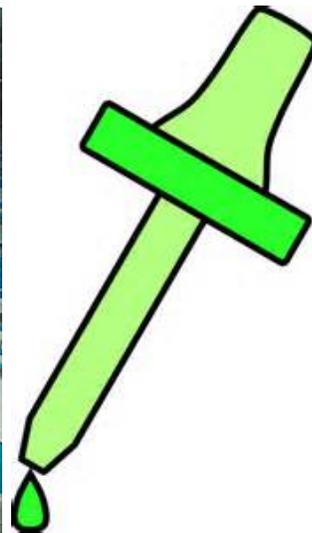


Testing Results for Lead in Drinking Water for JEB Little Creek-Fort Story CDC - Building 531

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 EPA recommends, but does not mandate, that we test the lead content of drinking water in priority areas such as youth centers (YC), child development centers (CDCs), and child development group homes (CDGHs).

Navy environmental personnel conducted lead testing at the JEB Little Creek-Fort Story CDC - Building 531 in accordance with Navy and EPA guidelines. Samples from various locations in the CDC were sent to a state-certified laboratory for analysis.

At the JEB Little Creek-Fort Story CDC - Building 531, outlets used for drinking and cooking, as well as outlets used for hand washing were tested. Out of 58 samples collected, five water outlets initially tested above the EPA recommended level for lead in drinking water in schools and childcare centers of 20 parts per billion (ppb). One part per billion is equal to one drop of water in an Olympic-size swimming pool.



The five sites which had results above recommended levels were a kitchen faucet used by adults to rinse dishes before placing them in the dishwasher and four hand-washing sinks located in rooms 18A, 21B, 23B, and 24A. The dishwashing apparatus was replaced, and a sign was posted at this sink informing the adults who use this area to not use it for drinking water.

Follow-up sampling at the four hand-washing sinks was conducted after removing the faucet aerators. A **faucet aerator** (or tap aerator) is often found at the tip of modern indoor water

faucets. Without an aerator, water usually flows out of a faucet as one big stream. An aerator spreads this stream into many little droplets, which helps save water and reduce splashing. However, the aerator and screen can trap debris which can accumulate lead.



Follow-up sampling confirmed the source of lead contamination in the hand-washing sinks to be the faucet in room 21B and the faucet aerators in rooms 18A, 23B, and 24A. These four locations were permanently disconnected and the pipes capped since they were seldom used.

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.

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)/teeth brushing, or washing (primarily hand-washing). The *Sample ID* column is the identifier 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 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, the *Initial Sampling Results* include a sub-column for *First Draw* samples collected early in the morning before the CDC opened and before any water was used. Additional sub-columns indicate whether *Retesting* is required and the *Date Secured* for fixtures greater than 20 ppb. Outlets that exceeded 20 ppb are highlighted in yellow.

The *Re-sampling Results* include sub-columns for *First Draw* and *Flush samples* (15 minutes prior to and 30 seconds after First Draw) which help determine the source of lead. For cooking and washing outlets, aerators were removed before retesting:

- If the lead concentration of both the first draw and the 30 second flush sample resulted in lower than 20 ppb lead, the aerators were the source of lead and the outlet can be used for drinking if the aerators are cleaned or replaced. The hand washing sinks in rooms 18A,

23B, and 24A fit in this category. However, these sinks have been permanently disconnected and the pipes capped since they were seldom used.

- If the lead concentration of the resampled first draw (but not the follow up 30 second flush) was greater than 20 ppb, the fixture was the source of lead. These fixtures can be used if water is flushed for 30 seconds before first use of the day or if the fixtures are replaced and retesting confirms that the new fixtures do not leach lead. The bathroom sink in room 21B fits in this category. However, this sink has been permanently disconnected and the pipes capped since it was seldom used.
- If the lead concentration of the 30 second flush sample was greater than 20 ppb and greater than the lead concentration of the first draw resample, the source of lead is the plumbing upstream of the outlet. These outlets should be disconnected unless upstream plumbing is replaced. None of the fixtures at the Fort Story Building 531 CDC fit in this category.

The *Corrective Actions* column describes actions that have been taken to remediate the source of lead. In the event that future fixtures or upstream piping is replaced, there are columns for *Post Remediation Sampling* data that will be documented to confirm that these corrective actions were successful in reducing lead below 20 ppb.

To learn more about lead in drinking water schools and day care centers visit this EPA website at: http://water.epa.gov/drink/info/lead/schools_index.cfm.

To learn more about your home's public water supplier, see their annual water quality report: Norfolk: <http://www.norfolk.gov/index.aspx?nid=657>

Virginia Beach: <http://www.vbgov.com/government/departments/public-utilities/water-quality/Pages/default.aspx>

Chesapeake: http://www.cityofchesapeake.net/Government/City-Departments/Departments/Public-Utilities-Department/chesapeake-water/water_quality.htm

Navy Water Quality Reports: https://navfac.navy.mil/navfac_worldwide/atlantic/fecs/mid-atlantic/about_us/environmental_norfolk/environmental_compliance.html

To answer any questions you may have on the sampling program contact the Joint Expeditionary Base Little Creek-Fort Story Public Affairs Officer at 757-462-8425. If you have any health questions or concerns, we encourage you to call your health care provider or, if you are a TRICARE beneficiary, contact the Regional Nurse Advice Line (1-800-TRICARE, press option 1) or use the Regional Appointment Center at 1-866-645-4584 to schedule an appointment with your primary care provider.

Priority Areas Lead Testing and Corrective Actions (March 2013)
 JEB Little Creek-Fort Story Child Development Center
 Building 531

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING		
			Recommended Level = 20ppb							Recommended Level = 20ppb		
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured?	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)	Description	First Draw (ppb)	Retest required?	Date Fixture Secured?
SAMPLING DATE			1/24/2013				3/5/2013	3/5/2013				
RESULTS DATE			2/14/2013				3/11/2013	3/11/2013				
DRINKING	10-PRE-SCHOOL-WF	Water Fountain	3	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	13-TODD2-WF	Water Fountain	2	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	17-TODD1-WF	Water Fountain	1	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	19-PRE-TODD2-WF	Water Fountain	4	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	20-PRE-TODD1-WF	Water Fountain	3	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	25-INFANT1-WF	Water Fountain	4	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	27A-HALL WF	LEFT Water Fountain	2	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	27B-HALL WF	RIGHT Water Fountain	2	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
DRINKING	22-INFANT2-WF	Water Fountain	4	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
COOKING	5A-KITCHEN	Hand Washing Sink	4	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
COOKING	5B-KITCHEN	LEFT cooking faucet in front of handwashing sink.	9	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
COOKING	5C-KITCHEN	RIGHT cooking faucet in front of handwashing sink.	2	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
COOKING	5D-KITCHEN	Cooking faucet adjacent to Hose Sprayer Dishwashing Sink.	2	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
COOKING	26-STAFF LOUNGE	Cooking faucet	1	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
TEETH-BRUSHING	19-PRE-TODD2-HW	Hand Washing Sink - Teethbrushing	2	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
TEETH-BRUSHING	20-PRE-TODD1-HW	Hand Washing Sink - Teethbrushing	3	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
TEETH-BRUSHING	22-INFANT2-HW	Hand Washing Sink - Teethbrushing	7	NO	N/A	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	N/A
TEETH-BRUSHING	25-INFANT-HW	Handwashing Sink-Teethbrushing	4	NO	N/A	N/A	N/A	N/A	routine Control Measures Only	N/A	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (March 2013)
 JEB Little Creek-Fort Story Child Development Center
 Building 531

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING		
			CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	Recommended Level = 20ppb						Recommended Level = 20ppb
First Draw (ppb)	Retest required?	Date Fixture Secured?				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)	Description	First Draw (ppb)	Retest required?	Date Fixture Secured?
SAMPLING DATE			1/24/2013				3/5/2013	3/5/2013				
RESULTS DATE			2/14/2013				3/11/2013	3/11/2013				
WASHING	2-BATHROOM	Hand Washing Sink	5	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	4-BATHROOM	Hand Washing Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	5F-KITCHEN	Hose Sprayer Dishwashing Sink	78	YES	2/5/2013	N/A	43	19	The dishwashing apparatus was replaced. Sign was posted at this sink informing the adults who use this area to not use it for drinking water.	N/A	N/A	N/A
WASHING	10-PRE-SCHOOL-CT	Changing Table Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	11A-PRE-SCHOOL-B	LEFT Bathroom Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	11B-PRE-SCHOOL-B	RIGHT Bathroom Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	12A-TODD2-B	LEFT Bathroom Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	12B-TODD2-B	RIGHT Bathroom Sink	4	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	13-TODD2-CT	Changing Table Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	14-HALL RESTROOM	LEFT Restroom	14	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	15-HALL RESTROOM	RIGHT Restroom	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	16A-TODD1-B	LEFT Bathroom Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	16B-TODD1-B	RIGHT Bathroom Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	17-TODD1-CT	Changing Table Sink	non-detect	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	18A-PRE-TODD2-B	LEFT Bathroom Sink	46	YES	2/5/2013	N/A	5	1	Outlet Permanently Disconnected	N/A	N/A	N/A
WASHING	18B-PRE-TODD2-B	RIGHT Bathroom Sink	18	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	19-PRE-TODD2-CT	Changing Table Sink	1	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	19A-PRE-TODD2-TW	LEFT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (March 2013)
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SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING		
			Recommended Level = 20ppb			Recommended Level = 20ppb				Recommended Level = 20ppb		
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured?	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)	Description	First Draw (ppb)	Retest required?	Date Fixture Secured?
SAMPLING DATE			1/24/2013			3/5/2013	3/5/2013					
RESULTS DATE			2/14/2013			3/11/2013	3/11/2013					
WASHING	19B-PRE-TODD2-TW	RIGHT Toys Washing Sink	non-detect	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	20-PRE-TODD1-CT	Changing Table Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	20A-PRE-TODD1-TW	LEFT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	20B-PRE-TODD1-TW	RIGHT Toys Washing Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	21A-PRE-TODD1-B	Left bathroom sink	11	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	21B-PRE-TODD1-B	Right bathroom sink	36	YES	2/8/2013	N/A	23	5	Outlet Permanently Disconnected	N/A	N/A	N/A
WASHING	22-INFANT2-CT	Changing Table Sink	12	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	22A-INFANT2-TW	LEFT Toys Washing Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	22B-INFANT2-TW	RIGHT Toys Washing Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	23A-INFANT2-B	Left bathroom sink	20	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	23B-INFANT2-B	Right bathroom sink	112	YES	2/8/2013	N/A	11	14	Outlet Permanently Disconnected	N/A	N/A	N/A
WASHING	24A-INFANT1-B	Left bathroom sink	25	YES	2/8/2013	N/A	18	4	Outlet Permanently Disconnected	N/A	N/A	N/A
WASHING	24B-INFANT1-B	Right bathroom sink	14	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	25-INFANT1-CT	Changing Table Sink	3	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	25A-INFANT1-TW	LEFT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	25B-INFANT1-TW	RIGHT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	13A-TODD2-TW	LEFT Toys Washing Sink	7	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	13B-TODD2-TW	RIGHT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (March 2013)
 JEB Little Creek-Fort Story Child Development Center
 Building 531

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING		
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	Recommended Level = 20ppb							Recommended Level = 20ppb		
			First Draw (ppb)	Retest required?	Date Fixture Secured?	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)	Description	First Draw (ppb)	Retest required?	Date Fixture Secured?
SAMPLING DATE			1/24/2013				3/5/2013	3/5/2013				
RESULTS DATE			2/14/2013				3/11/2013	3/11/2013				
WASHING	11A-PRE-SCHOOL-TW	LEFT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	11B-PRE-SCHOOL-TW	RIGHT Toys Washing Sink	4	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	17A-TODD1-TW	LEFT Toys Washing Sink	2	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A
WASHING	17B-TODD1-TW	RIGHT Toys Washing Sink	5	NO	N/A	N/A	N/A	N/A	Not required	N/A	N/A	N/A

Note: Affected outlets were immediately secured after receiving verbal communication from the lab on results exceeding the recommended level of 20ppb.

Table 2. Summary Statistics

CATEGORY	INITIAL SAMPLING RESULTS	RE-SAMPLING RESULTS			POST REMEDIATION RESULTS
	Recommended Level = 20ppb				
	First Draw (ppb)	Water Fountain 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)
Total Drinking	9	0	0	0	0
Total Drinking > 20 ppb	0	0	0	0	0
Total Cook/Brush	9	0	0	0	0
Total Cook/Brush > 20 ppb	0	0	0	0	0
Total Washing	40	0	5	5	0
Total Washing > 20 ppb	5	0	2	0	0
Total Samples	58	0	5	5	0
Total Samples > 20 ppb	5	0	2	0	0