August 14th, 2024

Matt Pfeiffer, Chief Engineer
Ralph H. Metcalfe Federal Building
77 W. Jackson
Chicago, IL 60601

GSA Baseline Testing and Results for Lead, Copper, Total Coliform and *Legionella.*

Executive Summary

Ralph H. Metcalfe Federal Building
On July 30th, 2024, Marcin Gron, ASSE 12080 certified sampled 77 W. Jackson, Chicago IL, 60601 according to GSA's PBS 1000.7A to provide a baseline of the quality of the water. This sampling was of Lead, Copper, Total Coliform and *Legionella* from shower outlets where water can form a mist and from fixtures primarily intended for human consumption.

Unless otherwise noted, all lead and cooper samples are pulled from the domestic cold water side and "1st draw". All fixtures sampled for Total Coliform were disinfected prior to sampling and were collected immediately after sampling for lead and copper. All Legionella samples were collected by the standard "ISO 11731:2017 Detection and Enumeration of Legionella and CDC: Procedures for the Recovery of Legionella from the Environment. Ref: BSR / ASHRAE Standard 188-2018" is used for identification of *legionella*. *Legionella* species recovered from culture method include *Legionella pneumophila and Legionella* species not pneumophila. All *Legionella pneumophila* isolates are run against Serogroup 1 reagent and Serogroup 2-15 reagent. *Legionella* species not pneumophila isolates are screened in *Legionella* species reagent. (This species reagent includes *micdadei, bozemanii, dumoffi, longbeachae, jordanis, gormanii, anisa* and *feelei*).

Positive Results Summary

Fixture	Lead	Limit	Copper	Limit	Total Coliform	Limit	Legionella	Limit
1st Fl Child Care Center Sink N/A.243 Kitchen Sink		<15 ug/L		1,300 ug/L		P/A	**2.4 CFU/mL**	1.0 CFU/mL
1FL Child Care Center Sink N/A.244 Kitchen Sink							**8.0 CFU/mL**	1.0 CFU/mL
1FL Child Care Center Sink N/A.245 Kitchen Sink							**5.2 CFU/mL**	1.0 CFU/mL
FL20 Corridor 422 - Drinking Fountain							**17.6 CFU/mL**	

FL20 Corridor 422 - Bottle Filler							**15.6 CFU/mL**	1.0 CFU/mL
FL9 Corridor.391 Drinking Fountain							**42.8 CFU/mL**	1.0 CFU/mL
5th FL Kitchen.319 Kitchen Sink							**3.2 CFU/mL**	1.0 CFU/mL
FL 25 Kitchen 2519A .361 Hot Water Heater / Storage Tank (Elec)	**18 ug/L**	<15 ug/L						
10th FL Kitchen 1001.332 Kitchen Sink	**480 ug/L**	<15ug/L	**4,600 ug/L**	<1,300 ug/L				
5th FL Kitchen .319 Kitchen Sink	**170 ug/L**	<15ug/L	**1,500 ug/L**	<1,300ug/L				

<The following corrective actions are recommended>
Notification, remove the impacted outlets from service, post signage, and notify tenants. Immediately send results to the waterquality@gsa.gov mailbox and copy the GSA Lease Administration Manager. Forward all results to the building's Water Management Team.

Remediation
Start remediation actions such as flushing the system and adjusting operational parameters in accordance with industry-standard response actions and guidance from the facilities Water Management Team. Retest the impacted fixtures once the remediation actions are complete to ensure that the corrective actions are effective in controlling the hazard before returning the outlet back into service.

Global Water Technology appreciates your confidence and taking a proactive approach on reducing metals and microbiological risk such as legionella and the possibility of Legionnaire's Disease in your facility. Please let us know if there are any questions, concerns, or further action items you would prefer to be taken.

Sincerely,

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