

## **Overview of Testing Results for Lead in Drinking Water and Corrective Actions for Naval Station Norfolk YC (Building U40)**

The Navy is committed to maintaining safe drinking water on its installations. City water supplied to the Navy and the Navy's water distribution system is regularly tested and in compliance with the Safe Drinking Water Act. Because lead exposure is a particular concern for children, and lead may be added to drinking water through the pipes, fittings, solder, and fixtures inside a building, the Environmental Protection Agency (EPA) recommends, but does not mandate, that we test the lead content of drinking water in priority areas such as youth centers (YCs), child development group homes (CDGHs), and child development centers (CDCs). The Navy has adopted the recommendation as policy.

Navy environmental personnel conducted lead testing at the Naval Station Norfolk YC in accordance with Navy and EPA guidelines. Samples from various locations in the YC were sent to a state-certified laboratory for analysis.

At the Naval Station Norfolk YC, outlets used for drinking, cooking, and washing were tested. Out of **16** samples collected, no water outlets tested above the EPA-recommended screening level for lead in drinking water in schools and childcare centers of 20 parts per billion (ppb).

A copy of all test results is enclosed for your information. The test results are presented in two tables:

- Table 1 **Summary of Results** summarizes the data by category of use (e.g., drinking, cooking, washing).
- Table 2 **Summary Statistics** summarizes all the data.

A floor plan of the Naval Station Norfolk YC has also been included to show the locations of the fixtures that were sampled.

**Table 1** provides a description of each sampling location using three columns; *Category*, *Sampling ID*, and *Outlet Description*. The *Category* column gives information about whether the outlet is used for drinking water (water fountain), cooking (food preparation), or washing (primarily hand-washing or brushing teeth). The *Sample ID* column is the identification used to label each sample bottle. The *Outlet Description* column contains additional information to describe the outlet sampled under each category.

The next set of columns in **Table 1** provide *Initial Sampling Results*, and for those locations that exceeded the recommended screening level of 20 ppb the *Re-sampling Results*.

EPA sampling protocol requires water to not be used for between 8 and 18 hours prior to first draw sampling. Therefore, *Initial Sampling Results* were from first draw samples collected early in the morning before the YC opened and before any water was used. The *Initial Sampling Results* also indicate whether resampling is required and the date that fixtures greater than 20 ppb were secured.

The *Re-sampling Results*, *Corrective Actions*, and *Post Remediation Sampling Results* columns are annotated N/A (not applicable) since all the samples at the Naval Station Norfolk YC were within EPA recommended levels.

To learn more about lead in drinking water in schools and day care centers visit the following EPA website: <https://www.epa.gov/dwreginfo/lead-drinking-water-schools-and-child-care-facilities>.

To learn more about your home's public water supplier, see their annual water quality report: [https://www.cnic.navy.mil/regions/cnrma/om/environmental\\_support/water\\_quality\\_information.html](https://www.cnic.navy.mil/regions/cnrma/om/environmental_support/water_quality_information.html)

To answer any questions you may have on the sampling program contact, please contact us at 757-677-6642. If you have any health questions or concerns, you are encouraged to contact your health care provider or, if you are a TRICARE beneficiary, use the Mid-Atlantic Appointment Center to schedule an appointment with your primary care provider at 1-866-645-4584.

Enclosures:

1. Complete Test Results
2. Floor Plan of the Naval Station Norfolk YC

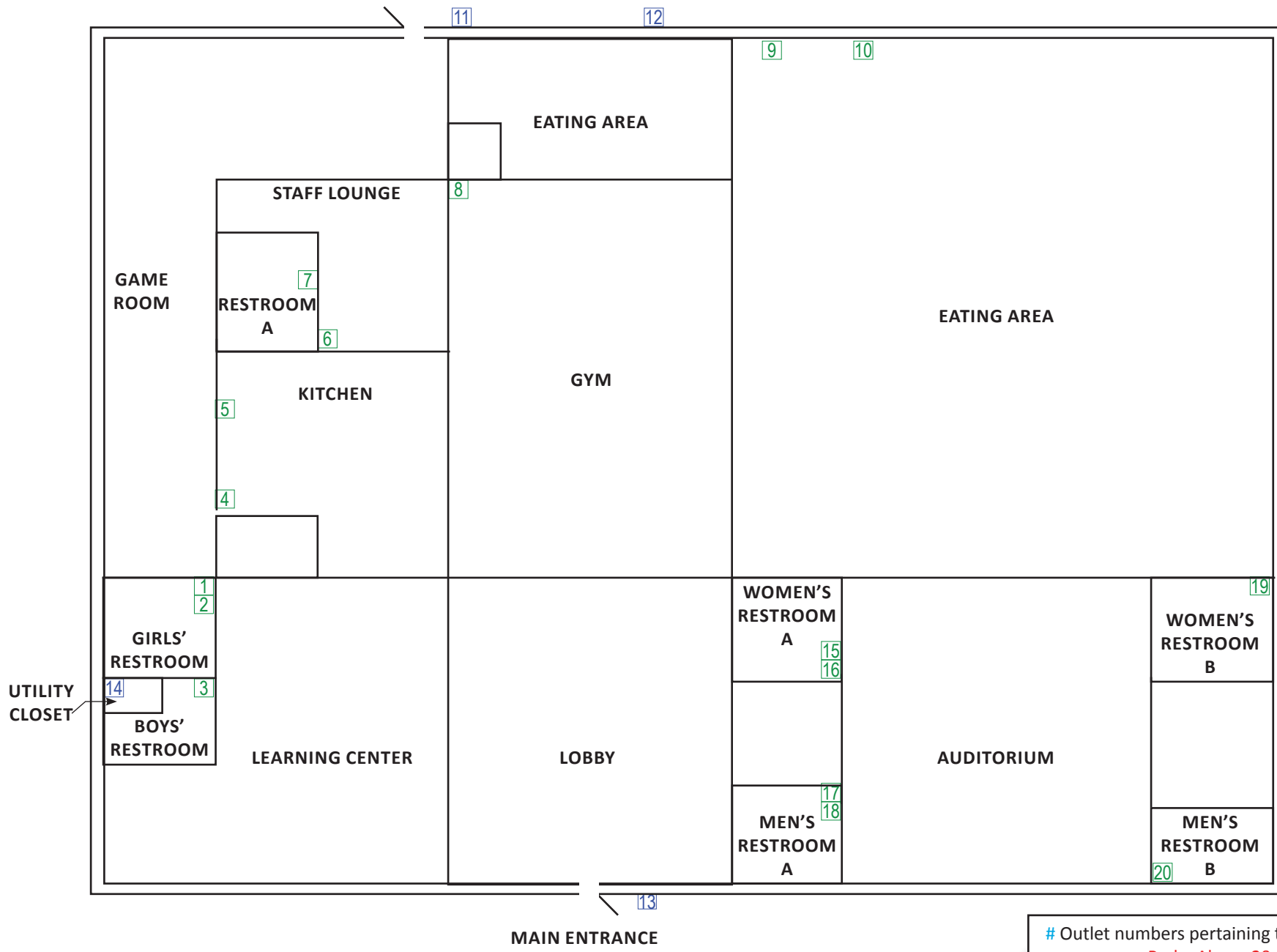
Results for Testing Lead in Drinking Water at NSN Youth Center, Building U40

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION					INITIAL SAMPLING RESULTS		RE-SAMPLING RESULTS				CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS		
CATEGORY	SAMPLE ID NO.	SAMPLE ID	Outlet Description	Comments	First Draw (ppb)	Retest required?	Date Fixture Secured?	Lead Screening Level of 20ppb				Description	Recommended Level = 20ppb	
								Water Fountain 15 min. Follow up Flush Sample - Collected day before First Draw Sampling (ppb)	First Draw (ppb)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)			First Draw (ppb)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
<b>SAMPLING DATE</b>					11/14/2017			N/A	N/A	N/A		N/A		
<b>RESULTS DATE</b>					11/27/2017			N/A	N/A	N/A		N/A		
DRINKING	5	NS-U40-K-WFC-FD	Kitchen water fountain (cooler)		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DRINKING	8	NS-U40-GYM-WFC-FD	Gym water fountain (cooler)		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DRINKING	9	NS-U40-EATING-WFC-FD	Eating Area water fountain (cooler)		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
COOKING	4	NS-U40-K-K-FD	Main kitchen sink		2	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
COOKING	6	NS-U40-LOUNGE-K-FD	Staff lounge kitchen sink for dishwashing, food prep		2	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	1	NS-U40-BATHG-HHWA-FD	Girls' Restroom high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	2	NS-U40-BATHG-HHWA-FD	Girls' Restroom high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	3	NS-U40-BATHB-HHW-FD	Boys' Restroom high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	7	NS-U40-BATHA-HHW-FD	Restroom A high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	10	NS-U40-EATING-HHW-FD	Eating Area high hand washing faucet		1	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	15	NS-U40-BATHWA-HHWA-FD	Women's Restroom A high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	16	NS-U40-BATHWA-HHWA-FD	Women's Restroom A high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	17	NS-U40-BATHMA-HHWA-FD	Men's Restroom A high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	18	NS-U40-BATHMA-HHWA-FD	Men's Restroom A high hand washing faucet		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	19	NS-U40-BATHWB-HHW-FD	Women's Restroom B high hand washing faucet		6	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WASHING	20	NS-U40-BATHMB-HHW-FD	Men's Restroom B high hand washing faucet		8	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 2. Summary Statistics

CATEGORY	INITIAL SAMPLING RESULTS		RE-SAMPLING RESULTS			POST
	Lead Screening Level of 20ppb					
	First Draw		Water Fountain Follow up Flush Sample - Collected day before First Draw Sampling	First Draw (ppb)	Follow up Flush - Collected 30 seconds after First Draw Sampling	First Draw
Total Drinking	3		N/A	N/A	N/A	N/A
Total Drinking > 20 ppb	0		N/A	N/A	N/A	N/A
Total Cooking	2		N/A	N/A	N/A	N/A
Total Cooking > 20 ppb	0		N/A	N/A	N/A	N/A
Total Washing	11		N/A	N/A	N/A	N/A
Total Washing > 20 ppb	0		N/A	N/A	N/A	N/A
Total Samples	16		N/A	N/A	N/A	N/A
Total Samples > 20 ppb	0		N/A	N/A	N/A	N/A



# Outlet numbers pertaining to the floor plan.  
 Red = Above 20 ppb  
 Green = Below 20 ppb  
 Blue = Not Sampled

1 BUILDING U40 - First Floor Plan

NOT TO SCALE

Note: No outlets are located on the basement and second floor so the basement and second floor plans are not shown

Results for Testing Lead in Drinking Water at NSN Youth Center, Building U40

No.	Type of Fixture	Location Description	Exceeded?
1	High hand washing faucet	Girls' Restroom	No
2	High hand washing faucet	Girls' Restroom	No
3	High hand washing faucet	Boys' Restroom	No
4	Kitchen sink used for food preparation and dishwashing	Kitchen	No
5	Water fountain (cooler)	Kitchen	No
6	Kitchen sink for dishwashing and food preparation	Staff Lounge	No
7	High hand washing faucet	Restroom A	No
8	Water fountain (cooler)	Gym	No
9	Water fountain (cooler)	Eating Area	No
10	High hand washing faucet	Eating Area	No
11	Hose bib	Outside on the south side of Building U40	Not sampled
12	Hose bib	Outside on the south side of Building U40	Not sampled
13	Hose bib	Outside on the north side of Building U40	Not sampled
14	Utility Sink	Utility Room	Not sampled
15	High hand washing faucet	Women's Restroom A	No
16	High hand washing faucet	Women's Restroom A	No
17	High hand washing faucet	Men's Restroom A	No
18	High hand washing faucet	Men's Restroom A	No
19	High hand washing faucet	Women's Restroom B	No
20	High hand washing faucet	Men's Restroom B	No

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