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DRINKING WATER SAMPLING REPORT

Holman Elementary School
125 Manhattan Street
Jackson, New Jersey 08527

Report Date
April 29, 2025

Partner Project No.
24-447445.1

Prepared for:
Jackson Township Board of Education
Jackson, New Jersey 08527

Building Science | Environmental Consulting | Construction & Development | Energy & Sustainability

PARTNER

April 29, 2025

Anthony Bruno
Jackson Township Board of Education
151 Don Connor Boulevard
Jackson, New Jersey 08527

Subject: Drinking Water Sampling Report
Holman Elementary School
125 Manhattan Street
Jackson, New Jersey 08527
Partner Project No. 24-447445.1

Dear Anthony Bruno,

Partner Engineering and Science, Inc. (Partner) is pleased to provide the *Drinking Water Sampling* of the abovementioned address (the "Subject Property"). This sampling event was performed in general conformance with the scope and limitations as detailed in our fee proposal. This inspection included a site reconnaissance as well as sampling and analysis. An assessment was made, conclusions stated, and recommendations outlined, as required.

This survey included a site reconnaissance as well as sampling and analysis. An assessment was conducted, conclusions stated, and recommendations outlined, as necessary.

We appreciate the opportunity to provide industrial hygiene services to Jackson Township Board of Education. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (908) 497-8904.

Sincerely,

Partner Engineering and Science, Inc.

Dan Bracey, CIH, CSP, CHMM
Technical Director
EHS Solutions

EXECUTIVE SUMMARY

Partner presents our report for this Drinking Water Sampling Report of Holman Elementary School located at 125 Manhattan Street, Jackson, NJ on February 8, 2025. Samples were collected according to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools" recommendations, as well as the Safe Drinking Water Act of 1974.

The first sample at each fixture was a "first draw" which was collected directly from the fixture without letting the water run or flush. The second sample was collected after letting the water run (flush) for thirty seconds. This sample evaluates the lead in water from the water purveyor and the pipes outside the building. The samples collected were analyzed by EUROFINS Built Environment Testing, located in Mt. Laurel, New Jersey for analysis of lead content using ASTM Method D3559-15D for lead in drinking water. The action level for lead has been set at 15 parts per billion (ppb). According to the USEPA, given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

Sample analysis indicated that measured lead concentrations did exceed the USEPA Action Level of 15 ppb for lead at Holman Elementary School. Specifically, water from the following outlets had exceedances:

Table 1: USEPA Action Level Exceedances

Sample Name	Location	Results (ppb)
HES-S-06	Room 402	24.2
HES-WF-08	Room 403	69.0
HES-WF-09	Room 401	23.0
HES-WF-16	Room 214	35.2
HES-WF-24	Room 101	36.3
HES-WF-30	Room 113	71.0
HES-WF-33	Room 304	152

ppb= parts per billion

Based on the above referenced sample analytical results, Partner recommends the following actions:

- Remove drinking water outlets of concern from service.
- Sink outlets exceeding the USEPA Action Level should be labelled as "Do Not Drink – Safe for Handwashing Only".
- Conduct an investigation into the drinking water outlet of concern and replace any potential lead-leaching fixtures or equipment, such as fixtures and associated piping, that may be contributing to dissolved lead in drinking water.

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1.0 INTRODUCTION

1.1 Subject Property Description

Address:	125 Manhattan Street, Jackson, NJ
Nature of Use:	School
Walk-Through Inspector:	Hunter Hostage
Walk-Through Date:	January 12, 2025
Sampling Conducted By:	Juan Jimenez & Jeremy Jordan
Sampling Date :	February 8, 2025

1.2 Purpose and Scope

The purpose of this drinking water sampling event was to sample and analyze drinking water for a determination of lead content for comparison with the USEPA Action Level as defined by the National Primary Drinking Water Regulations (NPDWR - 40 CFR Chapter I, Part 141), in addition to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools". The NPDW set a Maximum Contaminant Level Goal (MCLG) for each listed contaminant, which identifies a level of that contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals. The MCLG for lead has been set at zero ppb. Since lead contamination generally occurs from corrosion of onsite lead pipes, or lead-based solder on fittings and fixtures, it cannot be directly detected or removed by the municipal water system. Instead, the USEPA is requiring municipal water systems to control the corrosiveness of their water if the level of lead at the tap exceeds an Action Level.

The action level for lead has been set at 15 parts per billion (ppb). According to the NPDWR Lead and Copper Rule (LCR), given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

2.0 METHODOLOGY

Select drinking water samples were collected according to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools" recommendations, as well as the LCR Monitoring requirements for lead in tap water (40 CFR Part 141, Subpart I, § 141.86(b)).

The first sample at each fixture was a "first draw" which was collected directly from the fixture without letting the water run or flush. The second sample was collected after letting the water run (flush) for thirty seconds. This sample evaluates the lead in water from the water purveyor and the pipes outside the building. Ideally, the water had not been used for the past eight hours prior to sampling and not longer than 48 hours prior to sampling. Partner made a reasonable effort to determine whether the stagnation preconditions were able to be met prior to conducting sampling.

Sample bottles were provided by EUROFINS Built Environment Testing, located in Mt. Laurel, New Jersey, with an appropriate preservative for lead in drinking water sampling. After collection, sample bottles were labeled with a unique identifier and transferred under chain of custody conditions to EUROFINS Built Environment Testing located in Mt. Laurel, New Jersey, for analysis by ASTM Method D3559-15D. The laboratory results and chain of custody are contained in **Appendix B.**

3.0 ANALYTICAL RESULTS / CONCLUSIONS AND RECOMMENDATIONS

During the course of this site visit, Partner collected water samples at 41 location. Partner did not attempt to disassemble mechanical equipment, open plumbing pipe chases, or assess materials within wall voids.

Sample names and their respective locations were updated from the 2021 sampling event based on relevant known plumbing information as provided by the Holman Elementary School and the site guide.

Partner attempted to collect samples from the following outlets; however, based upon the condition of the outlet and recommendations from the site guide, a sample could not be collected at the following locations:

- HES-WF-10
- HES-WF-43
- HES-S-42

A total of 82 drinking water samples were collected from Holman Elementary School on February 8, 2024. A total of 48 samples were analyzed. Table 1 lists the samples that exceeded the USEPA Action Level. The analytical results for all samples collected are listed in **Table 2** in **Appendix A**. Sample locations are depicted on the diagram included in **Appendix C.**

Table 1: USEPA Action Level Exceedances

Sample Name	Location	Results (ppb)
HES-S-06	Room 402	24.2
HES-WF-08	Room 403	69.0
HES-WF-09	Room 401	23.0
HES-WF-16	Room 214	35.2
HES-WF-24	Room 101	36.3
HES-WF-30	Room 113	71.0
HES-WF-33	Room 304	152

ppb= parts per billion

3.1 Conclusions and Recommendations

Based on the observations onsite, the noted limitations and the analytical results, Partner has the following recommendations:

- Remove drinking water outlets of concern from service.

- Sink outlets exceeding the USEPA Action Level should be labelled as "Do Not Drink – Safe for Handwashing Only".
- Conduct an investigation into the drinking water outlet of concern and replace any potential lead-leaching fixtures or equipment, such as fixtures and associated piping, that may be contributing to dissolved lead in drinking water.
- Additional control technologies may be utilized to reduce lead content in drinking water, including, but not limited to onsite water treatment and filtration. All response actions should be conducted in according with industry, local, state and federal guidelines and/or requirements.

In the event the remedial action involves replacing the fixture/associated piping or installing a new fixture, Holman Elementary School should conduct sampling for lead in drinking water to ensure lead levels are below the action level prior to opening up the fixture for use. Additionally, sampling of all drinking water outlets must be conducted every third school year beginning with the 2021-2022 school year.

Flushing involves opening suspect taps every morning before the facility opens and letting the water run to remove water that has been standing in the interior pipes and/or the outlets. All flushing should be recorded in a log submitted daily to the head of maintenance/facilities. The faucet should be opened and the water should run for 30 seconds to one minute, or until cold.

A filtration device, or point-of-use (POU) device can be relatively inexpensive ($65 to $250) or expensive (ranging from $250 to $500), their effectiveness varies, and they may be vulnerable to vandalism. They also require a maintenance program for regular upkeep to ensure effectiveness. Cartridge filter units need to be replaced periodically to remain effective. NSF International, an independent, third-party certification organization, has a testing program to evaluate the performance of POU devices for lead removal (NSF Standard 53). Before purchasing any device, ask the manufacturer for proof of NSF approval and the Performance Data Sheet, or check by visiting the NSF Web site at:
http://www.nsf.org/business/search_listings/index/asp

4.0 LIMITING CONDITIONS

No warranties expressed or implied, are made by Partner or its subcontractor, EUROFINS Built Environment Testing, or their employees as to the use of any information, apparatus, product, or process disclosed in this report. Every reasonable effort has been made to assure correctness. This survey is limited by the scope discussed by the client. It was prepared for the sole use and benefit of the Client. Neither this report nor any of the information contained herein shall be used or relied upon for any purpose by any persons or entities other than the Client.

Property and climate conditions, as well as local, state, and federal regulations, can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted industry assessment techniques and it is believed that the inferences made are reasonably representative of the property. Partner and its subcontractor EUROFINS Built Environment Testing, and their employees/representatives bear no responsibility for the actual condition of the structure or safety of this site pertaining to water quality contamination regardless of the actions taken by the inspection team or the client. Partner makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted assessment practices applicable at the time and location of the study.

5.0 SIGNATURES OF PROFESSIONALS

Partner has performed lead-in-drinking water sampling on the property at 125 Manhattan Street, Jackson, New Jersey in general conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

Prepared By:

Partner Engineering and Science, Inc.

Juan Jimenez
Industrial Hygienist

Reviewed by:

Angelica Rosaperez, ASP
Project Manager

APPENDIX A: TABLE 2 – ANALYTICAL RESULTS TABLE

Table 2: Analytical Results		
Sample Name	**Location**	**Results (ppb)**
HES-S-01	Faculty Room	<1.00
HES-WF-01	Outside Nurse	<1.00
HES-BF-01	Outside Nurse	<1.00
HES-S-02	Kitchen	<1.00
HES-S-03	Kitchen	<1.00
HES-S-04	Kitchen	8.50
HES-S-05	Nurse	9.00
HES-S-06	Room 402	**24.2** (1.10)
HES-S-07	Room 404	6.90
HES-WF-08	Room 403	**69.0** (1.60)
HES-WF-09	Room 401	**23.0** (1.50)
HES-WF-11	Adj. 211	<1.00
HES-BF-11	Adj. 211	<1.00
HES-WF-12	Room 212	10.3
HES-WF-13	Room 201	10.8
HES-WF-14	Room 213	7.70
HES-WF-15	Room 202	8.50
HES-WF-16	Room 214	**35.2** (1.20)
HES-WF-17	Room 203	13.2
HES-WF-18	Room 204	4.00
HES-WF-19	Room 215	9.80
HES-WF-20	All Purpose Room	<1.00
HES-BF-21	All Purpose Room	<1.00
HES-S-22	Media Center	7.10
HES-WF-23	Adj. Room 111	<1.00
HES-BF-23	Adj. Room 111	<1.00
HES-WF-24	Room 101	**36.3** (2.30)
HES-WF-25	Room 111	7.80
HES-WF-26	Room 102	1.80
HES-WF-27	Room 112	<1.00
HES-WF-28	Room 103	1.30
HES-WF-29	Room 104	9.00
HES-WF-30	Room 113	**71.0** (1.80)
HES-WF-31	Room 105	9.80
HES-WF-32	Room 114	12.1

Table 2: Analytical Results		
Sample Name	**Location**	**Results (ppb)**
HES-WF-33	Room 304	**152** (3.00)
HES-WF-34	Room 302	7.70
HES-WF-35	Room 301	8.70
HES-WF-36	Room 303	7.00
HES-WF-37	Outside Gym	<1.00
HES-WF-38	Outside Gym	<1.00

ppb=parts for billion

***Bold** = Exceedances above USEPA Action Level 15 ppb*

Parenthesis ( ) = Flush Samples

APPENDIX B: LABORATORY ANALYSIS AND CHAIN-OF-CUSTODY

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Partner Engineering and Science
929 Asbury Ave
Asbury Park NJ 07712

Client: PAR929

Report Date: 2/14/2025
Report No.: 709689 - Lead Water
Project: 2024 Jackson LIDW-Holman ES
Project No.: 24-447445.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820904 **Client No.:**HES-S-01	**Location:**Faculty Room * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820905 **Client No.:**HES-S-01-F	**Location:**Faculty Room * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820906 **Client No.:**HES-WF-01	**Location:**Outside Nurse * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820907 **Client No.:**HES-WF-01-F	**Location:**Outside Nurse * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820908 **Client No.:**HES-BF-01	**Location:**Outside Nurse * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820909 **Client No.:**HES-BF-01-F	**Location:**Outside Nurse * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820910 **Client No.:**HES-S-02	**Location:**Kitchen * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820911 **Client No.:**HES-S-02-F	**Location:**Kitchen * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820912 **Client No.:**HES-S-03	**Location:**Kitchen * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820913 **Client No.:**HES-S-03-F	**Location:**Kitchen * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Client: PAR929

Report Date: 2/14/2025
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Project No.: 24-447445.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820914 **Client No.:**HES-S-04	**Location:**Kitchen * Sample acidified to pH <2.	**Result(ppb):**8.50
Lab No.:7820915 **Client No.:**HES-S-04-F	**Location:**Kitchen * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820916 **Client No.:**HES-S-05	**Location:**Nurse * Sample acidified to pH <2.	**Result(ppb):**9.00
Lab No.:7820917 **Client No.:**HES-S-05-F	**Location:**Nurse * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820918 **Client No.:**HES-S-06	**Location:**Room 402 * Sample acidified to pH <2.	**Result(ppb):**24.2
Lab No.:7820919 **Client No.:**HES-S-06-F	**Location:**Room 402 * Sample acidified to pH <2.	**Result(ppb):**1.10
Lab No.:7820920 **Client No.:**HES-S-07	**Location:**Rm 404 * Sample acidified to pH <2.	**Result(ppb):**6.90
Lab No.:7820921 **Client No.:**HES-S-07-F	**Location:**Rm 404 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820922 **Client No.:**HES-WF-08	**Location:**Rm 403 * Sample acidified to pH <2.	**Result(ppb):**69.0
Lab No.:7820923 **Client No.:**HES-WF-08-F	**Location:**Rm 403 * Sample acidified to pH <2.	**Result(ppb):**1.60

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature: Mark Stewart
Analyst: Mark Stewart

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820924 **Client No.:**HES-WF-09	**Location:**Rm 401 * Sample acidified to pH <2.	**Result(ppb):**23.0
Lab No.:7820925 **Client No.:**HES-WF-09-F	**Location:**Rm 401 * Sample acidified to pH <2.	**Result(ppb):**1.50
Lab No.:7820926 **Client No.:**HES-WF-11	**Location:**Adj. 211 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820927 **Client No.:**HES-WF-11-F	**Location:**Adj. 211 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820928 **Client No.:**HES-BF-11	**Location:**Adj. 211 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820929 **Client No.:**HES-BF-11-F	**Location:**Adj. 211 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820930 **Client No.:**HES-WF-R	**Location:**Rm 212 * Sample acidified to pH <2.	**Result(ppb):**10.3
Lab No.:7820931 **Client No.:**HES-WF-R-F	**Location:**Rm 212 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820932 **Client No.:**HES-WF-B	**Location:**Rm 201 * Sample acidified to pH <2.	**Result(ppb):**10.8
Lab No.:7820933 **Client No.:**HES-WF-B-F	**Location:**Rm 201 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820934 **Client No.:**HES-WF-14	**Location:**Rm 213 * Sample acidified to pH <2.	**Result(ppb):**7.70
Lab No.:7820935 **Client No.:**HES-WF-14-F	**Location:**Rm 213 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820936 **Client No.:**HES-WF-15	**Location:**Rm 202 * Sample acidified to pH <2.	**Result(ppb):**8.50
Lab No.:7820937 **Client No.:**HES-WF-15-F	**Location:**Rm 202 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820938 **Client No.:**HES-WF-16	**Location:**Rm 214 * Sample acidified to pH <2.	**Result(ppb):**35.2
Lab No.:7820939 **Client No.:**HES-WF-16-F	**Location:**Rm 214 * Sample acidified to pH <2.	**Result(ppb):**1.20
Lab No.:7820940 **Client No.:**HES-WF-17	**Location:**Rm 203 * Sample acidified to pH <2.	**Result(ppb):**13.2
Lab No.:7820941 **Client No.:**HES-WF-17-F	**Location:**Rm 203 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820942 **Client No.:**HES-WF-18	**Location:**Rm 204 * Sample acidified to pH <2.	**Result(ppb):**4.00
Lab No.:7820943 **Client No.:**HES-WF-18-F	**Location:**Rm 204 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

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Approved By:
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820944 **Client No.:**HES-WF-19	**Location:**Rm 215 * Sample acidified to pH <2.	**Result(ppb):**9.80
Lab No.:7820945 **Client No.:**HES-WF-19-F	**Location:**Rm 215 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820946 **Client No.:**HES-WF-20	**Location:**All Purpose Room * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820947 **Client No.:**HES-WF-20-F	**Location:**All Purpose Room * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820948 **Client No.:**HES-BF-21	**Location:**All Purpose Room * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820949 **Client No.:**HES-BF-21-F	**Location:**All Purpose Room * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820950 **Client No.:**HES-S-22	**Location:**Media Center * Sample acidified to pH <2.	**Result(ppb):**7.10
Lab No.:7820951 **Client No.:**HES-S-22-F	**Location:**Media Center * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820952 **Client No.:**HES-WF-23	**Location:**Adj. Rm 111 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820953 **Client No.:**HES-WF-23-F	**Location:**Adj. Rm 111 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature: Mark Stewart
Analyst: Mark Stewart

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

eurofins | Built Environment Testing
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Client: PAR929

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Project: 2024 Jackson LIDW-Holman ES
Project No.: 24-447445.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820954 **Client No.:**HES-BF-23	**Location:**Adj. Rm 111 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820955 **Client No.:**HES-BF-23-F	**Location:**Adj. Rm 111 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820956 **Client No.:**HES-WF-24	**Location:**Rm 101 * Sample acidified to pH <2.	**Result(ppb):**36.3
Lab No.:7820957 **Client No.:**HES-WF-24-F	**Location:**Rm 101 * Sample acidified to pH <2.	**Result(ppb):**2.30
Lab No.:7820958 **Client No.:**HES-WF-25	**Location:**Rm 111 * Sample acidified to pH <2.	**Result(ppb):**7.80
Lab No.:7820959 **Client No.:**HES-WF-25-F	**Location:**Rm 111 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820960 **Client No.:**HES-WF-26	**Location:**Rm 102 * Sample acidified to pH <2.	**Result(ppb):**1.80
Lab No.:7820961 **Client No.:**HES-WF-26-F	**Location:**Rm 102 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820962 **Client No.:**HES-WF-27	**Location:**Rm 112 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820963 **Client No.:**HES-WF-27-F	**Location:**Rm 112 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

eurofins | Built Environment Testing
iATL

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Partner Engineering and Science
929 Asbury Ave
Asbury Park NJ 07712

Client: PAR929

Report Date: 2/14/2025
Report No.: 709689 - Lead Water
Project: 2024 Jackson LIDW-Holman ES
Project No.: 24-447445.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820964 **Client No.:**HES-WF-28	**Location:**Rm 103 * Sample acidified to pH <2.	**Result(ppb):**1.30
Lab No.:7820965 **Client No.:**HES-WF-28-F	**Location:**Rm 103 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820966 **Client No.:**HES-WF-29	**Location:**Rm 104 * Sample acidified to pH <2.	**Result(ppb):**9.00
Lab No.:7820967 **Client No.:**HES-WF-29-F	**Location:**Rm 104 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820968 **Client No.:**HES-WF-30	**Location:**Rm 113 * Sample acidified to pH <2.	**Result(ppb):**71.0
Lab No.:7820969 **Client No.:**HES-WF-30-F	**Location:**Rm 113 * Sample acidified to pH <2.	**Result(ppb):**1.80
Lab No.:7820970 **Client No.:**HES-WF-31	**Location:**Rm 105 * Sample acidified to pH <2.	**Result(ppb):**9.80
Lab No.:7820971 **Client No.:**HES-WF-31-F	**Location:**Rm 105 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820972 **Client No.:**HES-WF-32	**Location:**Rm 114 * Sample acidified to pH <2.	**Result(ppb):**12.1
Lab No.:7820973 **Client No.:**HES-WF-32-F	**Location:**Rm 114 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature: Mark Stewart
Analyst: Mark Stewart

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Partner Engineering and Science
929 Asbury Ave
Asbury Park NJ 07712

Client: PAR929

Report Date: 2/14/2025
Report No.: 709689 - Lead Water
Project: 2024 Jackson LIDW-Holman ES
Project No.: 24-447445.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820974 **Client No.:**HES-WF-33	**Location:**Rm 304 * Sample acidified to pH <2.	**Result(ppb):**152
Lab No.:7820975 **Client No.:**HES-WF-33-F	**Location:**Rm 304 * Sample acidified to pH <2.	**Result(ppb):**3.00
Lab No.:7820976 **Client No.:**HES-WF-34	**Location:**Rm 302 * Sample acidified to pH <2.	**Result(ppb):**7.70
Lab No.:7820977 **Client No.:**HES-WF-34-F	**Location:**Rm 302 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820978 **Client No.:**HES-WF-35	**Location:**Rm 301 * Sample acidified to pH <2.	**Result(ppb):**8.70
Lab No.:7820979 **Client No.:**HES-WF-35-F	**Location:**Rm 301 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820980 **Client No.:**HES-WF-36	**Location:**Rm 303 * Sample acidified to pH <2.	**Result(ppb):**7.00
Lab No.:7820981 **Client No.:**HES-WF-36-F	**Location:**Rm 303 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7820982 **Client No.:**HES-WF-37	**Location:**Outside Gym * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7820983 **Client No.:**HES-WF-37-F	**Location:**Outside Gym * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Partner Engineering and Science
929 Asbury Ave
Asbury Park NJ 07712

Client: PAR929

Report Date: 2/14/2025
Report No.: 709689 - Lead Water
Project: 2024 Jackson LIDW-Holman ES
Project No.: 24-447445.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7820984 **Location:**Outside Gym **Result(ppb):**<1.00
Client No.:HES-WF-38 * Sample acidified to pH <2.

Lab No.:7820985 **Location:**Outside Gym **Result(ppb):**Sample Not Analyzed
Client No.:HES-WF-38-F * Sample acidified to pH <2.

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

Date Received: 2/11/2025
Date Analyzed: 02/14/2025
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

eurofins | Built Environment Testing
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Mt. Laurel, New Jersey 08054
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CERTIFICATE OF ANALYSIS

Client:	Partner Engineering and Science	Report Date:	2/14/2025
	929 Asbury Ave	Report No.:	709689 - Lead Water
	Asbury Park NJ 07712	Project:	2024 Jackson LIDW-Holman ES
		Project No.:	24-447445.1
Client:	PAR929		

Appendix to Analytical Report:

Customer Contact:
Analysis: AAS-GF - ASTM D3559-15D

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 OfficeManager: ?wchampion@iatl.com
iATL Account Representative: House Account
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 ir 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 D3559-15D

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

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B
- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

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003943056

Chain of Custody

Contact Information

Client Company: Partner Engineering and Science,
Office Address: 929 Asbury Avenue
City, State, Zip: Asbury Park, NJ 07712
Fax Number:
Email Address: arosaperez@partneresi.com

Project Number: 24-447445.1
Project Name: 2024 Jackson BOE - Holman Elementary School 125 Manhattan Street
Primary Contact: Angelica Rosaperez
Office Phone:
Cell Phone: 732-403-5869

Matrix:

- [ ] Air
- [x] Water
- [ ] Soil
- [ ] Paint
- [ ] Bulk
- [ ] Surface Dust / Wipe
- [ ] Other

Analysis Method:

- [ ] PCM: NIOSH 7400
- [ ] PCM: OSHA
- [ ] PCM: TWA
- [ ] Total Dust: NIOSH 0500
- [ ] Total Dust: NIOSH 0600
- [ ] AAS: Lead in Air
- [x] AAS: Lead in Water
- [ ] AAS: Lead in Paint
- [ ] AAS: Lead Dust/Wipe1
- [ ] AAS: Lead in Soil
- [ ] AAS: TCLP
- [ ] AAS: Metals [Cd, Zn, Cr-circle]

PLM Use Bulk Asbestos Sample Log

- [ ] PLM: Bulk Asbestos EPA 600
- [ ] PLM: Point Counting 198.1
- [ ] PLM: NOB via 198.6 (PLM only)
- [ ] If <1% by PLM, to TEM via 198.4 2

IAQ Use Mold Sample Log

- [ ] IAQ: I Bioaersol Fungal Spore Trap3
- [ ] IAQ: II Bioaersol Fungal Spore
- [ ] IAQ: Tape, Bulk, Misc. Qualitative3
- [ ] IAQ: Tape, Bulk, Misc. Quantitative3
- [ ] IAQ: Other Culturable ID2

- [ ] TEM: AHERA
- [ ] TEM: NIOSH 7402
- [ ] TEM: ISO 10312
- [ ] TEM: ISO 13794
- [ ] TEM: Wipe ASTM 6480
- [ ] TEM: Microvac ASTM D5755
- [ ] TEM: Microvac ASTM D5756
- [ ] TEM: NOB 198.4
- [ ] TEM: Bulk Analysis
- [ ] TEM: Potable Water
- [ ] TEM: Non-Potable Water
- [ ] TEM: Other ________
- [ ] Soil: Call for Available Methods

1- Requires ASTM acceptable material 2- Call to confirm TAT 3- Non-culturable 4- With Non-fungal Microscopic Exam

Special Instructions: Method 200.9
Please HOLD all Flush samples (F). If the initial sample is above 15 ppb, please run the flush sample.

Turnaround Time

Preliminary Results Requested Date: ________ (Specific date / time)

- [ ] Verbal
- [x] Email
- [ ] Fax

- [x] 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***

Shipping Method

- [ ] FedEx
- [ ] UPS
- [ ] USPS
- [ ] Other ________

Chain of Custody

		Date	Time
Relinquished (Name/Organization):	[signature]	2/10/2025	1146
Received (Name / iATL):	[signature]	2/10	1146
Sample Login (Name / iATL):	Rec. Ho EM	2/10	FEB 1 1 2025
Analyst (Name(s) / iATL):	Rel. Ho Em	2/10	2045
QA/QC Review (Name / iATL):			
Archived / Released:	QA/QC InterLAB Use:		

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Sample Log

–Environmental Lead –

Client: Holman Elementary School 125 Mahalla Street Project:

Sampling Date/Time: 2/8/2025 10:50

Client Sample #	IATL #	Location/ Description	Date Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HES-S-01	7820904	Faculty Room	2/8/25	1100		250 mL	
HES-S-01F	7820905	Faculty Room		1100			
HES-WF-01	7820906	Outside Nurse		1102			
HES-WF-01F	7820907			1102			
HES-BF-01	7820908			1103			
HES-BF-01F	7820909			1103			
HES-S-02	7820910	Kitchen		1105			
HES-S-02F	7820911			1105			
HES-S-03	7820912			1107			
HES-S-03F	7820913			1107			
HES-S-04	7820914			1108			
HES-S-04F	7820915			1108			
HES-S-05	7820916	Nurse		1110			
HES-S-05F	7820917	Nurse		1110			
HES-S-06	7820918	Room 402		1112			

* = *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.

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Sample Log

–Environmental Lead –

Client: Holmes Elementary School - 175 Marlette St. Project: _____

Sampling Date/Time: 2/8/2015 10:00 AM

Client Sample #	iATL #	Location/ Description	Pump Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HES-S-06F	7820919	Room 402	2/8/15	1112		250 mL	
HES-S-07	7820920	Rm 404		1113			
HES-S-07F	7820921	Rm 404		1113			
HES-WF-08	7820922	Rm 403		1115			
HES-WF-08F	7820923	Rm 403		1115			
HES-WF-09	7820924	Rm 401		1117			
HES-WF-09F	7820925	Rm 401		1117			
HES-WF-11	7820926	Adj. 211		1119			
HES-WF-11F	7820927	Adj. 211		1119			
HES-BF-11	7820928	Adj. 211		1120			
HES-BF-11F	7820929	Adj. 211		1120			
HES-WF-12	7820930	Rm 212		1121			
HES-WF-12F	7820931	Rm 212		1121			
HES-WF-13	7820932	Rm 201		1122			
HES-WF-13F	7820933	Rm 201		1122			

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Sample Log

–Environmental Lead –

Client: Hilwan Elementary School 125 Middleton Street Project: _____

Sampling Date/Time: 2/8/2015

Client Sample #	iATL #	Location/ Description	Flow Rate (Note)	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HES-WF-14	7820934	Rm 213	4 l/m	1123		250 mL	
HES-WF-14F	7820935	Rm 213		1123			
HES-WF-15	7820936	Rm 202		1124			
HES-WF-15F	7820937	Rm 202		1124			
HES-WF-16	7820938	Rm 214		1125			
HES-WF-16F	7820939	Rm 214		1125			
HES-WF-17	7820940	Rm 203		1126			
HES-WF-17F	7820941	Rm 203		1126			
HES-WF-18	7820942	Rm 204		1127			
HES-WF-18F	7820943	Rm 204		1127			
HES-WF-19	7820944	Rm 215		1128			
HES-WF-19F	7820945	Rm 215		1128			
HES-WF-20	7820946	All purpose room		1131			
HES-WF-20F	7820947	↓		1131		↓	
HES-[redacted]BF	7820948	↓	↓	1132			

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Sample Log

–Environmental Lead –

Client: Holmes Elementary School - 145 Manhattan St. Project: _____

Sampling Date/Time: 2/9/15

Client Sample #	iATL #	Location/ Description	Note/ Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HES-BF-21F	7820949	All purpose room	2/9/15	1132		250 mL	
HES-[illegible]S-22	7820950	Media Center		1134			
HES-S-22F	7820951	Media Center		1134			
HES-WF-23	7820952	Adj. Rm 111		1135			
HES-WF-23F	7820953	Adj. Rm 111		1135			
HES-BF-[illegible]23	7820954	Adj. Rm 111		1136			
HES-BF-23F	7820955	Adj. Rm 111		1136			
HES-WF-24	7820956	Rm 101		1137			
HES-WF-24F	7820957	Rm 101		1137			
HES-WF-25	7820958	Rm 111		1138			
HES-WF-25F	7820959	Rm 111		1138			
HES-WF-26	7820960	Rm 102		1139			
HES-WF-26F	7820961	Rm 102		1139			
HES-WF-27	7820962	Rm 112		1140		↓	
HES-WF-27F	7820963	Rm 112	↓	1140			

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Sample Log

–Environmental Lead –

Client: Holmes Elementary School Project: _____

Sampling Date/Time: 2/8/12

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HES-WF-28	7820964	Rm 103		1141		250 mL	
HES-WF-28F	7820965	Rm 103		1141			
HES-WF-29	7820966	Rm 104		1142			
HES-WF-29F	7820967	Rm 104		1142			
HES-WF-30	7820968	Rm 113		1143			
HES-WF-30F	7820969	Rm 113		1143			
HES-WF-31	7820970	Rm 105		1144			
HES-WF-31F	7820971	Rm 105		1144			
HES-WF-32	7820972	Rm 114		1145			
HES-WF-32F	7820973	Rm 114		1145			
HES-WF-33	7820974	Rm 304		[illegible]	150		
HES-WF-33F	7820975	Rm 304		[illegible]	150		
HES-WF-34	7820976	Rm 302		1151			
HES-WF-34F	7820977	Rm 302		1151			
HES-WF-35	7820978	Rm 301	↓	1152		↓	

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Sample Log

–Environmental Lead –

Client: Helen Elementary School 125 Manhattan St. Project: _____

Sampling Date/Time: 2/8/2015

Client Sample #	iATL #	Location/ Description	Pump Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HES-WF-35F	7820979	Rm 301		1152		250 mL	
HES-WF-36	7820980	Rm 303		1153			
HES-WF-36F	7820981	Rm 303		1153			
HES-WF-37	7820982	Outside Gym		1157			
HES-WF-37F	7820983	Outside Gym		1157			
HES-WF-38	7820984	Outside Gym		1158			
HES-WF-38F	7820985	Outside Gym	↓	1158		↓	

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

Client:	Partner Engineering and Science	Report Date:	2/14/2025
	929 Asbury Ave	Report No.:	709689 - Lead Water
	Asbury Park NJ 07712	Project:	2024 Jackson LIDW-Holman ES
		Project No.:	24-447445.1
Client:	PAR929		

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.**

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

APPENDIX C: SAMPLE LOCATION DIAGRAM

Holman Elementary School
125 Manhattan Street
Jackson, NJ 08527