



DEPARTMENT OF THE NAVY
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY
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Ser N4/302
7 Jun 22

From: Commander, Joint Expeditionary Base Little Creek-Fort Story
To: Parents and Staff

Subj: JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY CHILD
DEVELOPMENT CENTER ANNEX BUILDING 3364 DRINKING WATER
RESULTS

Encl: (1) Test Result Overview
(2) Sample Summary Results Table
(3) Floor Plan of the Child Development Control Annex

Dear Parent or Caregiver:

I want to make you aware of the latest developments regarding our efforts to address elevated lead levels in drinking water that was originally sampled on 24 September 2021 at the Joint Expeditionary Base Little Creek-Fort Story (JEBLCFS) Child Development Center (CDC) Annex, Building 3364.

On 20 October 2021, I sent a letter to parents and staff with water testing results of 29 CDC Annex outlets or sink faucets. Of these, four outlets initially tested higher than the 15 parts per billion (ppb) screening level for lead. This is the Navy's designated screening level for action with additional testing and corrective measures. These four outlets are for hand washing only and not for drinking water. Furthermore, three of the outlets (13, 16, and 17) are located in the infant rooms and are not in use. Implemented corrective actions consisting of plumbing component replacement on all four outlets has reduced lead below the 15 ppb screening level, details are provided in Enclosure (1) and (2).

I have attached the complete set of test results, which include the list of sampling locations and the purpose of the water outlet. The enclosures provide details on which outlets require corrective action and the actions taken. For outlets where corrective actions were implemented, results of follow-on sampling are provided. A building floor plan indicating locations where initial water sampling results exceeded 15 ppb is provided in Enclosure (3).

For your information, I am also including links to additional drinking water quality resources:

Enlisted Program Authorization (EPA, lead in drinking water in schools and day care centers): <https://www.epa.gov/ground-water-and-drinking-water/mou-reducing-lead-levels-drinking-water-schools-and-child-care>

Subj: JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY CHILD DEVELOPMENT CENTER ANNEX BUILDING 3364 DRINKING WATER RESULTS

Annual water quality report for the installation:

https://www.cnmc.navy.mil/regions/cnrma/om/environmental_support/water_quality_information.html

To learn more about the installation's public water supplier, see their annual water quality report: <https://www.norfolk.gov/657/Water-Quality-Reports>.

To answer any questions you may have on the sampling program contact the JEBLCFS Public Affairs Officer at (757) 462-8425.

If you have any health related questions or concerns about lead exposure, I encouraged you to contact your health care provider or if you are a TRICARE beneficiary, use the Hampton Roads Appointment Center to schedule an appointment with your primary care provider at 1 (866) 645-4584.

Rest assured that my team and I will continue to monitor and test water quality, as well as take actions where necessary at the CDC Annex to ensure our drinking water complies with Navy policy and EPA regulations. I am committed to the safety and health of all personnel and family members using our facilities and will keep you updated on this issue.

Sincerely,


M. L. WITHERSPOON
Captain, United States Navy
Commander

Copy to:
Commander, Navy Installations Command (N45)
Naval Facilities (N45)
Branch Health Clinic Boone
Naval Medical Center Portsmouth

Test Results Overview

Overview of Testing Results for Lead in Drinking Water and Corrective Actions for Joint Expeditionary Base Little Creek CDC Annex (Building 3364)

The Navy is committed to maintaining safe drinking water on its installations. The City of Norfolk supplies water 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 due to its presence in pipes, fittings, solder, and fixtures inside a building, the Navy policy requires that we test the lead content of drinking water in priority areas such as youth centers, child development group homes, and child development centers (CDCs) every five years.

Navy environmental personnel conducted lead testing at the Joint Expeditionary Base Little Creek (JEBLC) CDC Annex in accordance with Navy and EPA guidelines. Samples from various locations in the CDC Annex were sent to James R. Reed & Associates, a state-certified laboratory, for analysis.

The four samples that exceeded the screening level of 15 ppb were located at outlets 13, 16, 17, and 22, which tested at 77 ppb, 52 ppb, 41 ppb, and 44 ppb, respectively. Since follow-up testing indicated that the elevated levels of lead appeared to be caused by the components of the faucets and/or the supply piping and valves, these faucets were replaced and new supply piping and valves were installed. Testing conducted after implementation of these corrective measures shows that these outlets are below the screening level of 15 ppb and no further corrective action is needed.

A copy of all test results is enclosed for your information. The test results are presented in two tables in Enclosure (2).

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

Table 1 provides a description of each sampling location using three columns; *Category*, *Sampling ID*, *Sample ID No.*, 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 *Sample ID No.* column corresponds to the location on the floor plan. 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 15 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 CDC Annex opened and before any water was used. The *Initial Sampling Results* also indicate whether resampling is required and the date that fixtures greater than 15 ppb were secured. Outlets that exceeded 15 ppb are highlighted in yellow.

The *Re-sampling Results* includes columns for *First Draw* and flushing samples which help determine the source of lead.

The *Corrective Actions* column describes actions that were taken to remediate the source of lead. In the event that fixtures or upstream piping are replaced (e.g. outlets 13, 16, 17, and 22), there are columns for post corrective action sampling data.

- Initial sampling of all outlets indicated outlets 13, 16, 17, and 22 exceeded Navy's screening level. Results indicated that the faucets and/or plumbing materials were the source of lead contamination. We secured these outlets from use as we investigated and conducted permanent corrective actions.
- If the lead concentration of the resampled first draw (but not the follow up 30 second flush) was greater than 15 ppb, the fixture was the source of lead. Outlet 16 in room 103 fits in this category. The faucet and supply valves were replaced at this outlet and follow-on testing shows that the results are less than 15 ppb.
- If the lead concentration of the first draw was greater than 15 ppb and sample following the 30 second flush was also greater than 15 ppb, the source of lead is likely both the faucet and the upstream plumbing. Outlet 13 in room 102 fits in this category. The faucet and supply valves were replaced at this outlet and follow-on testing shows that the results are less than 15 ppb.
- Outlet 22, tested below 15 ppb for both the first draw and the 30 second flush when resampled. Outlet 22 had the faucet replaced before the follow-up testing due to a leak. It is likely that the fixture was the source of the lead due since the resample was below the screening level.
- Outlet 17 after a second faucet replacement, tested at 16 ppb for the first draw sample and 1 ppb for the flushing sample.
 - Outlet 17 retested at 43 ppb following extensive flushing. The piping and valves for the room were replaced.
 - Resampling results for outlet 17 were 4 ppb for the initial draw and non-detectable for the flush sample, both of which are below screening levels. No further corrective action is needed.

A floor plan of the JEBLC CDC Annex has also been included to show the locations for the fixtures that originally exceeded 15 ppb in Enclosure (3).

Sample Summary Results Table
Priority Areas Lead Testing and Corrective Actions
Joint Expeditionary Base Little Creek Child Development Center Annex
Building 3364

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION				INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS		CORRECTIVE ACTIONS	POST-CORRECTIVE ACTION SAMPLING RESULTS		CORRECTIVE ACTIONS	POST-CORRECTIVE ACTION SAMPLING RESULTS		CORRECTIVE ACTIONS	POST-CORRECTIVE ACTION SAMPLING RESULTS	
				Lead Screening Level of 15 ppb			Lead Screening Level of 15 ppb			Recommended Level = 15 ppb			Recommended Level = 15 ppb				
CATEGORY	SAMPLE ID	SAMPLE ID NO.	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured? (See Note 1)	First Draw (ppb)	Follow up Flush ³ 30 Seconds after first draw (ppb)	Description	First Draw (ppb) (See note 2)	Follow up Flush 30 Seconds after first draw (ppb)	Description	First Draw (ppb) (See note 2)	Follow up Flush 30 Seconds after first draw (ppb)	Description	First Draw (ppb) (See note 2)	Follow up Flush 60 Seconds after first draw (ppb)
SAMPLING DATE				9/24/2021			10/14/2021	10/14/2021		1/13/2022			3/16/2022			5/18/2022	
RESULTS DATE				10/8/2021			10/19/2021	10/19/2021		1/21/2022			3/28/2022			5/24/2022	
DRINKING	LC-3364-RM121-HHW-FD	24	FAUCET BEHIND FRONT DESK	6	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
DRINKING	LC-3364-RM8-HHW-FD	27	KITCHENETTE FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
DRINKING	LC-3364-K8-K-FD	29	KITCHEN FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM119-(TB-LHW-A)-FD	2	PRESHOOLERS BATHROOM FAUCET	1	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM119-(TB-LHW-B)-FD	3	PRESHOOLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
TEETH BRUSHING/HAND WASHING	LC-3364-RM100-(TB-HHW)-FD	8	PRE-TODDLERS CHANGING TABLE FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
TEETH BRUSHING/HAND WASHING	LC-3364-RM101-(TB-HHW)-FD	9	PRE-TODDLERS CHANGING TABLE FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
TEETH BRUSHING/HAND WASHING	LC-3364-RM143-(TB-HHW)-FD	20	TODDLERS CHANGING TABLE FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
TEETH BRUSHING/HAND WASHING	LC-3364-RM144-(TB-HHW)-FD	21	TODDLERS CHANGING TABLE FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
TEETH BRUSHING/HAND WASHING	LC-3364-RM119-HHW-FD	1	PRESHOOLERS CHANGING TABLE FAUCET	1	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM122-HHW-FD	4	STAFF LOUNGE FAUCET	2	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM21-HHW-FD	5	STAFF LOUNGE BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM100-LHW(A)-FD	6	PRE-TODDLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM100-LHW(B)-FD	7	PRE-TODDLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM101-LHW(A)-FD	10	PRE-TODDLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM101-LHW(B)-FD	11	PRE-TODDLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM102-LHW(A)-FD	12	INFANTS BATHROOM FAUCET	14	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM102-LHW(B)-FD	13	INFANTS BATHROOM FAUCET	77	YES	10/8/2021	83	58	Affected faucet and supply valves were replaced and resampled with results below EPA recommended screening level of 15 ppb.	12	1	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM102-HHW-FD	14	INFANTS CHANGING TABLE FAUCET	4	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM103-HHW-FD	15	INFANTS CHANGING TABLE FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM103-LHW(A)-FD	16	INFANTS BATHROOM FAUCET	52	YES	10/8/2021	84	4	Affected faucet and supply valves were replaced and resampled with results below EPA recommended screening level.	13	2	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM103-LHW(B)-FD	17	INFANTS BATHROOM FAUCET	41	YES	10/8/2021	7	2	Affected faucet, supply lines and supply valves were replaced. Routine flushing determined to be sufficient to bring levels below EPA recommended screening level.	16	1	Flushing	43	N/A	Piping and valves leading to the outlet will be replaced from the main feed line, then were flushed.	4	non-detect
HAND WASHING	LC-3364-RM143-LHW(A)-FD	18	TODDLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM143-LHW(B)-FD	19	TODDLERS BATHROOM FAUCET	non-detect	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM144-LHW(A)-FD	22	TODDLERS BATHROOM FAUCET	44	YES	10/8/2021	non-detect	non-detect	Leaking faucet was replaced and resampled with results below EPA recommended screening level	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM144-LHW(B)-FD	23	TODDLERS BATHROOM FAUCET	1	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM10-HHW-FD	25	WOMEN'S BATHROOM FAUCET	1	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM9-HHW-FD	26	MEN'S BATHROOM	4	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-K8-HHW-FD	28	KITCHEN FAUCET	1	NO	N/A	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A	Routine Control Measures Only	N/A	N/A

Notes:
¹ Affected outlets were immediately secured after receiving verbal communication from the lab on results exceeding the recommended level of 15 ppb.
² Post-remediation sampling was initially conducted on 10/14/2021. Additional corrective actions were implemented and final results for sample collected on 1/13/2022, 3/16/2022, and 5/18/2022 are shown on the table.
³ No follow up Water Fountain/Chiller sampline was needed

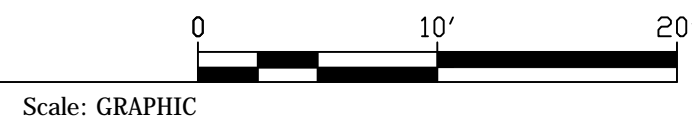
Table 2. Summary Statistics

CATEGORY	SAMPLING RESULTS	
	First Draw	Follow up Flush
Total Drinking Initial	3	N/A
Total Drinking > 15 ppb	0	N/A
Total Cooking (Only)	N/A	N/A
Total Cooking > 15 ppb	N/A	N/A
Total Washing Initial	26	N/A
Total Washing > 15 ppb	4	N/A
Washing Samples (1st Resample)	4	4
Washing Samples > 15 ppb	2	1
Washing Samples (2nd Resample)	3	3
Washing Samples > 15 ppb	1	0
Washing Samples (3rd Resample)	1	0
Washing Samples > 15 ppb	1	0
Washing Samples (4th Resample)	1	1
Washing Samples > 15 ppb	0	0



JEBLC CHILD DEVELOPMENT CENTER - BUILDING 3364

FIRST FLOOR PLAN



Legend:

- Initial Screening ≤ 15 ppb
- Initial Screening > 15 ppb, Post Corrective Actions ≤ 15 ppb
- Testing Not Required

VERIFIED FLOOR PLAN

Enclosure (3)



This plan belongs to the CNRMA GeoReadiness Center (GRC). Plans and maps from the GRC are believed to be accurate but this is not guaranteed and the burden for determining accuracy, completeness and appropriateness for use rests solely on the user accessing this information. Data owners should be consulted if field verification or additional information is needed. This material is For Official Use Only. Reproduction, distribution, publication, or exhibition of this data is strictly prohibited without the written consent of the CNRMA GRC.