Districtwide Lead in Drinking Water Sampling and Remediation Plan

2023-2025

Quogue UFSD

March 2023

Enviroscience Project #23221

ENVIROSCIENCE CONSULTANTS
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DISTRICTWIDE LEAD IN DRINKING WATER SAMPLING AND REMEDIATION PLAN

2023-2025

MARCH 2023
Updated January 27, 2025

ENVIROSCIENCE PROJECT #23221

Prepared for: QUOGUE UFSD
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PO Box 957
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1.0 EXECUTIVE SUMMARY

The Quogue Union Free School District has developed their 2023-2025 Lead in Drinking Water Sampling and Remediation Plan, as required by the New York State Department of Health (Public Health Law Sections 1370-a and 1110, Subpart 67-4 Lead Testing in School Drinking Water).

In accordance with the regulation, this Lead Remediation Plan is prepared to identify locations deemed as Applicable Drinking Water Sources and report first draw sample results, to mitigate locations where sample results exceed 5 parts per billion, to identify locations deemed as Non-Applicable Water Sources, communicate this designation to building occupants, and to develop strategies for monitoring locations deemed Non-Applicable Water Sources to insure building occupants do not consume water from these locations.

The following locations within the Quogue UFSD building have been deemed Applicable Drinking Water Sources by the administration:

1) Water fountains and bottle filling stations;
2) Kitchen water faucets and pot fillers used in food preparation;
3) Classroom sinks
4) Student Bathroom sinks
5) Nurse's Office and Faculty Room sinks

First draw samples were collected from each of these locations within the District, and analyzed by a New York State Department of Health ELAP certified laboratory. The chains of custody are available upon request. For results at or below 5 ppb, no further action is required until 2025. For locations above 5 ppb, options include: second and third draw sample collection to determine source of lead, designation of the location as Non-applicable Water Source, or permanent removal of the fixture from the location. In either case, the result was communicated by Enviroscience Consultants, and the fixture was shut off by the District immediately upon receipt of results.

The following locations within the Quogue UFSD building were deemed Non-Applicable Water Sources by the administration:

1) Outside spigots
2) Custodial Closet sinks
3) Portable sinks
4) Mixed Valve sinks (or hot only)

In these cases, the Quogue UFSD staff have placed signs adjacent to the fixture to notify occupants that the water is not intended for consumption. To further support this protocol, the following management of the locations is required:

1) Outside spigots - all-weather signage will be installed at each location. Further, spigots will have a special key maintained by the custodial staff to ensure that non-authorized persons do not fill sports coolers or use for consumption. This program should be monitored by custodial staff to ensure consumption is not taking place, and any deficiencies reported for assessment and revision, if necessary, by the Facilities Department.
2) Custodial Closet sinks - these locations should be accessed by custodial personnel only, and locked when not in use. Access to others should be restricted. This program should be monitored by custodial staff to ensure consumption is not taking place, and any deficiencies reported for assessment and revision, if necessary, by the Facilities Department.
3) Portable sinks – installed due to COVID-19. Signage is on all of these fixtures. Please see below in mixed valve for more signage information.
4) Mixed Valve sinks (or hot only) – per Public Health Law Sections 1370-a and 1110, Subpart 67-4 Lead Testing in School Drinking Water mixed valve or hot water only sources are not required to be sampled. Signage is required for these sources. Signage should be sufficient for communicating the concept of hand washing only. In elementary schools, personal hygiene should be integrated into curriculum to ensure students understand bathroom sinks are for hand washing only, and not consumption. Further, show what the signage looks like so they learn to recognize its meaning. This program should be monitored by teachers and staff to ensure consumption is not taking place, and any deficiencies reported for assessment and revision, if necessary, by the Facilities Department.

2.0 SAMPLING METHODOLOGY

In accordance with the regulation, Enviroscience Consultants, LLC performed initial water sampling at the Quogue UFSD building on March 31, 2023. Samples were collected in wide-mouth 250 milliliter containers and were collected in the morning hours before the facilities opened. The water sources were not used for at least 8 hours and not more than 18 hours prior to sampling. Unique source numbers and designations were assigned to each source location. Unique sample identification numbers were assigned to each sample taken. The key to fixture type codes, source designations, and the sampling location schematics are shown below.

Code Key for Lead in Water					
Fixture Type Codes					
BF	Bottle Filler	SK	Sink	SS	Slop Sink
HB	Hose Bib	SL	Supply Line	V	Valve
IM	Ice Machine	SP	Spigot	WC	Water Cooler
OS	Other Source	SPY	Spray	WF	Water Fountain
PF	Pot Filler				
Source Designations					
App	Applicable	N/A	Non-applicable		

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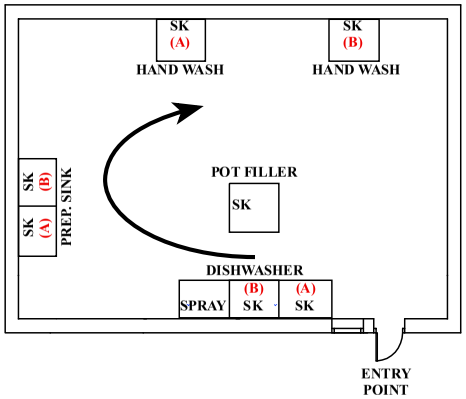
Quogue UFSD
Districtwide Lead in Water 2023-2025

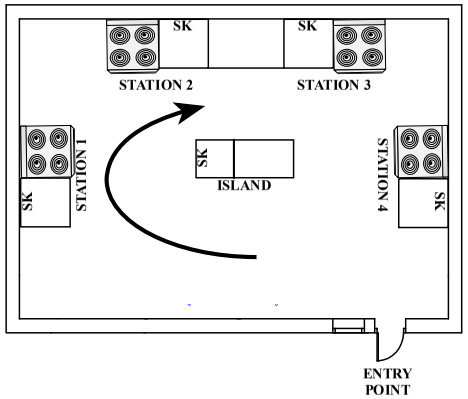
KITCHEN DIAGRAM



SAMPLE IDENTIFICATION (example)

LOCATION	SOURCE
Kitchen Dishwash Station @ (A)	SK
Kitchen Dishwash Station @ (B)	SK
Kitchen Dishwasher	SPRAY
Prep. Sink @ (A)	SK
Prep. Sink @ (B)	SK
Kitchen Hand Wash @ (A)	SK
Kitchen Hand Wash @ (B)	SK
Kitchen Pot Filler	SK

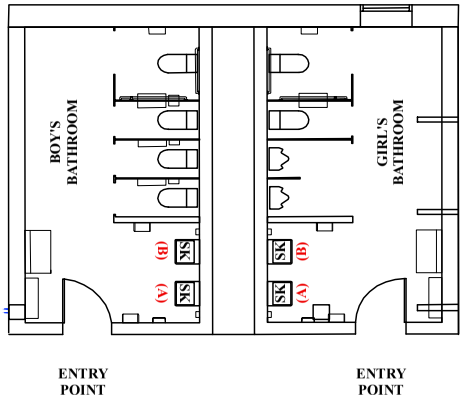
HOME ECONOMICS / CAREER DIAGRAM



SAMPLE IDENTIFICATION (example)

LOCATION	SOURCE
Carrier RM - Station 1	SK
Carrier RM - Station 2	SK
Carrier RM - Station 3	SK
Carrier RM - Station 4	SK
Carrier RM - Island	SK

GANG BATHROOM DIAGRAM



SAMPLE IDENTIFICATION (example)

LOCATION	SOURCE
Girl's BR @ (A)	SK
Girl's BR @ (B)	SK
Boy's BR @ (A)	SK
Boy's BR @ (B)	SK

ENVIROSCIENCE CONSULTANTS INC.	ENVIROSCIENCE CONSULTANTS, INC 2150 SMITHTOWN AVENUE RONKONKOMA, NY 11779 (631) 580-3191 FAX 580-3195 www.envirohealth.org	KEY PLAN NO SCALE	WATER SAMPLING METHODOLOGY	NOT TO SCALE Date: 9/26/2016 By: Robert Cardona DRAWING 1 of 2

3.0 Initial Results

All water source locations in each of the school buildings were assessed. Water source locations identified as drinking water sources were considered Applicable, and first draw samples were collected. Water source locations identified as non-drinking water sources were considered non-applicable and these locations were documented.

The results of the initial sampling and the use of signs warning against water use at non-applicable sources is documented in the School Water Outlet Inventory for each building.

All elevated locations should be taken off line until the remediation is completed. Any other drinking water sources in these buildings that were not functional at the time of initial sampling and have not been tested should be tested before returning to service. All locations deemed non-applicable, but do not have signs, should be taken off line until signs have been posted.

The following is a summary of results in parts per billion (ppb) of locations in the Quogue UFSD where sample results were found above 5 ppb:

Quogue School			
SPACE #	SAMPLE LOCATION	RESULT	REMARKS
1006B-01	Kitchen – SK	10.0 ppb	Removed from Service; Pending Retest
1026-02	1932 Boys Bathroom Right – SK	16.0 ppb	Sign
1012-02	Art Room 108 – Right – SK	457.0 ppb	Sign
1017-01	1968 Hallway Fountain - WF	10.0 ppb	Removed from Service; Pending Retest

The kitchen is not currently used in food preparation.

Appendix A

Quogue School

Space #	Sample Location	Fixture Type	App or N/A	Latest 1st Draw Results (ppb)	Latest 1st Draw Sampling Date	15 Second Draw Results (ppb)	60 Second Draw Results (ppb)	Flush Sampling Date	Remarks
0001-01	Basement Slop Sink	SS	N/A						Locked Door
1030A-01	Main Office Bathroom	SK	App	<1.0	3/31/2023	-	-	-	-
1002A-01	Nurse Office Bathroom	SK	App	<1.0	3/31/2023	-	-	-	-
1004-01	Custodial Closet by Main Office	SS	App	<1.0	3/31/2023	-	-	-	-
1006B-01	Kitchen	SK	App	3.0	1/24/2025				Remediation Complete
				10.0	3/31/2023				Removed from Service; Pending Retest
1024-01	Hall by 1932 Girls Bathroom Portable	SK	N/A			-	-	-	Mixed Valve; Sign
1028-01	1932 Girls Bathroom Left	SK	N/A			-	-	-	Mixed Valve; Sign
1028-02	1932 Girls Bathroom Right	SK	N/A			-	-	-	Mixed Valve; Sign
1024-02	Hall by Room 104 Portable Right	SK	N/A			-	-	-	Mixed Valve; Sign
1024-03	Hall by Room 104 Portable Left	SK	N/A			-	-	-	Mixed Valve; Sign
1024-04	1932 Hallway-Left	WF	App			-	-	-	Removed from Service
1024-05	1932 Hallway - Right	WF	App			-	-	-	Removed from Service
1024-06	1932 Bottlefill Hallway - Right	BF	App	<1.0	3/31/2023	-	-	-	-
1026-01	1932 Boys Bathroom Left	SK	N/A			-	-	-	Mixed Valve; Sign
1026-02	1932 Boys Bathroom Right	SK	App	16.0	3/31/2023				Sign
1025-01	Room 103 Bathroom	SK	App	2.0	3/31/2023	-	-	-	-
1024-07	Hall by Room 106 Portable Right	SK	N/A			-	-	-	Mixed Valve; Sign

Space #	Sample Location	Fixture Type	App or N/A	Latest 1st Draw Results (ppb)	Latest 1st Draw Sampling Date	15 Second Draw Results (ppb)	60 Second Draw Results (ppb)	Flush Sampling Date	Remarks
1024-08	Hall by Room 106 Portable Left	SK	N/A			-	-	-	Mixed Valve; Sign
1011-01	Room 106	SK	App	1.0	3/31/2023	-	-	-	-
1012-01	Art Room 108 - Left	SK	App	1.0	3/31/2023	-	-	-	-
1012-02	Art Room 108 - Right	SK	App	2.0	1/24/2025	-	-	-	Remediation Complete
				457.0	3/31/2023				Sign
1020-01	Custodial Closet by Room 108	SS	N/A			-	-	-	Locked Door
1019-01	1968 Boys Bathroom	SK	N/A			-	-	-	Mixed Valve; Sign
1018-01	1968 Girls Bathroom	SK	N/A			-	-	-	Mixed Valve; Sign
1017-01	1968 Hallway Fountain	WF	App	10.0	3/31/2023				Removed from Service
1014-01	Room 114	SK	App	3.0	3/31/2023	-	-	-	-
1014-02	6th Grade Bubbler-Room 114	WF	App			-	-	-	Removed from Service
1015-01	Room 116	SK	App	2.0	3/31/2023	-	-	-	-
1015-02	5th Grade Classroom-Room 116	WF	App			-	-	-	Removed from Service
3001-01	Hall by 1999 Lobby Portable	SK	N/A			-	-	-	Mixed Valve; Sign
3002-01	Custodial Closet by Library	SS	N/A						Locked Door
3003-01	1999 Girls Bathroom	SK	N/A			-	-	-	Mixed Valve; Sign
3004-01	1999 Boys Bathroom	SK	N/A			-	-	-	Mixed Valve; Sign
3005-01	1999 Faculty Bathroom	SK	App	<1.0	3/31/2023	-	-	-	-

Space #	Sample Location	Fixture Type	App or N/A	Latest 1st Draw Results (ppb)	Latest 1st Draw Sampling Date	15 Second Draw Results (ppb)	60 Second Draw Results (ppb)	Flush Sampling Date	Remarks
3007-01	1999 Faculty Room	SK	App	<1.0	3/31/2023	-	-	-	-

NEW YORK ENVIRONMENTAL

88 Harbor Road
Port Washington, NY 11050
(516) 944-9500
www.nyenvironmental.com

Laboratory Report (Revised)

NYE Report #: 231486-24601R

April 6, 2023

Project Manager
Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma, NY 11779

Project: Quogue UFSD; Quogue Elementary School

Dear Project Manager,

Enclosed is the Laboratory Analytical Report for potable water sample(s) received on March 31, 2023. New York Environmental analyzed the samples on April 03, 2023 for Lead (Pb) by EPA Method 200.9 Rev. 2.2.

If there are any questions regarding the analyses, please feel free to contact us at your convenience. New York Environmental is a NELAP accredited laboratory. Attached reported results meet the requirements of the NELAP standards unless otherwise noted.

Samples' analytical results relate only to the samples tested, in the condition received by the laboratory. This report shall not be reproduced except in its entirety without written approval of the laboratory.

We sincerely thank you for your business, and look forward to being of service for your future environmental testing needs.

Sincerely,

Li Tsang, Laboratory Director

NYE Report #: 231486-24601

Date Collected:	31 Mar 2023
Date Received:	31 Mar 2023
Date Analyzed:	03 Apr 2023

Analytical Method:	EPA 200.9 Rev. 2.2
Analyte, Matrix:	Lead, Potable Water

Lab ID	CID	Sample Location/Description	LOQ	Result	Units	Flag
230331O001	1	Main Office-SK, Initial	0.001	< 0.001	mg/L	
230331O002	2	Nurse Office Bathroom-SK, Initial	0.001	< 0.001	mg/L	
230331O003	3	Custodial Closet by Main Office-SK, Initial	0.001	< 0.001	mg/L	
230331O004	4	Kitchen-SK	0.001	0.010	mg/L	H
230331O005	5	1932 Bottle Fill Hallway-Right-BF, Initial	0.001	< 0.001	mg/L	
230331O006	6	1932 Boys Bathroom Right-SK, Initial	0.001	0.016	mg/L	H
230331O007	7	Room 103 Bathroom-SK, Initial	0.001	0.002	mg/L	
230331O008	8	Room 106-SK, Initial	0.001	0.001	mg/L	
230331O009	9	Art Room 108-Left-SK, Initial	0.001	0.001	mg/L	
230331O010	10	Art Room 108-Right-SK, Initial	0.001	0.457	mg/L	E,H
230331O011	11	1968 Hallway Fountain-WF, Initial	0.001	0.010	mg/L	H
230331O012	12	Room 114-SK, Initial	0.001	0.003	mg/L	
230331O013	13	Room 116-SK, Initial	0.001	0.002	mg/L	
230331O014	14	1999 Faculty Bathroom-SK, Initial	0.001	< 0.001	mg/L	
230331O015	15	1999 Faculty Room-SK, Initial	0.001	< 0.001	mg/L	

Comment:

CID: Client ID LOQ: Limit of Quantitation

E: Sample result exceeds instrument calibration, value is estimated.

H: Sample result exceeds applicable regulatory limit.

Revision History:

Report revised on 4/6/2023, replaces report generated on 4/3/2023.

- Lab IDs 230331OO003, O004: Sample descriptions revised as per client request.

NEW YORK ENVIRONMENTAL

88 Harbor Road
Port Washington, NY 11050
(516) 944-9500
www.nyenvironmental.com

Laboratory Report

NYE Report #: 2500234-32172

January 27, 2025

Project Manager
Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma, NY 11779

Project: Quogue UFSD; Quogue School

Dear Project Manager,

Enclosed is the Laboratory Analytical Report for potable water sample(s) received on January 24, 2025. New York Environmental analyzed the samples on January 27, 2025 for Lead (Pb) by EPA Method 200.9 Rev. 2.2.

If there are any questions regarding the analyses, please feel free to contact us at your convenience. New York Environmental is a NELAP accredited laboratory. Attached reported results meet the requirements of the NELAP standards unless otherwise noted.

Samples' analytical results relate only to the samples tested, in the condition received by the laboratory. This report shall not be reproduced except in its entirety without written approval of the laboratory.

We sincerely thank you for your business, and look forward to being of service for your future environmental testing needs.

Sincerely,

Li Tsang, Laboratory Director

Date Collected:	24 Jan 2025
Date Received:	24 Jan 2025
Date Analyzed:	27 Jan 2025

Analytical Method:	EPA 200.9 Rev. 2.2
Analyte, Matrix:	Lead, Potable Water

Lab ID	CID	Sample Location/Description	LOQ	Result	Units	Flag
250124J001	1A	Art Room 108-Right-SK, Initial	0.001	0.002	mg/L	
250124J002	1B	Art Room 108-Right-SK, 15 Sec Flush	0.001	NA	mg/L	
250124J003	1C	Art Room 108-Right-SK, 60 Sec Flush	0.001	NA	mg/L	
250124J004	2A	Kitchen-SK, Initial	0.001	0.003	mg/L	
250124J005	2B	Kitchen-SK, 15 Sec Flush	0.001	NA	mg/L	
250124J006	2C	Kitchen-SK, 60 Sec Flush	0.001	NA	mg/L	

Comment:

CID: Client ID LOQ: Limit of Quantitation

NA: Sample not analyzed per customer request.