

August 18, 2017

Mr. Rafael Torres
PARS Environmental
500 Horizon Drive
Trenton, NJ 08691

Certificate of Analysis

Project Name:	School Drinking Water Lead Testing	Workorder:	2254157
Purchase Order:		Workorder ID:	HHS-Hillsborough Elem Schl

Dear Mr. Torres:

Enclosed are the analytical results for samples received by the laboratory on Monday, August 14, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Mrs. Vicki A. Forney
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2254157 HHS-Hillsborough Elem Schl

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2254157001	HES-Field Blank	Drinking Water	8/13/2017 00:00	8/14/2017 18:45	Collected by Client
2254157002	HES-1-108-CF-R	Drinking Water	8/13/2017 09:32	8/14/2017 18:45	Collected by Client
2254157003	HES-1-112-CF-R	Drinking Water	8/13/2017 09:40	8/14/2017 18:45	Collected by Client
2254157004	HES-1-16-DW-R	Drinking Water	8/13/2017 09:49	8/14/2017 18:45	Collected by Client
2254157005	HES-1-16-DW-RF	Drinking Water	8/13/2017 09:53	8/14/2017 18:45	Collected by Client

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SAMPLE SUMMARY

Workorder: 2254157 HHS-Hillsborough Elem Schl

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2254157 HHS-Hillsborough Elem Schl

Lab ID: **2254157001** Date Collected: 8/13/2017 00:00 Matrix: Drinking Water
 Sample ID: **HES-Field Blank** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	ND		ug/L	2.0	EPA 200.8	8/17/17 14:19	MO	8/17/17 16:11	MO	A1



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ANALYTICAL RESULTS

Workorder: 2254157 HHS-Hillsborough Elem Schl

Lab ID: **2254157002** Date Collected: 8/13/2017 09:32 Matrix: Drinking Water
 Sample ID: **HES-1-108-CF-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	6.6		ug/L	2.0	EPA 200.8	8/17/17 14:19 MO	8/17/17 16:14 MO	A1



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ANALYTICAL RESULTS

Workorder: 2254157 HHS-Hillsborough Elem Schl

Lab ID: **2254157003** Date Collected: 8/13/2017 09:40 Matrix: Drinking Water
 Sample ID: **HES-1-112-CF-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	7.8		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 08:06	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254157 HHS-Hillsborough Elem Schl

Lab ID: **2254157004** Date Collected: 8/13/2017 09:49 Matrix: Drinking Water
 Sample ID: **HES-1-16-DW-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	72.3		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 08:18	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254157 HHS-Hillsborough Elem Schl

Lab ID: **2254157005** Date Collected: 8/13/2017 09:53 Matrix: Drinking Water
 Sample ID: **HES-1-16-DW-RF** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	3.7		ug/L	2.0	EPA 200.8	8/17/17 14:19 MO	8/17/17 16:16 MO	A1



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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC
ALS



of

Environmental

Client Name: PARS Environmental
Address: 500 Horizon Drive, Suite 540
Contact: Firoz Jan
Phone#: 609-890-7277
Project Name#: HES- Hillisborough Elementary School-Remedial
Bill To: Firoz Jan, PARS Environmental
TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
Date Required: 8/17/17-72 hrs **Approved By:** FJ
Email? Y Fjan@parsenviro.com, and
Fax? Y No: rtorres@parsenviro.com

Container Type: BP
Container Size: 250mL
Preservative: HNO3
Cooler Temp: 22 Therm ID: 309
No. of Coolers: Y N Initial JA
Custody Seals Present?
(If present) Seals Intact?
Received on Ice?
COC Labels Complete/Accurate?
Cool. In Good Cond.?
Correct Containers?
Correct Sample Volumes?
Correct Preservation?
Headspace/Volatiles?
Courier Tracking #: _____
Sample/COC Comments: _____

ANALYSES/METHOD REQUESTED

Matrix	Enter Number of Containers Per Sample or Field Results Below.
DW	All
EPA 200.8 (Lead)	

Sample Description/Location (see it will appear on the lab report)	Sample Date	Time	LOGGED BY (signature):		REVIEWED BY (signature):	
			Date	Time	Date	Time
1 Firoz Jan / PARS Env.	8/14/17	13:30	<i>[Signature]</i>	8/14/17	13:30	8/14/17
3 <i>[Signature]</i>	8/14	18:45	<i>[Signature]</i>	8/14	18:45	8/14/17
5 <i>[Signature]</i>	8/14	18:45	<i>[Signature]</i>	8/14	18:45	8/14/17
7						
9						

Project Comments: _____

ALS Field Services: Pickup Labor Rental Equipment
 Composite Sampling Other: _____

Deliverables: Standard CLP-like USACE

Special Processing: USACE Navy
Reportable to PADEP? Yes Lab Special

State Samples Collected In: NY NJ PA NC

PWSID #: _____
EDDS: Format Type: _____

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; Other=Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/14



Sample #	Sample ID	Sample Time	Comments
1	field Blank	9132	
	HES-1-108-CF-R	9134	
2	HES-1-112-CF-R	9140	
3	HES-1-16-DW-R	9149	
4	HES-1-16-DW-RF	9153	

Signature of Sampler:

Frey

Sample ID Guide:

Bldg ID - Flr - Rm - Direction - Type (- Faucet #)