111-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 15:05 MO	11/2/16 19:27 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842018** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B206-F-M** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.026		mg/L	0.0020	EPA 200.8	11/2/16 15:05	MO	11/2/16 19:29	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842019** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B206-F-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.053		mg/L	0.0020	EPA 200.8	11/2/16 15:05 MO	11/2/16 19:37 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842020** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C206-F-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.024		mg/L	0.0020	EPA 200.8	11/2/16 15:05	MO	11/2/16 19:40	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842021** Date Collected: 10/10/2016 00:00 Matrix: Water
Sample ID: **MCWA# WMS-A207-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 15:05 MO	11/2/16 19:43 MO	A1


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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842022** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A207-F-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.051		mg/L	0.0020	EPA 200.8	11/2/16 15:05 MO	11/2/16 19:45 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842023** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A207-F-M** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.032		mg/L	0.0020	EPA 200.8	11/2/16 15:05 MO	11/2/16 19:48 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842024** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A207-F-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.037		mg/L	0.0020	EPA 200.8	11/2/16 15:05 MO	11/2/16 19:56 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842025** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A206-F-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.042		mg/L	0.0020	EPA 200.8	11/2/16 15:05	MO	11/2/16 19:59	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842026** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A206-F-R** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.052		mg/L	0.0020	EPA 200.8	11/2/16 15:05	MO	11/2/16 20:02	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842027** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A206-F-M** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.035		mg/L	0.0020	EPA 200.8	11/2/16 15:05	MO	11/2/16 20:05	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842028** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B110-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 15:22	MO	11/2/16 17:17	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842029** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-A110-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 15:22 MO	11/2/16 17:25 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842030** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B107-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 15:22	MO	11/2/16 17:28	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842031** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-NURSE BATHROOM-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 15:22 MO	11/2/16 17:31 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842032** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-D-106-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.0042		mg/L	0.0020	EPA 200.8	11/2/16 15:22 MO	11/2/16 17:39 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842033** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C111-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 15:22	MO	11/2/16 17:42	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842034** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C112-F** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.0039		mg/L	0.0020	EPA 200.8	11/2/16 15:22 MO	11/2/16 17:45 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842035** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-E105-F-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 15:22	MO	11/2/16 17:47	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842036** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-E105-F-L** 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 15:22	MO	11/2/16 17:50	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842037** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C105-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 15:22 MO	11/2/16 17:53 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842038** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-G113-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 15:22	MO	11/2/16 17:55	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842039** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-E106-F-L** 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 15:22 MO	11/2/16 18:04 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842040** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B206-F-L** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	0.032		mg/L	0.0020	EPA 200.8	11/2/16 15:22	MO	11/2/16 18:12	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842041** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-KITCHEN-F-W** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.0046		mg/L	0.0020	EPA 200.8	11/2/16 15:22 MO	11/2/16 18:15 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842042** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-KITCHEN-F-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 15:22	MO	11/2/16 18:18	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842043** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-KITCHEN COFFEE** Date Received: 11/1/2016 09:17

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	0.016		mg/L	0.0020	EPA 200.8	11/2/16 15:22 MO	11/2/16 18:20 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842044** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-CAPE-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 15:22	MO	11/2/16 18:23	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842045** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-NURSE OFFICE-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 15:22	MO	11/2/16 18:26	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842046** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-NURSE-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 15:22 MO	11/2/16 18:28 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842047** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-CUSTODIAL-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 15:22 MO	11/2/16 18:31 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842048** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-E103-F-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 15:24 MO	11/2/16 18:34 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842049** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-E103-F-L** 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 15:24 MO	11/2/16 18:47 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842050** Date Collected: 10/10/2016 00:00 Matrix: Water
Sample ID: **MCWA# WMS-WTRM-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 15:24 MO	11/2/16 18:50 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842051** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-LIBRARY-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 15:24	MO	11/2/16 18:53	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842052** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-LIBRARY-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 15:24	MO	11/2/16 18:55	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842053** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-D103-DF** 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 15:24 MO	11/2/16 18:58 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842054** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-D103-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 15:24	MO	11/2/16 19:01	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842055** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-MO-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 15:24	MO	11/2/16 19:03	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842056** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-B123-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 15:24	MO	11/2/16 19:06	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842057** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C107-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 15:24 MO	11/2/16 19:09 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842058** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-C110-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 15:24	MO	11/2/16 19:17	MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842059** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-FACULTY-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 15:24 MO	11/2/16 19:25 MO	A1



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ANALYTICAL RESULTS

Workorder: 2185842 R1611466

Lab ID: **2185842060** Date Collected: 10/10/2016 00:00 Matrix: Water
 Sample ID: **MCWA# WMS-E106-F-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 15:24	MO	11/2/16 19:28	MO	A1



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QUALITY CONTROL DATA

Workorder: 2185842 R1611466

QC Batch: MDIG/60603 **Analysis Method:** EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2185842001, 2185842002, 2185842003, 2185842004, 2185842005, 2185842006, 2185842007

METHOD BLANK: 2433733

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

LABORATORY CONTROL SAMPLE: 2433734

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	97.8	mg/L	.005	0.0049	85 - 115

MATRIX SPIKE: 2433735 DUPLICATE: 2433736 ORIGINAL: 2185839058

****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	.00202	mg/L	.1	.10183	.10024	99.8	98.2	70 - 130	1.57	20

MATRIX SPIKE: 2433737 DUPLICATE: 2433738 ORIGINAL: 2185839068

****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	.00096	mg/L	.1	.11187	.10584	111	105	70 - 130	5.53	20

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QUALITY CONTROL DATA

Workorder: 2185842 R1611466

QC Batch: MDIG/60604 **Analysis Method:** EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2185842008, 2185842009, 2185842010, 2185842011, 2185842012, 2185842013, 2185842014, 2185842015, 2185842016, 2185842017, 2185842018, 2185842019, 2185842020, 2185842021, 2185842022, 2185842023.

METHOD BLANK: 2433739

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

LABORATORY CONTROL SAMPLE: 2433740

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	97.2	mg/L	.005	0.0049	85 - 115

MATRIX SPIKE: 2433741 DUPLICATE: 2433742 ORIGINAL: 2185842008

****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	.02475	mg/L	.1	.11628	.12588	91.5	101	70 - 130	7.93	20

MATRIX SPIKE: 2433743 DUPLICATE: 2433744 ORIGINAL: 2185842018

****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	.02631	mg/L	.1	.12807	.12803	102	102	70 - 130	.03	20

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QUALITY CONTROL DATA

Workorder: 2185842 R1611466

QC Batch: MDIG/60605 **Analysis Method:** EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2185842028, 2185842029, 2185842030, 2185842031, 2185842032, 2185842033, 2185842034, 2185842035, 2185842036, 2185842037, 2185842038, 2185842039, 2185842040, 2185842041, 2185842042, 2185842043.

METHOD BLANK: 2433752

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

LABORATORY CONTROL SAMPLE: 2433753

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	93.2	mg/L	.005	0.0047	85 - 115

MATRIX SPIKE: 2433754 DUPLICATE: 2433755 ORIGINAL: 2185842028

****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	.00174	mg/L	.1	.09846	.10191	96.7	100	70 - 130	3.44	20

MATRIX SPIKE: 2433756 DUPLICATE: 2433757 ORIGINAL: 2185842038

****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	.00158	mg/L	.1	.09904	.10069	97.5	99.1	70 - 130	1.65	20

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QUALITY CONTROL DATA

Workorder: 2185842 R1611466

QC Batch: MDIG/60606 **Analysis Method:** EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2185842048, 2185842049, 2185842050, 2185842051, 2185842052, 2185842053, 2185842054, 2185842055, 2185842056, 2185842057, 2185842058, 2185842059, 2185842060

METHOD BLANK: 2433758

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

LABORATORY CONTROL SAMPLE: 2433759

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Lead, Total	94.6	mg/L	.005	0.0047	85 - 115

MATRIX SPIKE: 2433760 DUPLICATE: 2433761 ORIGINAL: 2185842048

****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	.00076	mg/L	.1	.09627	.09777	95.5	97	70 - 130	1.55	20

MATRIX SPIKE: 2433762 DUPLICATE: 2433763 ORIGINAL: 2185842058

****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	.0016	mg/L	.1	.08642	.09721	84.8	95.6	70 - 130	11.8	20

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2185842 R1611466

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2185842001	MCWA# WMS-C206-F-M	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842002	MCWA# WMS-C206-F-R	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842003	MCWA# WMS-C207-F-L	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842004	MCWA# WMS-C207-F-M	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842005	MCWA# WMS-C207-F-R	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842006	MCWA# WMS-C207-DF	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842007	MCWA# WMS-B207-F-R	EPA ACIDT	MDIG/60603	EPA 200.8	META/54823
2185842008	MCWA# WMS-B207-F-M	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842009	MCWA# WMS-B207-F-L	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842010	MCWA# WMS-B207-DF	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842011	MCWA# WMS-B105-F	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842012	MCWA# WMS-B111-DF	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842013	MCWA# WMS-B112-F	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842014	MCWA# WMS-A105-F	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842015	MCWA# WMS-A107-F	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842016	MCWA# WMS-A112-F	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842017	MCWA# WMS-A111-F	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842018	MCWA# WMS-B206-F-M	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842019	MCWA# WMS-B206-F-R	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842020	MCWA# WMS-C206-F-L	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842021	MCWA# WMS-A207-DF	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842022	MCWA# WMS-A207-F-L	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842023	MCWA# WMS-A207-F-M	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842024	MCWA# WMS-A207-F-R	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842025	MCWA# WMS-A206-F-L	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842026	MCWA# WMS-A206-F-R	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842027	MCWA# WMS-A206-F-M	EPA ACIDT	MDIG/60604	EPA 200.8	META/54823
2185842028	MCWA# WMS-B110-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842029	MCWA# WMS-A110-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842030	MCWA# WMS-B107-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2185842 R1611466

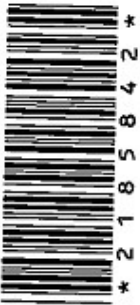
Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2185842031	MCWA# WMS-NURSE BATHROOM-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842032	MCWA# WMS-D-106-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842033	MCWA# WMS-C111-DF	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842034	MCWA# WMS-C112-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842035	MCWA# WMS-E105-F-R	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842036	MCWA# WMS-E105-F-L	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842037	MCWA# WMS-C105-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842038	MCWA# WMS-G113-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842039	MCWA# WMS-E106-F-L	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842040	MCWA# WMS-B206-F-L	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842041	MCWA# WMS-KITCHEN-F-W	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842042	MCWA# WMS-KITCHEN-F-E	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842043	MCWA# WMS-KITCHEN COFFEE	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842044	MCWA# WMS-CAPE-DF	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842045	MCWA# WMS-NURSE OFFICE-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842046	MCWA# WMS-NURSE-F	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842047	MCWA# WMS-CUSTODIAL-DF	EPA ACIDT	MDIG/60605	EPA 200.8	META/54824
2185842048	MCWA# WMS-E103-F-R	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842049	MCWA# WMS-E103-F-L	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842050	MCWA# WMS-WTRM-DF	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842051	MCWA# WMS-LIBRARY-DF	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842052	MCWA# WMS-LIBRARY-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842053	MCWA# WMS-D103-DF	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842054	MCWA# WMS-D103-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842055	MCWA# WMS-MO-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842056	MCWA# WMS-B123-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842057	MCWA# WMS-C107-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842058	MCWA# WMS-C110-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842059	MCWA# WMS-FACULTY-F	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824
2185842060	MCWA# WMS-E106-F-R	EPA ACIDT	MDIG/60606	EPA 200.8	META/54824

ALS Environmental Laboratory Locations Across North America
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ALS Environmental Chain of Custody

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

Project Number: R1611466
 Project Manager: Lisa Reyes
 QAP: LAB QAP



Sample

Lab Code	Sample ID	# of Cont.	Matrix	Date	Time	Lab ID
R1611466-001	MCWA# WMS-C206-F-M	1	Drinking Water	10/10/16		Middletown ALS
R1611466-002	MCWA# WMS-C206-F-R		Drinking Water	10/10/16		Middletown ALS
R1611466-003	MCWA# WMS-C207-F-L		Drinking Water	10/10/16		Middletown ALS
R1611466-004	MCWA# WMS-C207-F-M		Drinking Water	10/10/16		Middletown ALS
R1611466-005	MCWA# WMS-C207-F-R		Drinking Water	10/10/16		Middletown ALS
R1611466-006	MCWA# WMS-C207-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-007	MCWA# WMS-B207-F-R		Drinking Water	10/10/16		Middletown ALS
R1611466-008	MCWA# WMS-B207-F-M		Drinking Water	10/10/16		Middletown ALS
R1611466-009	MCWA# WMS-B207-F-L		Drinking Water	10/10/16		Middletown ALS
R1611466-010	MCWA# WMS-B207-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-011	MCWA# WMS-B105-F		Drinking Water	10/10/16		Middletown ALS
R1611466-012	MCWA# WMS-B111-DF		Drinking Water	10/10/16		Middletown ALS

Pb 7
200.8

Y N Initials Cooler Temp. *AS 18 °C*
 Custody Seals Present?
 (if present) Seals Intact?
 Received on Ice?
 COC/Lbls Complete *Thermo*
 Cont in Good Cond? *ALS*
 Correct Containers? *Thermo*
 Correct Samp Vol? *Thermo*
 Correct Preservation? *Thermo*
 Headspace/Volatiles? *Thermo*
 Tracking #: *6826 80169624*
 Ship Carrier: *FedEx*
 DHL

Special Instructions/Comments: *LR 10/21/16*

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: 11/08/16

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# 58R1611466
 Bill to _____

Relinquished By: *Jul mahl* 10/18/16/1633 Received By: *[Signature]*

Airbill Number: _____

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: R1611466
 Project Manager: Lisa Reyes
 QAP: LAB QAP

Pb T 200.8

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID
				Date	Time	
R1611466-014	MCWA# WMS-B112-F	1	Drinking Water	10/10/16		Middletown ALS
R1611466-014	MCWA# WMS-A105-F		Drinking Water	10/10/16		Middletown ALS
R1611466-015	MCWA# WMS-A107-F		Drinking Water	10/10/16		Middletown ALS
R1611466-016	MCWA# WMS-A112-F		Drinking Water	10/10/16		Middletown ALS
R1611466-017	MCWA# WMS-A111-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-018	MCWA# WMS-B206-F-M		Drinking Water	10/10/16		Middletown ALS
R1611466-019	MCWA# WMS-B206-F-R		Drinking Water	10/10/16		Middletown ALS
R1611466-020	MCWA# WMS-C206-F-L		Drinking Water	10/10/16		Middletown ALS
R1611466-021	MCWA# WMS-A207-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-022	MCWA# WMS-A207-F-L		Drinking Water	10/10/16		Middletown ALS
R1611466-023	MCWA# WMS-A207-F-M		Drinking Water	10/10/16		Middletown ALS
R1611466-024	MCWA# WMS-A207-F-R		Drinking Water	10/10/16		Middletown ALS

NE 10/31/16

Special Instructions/Comments	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: 11/08/16	Report Requirements I. Results Only _____ <input checked="" type="checkbox"/> II. Results + QC Summaries III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ PQL/MDL/J <u> N </u> EDD <u> N </u>	Invoice Information PO# 58R1611466 Bill to _____
H - Test is On Hold P - Test is Authorized for Prep Only			

Relinquished By: [Signature] 10/31/16/1633 Received By: [Signature] Airbill Number: _____

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: R1611466
 Project Manager: Lisa Reyes
 QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Time		Lab ID	P-1 2008
				Date	Time		
R1611466-027	MCWA# WMS-A206-F-L	1	Drinking Water	10/10/16		Middletown ALS	X
R1611466-026	MCWA# WMS-A206-F-R		Drinking Water	10/10/16		Middletown ALS	X
R1611466-027	MCWA# WMS-A206-F-M		Drinking Water	10/10/16		Middletown ALS	X
R1611466-028	MCWA# WMS-B110-F		Drinking Water	10/10/16		Middletown ALS	X
R1611466-029	MCWA# WMS-A110-F		Drinking Water	10/10/16		Middletown ALS	X
R1611466-030	MCWA# WMS-B107-F		Drinking Water	10/10/16		Middletown ALS	X
R1611466-031	MCWA# WMS-NURSE <i>Patrolman - F</i>		Drinking Water	10/10/16		Middletown ALS	X
R1611466-032	MCWA# WMS-D-106-F		Drinking Water	10/10/16		Middletown ALS	X
R1611466-033	MCWA# WMS-C111-DF		Drinking Water	10/10/16		Middletown ALS	X
R1611466-034	MCWA# WMS-C112-F		Drinking Water	10/10/16		Middletown ALS	X
R1611466-035	MCWA# WMS-E105-F-R		Drinking Water	10/10/16		Middletown ALS	X
R1611466-036	MCWA# WMS-E105-F-L		Drinking Water	10/10/16		Middletown ALS	X

LR 10/31/16

Special Instructions/Comments	Turnaround Requirements <input type="checkbox"/> RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: 11/08/16	Report Requirements <input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data PQL/MDL/J <u> N </u> EDD <u> N </u>	Invoice Information PO# 58R1611466 Bill to
H - Test is On Hold	P - Test is Authorized for Prep Only		

Relinquished By: *Andriana* 10/31/16/1633 Received By: *[Signature]* 11/16/16
 Airbill Number: _____

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: R1611466
 Project Manager: Lisa Reyes
 QAP: LAB QAP

Pb T Ltd
 2008

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID
				Date	Time	
R1611466-037	MCWA# WMS-C105-F	1	Drinking Water	10/10/16		Middletown ALS
R1611466-038	MCWA# WMS-G113-F		Drinking Water	10/10/16		Middletown ALS
R1611466-039	MCWA# WMS-E106-F-L		Drinking Water	10/10/16		Middletown ALS
R1611466-040	MCWA# WMS-B206-F-L		Drinking Water	10/10/16		Middletown ALS
R1611466-041	MCWA# WMS-KITCHEN-F-W		Drinking Water	10/10/16		Middletown ALS
R1611466-042	MCWA# WMS-KITCHEN-F-E		Drinking Water	10/10/16		Middletown ALS
R1611466-043	MCWA# WMS-Kitchen Coffee		Drinking Water	10/10/16		Middletown ALS
R1611466-044	MCWA# WMS-CAPE-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-045	MCWA# WMS-NURSE OFFICE-F		Drinking Water	10/10/16		Middletown ALS
R1611466-046	MCWA# WMS-NURSE-F		Drinking Water	10/10/16		Middletown ALS
R1611466-047	MCWA# WMS-CUSTODIAL-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-048	MCWA# WMS-E103-F-R		Drinking Water	10/10/16		Middletown ALS

10/21/16

Special Instructions/Comments	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: 11/08/16	Report Requirements <input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data PQL/MDL/J <u>N</u> EDD <u>N</u>	Invoice Information PO# 58R1611466 Bill to _____
H - Test is On Hold P - Test is Authorized for Prep Only			

Relinquished By: *[Signature]* 10/21/16 10:33
 Received By: *[Signature]* 11/16/16
 Airbill Number: _____

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: R1611466
 Project Manager: Lisa Reyes
 QAP: LAB QAP

Pb T Lead
 200.8

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID
				Date	Time	
R1611466-049	MCWA# WMS-E103-F-L	1	Drinking Water	10/10/16		Middletown ALS
R1611466-050	MCWA# WMS-WTRM-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-051	MCWA# WMS-LIBRARY-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-052	MCWA# WMS-LIBRARY-F		Drinking Water	10/10/16		Middletown ALS
R1611466-053	MCWA# WMS-D103-DF		Drinking Water	10/10/16		Middletown ALS
R1611466-054	MCWA# WMS-D103-F		Drinking Water	10/10/16		Middletown ALS
R1611466-055	MCWA# WMS-MO-F		Drinking Water	10/10/16		Middletown ALS
R1611466-056	MCWA# WMS-B123-F		Drinking Water	10/10/16		Middletown ALS
R1611466-057	MCWA# WMS-C107-F		Drinking Water	10/10/16		Middletown ALS
R1611466-058	MCWA# WMS-C110-F		Drinking Water	10/10/16		Middletown ALS
R1611466-059	MCWA# WMS-FACULTY-F		Drinking Water	10/10/16		Middletown ALS
R1611466-060	MCWA# WMS-E106-F-R		Drinking Water	10/10/16		Middletown ALS

LR 10/31/16

Special Instructions/Comments	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: 11/08/16	Report Requirements I. Results Only _____ <input checked="" type="checkbox"/> II. Results + QC Summaries III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ PQL/MDL/ EDD N N N N	Invoice Information PO# 58R1611466 Bill to _____
H - Test is On Hold P - Test is Authorized for Prep Only			

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