Dustin Fisk

From: Amanda Enbysk <aenbysk@efulcrum.net>
Sent: Wednesday, February 8, 2017 3:29 PM
To: Keith Colee
Cc: Dustin Fisk; Ryan Mathews
Subject: Drinking Water Sampling - Ridgeview Elementary Follow-Up Sampling (1/28/2017) Results
Attachments: Rpt_1702038_Kennewick_SD_-_Ridgeview_Elementary_Follow-Up_Samp_Final_v1.pdf

Keith-

Fulcrum received results of drinking water sampling post fixture replacement and aggressive flush at Ridgeview Elementary from Fremont Analytical. Summaries of results for lead and copper are provided below and analytical results are attached.

Lead-

The District replaced three fixtures identified with elevated lead from the initial sampling on 12/21/2016. After a fixtures were replaced and underwent a 24-hour precondition flush, Fulcrum returned to sample replaced fixtures for lead concentrations. A summary of results is below:

Sample Identification and Location	Type of Fixture	Initial Lead Results (µg/L)	Follow-Up Lead Results (µg/L)
RVE12817-P-KF-03: Kitchen, S. Fixture	**Kitchen Faucet**	**22**	**15.8**
RVE12817-P-CF-17: Outside room 13	Classroom Faucet	20	4.05
RVE12817-P-CF-26: Support Services 2	Classroom Faucet	13	6.54
RVE12817-P-CF-41: Laboratory Spike	Lead and Copper Spike	13	15.6
RVE12817-P-CF-42: Laboratory Blank	Distilled Blank	<1	<1.0
EPA Action Level		**15**	**15**

Based on the post-fixture replacement results, fixture replacement was successful at reducing lead concentrations in all but the faucet along the south wall in the kitchen. The results indicate the source of lead is likely from plumbing components behind the fixture. Fulcrum recommends this fixture remain out of use until the source of lead is identified and remediated.

Copper-

The District completed aggressive flushing of one fixture identified with elevated copper from the initial sampling on 12/21/2016. Fulcrum returned to sample the fixture on 1/28/2017. Results are presented below:

Sample Identification and Location	Type of Fixture	Initial Copper Results (µg/L)	Follow-Up Copper Results (µg/L)
RVE12817-P-CF-38: Music Room	Classroom Faucet	1,200	1,180

RVE12817-P-CF-41: Laboratory Spike	Lead and Copper Spike	1,200	1,320
RVE12817-P-CF-42: Laboratory Blank	Distilled Blank	<1	<0.5
EPA Action Level		**1,300**	**1,300**

Based on the aggressive flush results, the aggressive flush was successful at reducing copper concentration below both the action level and the included spike sample. As such, this fixture can be put back into service.

Please let me know if you have any questions.

Thank you,

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