



PARS
Environmental
Inc.

LEAD IN DRINKING WATER TESTING REPORT

**WOODBIDGE TWP. SCHOOL DISTRICT
FORD AVENUE SCHOOL
186 FORD AVENUE
FORDS, NEW JERSEY 08863**

PREPARED FOR:

**Woodbridge Township School District
PO Box 428
School Street
Woodbridge, New Jersey 07095**

PREPARED BY:

**PARS Environmental, Inc.
500 Horizon Drive, Suite 540
Robbinsville, New Jersey 08691
Tel: 609-890-7277
Fax: 609-890-9116**

PARS Project No. 1135-01

June 2016



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EXECUTIVE SUMMARY

PARS Environmental, Inc. (PARS) was retained by the Woodbridge Township School District (District) to conduct lead in drinking water testing at the Ford Avenue School (Ford Ave.). PARS conducted the lead in drinking water testing on April 29, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the United States Environmental Protection Agency (USEPA) *3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts)*. PARS collected the water samples from drinking fountains located throughout the school. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

FINDINGS

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than fifteen (15) micrograms per liter ($\mu\text{g}/\text{l}$). Exceedance of the 15 $\mu\text{g}/\text{l}$ action level was not identified in Ford Ave. A total of eight (8) water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the Woodbridge Township School District (District) to conduct lead in drinking water testing at the Ford Avenue School (Ford Ave.). The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the school, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking fountains throughout the school. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NJDEP Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of the District. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at Ford Ave. on April 29, 2016. The lead in drinking water sampling was conducted by Julian Fernandez-Obregon and Eric Thom of PARS.

PARS performed lead in drinking water testing at a total of eight (8) drinking water fountains (bubbler and cooler units) in the elementary school.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of teachers and students.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to International Asbestos Testing Laboratories (IATL) of Mount Laurel, New Jersey for a two-week turnaround. IATL is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (#03863). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 15 µg/l action level were not identified in the eight (8) water samples collected at Ford Ave.

Lead in drinking water tabulated results for Ford Ave. are provided in **Table 1**. The laboratory analytical report is included in **Appendix A**. The laboratory certification is included in **Appendix B**.



4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of eight (8) drinking water fountains were tested at the Ford Avenue School. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than 15 µg/l. None of the eight (8) outlets sampled in Ford Ave. exceeded the 15 µg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

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PARS appreciates the opportunity to assist Woodbridge Township School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Rafael L. Torres, III
Senior Industrial Hygienist



**LEAD IN DRINKING WATER TESTING REPORT
WOODBIDGE TOWNSHIP SCHOOL DISTRICT
FORD AVENUE SCHOOL
JUNE 2016**

PARS

**TABLE 1
DRINKING WATER RESULTS TABLE**

TABLE 1
LEAD IN DRINKING WATER TESTING REPORT
WOODBRIIDGE TOWNSHIP SCHOOL DISTRICT
FORD AVENUE SCHOOL

Batch #	iATL Sample #	Customer Sample #	Project #	Project Name	Location	Concentration(1)	Dilution Factor(1)	Qualifier(1)	Results(1) in ppb
508611	5916987	WFAS-B-HCUST-DW-2-P	1135-01	Ford Ave School	Lead Water, 4-29-16	0.5	1	<	2.0
508611	5916988	WFAS-B-HCUST-DW-1-P	1135-01	Ford Ave School	Lead Water, 4-29-16	12.5	1		13.0
508611	5916989	WFAS-B-HNUR-DW-2-P	1135-01	Ford Ave School	Lead Water, 4-29-16	1.2	1	<	2.0
508611	5916990	WFAS-B-HNUR-DW-1-P	1135-01	Ford Ave School	Lead Water, 4-29-16	1.1	1	<	2.0
508611	5916991	WFAS-1-H3-DW-P	1135-01	Ford Ave School	Lead Water, 4-29-16	1.1	1	<	2.0
508611	5916992	WFAS-1-H9-DW-P	1135-01	Ford Ave School	Lead Water, 4-29-16	6.4	1		6.4
508611	5916993	WFAS-2-H10-DW-P	1135-01	Ford Ave School	Lead Water, 4-29-16	1.2	1	<	2.0
508611	5916994	WFAS-2-H4-DW-P	1135-01	Ford Ave School	Lead Water, 4-29-16	0.9	1	<	2.0

Client Sample ID Format:

Floor:

- B = Basement
- 01 = First floor
- 02 = Second floor

Exceeds 15 ppb

School-Floor-Room-Outlet-Sample Type

Room:

- ### = Room number ###
- ###-### = Sample between room number ### and room ###
- H### = Hallway by room number ###
- BLR = Boy's locker room
- CAF = Cafeteria
- FR = Faculty room
- GLR = Girl's locker room
- KIT = Kitchen
- MGYM = Main gym
- MO = Main office
- NUR = Nurse's office
- SGYM = Small gym
- TGL = Team girl's locker room
- TL = Teacher's lounge
- TP = Teacher's prep room
- PLR = Pool Locker room
- GU = Guidance Office

Outlet:

- BF = Bathroom faucet
- CF = Classroom faucet
- DW= Drinking water bubbler
- FP = Food preparation
- EC = Home economics room, cold
- KC = Kitchen faucet, cold
- LC = Lounge faucet, cold
- NS = Nurse's office sink
- SC = Service Connection
- TF or TS = Teacher's faucet or Teacher's sink
- WC = Water cooler (chiller unit)
- HS = Hand Sink



**LEAD IN DRINKING WATER TESTING REPORT
WOODBRIIDGE TOWNSHIP SCHOOL DISTRICT
FORD AVENUE SCHOOL
JUNE 2016**

PARS

**APPENDIX A
LABORATORY ANALYTICAL REPORT**

CERTIFICATE OF ANALYSIS

Client: PARS Environmental
500 Horizon Drive, Suite 540
Robbinsville NJ 08691

Report Date: 5/19/2016
Report No.: 508611 - Lead Water
Project: Ford Ave School
Project No.: 1135-01

Client: PAR559

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5916987 **Location:** Lead Water, 4-29-16 **Result(ppb):** <2.0
Client No.: WFAS-B-HCUST-DW-2-P

Lab No.: 5916988 **Location:** Lead Water, 4-29-16 **Result(ppb):** 13
Client No.: WFAS-B-HCUST-DW-1-P

Lab No.: 5916989 **Location:** Lead Water, 4-29-16 **Result(ppb):** <2.0
Client No.: WFAS-B-HNUR-DW-2-P

Lab No.: 5916990 **Location:** Lead Water, 4-29-16 **Result(ppb):** <2.0
Client No.: WFAS-B-HNUR-DW-1-P

Lab No.: 5916991 **Location:** Lead Water, 4-29-16 **Result(ppb):** <2.0
Client No.: WFAS-1-H3-DW-P

Lab No.: 5916992 **Location:** Lead Water, 4-29-16 **Result(ppb):** 6.4
Client No.: WFAS-1-H9-DW-P

Lab No.: 5916993 **Location:** Lead Water, 4-29-16 **Result(ppb):** <2.0
Client No.: WFAS-2-H10-DW-P

Lab No.: 5916994 **Location:** Lead Water, 4-29-16 **Result(ppb):** <2.0
Client No.: WFAS-2-H4-DW-P

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 4/29/2016

Date Analyzed: 5/19/2016 8:06:38 AM

Signature: 

Analyst: Chad Shaffer

Approved By: 

Frank E. Ehrenfeld, III

Laboratory Director

CERTIFICATE OF ANALYSIS

Client: PARS Environmental
500 Horizon Drive, Suite 540
Robbinsville NJ 08691

Report Date: 5/19/2016
Report No.: 508611 - Lead Water
Project: Ford Ave School
Project No.: 1135-01

Client: PAR559

Appendix to Analytical Report:

Customer: PARS Environmental
Address: 500 Horizon Drive, Suite 540
Customer Contact: Margaret Halasnik
Analysis: AAS-GF - ASTM D3559-08D, USEPA 40CFR 141.11B, 2010

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-08D, USEPA 40CFR 141.11B, 2010
- USEPA 200.9Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7000B:7421 - Pb(AAS-GF, RL <2 ppb/sample)

Certification:

- NYS-DOH No. 11021
- NJDEP No. 03863

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 2.0 PPB

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

<u>Contact Information</u>	
Client Company: <u>PARS Environmental, Inc.</u>	Project Number: <u>1135-01</u>
Office Address: <u>500 Horizon Drive, Suite 540</u>	Project Name: <u>Ford Ave School</u>
City, State, Zip: <u>Robbinsville, NJ 08691</u>	Primary Contact: <u>Rafael Torres</u>
Fax Number: <u>609-890-9116</u>	Office Phone: <u>609-890-7277</u>
Email Address: <u>rtorres@parsenviro.com</u>	Cell Phone: <u>609-254-8884</u>

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

Matrix/Method:

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other _____

Special Instructions:

MAILED
 5/19/16 AD

Turnaround Time

Preliminary Results Requested Date: _____

Verbal Email Fax 8

10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization): <u>Eric Thom / PARS</u>	Date: <u>4/29/16</u> Time: _____
Received (Name / iATL): <u>V. Colangelo</u>	Date: <u>4-29-16</u> Time: _____
Sample Login (Name / iATL): _____	Date: <u>4/29/16</u> Time: _____
Analysis(Name(s) / iATL): <u>6/5/19/16</u>	Date: _____ Time: <u>APR 29 2016</u>
QA/QC Review (Name / iATL): <u>ML</u>	Date: <u>5/19/16</u> Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____ Time: _____

RECEIVED
 IATL - By _____

Sample Log

–Environmental Lead –

Client: PARS Environmental, Inc. Project: Ford Ave School

Sampling Date/Time: 4/29/16

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
WFAS-B-HCUST-DW-2-P	5916987				0400		
WFAS-B-HCUST-DW-1-P	5916988				0401		
WFAS-B-HNUR-DW-2-P	5916989				0402		
WFAS-B-HNUR-DW-1-P	5916990				0403		
WFAS-1-H3-DW-P	5916991				0405		
WFAS-1-H9-DW-P	5916992				0407		
WFAS-2-H10-DW-P	5916993				0408		
WFAS-2-H4-DW-P	5916994				0409		

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 05/19/16)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	101
Lab Control Std	1.410	95
Matrix Spike - LBP *	0.33	103
Matrix Spike - Wipe *	0.29	99
Matrix Spike - Soil *	0.342	104
Matrix spike - Air *	0.050	104
2.5 ppm Standard	0.25	104
10.0 ppm Standard	1.0	101
40.0 ppm Standard	4.0	96

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: R. Chad Shaffer
Date: 5/19/16

Approved By: Frank E. Ehrenfeld, III
Laboratory Director



**LEAD IN DRINKING WATER TESTING REPORT
WOODBIDGE TOWNSHIP SCHOOL DISTRICT
FORD AVENUE SCHOOL
JUNE 2016**

PARS

**APPENDIX B
LABORATORY CERTIFICATION**

State of New Jersey
Department of Environmental Protection
Certifies That

International Asbestos Testing Laboratories

Laboratory Certification ID # 03863

having duly met the requirements of the
Regulations Governing the Certification of
Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

is hereby approved as a
State Certified Environmental Laboratory
to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid

Expires June 30, 2016



Michael M. Patte for JFA

Joseph F. Aiello
Assistant Director

New Jersey Department of Environmental Protection
 Environmental Laboratory Certification Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
 Effective as of 09/30/2015 until 06/30/2016

Laboratory Name: INTERNATIONAL ASBESTOS TESTING LABORATORIES Laboratory Number: 03863 Activity ID: SLC150001
 9000 COMMERCE PKWY STE B
 Mount Laurel, NJ 08054

Category: AE03 -- Asbestos Analysis

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	AE03 .00010	AE	Phase Contrast Microscopy	[OTHER NIOSH 7400]	Asbestos

Category: DW05 -- Asbestos Analysis

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	DW05 .00001	DW	Transmission Electron Microscopy	[EPA 100.1]	Asbestos
Certified	DW05 .00010	DW	Transmission Electron Microscopy	[EPA 100.2]	Asbestos

Category: DW06 -- Metals

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	DW06 .00340	DW	Graphite Furnace	[ASTM D3559 (D)]	Lead

Category: SCM04 -- Asbestos Analysis

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	SCM04.00010	SCM	Polarized Light Microscopy	[EPA 600/R-93-116]	Asbestos
Applied	SCM04.00070	SCM	Transmission Electron Microscopy	[EPA 600/R-93-116]	Asbestos

Michael M. Patta for J2A

Joseph F. Aiello, Manager

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF QUALITY ASSURANCE

401 E. State Street
P.O. Box 420, Mail Code 401-02D
Trenton, NJ 08625-0420
TEL: # (609) 292-3950
FAX # (609) 777-1774

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

FRANK EHRENFELD
INTERNATIONAL ASBESTOS TESTING
LABORATORIES
9000 COMMERCE PKWY STE B
MOUNT LAUREL, NJ 08054
Lab ID # 03863

Dear Laboratory Manager:

A Certificate and an Annual Certified Parameter List (ACPL) that reflects the current status of your facility are enclosed. If there are any discrepancies, please contact your Laboratory Certification Officer to verify information and make arrangements for a new ACPL. Effective with the receipt of this letter, your facility's certification status is valid through June 30, 2016. Both the ACPL and Certificate should be conspicuously displayed at your facility in a location on the premises that is visible to the public.

As always, we are available to discuss any comments or questions. Please do not hesitate to contact your laboratory certification officer or me.

Sincerely,

Michele Potter
Environmental Specialist 4

Enclosures