

EXECUTIVE SUMMARY:

The South Plainfield Township Board of Education requested lead in water testing of potable water outlets at Grant School, 305 Cromwell Place, South Plainfield, NJ 07080.

Previous Testing

No information related to previous testing was available.

Recent Testing (11/11/16)

In order to assess the building water outlets, a full testing of all potable outlets was performed on November 11, 2016.

Reportedly the outlets were not flushed or used on the day of testing.

First draw and flush samples (30 second) were collected of 15 water fountains and sinks.

All results were below the Lead and Copper action level of 15 ppb.

See Section 3 Discussion of Results

1 RESULTS TABLE:

Sample #	Location	1 st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
1	At Room 12 – Left	FD	<1.0	15
2	At Room 12 – Right	FD	<1.0	15
3	At Room 17	FD	<1.0	15
4	At Room 30 – Left	FD	<1.0	15
5	At Room 30 – Right	FD	9.0	15
6	Kitchen – Left	FD	5.1	15
7	Kitchen – Right	FD	11.5	15
8	At Gym – Left	FD	1.5	15
9	At Gym – Right	FD	<1.0	15
10	At Principal	FD	<1.0	15
11	Nurse's Office	FD	3.0	15
12	Nurse's Office (Lavatory)	FD	2.8	15
13	Faculty Room	FD	<1.0	15
14	At Room 65 – Left	FD	Out of Order	15
15	At Room 65 – Right	FD	Out of Order	15
16	At Room 69	FD	<1.0	15
17	At Room 48	FD	<1.0	15
18	Field Blank	FD	<1.0	15

⁽¹⁾ EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.

FD – First Draw Sample

FL – Flush Sample (30 sec)

NA – Not Analyzed

2 SAMPLING METHODOLOGY:

First Draw Samples - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO₃) as a preservative.

Flush Samples – After collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to Pace Analytical, Melville, NY for total lead in potable water analysis (method E200.8 IOC).

3 DISCUSSION OF RESULTS:

All lead in water results were below the EPA Lead and Copper action level of 15 ppb. No analysis was performed for copper in water.

4 RECOMMENDATIONS:

Short term:

- No further action is recommended in regards to outlets test