



1210 N. Cedar Street, Suite A
Lansing, Michigan 48906
517-702-0470
Fax 517-702-0477
www.triterra.us

June 21, 2016
(16-1598-02)

Okemos Public Schools
Steve Lathrop, Director of Operations
4406 Okemos Road
Okemos, Michigan 48864

SUBJECT: *Okemos Public Schools Water Sampling – Lead in Drinking Water
Central Elementary, 4406 Okemos Road, Okemos, Michigan 48864*

Dear Mr. Lathrop,

This letter is a summary of drinking water sampling procedures and results for the Central Elementary building located at 4406 Okemos Road, Okemos, Michigan. As requested, these sampling events were designed to offer an assessment of whether water at likely drinking sources within this location contains lead at or above the EPA action level of 15 parts per billion (ppb), and as such does not offer a comprehensive assessment of the entire building and its drinking water system.

SCOPE OF SERVICES

Triterra personnel mobilized to the site on May 4, 2016 and conducted the prescribed sampling protocol. This included the following:

- A 250 milliliter (ml) flush sample (three minute flush time) from the tap closest to the water service inlet, in order to determine whether an external source of lead contamination exists;
- A 250 ml initial draw sample from five drinking water source fixtures within the building (fountain, bubbler, kitchen sink, etc.), to determine whether the fixture itself may be a source of lead contamination, and;
- A 250 ml flush sample (30 seconds flush time) from the same five fixtures within the building.

These specimens, as well as a 250 ml field blank (distilled water), were then submitted to Merit Laboratories, Inc. (East Lansing, Michigan) for analysis via EPA Method 200.8 Revision 5.4. All samples were collected in laboratory-prepared nitric acid-preserved 250 ml Nalgene bottles, in order to meet the EPA-prescribed 250 ml sample size requirement.

FINDINGS

Analytical results are included as Table 1, attached, as well as within the included Merit Laboratories, Inc. analytical report (Attachment 1).



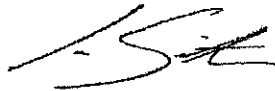
The analytical results from the collected samples do not indicate that the Central Elementary building has lead within drinking water at levels that exceed the EPA action level (15 ppb) at the time of testing.

RECOMMENDATIONS

It is Triterra's opinion that a more comprehensive set of sampling for might be beneficial. During this sampling event, it was noted that multiple types of potential drinking water sources are present within the building. A more comprehensive sampling strategy would offer more conclusive information as to if any individual type(s) of fixture poses a concern.

Should you have any questions or comments regarding this correspondence, please contact the undersigned at (517) 702-0470.

Sincerely,



Ian O. Smith, PhD
Materials Scientist



Don McNabb, CGWP, CP
CEO | Principal Scientist

Attachments

TABLE 1

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100



TABLE 1

SAMPLE RESULTS - LEAD IN WATER

5/4/2016

Project: Okemos Public Schools - Lead Testing

Location: Central Elementary School

Project Number: 16-1598-02

Personnel: DKM

Sample	Description	Location	Volume	Matrix	Result (ppb)
CEN-W-01	Flush Sample - 3 min	Boiler Room - Service Line	250 ml	Drinking Water	ND
CEN-W-02	Initial Draw Sample	Kitchen - Sink	250 ml	Drinking Water	ND
CEN-W-03	Flush Sample - 30 sec	Kitchen - Sink	250 ml	Drinking Water	-
CEN-W-04	Initial Draw Sample	Hallway Near Child Care - Fountain	250 ml	Drinking Water	ND
CEN-W-05	Flush Sample - 30 sec	Hallway Near Child Care - Fountain	250 ml	Drinking Water	-
CEN-W-06	Initial Draw Sample	Hallway Near Room 102 - Fountain	250 ml	Drinking Water	ND
CEN-W-07	Flush Sample - 30 sec	Hallway Near Room 102 - Fountain	250 ml	Drinking Water	-
CEN-W-08	Initial Draw Sample	Room 119 - Sink Bubbler	250 ml	Drinking Water	ND
CEN-W-09	Flush Sample - 30 sec	Room 119 - Sink Bubbler	250 ml	Drinking Water	-
CEN-W-10	Initial Draw Sample	Room 105- Sink Bubbler	250 ml	Drinking Water	ND
CEN-W-11	Flush Sample - 30 sec	Room 105 - Sink Bubbler	250 ml	Drinking Water	-
CEN-Blank	Field Blank	-	250 ml	Drinking Water	ND

Notes:

EPA Lead in Drinking Water action level is 15 ppb

Initial Draw Sample is taken prior to any usage of the water source, following at least 8 hours of idle time

Flush Sample is taken following a prescribed amount of time with water running

Bold text indicates sample is above EPA action level