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September 19, 2017

Findings Report

Mr. Oswaldo Suarez
Facilities Maintenance
Oak Grove School D68
1700 S. O'Plaine Rd.
Green Oaks, IL 60048

**Re: Findings Report for Potable Water Lead Testing
Oak Grove School D68**

Dear Mr. Suarez,

This Findings Report outlines the scope of work completed, protocols that were followed, lab results and recommendations for the drinking water quality lead testing conducted at Oak Grove School D68 in Green Oaks, Lake County, Illinois.

1.0 Scope of Work and Potable Water Testing Protocol for Lead Concentration

Deigan & Associates, LLC (D&A) was retained by Oak Grove School D68 to sample and conduct lab analysis of lead (Pb) concentration for consumptive water fixtures at the school building. The scope and approach to conducting this work is further defined below:

- Mr. Suarez of Oak Grove School D68 conducted a site reconnaissance of the school to identify all potable water fountain outlets to plot on a floor plan. Potable water outlets identified on floor plans were provided to D&A, and later sample ID locations were added to the floor plans (**Figure 1**).
- On September 5th, 2017, at or shortly after 3:00 pm., Mr. Suarez ran each water fountain for a minimum of 30 seconds to ensure each water fountain had been used with the timeframe specified in IL Public Act 099-0922.
- On September 6th, 2017 a sampling professional from D&A collected a total of 52 samples at 26 locations of drinking fountain outlets in Oak Grove Elementary School.
- Water samples were collected from each drinking fountain directly to laboratory-certified pre-preserved clean sample bottles and labeled with a unique sample ID number with a location prefix. Drinking fountains were also labelled with this same unique location prefix number.

- A first-draw 250 milliliter sample of water was collected, then the drinking fountain was flushed for 30 seconds, and then a second-draw 250 milliliter sample was collected.
- Water samples were sent to Test America Laboratories, Inc. in University Park, IL., an Illinois Environmental Protection Agency (IEPA) Accredited Testing Laboratory. USEPA Test Method 200.8 was utilized to analyze the samples for total lead (Pb) concentrations.
- D&A interpreted the analytical results in comparison to the USEPA's drinking water action level for lead in water of 15 parts per billion [ppb]). If any of the samples taken in the school exceed 5 parts per billion, the school district is required by Public Act 099-0922 to notify parents of the exceedances.

2.0 Results of Potable Water Sampling at Oak Grove School D68

The results of the potable water sampling were compared to USEPA's primary drinking water standard for lead in water, which is set at 15 parts per billion (ppb) or 15 µg/L. **Table 1¹** summarizes the laboratory data by school and fixture location.

Oak Grove Elementary School

Out of 52 samples at 26 separate locations, zero surpassed the lead action level of 15 ppb for drinking water. Additionally, zero samples surpassed the notification limit of 5 ppb concentration of lead. The highest recorded concentration was 1.0 µg/L or (1 ppb) obtained from OG17A. This sample was a flush sample. All samples were obtained from drinking fountains in the school. Sample locations and nearby classrooms can be found in **Figure 1**. Full laboratory analysis results for Oak Grove School are included in the TestAmerica report included as **Appendix A**.

3.0 Recommendations

D&A reviewed the TestAmerica lab data reports and determined no sample locations from Oak Grove Elementary School exceeded the EPA drinking water action level for lead at 15 parts per billion (ppb) or 15 µg/L. In addition, none of the samples exceeded 5 parts per billion (ppb) or 5 µg/L. As such, the school is allowed to report the results to parents using the school's website.

No further analysis or testing of drinking fountains at Oak Grove Elementary School is required at this time.

¹ A spreadsheet in the format prescribed by the Illinois Department of Public Health is being provided in addition to this report for submittal by the Oak Grove School District 68 via email to: DPH.LeadH2O@illinois.gov.

We appreciate the opportunity to conduct this work for Oak Grove School District 68.
Please do not hesitate to contact the undersigned for additional information or follow-up.

Sincerely,
Deigan & Associates, LLC



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