



CERTIFICATE OF ANALYSIS

Bill Descoteaux
Town of North Smithfield
P.O. Box 248
Slatersville, RI 02876

RE: Copper Lead Rule (N/A)
ESS Laboratory Work Order Number: 23I0282

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 3:14 pm, Sep 19, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0282

SAMPLE RECEIPT

The following samples were received on September 12, 2023 for the analyses specified on the enclosed Chain of Custody Record.

The cooler temperature was not within the acceptance limit of <6°C, however, samples were delivered on ice and therefore meet regulatory criteria.

Lab Number	Sample Name	Matrix	Analysis
23I0282-01	32 McCann St	Drinking Water	200.7, 200.8
23I0282-02	33 Pacheco	Drinking Water	200.7, 200.8
23I0282-03	36 Pacheco	Drinking Water	200.7, 200.8
23I0282-04	14 Park view	Drinking Water	200.7, 200.8



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 2310282

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0282

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 32 McCann St

Date Sampled: 09/12/23 06:35

Percent Solids: N/A

ESS Laboratory Work Order: 23I0282

ESS Laboratory Sample ID: 23I0282-01

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.031 (0.010)	0.003	200.7		1	CEV	09/13/23 17:11	50	25	DI31314
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/13/23 17:33	50	25	DI31314



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 33 Pacheco

Date Sampled: 09/12/23 06:00

Percent Solids: N/A

ESS Laboratory Work Order: 23I0282

ESS Laboratory Sample ID: 23I0282-02

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Copper	0.024 (0.010)	0.003	200.7		1	CEV	09/13/23 17:23	50	25	DI31314
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/13/23 18:13	50	25	DI31314



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 36 Pacheco

Date Sampled: 09/12/23 05:15

Percent Solids: N/A

ESS Laboratory Work Order: 23I0282

ESS Laboratory Sample ID: 23I0282-03

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.026 (0.010)	0.003	200.7		1	CEV	09/13/23 17:42	50	25	DI31314
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/13/23 18:41	50	25	DI31314



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 14 Park view

Date Sampled: 09/12/23 06:30

Percent Solids: N/A

ESS Laboratory Work Order: 23I0282

ESS Laboratory Sample ID: 23I0282-04

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.019 (0.010)	0.003	200.7		1	CEV	09/13/23 17:44	50	25	DI31314
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/13/23 18:47	50	25	DI31314



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 2310282

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch DI31314 - 3005A/200.7										
Blank										
Copper	ND	0.010	mg/L							
Blank										
Lead	ND	0.0025	mg/L							
LCS										
Copper	0.252	0.010	mg/L	0.2500		101	85-115			
LCS										
Lead	0.260	0.0250	mg/L	0.2500		104	85-115			



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 2310282

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 23I0282

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAME&Select+a+Site:=58715

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Town of North Smithfield - BAL</u>	ESS Project ID: <u>23I0282</u> Date Received: <u>9/12/2023</u> Project Due Date: <u>9/19/2023</u> Days for Project: <u>5 Day</u>						
Shipped/Delivered Via: <u>Client</u>							
<p>1. Air bill manifest present? <input type="checkbox"/> No Air No.: <u>NA</u></p> <p>2. Were custody seals present? <input type="checkbox"/> No</p> <p>3. Is radiation count <100 CPM? <input type="checkbox"/> Yes</p> <p>4. Is a Cooler Present? <input type="checkbox"/> Yes Temp: <u>17.5</u> Iced with: <u>Ice Pack</u></p> <p>5. Was COC signed and dated by client? <input type="checkbox"/> Yes</p>							
<p>6. Does COC match bottles? <input type="checkbox"/> Yes</p> <p>7. Is COC complete and correct? <input type="checkbox"/> Yes</p> <p>8. Were samples received intact? <input type="checkbox"/> Yes</p> <p>9. Were labs informed about <u>short holds & rushes</u>? <input type="checkbox"/> Yes / No <u>NA</u></p> <p>10. Were any analyses received outside of hold time? <input type="checkbox"/> Yes <u>NO</u></p>							
<p>11. Any Subcontracting needed? <input type="checkbox"/> Yes / <u>NO</u> ESS Sample IDs: Analysis: _____ TAT: _____</p> <p>12. Were VOAs received? a. Air bubbles in aqueous VOAs? <input type="checkbox"/> Yes / No b. Does methanol cover soil completely? <input type="checkbox"/> Yes / No / NA</p>							
<p>13. Are the samples properly preserved? a. If metals preserved upon receipt: <input type="checkbox"/> Yes / No Date: <u>9/12/23</u> Time: <u>11:21</u> By/Acid Lot#: <u>3109086</u> b. Low Level VOA vials frozen: <input type="checkbox"/> Yes / No Date: _____ Time: _____ By: _____</p>							
<p>Sample Receiving Notes:</p> <hr/> <hr/>							
<p>14. Was there a need to contact Project Manager? <input type="checkbox"/> Yes / <u>NO</u> a. Was there a need to contact the client? <input type="checkbox"/> Yes / No Who was contacted? _____ Date: _____ Time: _____ By: _____</p>							
<p>Resolution:</p> <hr/> <hr/>							
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	471999	Yes	N/A	Yes	1L Poly	HNO3	
2	472000	Yes	N/A	Yes	1L Poly	HNO3	
3	472001	Yes	N/A	Yes	1L Poly	HNO3	
4	472002	Yes	N/A	Yes	1L Poly	HNO3	

2nd Review

Were all containers scanned into storage/lab? Yes / No Y

Are barcode labels on correct containers? Yes / No / NA Y

Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA Y

Are all Hex Chrome stickers attached? Yes / No / NA Y

Are all QC stickers attached? Yes / No / NA Y

Are VOA stickers attached if bubbles noted? Yes / No / NA Y

Completed By: _____ Date & Time: 9/12/23 11:21
Reviewed By: _____ Date & Time: 9/12/23 11:27



185 Frances Avenue
Cranston, RI 02910
Phone: 401-461-7181

CHAIN OF CUSTODY

185 Frances Avenue
Cranston, RI 02910
Phone: 401-461-7181

 <p>185 Frances Avenue Cranston, RI 02910 Phone: 401-461-7181 www.esslaboratory.com</p>		CHAIN OF CUSTODY		ESS Lab # 23, C 282		Page 1 of 1	
CLIENT INFORMATION		PROJECT INFORMATION		REQUESTED ANALYSES		ELECTRONIC DELIVERABLES (Final Reports are PDF)	
<p>Client/Custodian of North Smithfield Address: 83 Green St North Smithfield, RI 02895 Phone: 401-767-2200 Ext. 505 Email: wdescott@nrcnsmithfield.org Distribution List:</p>		<p>Project Name: <u>2023 Lead + Copper</u> Project Location: Project Number: Project Manager: Bill to: <u>Suzanne</u> PO#: Quote#: Comments:</p>		<p>Client acknowledges that sampling is compliant with all EPA/ State regulatory programs</p>		<p><input checked="" type="checkbox"/> Limit Checker <input type="checkbox"/> State Forms <input type="checkbox"/> State Upload <input type="checkbox"/> CLP-Like Package <input type="checkbox"/> Other (Specify) →</p>	
Total Number of Bottles						<p><input checked="" type="checkbox"/> EQnIS <input type="checkbox"/> Enviro Data</p>	
<p>Turn Time (Days) <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> Same Day</p>		<p>Criteria: <u>R</u></p>		<p>Is this project for any of the following?: <input type="checkbox"/> MA/MCP <input type="checkbox"/> RGP <input type="checkbox"/> Permit <input type="checkbox"/> 401 WQ</p>		<p><input type="checkbox"/> Excel <input type="checkbox"/> CLP-Like Package <input type="checkbox"/> Other (Specify) →</p>	
<p>Regulatory State: <u>R</u></p>							
<p>ESS Lab ID Collection Date Collection Time Sample Type Sample Matrix</p>		<p>Sample ID</p>					
<p>1 9/12/23 6:35 AM Grab DW 32 McCann St</p>		<p>✓</p>					
<p>2 9/12/23 6:30 AM Grab DW 33 Pachero</p>		<p>✓</p>					
<p>3 9/12/23 5:15 PM Grab DW 36 Pachero</p>		<p>✓</p>					
<p>4 9/12/23 6:30 PM Grab DW 14 Dark View</p>		<p>✓</p>					
<p>Comments: * Please specify "Other" preservative and containers types in this space</p>		<p>Chain needs to be filled out neatly and completely for on time delivery.</p>		<p>All samples submitted are subject to ESS Laboratory's payment terms and conditions.</p>		<p>Dissolved Filtration</p>	
<p>Laboratory Use Only</p>		<p>Comments: * Please specify "Other" preservative and containers types in this space</p>		<p>Relinquished by (Signature)</p>		<p>Received by (Signature)</p>	
<p>Cooler Temperature (°C): <u>17.5</u></p>		<p>Comments: * Please specify "Other" preservative and containers types in this space</p>		<p>Relinquished by (Signature)</p>		<p>Received by (Signature)</p>	
<p>Relinquished by (Signature)</p>		<p>Comments: * Please specify "Other" preservative and containers types in this space</p>		<p>Relinquished by (Signature)</p>		<p>Received by (Signature)</p>	
<p>Relinquished by (Signature)</p>		<p>Comments: * Please specify "Other" preservative and containers types in this space</p>		<p>Relinquished by (Signature)</p>		<p>Received by (Signature)</p>	
<p>Relinquished by (Signature)</p>		<p>Comments: * Please specify "Other" preservative and containers types in this space</p>		<p>Relinquished by (Signature)</p>		<p>Received by (Signature)</p>	



CERTIFICATE OF ANALYSIS

Bill Descoteaux
Town of North Smithfield
P.O. Box 248
Slaterstown, RI 02876

RE: Copper Lead Rule (N/A)
ESS Laboratory Work Order Number: 23I0509

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Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 2:50 pm, Sep 25, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0509

SAMPLE RECEIPT

The following samples were received on September 18, 2023 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
23I0509-01	30 Pacheco	Drinking Water	200.7, 200.8
23I0509-02	88 North Main	Drinking Water	200.7, 200.8
23I0509-03	62 Main	Drinking Water	200.7, 200.8
23I0509-04	187 School	Drinking Water	200.7, 200.8
23I0509-05	1 Halliwell	Drinking Water	200.7, 200.8
23I0509-06	1 Roselawn	Drinking Water	200.7, 200.8
23I0509-07	31 Tifft	Drinking Water	200.7, 200.8
23I0509-08	95 Main	Drinking Water	200.7, 200.8
23I0509-09	75 Main	Drinking Water	200.7, 200.8
23I0509-10	51 Main	Drinking Water	200.7, 200.8
23I0509-11	22 Maple	Drinking Water	200.7, 200.8
23I0509-12	24 Green	Drinking Water	200.7, 200.8



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0509

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

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7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
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MADEP 18-2.1 - VPH

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3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule
Client Sample ID: 30 Pacheco
Date Sampled: 09/16/23 06:21
Percent Solids: N/A

ESS Laboratory Work Order: 23I0509
ESS Laboratory Sample ID: 23I0509-01
Sample Matrix: Drinking Water
Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	J 0.015 (0.020)	0.006	200.7		1	CEV	09/20/23 13:54	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 12:57	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 88 North Main

Date Sampled: 09/14/23 08:00

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-02

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.023 (0.020)	0.006	200.7		1	CEV	09/20/23 14:03	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:03	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 62 Main

Date Sampled: 09/14/23 05:45

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-03

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.021 (0.020)	0.006	200.7		1	CEV	09/20/23 14:06	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:09	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 187 School

Date Sampled: 09/13/23 06:00

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-04

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	J 0.011 (0.020)	0.006	200.7		1	CEV	09/20/23 14:08	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:14	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 1 Halliwell

Date Sampled: 09/13/23 03:35

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-05

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	J 0.017 (0.020)	0.006	200.7		1	CEV	09/20/23 14:11	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:20	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 1 Roselawn

Date Sampled: 09/14/23 06:00

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-06

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.043 (0.020)	0.006	200.7		1	CEV	09/20/23 14:13	10	10	DI31834
Lead	0.0374 (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:26	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule
Client Sample ID: 31 Tifft
Date Sampled: 09/13/23 05:15
Percent Solids: N/A

ESS Laboratory Work Order: 23I0509
ESS Laboratory Sample ID: 23I0509-07
Sample Matrix: Drinking Water
Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	J 0.009 (0.020)	0.006	200.7		1	CEV	09/20/23 14:16	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:31	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 95 Main

Date Sampled: 09/14/23 05:30

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-08

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.058 (0.020)	0.006	200.7		1	CEV	09/20/23 14:19	10	10	DI31834
Lead	0.0016 (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:48	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 75 Main

Date Sampled: 09/15/23 05:34

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-09

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.021 (0.020)	0.006	200.7		1	CEV	09/20/23 14:21	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:54	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 51 Main

Date Sampled: 09/14/23 06:00

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-10

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.048 (0.020)	0.006	200.7		1	CEV	09/20/23 14:24	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 13:59	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 22 Maple

Date Sampled: 09/16/23 06:30

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-11

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.105 (0.020)	0.006	200.7		1	CEV	09/20/23 14:26	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 14:05	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 24 Green

Date Sampled: 09/16/23 07:00

Percent Solids: N/A

ESS Laboratory Work Order: 23I0509

ESS Laboratory Sample ID: 23I0509-12

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 200.7/6010BNoDigest

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.052 (0.020)	0.006	200.7		1	CEV	09/20/23 14:35	10	10	DI31834
Lead	ND (0.0010)	0.0002	200.8		1	BJV	09/20/23 14:11	10	10	DI31834



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0509

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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Total Metals

Batch DI31834 - 200.7/6010BNoDigest

Blank

Copper	ND	0.020	mg/L
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Blank

Lead	ND	0.0010	mg/L
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LCS

Copper	0.498	mg/L	0.5000	100	85-115
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LCS

Lead	10.0	ug/L	9.990	100	85-115
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CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0509

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Reported between MDL and MRL
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0509

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAME&Select+a+Site:=58715

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Town of North Smithfield - BAL</u>	ESS Project ID: <u>23I0509</u>																																																																																																								
Shipped/Delivered Via: <u>Client</u>	Date Received: <u>9/18/2023</u>																																																																																																								
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	Days for Project: <u>5 Day</u>																																																																																																								
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8	474118	Yes	N/A	Yes	1L Poly	HNO3																																																																																																			
9	474119	Yes	N/A	Yes	1L Poly	HNO3																																																																																																			
10	474120	Yes	N/A	Yes	1L Poly	HNO3																																																																																																			
11	474121	Yes	N/A	Yes	1L Poly	HNO3																																																																																																			
12	474127	Yes	N/A	Yes	1L Poly	HNO3																																																																																																			

2nd Review

Were all containers scanned into storage/lab?

Initials

Yes / No

Are barcode labels on correct containers?

Yes / No / NA

Are all Flashpoint stickers attached/container ID # circled?

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Town of North Smithfield - BAL</u>	ESS Project ID: <u>23I0509</u>
	Date Received: <u>9/18/2023</u>
Are all Hex Chrome stickers attached?	Yes / No / <u>NA</u>
Are all QC stickers attached?	Yes / No / <u>NA</u>
Are VOA stickers attached if bubbles noted?	Yes / No / <u>NA</u>
Completed By: <u>[Signature]</u>	Date & Time: <u>9/18/23 11:49</u>
Reviewed By: <u></u>	Date & Time: <u>9/18/23 13:26</u>



185 Frances Avenue
Cranston, RI 02910
Phone: 401-461-7181

www.esslaboratory.com

CHAIN OF CUSTODY

CHAIN OF CUSTODY				ESS Lab # 2023		Page 1 of 1	
Turn Time (Days)	<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> Same Day		
Regulatory State:	RI		Criteria:				
Is this project for any of the following?							
<input type="checkbox"/> CT RCP		<input type="checkbox"/> MA MCP		<input type="checkbox"/> RGP		<input type="checkbox"/> Permit	
<input type="checkbox"/> CLP-Like Package		<input type="checkbox"/> 401 WQ		<input type="checkbox"/> 401 WQ		<input type="checkbox"/> Other (Specify) →	
REQUESTED ANALYSES							
Total Number of Bottles 2							
Project Name: <u>2023 Lead + Copper</u> Project Location: <u>Client acknowledges that sampling is compliant with all EPA / State regulatory programs</u> Project Number: <u>2023</u> Project Manager: <u>✓</u> Bill to: <u>✓</u> PO#: <u>✓</u> Quote#: <u>✓</u>							
CLIENT INFORMATION Client/Owner of Sample Site: <u>North Smithfield RT 02846</u> Address: <u>83 Green St</u> Phone: <u>401 767 2200</u> Email to Descartes: <u>✓</u> Distribution List: <u>✓</u>							
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID		
1	9-16-23	6:21 PM	Grab	DW	30 Packco		
2	9-14-23	8:00 AM	Grab	DW	88 North Main		
3	9-14-23	5:45 PM	Grab	DW	62 Main		
4	9-13-23	6:00 PM	Grab	DW	187 School		
5	9-13-23	3:35 PM	Grab	DW	7 Hallwood		
6	9-14-23	6:00 PM	Grab	DW	1 Rosemont		
7	9-13-23	5:15 PM	Grab	DW	31 Tiffel		
8	9-14-23	5:30 PM	Grab	DW	95 Main		
9	9-15-23	5:34 PM	Grab	DW	75 Main		
10	9-14-23	6:00 PM	Grab	DW	51 Main		
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other* Preservation Code: 1-Non Preserved 2-HCl 3-H ₂ SO ₄ 4-HNO ₃ 5-NaOH 6-Methanol 7-Na ₂ SO ₃ 8-ZnAc, NaOH 9-NH ₄ Cl 10-DI H ₂ O 11-Other*							
Sampled by : Chain needs to be filled out neatly and completely for on time delivery.							
Laboratory Use Only Comments: * Please specify "Other" preservative and containers types in this space				All samples submitted are subject to ESS Laboratory's payment terms and conditions.			
Cooler Temperature (°C): <u>21</u> <u>by ESS</u>		Received by (Signature) <u>✓</u> Date <u>10/18/23</u>		Relinquished by (Signature) <u>✓</u> Date <u>10/18/23</u>		Dissolved Filtration <input type="checkbox"/> Lab Filter	
Relinquished by (Signature) <u>✓</u> Date <u>10/18/23</u>		Received by (Signature) <u>✓</u> Date <u>10/18/23</u>		Relinquished by (Signature) <u>✓</u> Date <u>10/18/23</u>		Received by (Signature) <u>✓</u> Date <u>10/18/23</u>	



CERTIFICATE OF ANALYSIS

Bill Descoteaux
Town of North Smithfield
P.O. Box 248
Slaterstown, RI 02876

RE: Copper Lead Rule (N/A)
ESS Laboratory Work Order Number: 23I0665

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 6:07 pm, Sep 28, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0665

SAMPLE RECEIPT

The following samples were received on September 21, 2023 for the analyses specified on the enclosed Chain of Custody Record.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
23I0665-01	4 Country Way	Drinking Water	200.7, 200.8
23I0665-02	164 Green	Drinking Water	200.7, 200.8
23I0665-03	160 Green	Drinking Water	200.7, 200.8
23I0665-04	173 B- School	Drinking Water	200.7, 200.8



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0665

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0665

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule
Client Sample ID: 4 Country Way
Date Sampled: 09/20/23 07:45
Percent Solids: N/A

ESS Laboratory Work Order: 23I0665
ESS Laboratory Sample ID: 23I0665-01
Sample Matrix: Drinking Water
Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.028 (0.010)	0.003	200.7		1	CEV	09/25/23 18:34	50	25	DI32218
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/25/23 15:44	50	25	DI32218



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 164 Green

Date Sampled: 09/20/23 08:45

Percent Solids: N/A

ESS Laboratory Work Order: 23I0665

ESS Laboratory Sample ID: 23I0665-02

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.048 (0.010)	0.003	200.7		1	CEV	09/25/23 18:36	50	25	DI32218
Lead	J 0.0007 (0.0025)	0.0005	200.8		5	BJV	09/25/23 15:50	50	25	DI32218



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 160 Green

Date Sampled: 09/20/23 08:20

Percent Solids: N/A

ESS Laboratory Work Order: 23I0665

ESS Laboratory Sample ID: 23I0665-03

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	0.038 (0.010)	0.003	200.7		1	CEV	09/25/23 18:39	50	25	DI32218
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/25/23 15:55	50	25	DI32218



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

Client Sample ID: 173 B- School

Date Sampled: 09/20/23 06:30

Percent Solids: N/A

ESS Laboratory Work Order: 23I0665

ESS Laboratory Sample ID: 23I0665-04

Sample Matrix: Drinking Water

Units: mg/L

Extraction Method: 3005A/200.7

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Copper	J 0.006 (0.010)	0.003	200.7		1	CEV	09/25/23 18:41	50	25	DI32218
Lead	ND (0.0025)	0.0005	200.8		5	BJV	09/25/23 16:01	50	25	DI32218



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0665

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	---------	-----------	-----------

Total Metals

Batch DI32218 - 3005A/200.7

Blank

Copper	ND	0.010	mg/L
--------	----	-------	------

Blank

Lead	ND	0.0025	mg/L
------	----	--------	------

LCS

Copper	0.280	0.010	mg/L	0.2500	112	85-115
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LCS

Lead	0.286	0.0250	mg/L	0.2500	114	85-115
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CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield

Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0665

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Reported between MDL and MRL
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Town of North Smithfield
Client Project ID: Copper Lead Rule

ESS Laboratory Work Order: 23I0665

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAME&Select+a+Site:=58715

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Town of North Smithfield - BAL</u>	ESS Project ID: <u>23I0665</u> Date Received: <u>9/21/2023</u> Project Due Date: <u>9/28/2023</u> Days for Project: <u>5 Day</u>																																								
Shipped/Delivered Via: <u>ESS Courier Client</u> <u>~12123</u>																																									
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> 1. Air bill manifest present? Air No.: <u>NA</u> </td> <td style="width: 50%;"> <input type="checkbox"/> No </td> </tr> <tr> <td>2. Were custody seals present?</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td>3. Is radiation count <100 CPM?</td> <td><input type="checkbox"/> Yes</td> </tr> <tr> <td>4. Is a Cooler Present? Temp: <u>5.9</u> Iced with: <u>Ice Pack</u></td> <td><input type="checkbox"/> Yes</td> </tr> <tr> <td>5. Was COC signed and dated by client?</td> <td><input type="checkbox"/> Yes</td> </tr> <tr> <td colspan="2" style="text-align: center;">6. Does COC match bottles?</td> </tr> <tr> <td colspan="2" style="text-align: center;">7. Is COC complete and correct?</td> </tr> <tr> <td colspan="2" style="text-align: center;">8. Were samples received intact?</td> </tr> <tr> <td colspan="2" style="text-align: center;">9. Were labs informed about <u>short holds & rushes</u>?</td> </tr> <tr> <td colspan="2" style="text-align: center;">10. Were any analyses received outside of hold time?</td> </tr> </table>		1. Air bill manifest present? Air No.: <u>NA</u>	<input type="checkbox"/> No	2. Were custody seals present?	<input type="checkbox"/> No	3. Is radiation count <100 CPM?	<input type="checkbox"/> Yes	4. Is a Cooler Present? Temp: <u>5.9</u> Iced with: <u>Ice Pack</u>	<input type="checkbox"/> Yes	5. Was COC signed and dated by client?	<input type="checkbox"/> Yes	6. Does COC match bottles?		7. Is COC complete and correct?		8. Were samples received intact?		9. Were labs informed about <u>short holds & rushes</u> ?		10. Were any analyses received outside of hold time?																					
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<hr/> <p>Sample Receiving Notes:</p> <hr/> <hr/>																																									
<hr/> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> 14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? </td> <td style="width: 50%;"> <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No Date: _____ </td> </tr> <tr> <td colspan="2"> Time: _____ By: _____ </td> </tr> </table>		14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No Date: _____	Time: _____ By: _____																																					
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<hr/> <p>Resolution:</p> <hr/> <hr/>																																									
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<hr/> <p>2nd Review</p> <p>Were all containers scanned into storage/lab? Initials: <u>TD</u></p> <p>Are barcode labels on correct containers? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No</p> <p>Are all Flashpoint stickers attached/container ID # circled? <input type="checkbox"/> Yes / <input type="checkbox"/> No / <input type="checkbox"/> NA</p> <p>Are all Hex Chrome stickers attached? <input type="checkbox"/> Yes / <input type="checkbox"/> No / <input type="checkbox"/> NA</p> <p>Are all QC stickers attached? <input type="checkbox"/> Yes / <input type="checkbox"/> No / <input type="checkbox"/> NA</p> <p>Are VOA stickers attached if bubbles noted? <input type="checkbox"/> Yes / <input type="checkbox"/> No / <input type="checkbox"/> NA</p>																																									
<hr/> <p>Completed By: <u>Hayley Davis</u> Date & Time: <u>9/21/23 1145</u></p> <p>Reviewed By: <u>QD</u> Date & Time: <u>9/21/23 1328</u></p>																																									

