



May 25, 2023

Spring-Ford Area School District
857 South Lewis Road
Royersford, PA 19468

Attention: Mr. Robert Hunter

Reference: Water Sampling for Lead –Royersford Elementary School
450 Spring Street, Royersford, PA 19468
Criterion's Project Number: **230731**

Dear Mr. Hunter,

On April 18, May 9 and May 23, 2023, Will Shaw, an environmental technician of Criterion Laboratories, Inc. (Criterion) collected water samples from various outlets used for drinking and cooking at the Royersford Elementary School to be analyzed for lead.

Criterion collected a 250 milliliter (ml), first draw sample at each outlet, which were analyzed at Criterion in Bensalem, PA. The method used for analysis was Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES) Method.

The Environmental Protection Agency (EPA) has established a current Action Level for lead in public drinking water of 0.015 milligrams per liter (mg/L) or 15 parts per billion (ppb).

All outlets sampled were within the EPA Action Level for lead in public drinking water.

Please feel free to call me with any questions at 215-244-1300, extension 1032.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Billingsley', is written over a light blue horizontal line.

Melissa Billingsley
Project Manager

Attachment



ICP: Results of Lead in Drinking Water

Client	<u>Spring-Ford Area School District</u>	Site Address	<u>Spring-Ford Area School District</u>	Sample Date	<u>4/18/2023</u>
Project #	<u>230731</u>		<u>Royersford Elementary School</u>	Sample Received Date	<u>4/18/2023</u>
			<u>450 Spring Street</u>		
			<u>Royersford, PA 19468</u>	Sample Analysis Date(s)	<u>4/25/2023</u>
Collected By	<u>Criterion Laboratories, Inc.</u>	Analyzed By	<u>Schwab, Andrew</u>		

Sample Number	Collected	Location / Description	Lead (ppb)
230731-07-023-11-01	4/18/2023 05:33	28 - ROY-F	19.3
230731-07-023-11-02	4/18/2023 05:34	29 - ROY-F	3.8
230731-07-023-11-03	4/18/2023 05:35	27 - ROY-DO	2.1
230731-07-023-11-04	4/18/2023 05:37	35 - ROY-KF	1.7
230731-07-023-11-05	4/18/2023 05:38	25 - ROY-TL	1.6
230731-07-023-11-06	4/18/2023 05:39	28 - ROY-CF	6.6
230731-07-023-11-07	4/18/2023 05:44	51 - ROY-BFS	< RL
230731-07-023-11-08	4/18/2023 05:45	7 - ROY-DO	12.7
230731-07-023-11-09	4/18/2023 05:46	8 - ROY-CF	5.9
230731-07-023-11-10	4/18/2023 05:47	10 - ROY-CF	12.3
230731-07-023-11-11	4/18/2023 05:48	9 - ROY-CF	7.3
230731-07-023-11-12	4/18/2023 05:49	11 - ROY-CF	6.6
230731-07-023-11-13	4/18/2023 05:50	16 - ROY-CF	6.9
230731-07-023-11-14	4/18/2023 05:51	13 - ROY-CF	10.7
230731-07-023-11-15	4/18/2023 05:52	12 - ROY-CF	11.2
230731-07-023-11-16	4/18/2023 05:53	14 - ROY-CF	15.2
230731-07-023-11-17	4/18/2023 05:54	15 - ROY-CF	12.8
230731-07-023-11-18	4/18/2023 05:56	17 - ROY-DO	2.5
230731-07-023-11-19	4/18/2023 05:57	19 - ROY-EWC	< RL
230731-07-023-11-20	4/18/2023 05:58	52 - ROY-BFS	< RL
230731-07-023-11-21	4/18/2023 05:59	6 - ROY-CF	< RL
230731-07-023-11-22	4/18/2023 06:00	5 - ROY-CF	12.2
230731-07-023-11-23	4/18/2023 06:01	4 - ROY-CF	< RL
230731-07-023-11-24	4/18/2023 06:02	3 - ROY-CF	8.8
230731-07-023-11-25	4/18/2023 06:03	2 - ROY-DO	< RL
230731-07-023-11-26	4/18/2023 06:04	1 - ROY-DO	5.9
230731-07-023-11-27	4/18/2023 06:05	37 - ROY-CF	28.8
230731-07-023-11-28	4/18/2023 06:06	53 - ROY-BFS	< RL
230731-07-023-11-29	4/18/2023 06:07	40 - ROY-CF	12.3
230731-07-023-11-30	4/18/2023 06:09	39 - ROY-CF	12.8
230731-07-023-11-31	4/18/2023 06:10	41 - ROY-CF	19.8
230731-07-023-11-32	4/18/2023 06:11	42 - ROY-CF	3.5
230731-07-023-11-33	4/18/2023 06:12	44 - ROY-CF	4.7



ICP: Results of Lead in Drinking Water

Client	<u>Spring-Ford Area School District</u>	Site Address	<u>Spring-Ford Area School District</u>	Sample Date	<u>4/18/2023</u>
Project #	<u>230731</u>		<u>Royersford Elementary School</u>	Sample Received Date	<u>4/18/2023</u>
			<u>450 Spring Street</u>		
			<u>Royersford, PA 19468</u>		
Collected By	<u>Criterion Laboratories, Inc.</u>	Analyzed By	<u>Schwab, Andrew</u>	Sample Analysis Date(s)	<u>4/25/2023</u>

Sample Number	Collected	Location / Description	Lead (ppb)
230731-07-023-11-34	4/18/2023 06:14	43 - ROY-DO	19.8
230731-07-023-11-35	4/18/2023 06:16	45 - ROY-CF	7.4
230731-07-023-11-36	4/18/2023 06:17	46 - ROY-CF	17.8
230731-07-023-11-37	4/18/2023 06:18	47 - ROY-CF	3.1
230731-07-023-11-38	4/18/2023 06:19	48 - ROY-DO	5.0
230731-07-023-11-39	4/18/2023 06:20	49 - ROY-CF	3.3
230731-07-023-11-40	4/18/2023 06:22	50 - ROY-DO	24.5
230731-07-023-11-41	4/18/2023 06:25	54 - ROY-BFS	< RL

Sample Count 41

James A. Weltz, CIH, Technical Director

Reporting limit is 2.00 ppb. Criterion Laboratories, Inc. bears no responsibility for sample collection activities of non-Criterion personnel. This report relates only to the samples reported above, and when reproduced, must be in its entirety. Estimated accuracy, precision and uncertainty data available on request. QC data associated with this sample set is within acceptable limits. Samples were received in good condition, unless otherwise noted.

Note: If your project number ends with an "R", it is a revised report and replaces the original document in full. Samples are analyzed by Criterion Laboratories, Inc. using EPA Method 200.5: Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometry and CLI Method 446

Criterion Laboratories, Inc. (ID 100424) is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the IHLAP; EMLAP and ELLAP accreditation programs for Polarized Light Microscopy (PLM), Phase Contrast Microscopy (PCM); Air-Direct Examination; and Airborne Dust, Paint, Settled Dust by Wipe and Soil for Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. Additionally, Criterion Laboratories, Inc. is certified by the Center for Disease Control (CDC) Environmental Legionella Isolation Techniques Evaluation (ELITE) Program for the determination of Legionella in water by culture and holds accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP ID 102046-0) for the determination of asbestos in bulk samples by Polarized Light Microscopy (PLM). This test report must not be used to claim product endorsement by NVLAP, NIST, AIHA or any agency of the US Government. Unless specifically listed as above, these test results are not covered under AIHA-LAP, LLC, 100424 accreditation.

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Chain of Custody

Matrix Water - Potable
Analyte Lead
Analysis Type ICP-AES
Container Bottle 250 ml
Project 230731
Client Spring-Ford Area School District
Site Address Spring-Ford Area School District
 Royersford Elementary School
 450 Spring Street
 Royersford, PA 19468

Location

Turnaround 2 Weeks

Field Tech Will Shaw

Sample Notes

Chain of Custody Notes

Additional Analytes

Sample Number	Location	Description	Received Condition	Date	Notes
230731-07-023-11-01	28	ROY-F	Good	4/18/2023	
230731-07-023-11-02	29	ROY-F	Good	4/18/2023	
230731-07-023-11-03	27	ROY-DO	Good	4/18/2023	
230731-07-023-11-04	35	ROY-KF	Good	4/18/2023	
230731-07-023-11-05	25	ROY-TL	Good	4/18/2023	
230731-07-023-11-06	28	ROY-CF	Good	4/18/2023	
230731-07-023-11-07	51	ROY-BFS	Good	4/18/2023	
230731-07-023-11-08	7	ROY-DO	Good	4/18/2023	
230731-07-023-11-09	8	ROY-CF	Good	4/18/2023	
230731-07-023-11-10	10	ROY-CF	Good	4/18/2023	
230731-07-023-11-11	9	ROY-CF	Good	4/18/2023	
230731-07-023-11-12	11	ROY-CF	Good	4/18/2023	
230731-07-023-11-13	16	ROY-CF	Good	4/18/2023	
230731-07-023-11-14	13	ROY-CF	Good	4/18/2023	
230731-07-023-11-15	12	ROY-CF	Good	4/18/2023	
230731-07-023-11-16	14	ROY-CF	Good	4/18/2023	
230731-07-023-11-17	15	ROY-CF	Good	4/18/2023	
230731-07-023-11-18	17	ROY-DO	Good	4/18/2023	
230731-07-023-11-19	19	ROY-EWC	Good	4/18/2023	
230731-07-023-11-20	52	ROY-BFS	Good	4/18/2023	
230731-07-023-11-21	6	ROY-CF	Good	4/18/2023	
230731-07-023-11-22	5	ROY-CF	Good	4/18/2023	
230731-07-023-11-23	4	ROY-CF	Good	4/18/2023	
230731-07-023-11-24	3	ROY-CF	Good	4/18/2023	
230731-07-023-11-25	2	ROY-DO	Good	4/18/2023	
230731-07-023-11-26	1	ROY-DO	Good	4/18/2023	
230731-07-023-11-27	37	ROY-CF	Good	4/18/2023	
230731-07-023-11-28	53	ROY-BFS	Good	4/18/2023	
230731-07-023-11-29	40	ROY-CF	Good	4/18/2023	



Chain of Custody

230731-07-023-11-30	39	ROY-CF	Good	4/18/2023
230731-07-023-11-31	41	ROY-CF	Good	4/18/2023
230731-07-023-11-32	42	ROY-CF	Good	4/18/2023
230731-07-023-11-33	44	ROY-CF	Good	4/18/2023
230731-07-023-11-34	43	ROY-DO	Good	4/18/2023
230731-07-023-11-35	45	ROY-CF	Good	4/18/2023
230731-07-023-11-36	46	ROY-CF	Good	4/18/2023
230731-07-023-11-37	47	ROY-CF	Good	4/18/2023
230731-07-023-11-38	48	ROY-DO	Good	4/18/2023
230731-07-023-11-39	49	ROY-CF	Good	4/18/2023
230731-07-023-11-40	50	ROY-DO	Good	4/18/2023
230731-07-023-11-41	54	ROY-BFS	Good	4/18/2023

Sample Count 41

Handling Chain Type	Handled By	Date	Time	Notes
Report Results To	Melissa Billingsley	4/18/2023		
Send Reports To	Spring-Ford Area School District	4/18/2023		
Samples Taken By	Will Shaw	4/18/2023	05:00	
Transported By	Will Shaw	4/18/2023	06:25	
Relinquished By	Will Shaw	4/18/2023	08:15	
Received By	Lauren Mitchell	4/18/2023	08:34	
Analyzed By	Andrew Schwab	4/25/2023	16:00	
Reviewed By	Andrew Schwab	4/26/2023	11:27	



ICP: Results of Lead in Drinking Water

Client	<u>Spring-Ford Area School District</u>	Site Address	<u>Spring-Ford Area School District</u>	Sample Date	<u>5/9/2023</u>
Project #	<u>230731</u>		<u>857 South Lewis Road</u>	Sample Received Date	<u>5/9/2023</u>
			<u>Royersford, PA 19468</u>		
			<u>Tweleve (12) School Buildings</u>		
			<u>Royersford Elementary</u>		
Collected By	<u>Criterion Laboratories, Inc.</u>	Analyzed By	<u>Schwab, Andrew</u>	Sample Analysis Date(s)	<u>5/10/2023</u>

Sample Number	Collected	Location / Description	Lead (ppb)
230731-07-023-20-01	5/9/2023 06:01	28-ROY-F - Royersford Elementary	5.0
230731-07-023-20-02	5/9/2023 06:04	14-ROY-CF - Royersford Elementary	16.2
230731-07-023-20-03	5/9/2023 06:06	50-ROY-DO - Royersford Elementary	< RL
230731-07-023-20-04	5/9/2023 06:09	46-ROY-CF - Royersford Elementary	3.1
230731-07-023-20-05	5/9/2023 06:12	43-ROY-DO - Royersford Elementary	< RL
230731-07-023-20-06	5/9/2023 06:14	41-ROY-CF - Royersford Elementary	11.6
230731-07-023-20-07	5/9/2023 06:16	37-ROY-CF - Royersford Elementary	3.7

Sample Count 7

James A. Weltz, CIH, Technical Director

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Chain of Custody

Matrix Water - Potable
Analyte Lead
Analysis Type ICP-AES
Container Bottle 250 ml
Project 230731
Client Spring-Ford Area School District
Site Address Spring-Ford Area School District
 857 South Lewis Road
 Royersford, PA 19468
 Tweleve (12) School Buildings
Location Royersford Elementary
Turnaround 48 Hour
Field Tech Will Shaw
Sample Notes
Chain of Custody Notes

Additional Analytes

Sample Number	Location	Description	Received Condition	Date	Notes
230731-07-023-20-01	28-ROY-F	Royersford Elementary	Good	5/9/2023	
230731-07-023-20-02	14-ROY-CF	Royersford Elementary	Good	5/9/2023	
230731-07-023-20-03	50-ROY-DO	Royersford Elementary	Good	5/9/2023	
230731-07-023-20-04	46-ROY-CF	Royersford Elementary	Good	5/9/2023	
230731-07-023-20-05	43-ROY-DO	Royersford Elementary	Good	5/9/2023	
230731-07-023-20-06	41-ROY-CF	Royersford Elementary	Good	5/9/2023	
230731-07-023-20-07	37-ROY-CF	Royersford Elementary	Good	5/9/2023	

Sample Count 7

Handling Chain Type	Handled By	Date	Time	Notes
Report Results To	Melissa Billingsley	5/9/2023		
Send Reports To	Spring-Ford Area School District	5/9/2023		
Samples Taken By	Will Shaw	5/9/2023	06:01	
Transported By	Will Shaw	5/9/2023	06:45	
Relinquished By	Will Shaw	5/9/2023	11:00	
Received By	Lauren Mitchell	5/9/2023	12:22	
Analyzed By	Andrew Schwab	5/10/2023	12:45	
Reviewed By	Andrew Schwab	5/10/2023	13:12	



ICP: Results of Lead in Drinking Water

Client	<u>Spring-Ford Area School District</u>	Site Address	<u>Spring-Ford Area School District</u>	Sample Date	<u>5/23/2023</u>
Project #	<u>230731</u>		<u>857 South Lewis Road</u>	Sample Received Date	<u>5/23/2023</u>
			<u>Royersford, PA 19468</u>		
			<u>Tweleve (12) School Buildings</u>		
			<u>Royersford Elementary</u>		
Collected By	<u>Criterion Laboratories, Inc.</u>	Analyzed By	<u>Schwab, Andrew</u>	Sample Analysis Date(s)	<u>5/24/2023</u>

Sample Number	Collected	Location / Description	Lead (ppb)
230731-07-023-22-01	5/23/2023 07:00	14-ROY-CF - Royersford Elementary	< RL

Sample Count 1

James A. Weltz, CIH, Technical Director

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Matrix Water - Potable
Analyte Lead
Analysis Type ICP-AES
Container Bottle 100 ml
Project 230731
Client Spring-Ford Area School District
Site Address Spring-Ford Area School District
 857 South Lewis Road
 Royersford, PA 19468
 Tweleve (12) School Buildings
Location Royersford Elementary
Turnaround 2 Weeks
Field Tech Will Shaw
Sample Notes
Chain of Custody Notes

Additional Analytes

Sample Number	Location	Description	Received Condition	Date	Notes
230731-07-023-22-01	14-ROY-CF	Royersford Elementary	Good	5/23/2023	

Sample Count 1

Handling Chain Type	Handled By	Date	Time	Notes
Report Results To	Melissa Billingsley	5/23/2023		
Send Reports To	Spring-Ford Area School District	5/23/2023		
Samples Taken By	Will Shaw	5/23/2023	07:00	
Transported By	Will Shaw	5/23/2023	07:05	
Relinquished By	Will Shaw	5/23/2023	08:30	
Received By	Michael Hess	5/23/2023	11:30	
Analyzed By	Andrew Schwab	5/24/2023	13:30	
Reviewed By	Andrew Schwab	5/24/2023	14:50	