



BERLIN BOROUGH SCHOOL DISTRICT
"Where Students Discover Their Potential"



Mrs. Kristen Martello
Superintendent

Cande Kristoff
Business Administrator

August 18, 2018

Berlin Borough School District
215 S. Franklin Avenue
Berlin, NJ 08009

Dear Parents/Guardians and Community Members:

The Department of Education regulations requires testing of all drinking water for lead. To protect our community and be in compliance with the Department of Education regulations, BCS conducted lead testing in July, 2017.

The results of the most recent lead testing are listed below. Three areas within the school were cited for increased lead levels. In accordance with the Department of Education regulations, BCS has implemented immediate remedial measures for those sites that tested above the action level of 15 µg/l (parts per billion [ppb]). The two water fountains noted with increased levels were removed. The sink located within classroom #6 was repurposed and given a new filter. This sink was tested a second time after being repurposed and came back under the action level (results posted below).

Results of our Testing

The table below identifies the drinking water outlets tested with the results and if any remedial actions were necessary. A copy of the test results are available in the Berlin Board of Education office for inspection by the public, during business hours and are also available on our website at www.bcsberlin.org. For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Thank you for your continued support of BCS! Please contact the school should you have any questions regarding the lead testing. I look forward to another successful year ahead.

Sincerely,

Kristen Martello

Kristen Martello
Superintendent

Results Summary Lead in Water Sample

School Name: Berlin Boro BOE - Berlin Boro Community School

Outlet Code	Sample ID	Location/Description	Result (ppb)	Above AL?
WC1	38-0615-BB01	Water Fountain across from Rm 14	ND	No
WC2	38-0615-BB02	Bottle filling station across from Rm 14 (bubbler)	ND	No
WF B WING	38-0615-BB03	Bottle filling station across from Rm 14 (filler)	ND	No
WF 1 N O	38-0615-BB04	Nurse's office bubbler (Rm 50)	ND	No
WF 2 N O	38-0615-BB05	Nurse's office exam room bubbler (Rm 51)	ND	No
CAF 1	38-0615-BB06	Cafeteria Water fountain (left side)	ND	No
CAF 2	38-0615-BB07	Cafeteria Water fountain (right side)	ND	No
ICE KIT	38-0615-BB08	Kitchen Ice Machine	ND	No
KIT PREP SINK	38-0615-BB09	Kitchen Prep Sink (left side)	5.57	No
WFR11	38-0615-BB10	Rm 11 Bubbler	2.95	No
WFR10	38-0615-BB11	Rm 10 Bubbler	3.21	No
WFR9	38-0615-BB12	Rm 9 Bubbler	5.37	No
WFR8	38-0615-BB13	Rm 8 Bubbler	7.99	No
WFR7	38-0615-BB14	Rm 7 Bubbler	6.65	No
WFR6	38-0615-BB15	Rm 6 Sink	81.1	Yes
WFR5	38-0615-BB16	Rm 5 Bubbler	4.98	No
WFR3	38-0615-BB17	Rm 3 Bubbler	ND	No
WFR4	38-0615-BB18	Rm 4 Sink	2.35	No
WF UPPER B1	38-0615-BB19	Water Fountain across from Rm 16	6.23	No
WF UPPER B2	38-0615-BB20	Water Fountain next to Rm 19 (right side)	15.7	Yes

Repurposed & Retested. Results now below actionable level.

REMOVED

Action Level (AL) ≥15.5 parts per billion (ppb)

Results Summary Lead in Water Sample

School Name: Berlin Boro BOE - Berlin Boro Community School

Outlet Code	Sample ID	Location/Description	Result (ppb)	Above AL?
WF UPPER B3	38-0615-BB21	Water Fountain next to Rm 19 (left side)	3.72	No
S ELE LOUNGE	38-0615-BB22	Faculty Rm Sink (Rm 54)	ND	No
WF A WING	38-0615-BB23	Water Fountain next to Rm 54	28.9	Yes
WC D WING 1	38-0615-BB24	Bottle filling station next to Rm 44 (bubbler)	ND	No
WC D WING 3	38-0615-BB25	Bottle filling station next to Rm 44 (filler)	ND	No
WC D WING 2	38-0615-BB26	Water Fountain next to Rm 44	5.16	No
WC C WING 1	38-0615-BB27	Water Fountain across from Rm 33 (right side)	1.84	No
WC C WING 2	38-0615-BB28	Water Fountain across from Rm 33 (left side)	ND	No
WC C WING 4	38-0615-BB29	Water Fountain next to Rm 28	ND	No
	38-0615-BB30	Water Fountain next to Rm 41 A (right side)	2.34	No
	38-0615-BB31	Water Fountain next to Rm 41 A (left side)	3.09	No
WC GYM B	38-0615-BB32	Water Fountain in Gym B	ND	No
WC WING 1	38-0615-BB33	Water Fountain across from Rm 71 (right side)	ND	No
WC WING 2	38-0615-BB34	Water Fountain across from Rm 71 (left side)	ND	No
MS TEACH LOUNGE	38-0615-BB35	Teacher's Lounge Sink (Rm 70)	ND	No
	38-0615-BB36	Deionized Blank	ND	No



Action Level (AL) ≥15.5 parts per billion (ppb)

Room 6 Sink-Retest:



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.EMSL.com> EnvChemistry2@emsl.com

EMSL Order: 011705502
CustomerID: EDI50
CustomerPO:
ProjectID:

Attn: **Tom Pruno**
Environmental Design, Inc.
5434 King Avenue
Suite 101
Pennsauken, NJ 08109

Phone: (856) 616-9516
Fax: (586) 616-9517
Received: 07/12/17 2:40 PM

Project: Berlin Boro BOE - Berlin Community School / PR-170615-1064

Analytical Results

Client Sample Description	38-0712-01	Collected:	7/12/2017	Lab ID:	011705502-0001			
Room 6 Sink								
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	7/20/2017	EG	7/20/2017	EG
Client Sample Description	38-0712-02	Collected:	7/12/2017	Lab ID:	011705502-0002			
Deionized Blank								
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	7/20/2017	EG	7/20/2017	EG

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours

or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

