

# Parsippany-Troy Hills Township Schools

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June 19, 2017

Dear Parents and Staff Members:

Our school district is committed to protecting the health of our students, our staff and you, the parents of our students. To protect our community and be in compliance with the Department of Education regulations, The Parsippany-Troy Hills Township School District has retested your school's drinking water for lead following the new State Department of Education regulations.

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for the **Knollwood Elementary School**. Through this effort, we identified and tested all drinking water and food preparation outlets. **Of the 23 samples taken, all but 4 tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).**

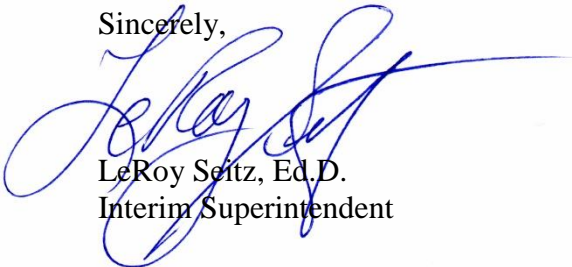
In accordance with the Department of Education regulations, the Parsippany-Troy Hills Township School District has immediately implemented remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]). This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. In these cases, a "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" sign has been posted.

The attached tables identify the drinking water outlets that tested above 15 µg/l for lead, the actual lead level, and what temporary remedial action the Parsippany-Troy Hills Township School District has taken to reduce the levels of lead at these locations.

In the coming weeks, we will be working on permanent solutions to maintain a reduced lead level in these areas and conduct follow up testing. Only after appropriate permanent remedial measures have been completed, follow up testing completed and verification that our water meets or falls below the State requirements of 15µg/l for lead, will the drinking water locations be placed back into full service.

If you would like more information, a copy of the test results is available in the main office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8:30 a.m. and 4:00 p.m. The results are also available on our website at [www.pthsd.k12.nj.us](http://www.pthsd.k12.nj.us). For more information about water quality in our schools, contact Mr. Tom Gaveglio, Supervisor of Buildings and Grounds at 973-428-7512 ext. 7302. If you are concerned about lead exposure at our school facilities or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood. For information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at [www.epa.gov/lead](http://www.epa.gov/lead), call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Sincerely,



LeRoy Seitz, Ed.D.  
Interim Superintendent



**Environmental and Laboratory Services**  
90 ½ West Blackwell St., Dover, New Jersey 07801  
(973) 989-0010 P, (973) 989-0156 F

## Analytical Results

Date: May 6, 2017  
Client: Parsippany-Troy Hills Public School District  
Address: 160 Old Bloomfield Ave  
Parsippany, NJ 07054

**Project:** Knollwood Elementary School

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-1  
Sample location: Hallway by Room 07-01  
Sampled by: S. Lamond / M. Malone  
Sample date: 04/14/17  
Time: 10:56  
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	4.40 µg/L	15 µg/L	04/29/17	01:46	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-2  
Sample location: Hallway by Room 07-02  
Sampled by: S. Lamond / M. Malone  
Sample date: 04/14/17  
Time: 10:57  
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	6.66 µg/L	15 µg/L	04/29/17	01:52	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-3  
Sample location: Room 07 Teachers Lounge  
Sampled by: S. Lamond / M. Malone  
Sample date: 04/14/17  
Time: 11:00  
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	3.80 µg/L	15 µg/L	04/29/17	01:58	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-4  
Sample location: Hallway by Main Office-01  
Sampled by: S. Lamond / M. Malone  
Sample date: 04/14/17  
Time: 11:02  
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	26.4 µg/L	15 µg/L	04/29/17	02:07	2	4.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-5  
 Sample location: Hallway by Main Office-02  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:03  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	31.2 µg/L	15 µg/L	04/29/17	02:16	2	4.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-6  
 Sample location: Nurses Office 01  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:04  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	7.13 µg/L	15 µg/L	04/29/17	02:34	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-7  
 Sample location: Nurses Office 02  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:05  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	5.57 µg/L	15 µg/L	04/29/17	02:41	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-8  
 Sample location: Room 06  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:07  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	14.6 µg/L	15 µg/L	04/29/17	02:47	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-9  
 Sample location: Room 01  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:08  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	4.66 µg/L	15 µg/L	04/29/17	02:53	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-10  
 Sample location: Room 05a  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:10  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	12.7 µg/L	15 µg/L	04/29/17	03:05	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-11  
 Sample location: Room 02  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:11  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	7.42 µg/L	15 µg/L	04/29/17	03:28	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-12  
 Sample location: Room 04  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:13  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	2.36 µg/L	15 µg/L	04/29/17	03:34	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-13  
 Sample location: Room 03  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:14  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	3.70 µg/L	15 µg/L	04/29/17	03:40	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-14  
 Sample location: Room 16  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:17  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	16.0 µg/L	15 µg/L	04/29/17	03:47	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-15  
 Sample location: Room 15  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:18  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	<2.00 µg/L (1)	15 µg/L	04/29/17	03:58	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-16  
 Sample location: Room 14  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:19  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	3.69 µg/L	15 µg/L	04/29/17	04:05	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-17  
 Sample location: Hallway by Room 13-01  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:21  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	10.2 µg/L	15 µg/L	04/29/17	04:11	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-18  
 Sample location: Hallway by Room 13-02  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:22  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	5.10 µg/L	15 µg/L	04/29/17	04:17	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-19  
 Sample location: Room 13  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:23  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	16.5 µg/L	15 µg/L	04/29/17	04:23	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-20  
 Sample location: Room 10  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:24  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	<2.00 µg/L (1)	15 µg/L	04/29/17	04:29	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-21  
 Sample location: Room 12  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:25  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	<2.00 µg/L (1)	15 µg/L	04/29/17	04:35	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-22  
 Sample location: Room 11  
 Sampled by: S. Lamond / M. Malone  
 Sample date: 04/14/17  
 Time: 11:26  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	5.50 µg/L	15 µg/L	04/29/17	04:41	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-23  
 Sample location: Hallway by Room 17  
 Sampled by: S. Lamond M. Malone  
 Sample date: 04/14/17  
 Time: 11:27  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM5113B	3.79 µg/L	15 µg/L	04/29/17	04:47	1	2.00 µg/L

Sample description: Drinking Water / 1<sup>st</sup> Draw / DWS5216-24  
 Sample location: Field Blank  
 Sampled by: S. Lamond M. Malone  
 Sample date: 04/14/17  
 Time: 10:55  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM5113B	2.00 µg/L	15 µg/L	04/29/17	04:53	1	2.00 µg/L

µg/L micrograms per liter

Notes: (1) Sample locations have Aqua Pure Filters in place.

All testing was done within the required holding time.

I certify that these samples were analyzed in accordance with procedures approved by the New Jersey Department of Environmental Protection.

Susan VanVeen (For SR)  
 Susan VanVeen, Lab Manager  
 NJ Laboratory Certification ID # 1-1013

May 11, 2017  
 Date

## Knollwood Elementary School

Sample Location	First Draw Result in µg/l (ppb)	Remedial Action
Hallway By Main Office Left Side, Drinking Fountain Bubbler KES-FB-By Main Office 01	26.4	Disconnected Drinking Fountain, Additional Drinking Water Fountains In Hallway
Hallway By Main Office Right Side, Drinking Fountain Bubbler KES-FB-By Main Office 02	31.2	Disconnected Drinking Fountain, Additional Drinking Water Fountains In Hallway
Room 16, Drinking Fountain Bubbler, KES-FB-16	16.0	Disconnected Drinking Fountain, Bottled water provided
Room 13, Drinking Fountain Bubbler, KES-FB-13	16.5	Disconnected Drinking Fountain, Bottled water provided

### 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.