
CERTIFICATE OF ANALYSIS

Robert Souza
Old Colony Regional Vocational Tech
476 North Avenue
Rochester, MA 02770

Project Name: LCR 4250003
Work Order Number: A410721
Date Received: 09/20/2024

PDF REPORT

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.
- Analytical Balance 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 contact our Customer Service Department (info@H2Otest.net).

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 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.
- Calculations utilize concentration values prior to rounding. The final calculated result is rounded to three significant figures.

QUALITY CONTROL

- The test results presented 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.

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Date Received: 09/20/2024

Client ID: Library LC001
 Laboratory ID: **A410721-01**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:00

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:41	mg/L	0.02	1	1.3 / 1.0 #	0.29
Lead	200.8	09/26/24 12:41	mg/L	0.001	1	0.015	0.044

Client ID: Girls Locker Rm LC002
 Laboratory ID: **A410721-02**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:05

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:43	mg/L	0.02	1	1.3 / 1.0 #	0.02
Lead	200.8	09/25/24 12:39	mg/L	0.001	1	0.015	ND

Client ID: Main Kitchen LC003
 Laboratory ID: **A410721-03**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:12

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:45	mg/L	0.02	1	1.3 / 1.0 #	ND
Lead	200.8	09/25/24 12:43	mg/L	0.001	1	0.015	ND

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Date Received: 09/20/2024

Client ID: Culinary Kitchen LC004
 Laboratory ID: **A410721-04**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:18

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:47	mg/L	0.02	1	1.3 / 1.0 #	ND
Lead	200.8	09/25/24 12:45	mg/L	0.001	1	0.015	ND

Client ID: Cougars' Den LC005
 Laboratory ID: **A410721-05**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:25

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:49	mg/L	0.02	1	1.3 / 1.0 #	0.03
Lead	200.8	09/25/24 12:47	mg/L	0.001	1	0.015	0.001

Client ID: Cosmetology Shop LC006
 Laboratory ID: **A410721-06**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:34

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:51	mg/L	0.02	1	1.3 / 1.0 #	0.04
Lead	200.8	09/25/24 12:49	mg/L	0.001	1	0.015	ND

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Project Name: LCR 4250003

Work Order Number: A410721

Date Received: 09/20/2024

Client ID: Health Career Shop LC007
 Laboratory ID: **A410721-07**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:38

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 12:53	mg/L	0.02	1	1.3 / 1.0 #	0.03
Lead	200.8	09/25/24 12:51	mg/L	0.001	1	0.015	ND

Client ID: Wing 8 Boys Rm LC008
 Laboratory ID: **A410721-08**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 00:45

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 13:03	mg/L	0.02	1	1.3 / 1.0 #	0.04
Lead	200.8	09/25/24 12:53	mg/L	0.001	1	0.015	ND

Client ID: Teachers' Lounge LC009
 Laboratory ID: **A410721-09**
 Matrix: Drinking Water

Sampled By: Robert Souza
 Date/Time Sampled: 09/20/24 06:50

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 13:09	mg/L	0.02	1	1.3 / 1.0 #	0.05
Lead	200.8	09/25/24 12:55	mg/L	0.001	1	0.015	ND

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Robert Souza
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 476 North Avenue
 Rochester, MA 02770

Project Name: LCR 4250003

Work Order Number: A410721

Date Received: 09/20/2024

Client ID: Offset Printing Shop LC010

Sampled By: Robert Souza

Laboratory ID: **A410721-10**

Date/Time Sampled: 09/20/24 06:53

Matrix: Drinking Water

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Copper	200.8	09/26/24 13:11	mg/L	0.02	1	1.3 / 1.0 #	0.04
Lead	200.8	09/25/24 12:57	mg/L	0.001	1	0.015	ND



Laurel Stoddard
 Laboratory Director

REVIEWED
 By SLawler at 10:24 am, Sep 27, 2024

CERTIFICATE OF ANALYSIS

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476 North Avenue
Rochester, MA 02770

Project Name: LCR 4250003
Work Order Number: A410721
Date Received: 09/20/2024

Work Order Narrative

See the Notes and Definitions section for further information regarding data qualifiers.

Notes and Definitions

CFU	Colony Forming Units
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too Numerous to Count
dry	Sample results reported on a dry weight basis

Work Order Number:



A410721

CHAIN OF CUSTODY

A410721



Client Name: Old Colony Regional Vocational Technical High School						Project Name: PWS 4250003 (NTNC)		ANALYSIS															
Address: 476 North Avenue Rochester, MA 02770						Collected By: Robert Souza		Lead / Copper															
Phone: (508) 916-1450 CELL (508) 763-8011 xt 115 Office						<input type="checkbox"/> Paid in Full Check #:																	
Email List: rsouza@oldcolony.us						<input type="checkbox"/> Pick-up <input type="checkbox"/> Sampled by lab																	
LAB ID	Collection		Matrix	Preservative	Composite	Grab	STATION LOCATION	Lead / Copper															
	Date	Time																					
1	9/20/2024	6:00 AM	DW			✓	Library	1															
2	9/20/2024	6:05 AM	DW			✓	Girls Locker Room	1															
3	9/20/2024	6:12 AM	DW			✓	Main Kitchen	1															
4	9/20/2024	6:18 AM	DW			✓	Culinary Kitchen	1															
5	9/20/2024	6:25 AM	DW			✓	Cougar's Den	1															
6	9/20/2024	6:34 AM	DW			✓	Cosmetology Shop	1															
7	9/20/2024	6:38 AM	DW			✓	Health Careers Shop	1															
8	9/20/2024	6:45 AM	DW			✓	Wing 8 Boys Room	1															
9	9/20/2024	6:50 AM	DW			✓	Teachers Lounge	1															
10	9/20/2024	6:53 AM	DW			✓	Offset Print Shop	1															

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: Robert Souza <i>[Signature]</i>	DATE: 9/20/2024	TIME: 9:50am	RECEIVED BY: <i>[Signature]</i>	SAMPLE RECEIVING COMMENTS: Client will email codes
RELINQUISHED BY: <i>[Signature]</i>	DATE: 9-20-24	TIME: 10:22	RECEIVED FOR LABORATORY BY: <i>[Signature]</i>	SAMPLE RECEIVING COMMENTS: <i>[Signature]</i> 9/20/24
MATRIX CODES			SHIPPING CONDITIONS: (circle one) Iced or <u>Ambient</u>	
RW- REAGENT WATER DW- DRINKING WATER GW- GROUND WATER SW- SURFACE WATER SO- SOIL	SE- SEDIMENT SL- SLUDGE HW- HAZARDOUS WASTE WW- WASTE WATER PW- POOL WATER	Normal Turn Around Time (TAT) is 7 to 10 Business Days starting first business day after receipt		TEMPERATURE AT RECEIPT: <u>17.6</u> °C Client approval required for temperature >6°C
Information will only be released to parties listed on this document.			<input type="checkbox"/> Approved by Client _____	

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: 06 MAY 2024

**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA**

NON POTABLE WATER (CHEMISTRY)	Effective Date	03 MAR 2023	Expiration Date	30 JUN 2025
<u>Analytes</u>			<u>Methods</u>	
ALUMINUM			EPA 200.8	
ANTIMONY			EPA 200.8	
ARSENIC			EPA 200.8	
BERYLLIUM			EPA 200.8	
CADMIUM			EPA 200.8	
CHROMIUM			EPA 200.8	
COBALT			EPA 200.8	
COPPER			SM 3111B	
COPPER			EPA 200.8	
IRON			SM 3111B	
LEAD			EPA 200.8	
MANGANESE			SM 3111B	
MANGANESE			EPA 200.8	
MOLYBDENUM			EPA 200.8	
NICKEL			EPA 200.8	
SELENIUM			EPA 200.8	
SILVER			SM 3111B	
SILVER			EPA 200.8	
THALLIUM			EPA 200.8	
VANADIUM			EPA 200.8	
ZINC			SM 3111B	
ZINC			EPA 200.8	
PH			SM 4500-H-B	
SPECIFIC CONDUCTIVITY			SM 2510B	
TOTAL DISSOLVED SOLIDS			SM 2540C	
HARDNESS (CACO3), TOTAL			SM 2340B	
CALCIUM			SM 3111B	
MAGNESIUM			SM 3111B	
SODIUM			SM 3111B	
POTASSIUM			SM 3111B	
ALKALINITY, TOTAL			SM 2320B	
ALKALINITY, TOTAL			EPA 310.2	
CHLORIDE			SM 4110B	
SULFATE			SM 4110B	
AMMONIA-N			EPA 350.1	
NITRATE-N			EPA 353.2	
NITRATE-N			SM 4110B	
KJELDAHL-N			EPA 351.2	
ORTHOPHOSPHATE			SM 4500-P-E	
ORTHOPHOSPHATE			SM 4110B	
PHOSPHORUS, TOTAL			SM 4500-P-B,E	
CHEMICAL OXYGEN DEMAND			HACH METHOD 8000	
BIOCHEMICAL OXYGEN DEMAND			SM 5210B	

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: 06 MAY 2024

**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA**

NON POTABLE WATER (CHEMISTRY)	Effective Date	03 MAR 2023	Expiration Date	30 JUN 2025
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Analytes

NON-FILTERABLE RESIDUE
CHLORINE, TOTAL RESIDUAL
OIL AND GREASE

Methods

SM 2540D
SM 4500-CL-G
EPA 1664

POTABLE WATER (CHEMISTRY)	Effective Date	16 NOV 2023	Expiration Date	30 JUN 2025
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Analytes

ALUMINUM
ANTIMONY
ARSENIC
BARIUM
BERYLLIUM
CADMIUM
CHROMIUM
COPPER
COPPER
IRON
LEAD
MANGANESE
MANGANESE
MERCURY
NICKEL
SELENIUM
SILVER
SILVER
THALLIUM
ZINC
ZINC
NITRATE-N
NITRATE-N
NITRATE-N
NITRITE-N
NITRITE-N
NITRITE-N
FLUORIDE
FLUORIDE
SODIUM
CHLORIDE
SULFATE
TURBIDITY
CHLORINE, RESIDUAL FREE
CALCIUM
ALKALINITY, TOTAL

Methods

EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
SM 3111B
SM 3111B
EPA 200.8
EPA 200.8
SM 3111B
EPA 200.8
EPA 200.8
EPA 200.8
SM 3111B
EPA 200.8
EPA 200.8
EPA 353.2
SM 4110B
SM 4500-NO3-D
EPA 353.2
SM 4110B
SM 4500-NO2-B
SM 4110B
SM 4500-F-C
SM 3111B
SM 4110B
SM 4110B
SM 4110B
SM 2130B
SM 4500-CL-G
SM 3111B
SM 2320B

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 06 MAY 2024

M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA

POTABLE WATER (CHEMISTRY)	Effective Date	16 NOV 2023	Expiration Date	30 JUN 2025
<u>Analytes</u>			<u>Methods</u>	
TOTAL DISSOLVED SOLIDS			SM 2540C	
PH			SM 4500-H-B	

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: 06 MAY 2024

**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA**

NON POTABLE WATER (MICROBIOLOGY) Effective Date 01 JUL 2015 Expiration Date 30 JUN 2025

Analytes

E. COLI	AMBIENT WATER
E. COLI	AMBIENT WATER
ENTEROCOCCI	AMBIENT WATER
FECAL COLIFORM	WASTEWATER
E. COLI	WASTEWATER
ENTEROCOCCI	WASTEWATER

Methods

EPA 1603
EPA 1604
EPA 1600
MF-SM9222D
EPA 1603
EPA 1600

POTABLE WATER (MICROBIOLOGY) Effective Date 26 JAN 2024 Expiration Date 30 JUN 2025

Analytes

HETEROTROPHIC PLATE COUNT	
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)
FECAL COLIFORM	SOURCE WATER (ENUMERATION)
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)
TOTAL COLIFORM	SOURCE WATER (ENUMERATION)
E. COLI	SOURCE WATER (ENUMERATION)
E. COLI	SOURCE WATER (ENUMERATION)
ENTEROCOCCI	SOURCE WATER (P/A)

Methods

SM9215B
MF-SM9222B
EPA 1604
ENZ. SUB. SM9223
MF-SM9222D
ENZ. SUB. SM9223
EPA 1604
NA-MUG-SM9222G
EPA 1604
EPA 1603
EPA 1604
ENTEROLERT



**State of Rhode Island
DEPARTMENT OF HEALTH
Certifies**

LAO00370

**ANALYTICAL BALANCE DIVISION OF THIELSCH
422 WEST GROVE STREET
MIDDLEBORO MA 02346**

Laboratory Director: LAUREL STODDARD

for the analysis of: Potable Water Microbiology - Potable Water Inorganic Chemistry - Non-potable Water Microbiology - Non-potable Water Inorganic Chemistry -

This certificate is issued, pursuant to Rhode Island General Laws 23-16.2 and supersedes all previous Rhode Island certificates issued to this laboratory. Certification is no guarantee of the validity of the laboratory results.

This certificate is valid only when accompanied by the certificate and list of analytes and methods for which certification has been granted based upon the following out of state certification(s):

Certifying Authority
MA

Certification Number
M MA022

Expiration Date
06/30/2024

ANALYTICAL BALANCE DIVISION OF THIELSCH is responsible for maintaining each of the certifications listed above. Failure to notify the Laboratory Certification Officer of any change in the status of these certifications may result in the suspension or revocation of certification. Contact the Laboratory Certification Officer to verify the current certification status of this laboratory.

Expires: 12/30/2024

THIS CERTIFICATE IS TO BE CONSPICUOUSLY DISPLAYED AT THE LABORATORY IN A LOCATION VISABLE TO THE PUBLIC