DEPARTMENT OF THE NAVY
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY
2600 TARAWA COURT, SUITE 100
VIRGINIA BEACH, VA 23459-3297

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Ser N4/ 592
20 Oct 21

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

Subj: JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY CHILD DEVELOPMENT CENTER'S DRINKING WATER

Encl: (1) Overview of Results and Actions
(2) Complete Test Results
(3) Floor Plan of the CDC Annex

The safety and health of children and staff at our Child Development Centers (CDCs), Child Development Group Homes, schools, and youth centers is my top priority. In my earlier letter announcing our lead in drinking water testing program, I told you we are testing all water outlets that could potentially be used for cooking, washing, or drinking at the CDC Annex.

This week, we received the results of recent water testing of 29 CDC drinking water outlets. Of these, four outlets tested higher than Navy screening level of 15 parts per billion (ppb) for lead, which is the level requiring action to include additional testing and corrective measures. Regarding these four outlets: three are children's sinks, which are not in use in infant rooms 102 and 103, and one outlet is a children's sink in toddler room 144 that is used only for hand washing. Thus, children do not drink water from these outlets.

Lead in drinking water typically comes from the existing plumbing inside buildings including service lines, fittings, solder, water coolers, or water faucets. Lead is more likely to be found in drinking water when the water has not been run for an extended period of time and has been sitting in the system (e.g., overnight, weekends, etc.).

The lead levels were higher than the screening level at sinks in rooms 102, 103, and 144. After receiving the test results, we immediately took these water outlets out of service. Details on the corrective actions we have already taken and plan to take to reduce the amount of lead in water at these fixtures, are discussed in enclosure (1). Also enclosed are Complete Test Results and a Floor Plan of the CDC Annex that indicates the location of the fixtures that had lead levels higher than the screening level (see enclosures (2) and (3)).

Here are some additional resources you may find informative:

EPA (lead in drinking water in schools and day care centers)
https://www.epa.gov/dwreginfo/lead-drinking-water-schools-and-child-care-facilities

Annual water quality report for the installation
https://www.cnic.navy.mil/regions/cnrma/om/environmental_support/water_quality_information.html

If you have any health questions or concerns, I encourage 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.

Subj: JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY CHILD DEVELOPMENT CENTER'S DRINKING WATER

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 lead levels are lower than screening levels. 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,

CAPT USN

Michael T. Witherspoon
Captain, United States Navy
Commander

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

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 (YCs), child development group homes (CDGHs), and child development centers (CDCs) every five years.

Navy environmental personnel conducted lead testing at the Joint Expeditionary Base Little Creek Child Development Center 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.

At the Joint Expeditionary Base Little Creek CDC Annex, outlets used for drinking, cooking, and washing were tested. Out of ***29*** samples collected, ***4*** water outlets initially tested above the Navy screening level of 15 parts per billion (ppb) for lead in drinking water in schools and CDCs.

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 will be replaced and new supply piping and valves will be installed as needed. Testing will be conducted after implementation of these corrective measures to confirm that these outlets are below the screening level of 15 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, and washing).

- Table 2 **Summary Statistics** summarizes all the data.

A floor plan of the Joint Expeditionary Base Little Creek CDC Annex has also been included to show the locations for the fixtures that exceeded 15 ppb.

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.

- 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. 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. Outlet 16 in room 103 fits in this category. The faucet will be replaced at this outlet and follow-on testing will be performed to ensure that the results are less than 15 ppb before returning the sink to service.
- If the lead concentration of the first draw was greater than 15ppb 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 upstream plumbing will be replaced as needed for this outlet. Follow-on testing will be performed to ensure that the results are less than 15 ppb. Additional corrective actions will be taken before the sink is returned to service if results are above 15 ppb.
- Two outlets, Outlet 17 and 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.

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 and 16), there are columns for future sampling data that with show if the corrective actions were successful in reducing lead below15 ppb.

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 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 Joint Expeditionary Base Little Creek Public Affairs Officer at (757) 462-8425. 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 Hampton Roads Appointment Center to schedule an appointment with your primary care provider at 1-866-645-4584.

Sample Summary Results Table
Priority Areas Lead Testing and Corrective Actions (SEP 2021)
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	
					Lead Screening Level of 15 ppb			Lead Screening Level of 15 ppb				Recommeded Level = 15 ppb	
CATEGORY	SAMPLE ID	SAMPLE ID NO.	Outlet Description	Comments	First Draw (ppb)	Retest required?	Date Fixture Secured? (See Note 1)	Water Fountain/Chiller 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) (See note 2)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
SAMPLING DATE					9/24/2021			N/A	10/14/2021	10/14/2021		mm/dd/yyyy	
RESULTS DATE					10/8/2021			N/A	10/19/2021	10/19/2021		mm/dd/yyyy	
DRINKING	LC-3364-RM121-HHW-FD	24	FAUCET BEHIND FRONT DESK		6	NO	N/A	N/A	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	N/A	Routine Control Measures Only	N/A	N/A
DRINKING	LC-3364-K8-K-FD	29	KITCHEN FAUCET	Used for filling water jugs	non-detect	NO	N/A	N/A	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	N/A	83	58	Affected bathroom sink will remain disconnected until completion of corrective action (faucet and supply valve replacement) with resampling results are at or below 15 ppb	N/A	N/A
HAND WASHING	LC-3364-RM102-HHW-FD	14	INFANTS CHANGING TABLE FAUCET		4	NO	N/A	N/A	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	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	N/A	84	4	Affected bathroom sink will remain disconnected until completion of corrective action (faucet replacement) with resampling results are at or below 15 ppb	N/A	N/A
HAND WASHING	LC-3364-RM103-LHW(B)-FD	17	INFANTS BATHROOM FAUCET		41	YES	10/8/2021	N/A	7	2	Routine Control Measures Only	N/A	N/A
HAND WASHING	LC-3364-RM143-LHW(A)-FD	18	TODDLERS BATHROOM FAUCET		non-detect	NO	N/A	N/A	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	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	N/A	non-detect	non-detect	Sink was leaking and was replaced. Resampling results were below 15 ppb	N/A	N/A
HAND WASHING	LC-3364-RM144-LHW(B)-FD	23	TODDLERS BATHROOM FAUCET		1	NO	N/A	N/A	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	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	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	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 [ENTER DATE]. Additional [CORRECTIVE ACTIONS DESCRIPTION] were implemented and final results below recommended level of 15ppb for sample collected on [ENTER DATE] are shown on the table.

Table 2. Summary Statistics

CATEGORY	INITIAL SAMPLING RESULTS	RE-SAMPLING RESULTS			POST-CORRECTIVE ACTION RESULTS
	Lead Screening Level of 15 ppb				
	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	**3**	**0**	**0**	**0**	**0**
Total Drinking > 15 ppb	**0**	**0**	**0**	**0**	**0**
Total Cook	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Total Cook> 15 ppb	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Total Washing	**26**	**0**	**4**	**4**	**0**
Total Washing > 15 ppb	**4**	**0**	**2**	**1**	**0**
Total Samples	**29**	**0**	**4**	**4**	**0**
Total Samples > 15 ppb	**4**	**0**	**2**	**1**	**0**

Legend:

- Screening ≤ 15 ppb
- Screening > 15 ppb, Resample ≤ 15 ppb
- Screening > 15 ppb, Resample > 15 ppb
- Testing Not Required

JEBLC CHILD DEVELOPMENT CENTER - BUILDING 3364

FIRST FLOOR PLAN

0 10' 20'

Scale: GRAPHIC

NORTH

VERIFIED FLOOR PLAN - FOR OFFICIAL USE ONLY

NAVFAC MIDLANT GeoReadiness Center

NFA100001762B4_3364_01_FP.dwg 12 DEC 2011

Building 3364

First Floor

BD-GIS Mid-Atlantic
Norfolk, VA 23511
(757) 444-4716
PWGNORVA_GIS_WEB@nmci-isf.com

Enclosure (3)