DEPARTMENT OF THE NAVY

NAVAL STATION NEWPORT
690 PEARY STREET
NEWPORT, RHODE ISLAND 02841-1522

5090 IN REPLY REFER TO:
Ser N00/077

FEB 27 2015

Dear Parent or Caregiver:

The safety and wellness of our children at the John F. Kennedy Child Development Center (Building 1376) and the School Age Care and Teen Center Facility (Building 1297) are a continuous priority. In my earlier letter announcing our lead in drinking water testing program, I mentioned that we are lead testing all cold water outlets used for cooking, drinking, and hand washing at these facilities. Lead in drinking water may come from the existing plumbing inside of buildings including fittings, solder, water fountains or water faucets.

The test results were received for 87 drinking water outlets. Of these, one outlet at Building 1297, which is located on the 2nd floor of School Age Care in the Teen Center, was higher than 20 parts per billion (ppb) of lead. To put that number into perspective, one part per billion is equal to one drop of water in an Olympic size swimming pool. At or above 20 ppb, the Environmental Protection Agency (EPA) recommends additional testing and corrective measures. The same faucet also exceeded the Rhode Island Lead Poison Prevention limit of 15 ppb on the first draw, but is lead safe by these regulations since the follow-on flush sample tested below 15 ppb.

Upon this discovery, we immediately took the hand washing faucet in Building 1297 out of service. After removing and cleaning the faucet aerator, retesting showed the lead level in the water was below the EPA and State of Rhode Island unsafe levels. A summary of the test results for each building are provided in enclosures (1) and (2).

I know this issue will generate more questions than this letter can answer. As such, I invite you to attend an informational forum that I will host at the Naval Station Newport's Teen Center, upstairs at Building 1297, at 1600 hours, on Wednesday, 4 March 2015 and Thursday, 5 March 2015. This will be an opportunity for you to speak

To learn more about lead in drinking water or to access additional water quality resources please visit the following sites:

EPA (lead in drinking water schools and day care centers):
http://water.epa.gov/drink/info/lead/schools_index.cfm

Annual water quality report at your home:
City of Newport:
http://www.cityofnewport.com/departments/utilities/water/consumer-confidence-report

Town of Portsmouth: http://www.portsmouthwater.org/reports.html

Navy Water Quality Reports:
http://www.cnic.navy.mil/regions/cnrma/installations/ns_newport/om/environmental_support/drinking_water.html

Drinking Water Taste, Odor, and Color:
http://water.epa.gov/drink/contaminants/secondarystandards.cfm
http://www.mass.gov/eea/docs/dep/water/drinking/alpha/a-thru-h/color.doc

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Rhode Island Department of Health
http://www.health.ri.gov/healthrisks/poisoning/lead/

If you have any health questions or concerns, I encourage you to contact your health care provider or, if you are a TRICARE beneficiary, please contact the Naval Health Care Clinic New England at either (401) 841-4179 or (401) 841-6776. For general questions and concerns, please contact Darlene Ward, Naval Station Newport Drinking Water Program Manager at 401-841-6376 or darlene.ward@navy.mil.

Rest assured that my team and I will continue to monitor and test water quality at these facilities to ensure our drinking water lead levels are lower than the unsafe EPA and Rhode Island 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,

D. R. D. BOYER
Captain, U.S. Navy
Commanding Officer

Enclosure(s): (1) Summary of Test Results for Building 1297
(2) Summary of Test Results for Building 1376
(3) Overview of Testing Results Handout
(4) Lead in Drinking Water Fact Sheet
(5) Preventing Lead Problems Handout
(6) Faucet Aerators Cleaning Procedures Handout

Priority Areas Lead Testing and Corrective Actions (December 2014)
School Age Care Facility (Building 1297)

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS	
			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)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
SAMPLING DATE			12/2/2014			mm/dd/yyyy	12/11/2014	12/11/2014		mm/dd/yyyy	
RESULTS DATE			12/8/2014			mm/dd/yyyy	12/16/2014	12/16/2014		mm/dd/yyyy	
DRINKING	NP-B1297-CAFÉ-HHW-FD	Café (right faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1297-HALL-TCWFB-FD	Teen Center Water Fountain	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
COOKING	NP-B1297-TCK-K-FD	Teen Center Kitchen	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-CAFÉ-LHW-FD	Café (left faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-BATH-HHW-FD	Staff Restroom	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-ARTRM-HHW(A)-FD	Art Room (left faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-ARTRM0HHW(B)-FD	Art Room (right faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-SCIRM-HHW-FD	Science Area	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	BP-B1297-UT-LAUNDRM-HHW-FD	Laundry Room	3	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-UT-JANRM-HHW-FD	Janitor Closet	3	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-BBATH-LHW(A)-FD	Boy's Bathroom (left faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-BBATH-LHW(B)-FD	Boy's Bathroom (right faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	BNP-B1297-GBATH-LHW(A)-FD	Girl's Bathroom (left faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-GBATH-LHW(B)-FD	Girl's Bathroom (right faucet)	2	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-TCRM-HHW-FD	Teen Center Meeting Room	21	YES	12/8/2014	N/A	16	2	Follow on sampling and testing of this site was under 20 ppb for both the first draw and flush sample after the aerator was cleaned. The faucet was also replaced with a lead free fixture. The new fixture will be retested 6 months after installation.	N/A	N/A
HAND WASHING	NP-B1297-TCGBATH-LHW(A)-FD	Teen Center Girl's Bathroom (left faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-TCGBATH-LHW(B)-FD	Teen Center Girl's Bathroom (right faucet)	2	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-TCBBATH-LHW(A)-FD	Teen Center Boy's Bathroom (left faucet)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-TCBBATH-LHW(B)-FD	Teen Center Boy's Bathroom (right faucet)	1	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1297-TCUT-HHW-FD	Teen Center Janitor Closet	6	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (December 2014)
School Age Care Facility (Building 1297)

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	2	N/A	0	0	0
Total Drinking > 20 ppb	0	N/A	0	0	0
Total Cooking/Brushing Teeth	1	N/A	0	0	0
Total Cooking/Brush Teeth > 20 ppb	0	N/A	0	0	0
Total Hand Washing	17	N/A	1	1	0
Total Hand Washing > 20 ppb	1	N/A	0	0	0
Total Samples	20	N/A	1	1	0
Total Samples > 20 ppb	1	N/A	0	0	0

Priority Areas Lead Testing and Corrective Actions (December 2014)
JFK Child Development Center (Building 1376)

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS	
			Recommended Level = 20ppb							Recommended Level = 20ppb	
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured? (See Note 1)	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) (See note 2)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
SAMPLING DATE			12/3/2014			mm/dd/yyyy	12/12/2014	12/12/2014		mm/dd/yyyy	
RESULTS DATE			12/10/2014			mm/dd/yyyy	12/16/2014	12/16/2014		mm/dd/yyyy	
DRINKING	NP-B1376-RM113-WFB-FD	Room 113 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM114-WFB-FD	Room 114 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM115-WFB-FD	Room 115 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM112-WFB-FD	Room 112 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM116-WFB-FD	Room 116 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM110-WFB-FD	Room 110 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM117-WFB-FD	Room 117 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-LOB-WFB(A)-FD	Lobby bubbler (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-LOB-WFB9B)-FD	Lobby Bubbler (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM125-WCB-FD	Room 125 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DRINKING	NP-B1376-RM127-LHW(C)-FD	Room 127 Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
COOKING/TEETH BRUSHING	NP-B1376-RM125-LHW(E)-FD	Room 125 faucet (food prep sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
COOKING	NP-B1376-RM105-LHW(B)-FD	Room 105 faucet (food prep, high)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
DISH WASHING - Broken & missing faucet should not have been sampled.	NP-B1376-RM128-LHW(A)-FD	Room 128 kitchen out of service, broken faucet	26	Yes	N/A	N/A	38	4	The faucet was broken off of the fixture in order to clean large pots. The faucet was replaced with a lead free fixture and it will be tested approximately 6 months after the installation.	N/A	N/A
COOKING	NP-B1376-RM128-LHW(B)-FD	Room 128 kitchen dishwashing faucet (left)	ND	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
COOKING	NP-N1376-RM128-LHW(C)-FD	Room 128 kitchen dishwashing faucet (right)	ND	No	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM113-LHW(A)-FD	Room 113 Faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING - Hot water only tap should not have been sampled.	NP-B1376-RM113-LHW(B)-FD	Room 113 Faucet (right) - Hot Water Faucet	26	YES	N/A	N/A	80	ND	The USEPA Guidance, the 3Ts for Reducing Lead in Drinking Water, and Rhode Island's Lead Poison Prevention Regulation specifies sampling and testing of only the cold water tap because only flushed cold water is supposed to be used for cooking and drinking. Hot water is likely to contain greater amounts of lead. Since this fixture does not have a cold water tap it should not have been tested. The faucet was replaced with a lead free fixture.	N/A	N/A
HAND WASHING	NP-B1376-RM113-LHW©-FD	Room 113 Faucet (left, deep sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (December 2014)
JFK Child Development Center (Building 1376)

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS	
			Recommended Level = 20ppb							Recommended Level = 20ppb	
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured? (See Note 1)	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) (See note 2)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
SAMPLING DATE			12/3/2014			mm/dd/yyyy	12/12/2014	12/12/2014		mm/dd/yyyy	
RESULTS DATE			12/10/2014			mm/dd/yyyy	12/16/2014	12/16/2014		mm/dd/yyyy	
HAND WASHING	NP-B1376-RM113-LHW(D)-FD	Room 113 Faucet (right, deep sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM114-LHW(A)-FD	Room 114 bathroom faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM114-LHN(B)-FD	Room 114 bathroom faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM114-LHW(C)-FD	Room 114 faucet (deep sink, left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM114-HHW-FD	Room 114 faucet (deep sink, right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM115-LHW(A)-FD	Room 115 bathroom sink (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM115-LHW(B)-FD	Room 115 Bathroom sink (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM115-LHW-(C)-FD	Room 115 Bubbler Sink	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM115-HHW-FD	Room 115 Faucet (near bubbler sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM112-LHW(B)-FD	Room 112 Bathroom Faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM112-LHW(C)-FD	Room 112 Bathroom Faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM112-LHW(D)-FD	Room 112 Faucet Bubbler Sink	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM112-HHW-FD	Room 112 Faucet Sink Near Bubbler	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM116-LHW(A)-FD	Room 116 Bathroom Faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM116-LHW(B)-FD	Room 116 Bathroom Faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM116-LHW(C)-FD	Room 116 Faucet (low sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM116-HHW-FD	Room 116 faucet (high sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM110-LHW(B)-FD	Room 110 faucet (left)	1	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM110-LHW(C)-FD	Room 110 faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM110-HHW(A)-FD	Room 110 Faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM110-HHW(B)-FD	Room 110 Faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM117-LHW(B)-FD	Room 117 Faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM117-LHW(C)-FD	Room 117 Faucet (low sink with bubbler)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM117-HHW-FD	Room 117 Faucet (high sink)	5	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM111A-UT-FD	Room 111A	1	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (December 2014)
JFK Child Development Center (Building 1376)

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS	
			Recommended Level = 20ppb							Recommended Level = 20ppb	
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured? (See Note 1)	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) (See note 2)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
SAMPLING DATE			12/3/2014			mm/dd/yyyy	12/12/2014	12/12/2014		mm/dd/yyyy	
RESULTS DATE			12/10/2014			mm/dd/yyyy	12/16/2014	12/16/2014		mm/dd/yyyy	
HAND WASHING	NP-B1376-LOBBATHWEST-LHW(A)-FD	Lobby west restroom faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-LOBBATHWEST-LHW(B)-FD	Lobby west restroom faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-LOBBATHEAST-LHW(A)-FD	Lobby east restroom faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-LOBBATHEAST-LHW(B)-FD	Lobby east restroom faucet (right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM107-HHW-FD	Room 107 Faucet	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM106-LHW(A)-FD	Room 106 Faucet (low)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM106-LHW(B)-FD	Room 106 faucet (high)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM125-LHW(A)-FD	Room 125 faucet (low, left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM125-LHW(B)-FD	Room 125 faucet (low, right)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM1250LHW(C)-FD	Room 125 (high, changing table)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM125-LHW(D)-FD	oom 125 Faucet (high goose nec	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM125-HHW-FD	Room 125 Faucet (low sink, no handle)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM105-LHW(A)-FD	Room 105 Faucet (low)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-Rm104-LHW(B)-FD	Room 104 Bathroom Faucet (left)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING - Hot water only tap should not have been sampled.	NP-B1376-RM104-HHW-FD	Room 104 Bathroom Hot Water Faucet (right)	119	YES	N/A	N/A	3	ND	The USEPA Guidance, the 3Ts for Reducing Lead in Drinking Water, and Rhode Island's Lead Poison Prevention Regulation specifies sampling and testing of only the cold water tap because only flushed cold water is supposed to be used for cooking and drinking. Hot water is likely to contain greater amounts of lead. Since this fixture does not have a cold water tap it should not have been tested. The faucet was replaced with a lead free fixture.	N/A	N/A
HAND WASHING	NP-B1376-RM127-LHW(A)-FD	Room 127 Faucet (push button, right)	3	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM127-LHW(B)-FD	Room 127 Faucet (push button, left)	3	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM127-HHW-FD	Room 127 Faucet (Deep Sink)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM103-LHW(A)-FD	Room 103 Faucet (low)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM103-LHW(B)-FD	Room 103 Faucet (high)	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A

Priority Areas Lead Testing and Corrective Actions (December 2014)
JFK Child Development Center (Building 1376)

SAMPLING LOCATION DESCRIPTION			INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS	
			Recommended Level = 20ppb							Recommended Level = 20ppb	
CATEGORY Water Intended For:	SAMPLE ID	Outlet Description	First Draw (ppb)	Retest required?	Date Fixture Secured? (See Note 1)	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) (See note 2)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)
SAMPLING DATE			12/3/2014			mm/dd/yyyy	12/12/2014	12/12/2014		mm/dd/yyyy	
RESULTS DATE			12/10/2014			mm/dd/yyyy	12/16/2014	12/16/2014		mm/dd/yyyy	
HAND WASHING - Hot water only tap should not have been sampled.	NP-B1376-RM102-LHW(A)-FD	Room 102 hot water faucet	26	Yes	N/A	N/A	836	5	The USEPA Guidance, the 3Ts for Reducing Lead in Drinking Water, and Rhode Island's Lead Poison Prevention Regulation specifies sampling and testing of only the cold water tap because only flushed cold water is supposed to be used for cooking and drinking. Hot water is likely to contain greater amounts of lead. Since this fixture does not have a cold water tap it should not have been tested. The faucet was replaced with a lead free fixture.	N/A	N/A
HAND WASHING	NP-B1376-RM102-HHW(B)-FD	Room 102 faucet	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING	NP-B1376-RM102-UTRM130-UT-FD	Laundry Room	non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A
HAND WASHING			non-detect	NO	N/A	N/A	N/A	N/A	Aerators Replaced in July 2014 and will undergo regular preventative cleaning.	N/A	N/A

Table 2. Summary Statistics

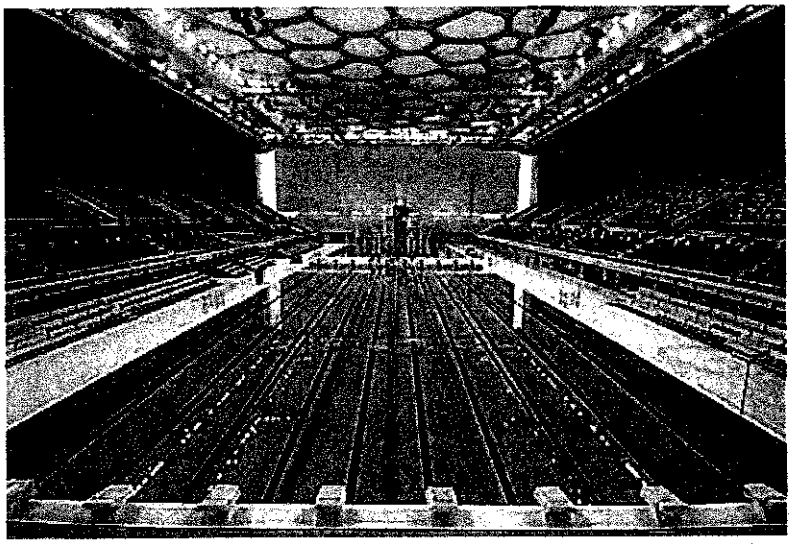
CATEGORY	INITIAL SAMPLING RESULTS	RE-SAMPLING RESULTS			POST REMEDIATION RESULTS
	Recommended Level = 20ppb				
	First Draw (ppb)	Water Fountain Follow up Flush Sample - Collected day before First Draw Sampling (ppb)	First Draw (ppb)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)	First Draw (ppb)
Total Drinking	11	N/A	0	0	0
Total Drinking > 20 ppb	0	N/A	0	0	0
Total Cooking / Brushing Teeth	4	N/A	1	1	0
Total Cooking /Brushing Teeth > 20 ppb	1	N/A	1	0	0
Total Hand Washing	52	N/A	3	3	0
Total Hand Washing > 20 ppb	3	N/A	2	0	0
Total Samples	67	N/A	4	4	0
Total Samples > 20 ppb	4	N/A	3	0	0

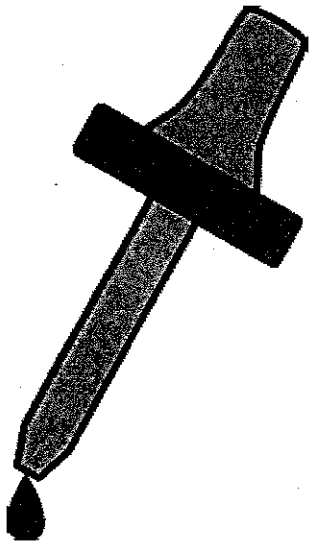
Overview of Test Results for Lead in Drinking Water and Corrective Actions at the John F. Kennedy Child Development Center (Building 1376) and School Age Care Facility (Building 1297)

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 are regularly tested and in compliance with the Safe Drinking Water Act. Because lead exposure is a particular concern for children, and lead may be introduced 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 like the John F. Kennedy Child Development Center (Building 1376) and School Age Care Facility (Building 1297).

Navy environmental personnel conducted lead testing at both facilities in accordance with Navy, Rhode Island Department of Health (RIDOH) and U.S Environmental Protection Agency (EPA) guidelines. Samples from various locations in these facilities were sent to a state-certified laboratory for analysis.

Outlets used for drinking, cooking and hand washing were tested at the John F. Kennedy Child Development Center and School Age Care Facility. Out of 87 samples collected, one sample site at the School Age Care tested higher than 20 parts per billion (ppb) of lead. To put those numbers into perspective, one part per billion is equal to one drop of water in an Olympic size swimming pool.

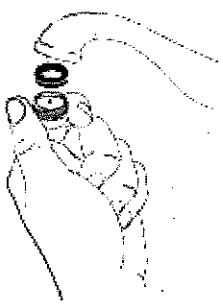


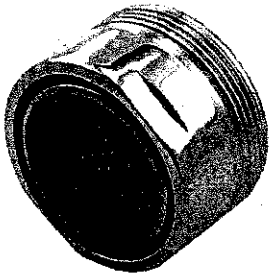


At 20 ppb, the EPA recommends additional testing and corrective measures. The sample site is located in the 2nd floor of Building 1297 in the Teen Center. This same faucet also exceeded the Rhode Island Lead Poison Prevention limit of 15 ppb for the first draw, but is lead safe by these regulations since the follow on flush sample tested below 15 ppb. The faucet in the Teen Center was replaced with a lead-free fixture and it will be tested in approximately six months.

Four **invalid** sample sites tested above 20 ppb at the John F. Kennedy Child Development Center. Three of these four sample sites were taken from hot water only faucets that are used for hand washing in Rooms 102, 103 and 104. The EPA Guidance, the 3Ts for Reducing Lead in Drinking Water, and Rhode Island's Lead Poison Prevention Regulation specifies sampling and testing of the cold water tap only since flushed cold water is used for cooking and drinking and hot water is likely to contain greater amounts of lead. Since these fixtures do not have cold water taps, they do not need to be sampled nor tested. The 4th sample site was from a dish washing sink in the kitchen. The faucet was missing from the base and was sampled, contrary to protocol, through a hole in the base where the faucet would normally be attached. In addition, this 4th site is not used for cooking, drinking or hand washing. The faucets in all four of these rooms were replaced with lead-free fixtures. The kitchen faucet will be tested in approximately six months.

The single valid result, that exceeded the EPA recommended safe level of 20 ppb or below, was at a hand washing sink located on the 2nd floor of the School Age Care Facility in the Teen Center. The water from this faucet tested at 21 ppb lead. Follow-up sampling at this outlet was conducted after removing the faucet aerator; showed the drinking water was below the EPA and RIDOH levels. 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.





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), or washing (primarily hand-washing). The *Sample ID* column is the number

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's sampling protocol requires sampling water not 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 facilities 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. Outlets that exceeded 20 ppb are highlighted in yellow.

The *Re-sampling Results* includes columns for *First Draw* and flushing samples which help determine the source of lead. For cooking and washing outlets, aerators were removed before retesting:

- If the lead concentration of the 30 second flush sample resulted in lower than 20 ppb lead, the aerator was the source of lead and the outlet can be used for drinking if the aerator is cleaned or replaced. ***The sink in the Teen Center fits in this category.***
- 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 replaced with new lead free fixtures. New lead free fixtures will be tested approximately six months.
- 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.

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, there are columns for sampling data to show that the corrective actions were successful in reducing lead. These columns will be completed for the kitchen sink at the John F. Kennedy Child Development Center and the hand washing sink at School Age Care Facility's Teen Center when test results become available.

To learn more about lead in drinking water or to access additional water quality resources please visit the following sites:

EPA (lead in drinking water schools and day care centers):
http://water.epa.gov/drink/info/lead/schools_index.cfm

Annual water quality report at your home:
City of Newport:
http://www.cityofnewport.com/departments/utilities/water/consumer-confidence-report

Town of Portsmouth: http://www.portsmouthwater.org/reports.html

Navy Water Quality Reports:
http://www.cnic.navy.mil/regions/cnrma/installations/ns_newport/om/environmental_support/drinking_water.html

Drinking Water Taste, Odor, and Color:
http://water.epa.gov/drink/contaminants/secondarystandards.cfm
http://www.mass.gov/eea/docs/dep/water/drinking/alpha/a-thru-h/color.doc

Rhode Island Department of Health
http://www.health.ri.gov/healthrisks/poisoning/lead/

To answer any questions you may have on the sampling program contact Darlene Ward, the Naval Station Newport Drinking Water Program Manager, at 401-841-6376 or darlene.ward@navy.mil. If you have any health questions or concerns, we encourage you to contact your health care provider or, if you are a TRICARE beneficiary, please contact the Naval Health Care Clinic New England at either 401-841-4179 or 401-841-6776.

Lead in Drinking Water Fact Sheet

HEALTH EFFECTS OF LEAD

Lead is found throughout the environment in lead-based paint, air, soil, household dust, food, certain types of pottery porcelain and pewter, and water. Lead can pose a significant risk to your health if too much of it enters your body.

Lead builds up in the body over many years and can cause damage to the brain, red blood cells and kidneys. The greatest risk is to young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. It is important to wash children's hands and toys often, and to try to make sure they only put food in their mouths.

LEAD IN DRINKING WATER

Lead in drinking water, although rarely the sole cause of lead poisoning, can significantly increase a person's total lead exposure, particularly the exposure of infants who drink baby formulas and concentrated juices that are mixed with water. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

HOW LEAD ENTERS OUR WATER

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and household plumbing. These materials include lead-based solder used to join copper pipe, brass and chrome-plated brass faucets, and in some cases, pipes made of lead that connect houses and buildings to water mains (service lines). In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials to 8.0%.

When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into your drinking water. This means the first water drawn from the tap in the morning, or later in the afternoon if the water has not been used all day, can contain fairly high levels of lead.

STEPS TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER

1. FLUSH YOUR SYSTEM.

Let the water run from the tap before using it for drinking or cooking any time the water in a faucet has gone unused for more than six hours. The longer water resides in plumbing the more lead it may contain. Flushing the tap means running the cold water faucet for about 15-30 seconds. Although toilet flushing or showering flushes water through a portion of the plumbing system, you still need to flush the water in each faucet before using it for drinking or cooking. Flushing tap water is a simple and inexpensive measure you can take to protect your health. It usually uses less than one or two gallons of water.

2. USE ONLY COLD WATER FOR COOKING AND DRINKING.

Do not cook with, or drink water from the hot water tap. Hot water can dissolve more lead more quickly than cold water. If you need hot water, draw water from the cold tap and then heat it.

3. USE BOTTLED WATER.

The steps described above will reduce the lead concentrations in your drinking water. However, if you are still concerned, you may wish to use bottled water for drinking.

FOR MORE INFORMATION

You can consult a variety of sources for additional information. Your family doctor or pediatrician can perform a blood test for lead and provide you with information about the health effects of lead.

For information about your facility's water supply and details on testing, please contact Naval Station Newport's Environmental Office at **401-841-6376**.
For information about the health effects of lead please contact Naval Health Clinic New England at **401-841-4179; 401-841-6776**.

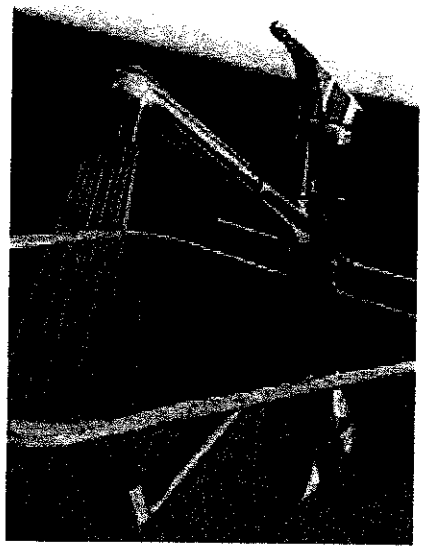
Other resources:
Rhode Island Department of Health: 401-222-5960
EPA Safe Drinking Water Hotline: 1-800-426-4791
www.cdc.gov
www.epa.gov/lead
www.health.ri.gov/healthrisks/poisoning/lead

Preventing Lead Problems: Routine Steps

To minimize exposure to lead in your facility, there are several things you can do on a routine basis.

These activities include:

1. **Flush all drinking water outlets.**
   Flushing drinking water outlets is important because the longer water is exposed to lead pipes or solder, the greater the likelihood of lead contamination. At the start of each day, before using any water for drinking or cooking, flush the cold water faucet by allowing the water to **run for 30 seconds to one minute.** Do this at each drinking water outlet (including water fountains). Even if all your first-draw samples and flushed samples show low lead levels, there is still a possibility that lead may get into water that sits in your plumbing for long periods (such as during vacations or over long weekends). To be safe, on the first day back, flush all drinking water outlets prior to opening the facility.



2. **Use only cold water to prepare food and drinks.**
   Hot water dissolves lead more quickly than cold water and is therefore more likely to contain greater amounts of lead. If hot water is needed, water should be drawn from the cold tap and heated. Use only thoroughly flushed water from the cold water tap for drinking and when making formula, juices, or foods.

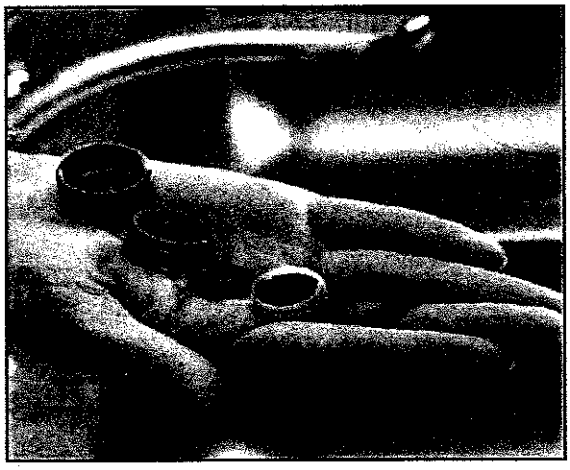
3. **Clean debris out of all water outlet screens on a regular basis.**
   Small screens on the end of a faucet (aerators) can trap sediments containing lead.

Source: Modified from 3Ts for Reducing Lead in Drinking Water in Childcare Facilities: Revised Guidance, EPA816-R-05-009, December 2005

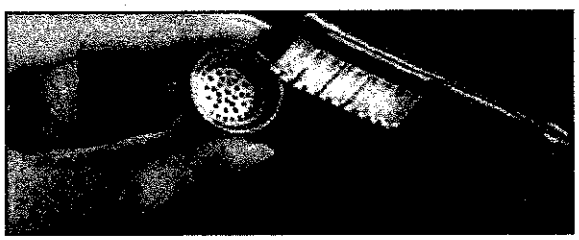
Faucet Aerators Cleaning Procedures

- Remove the aerator by twisting off with hands or pliers;

- One or more parts are contained within the aerator. Note the order and orientation of the parts as you remove them;



- Rinse the pieces with water and brush off the debris. For deposits that are difficult to remove, soak the parts in water for a few minutes and scrub with a new toothbrush. Backwashing aerator components is also an effective cleaning method for many aerator types. Hold removed aerator upside down under flowing water to backwash screens and mesh filters;



- If any parts are cracked or broken, replace them. If the washer has hardened it should be replaced; and

- Reassemble the aerator by screwing it back onto the faucet and hand-tighten.

It is not recommended that aerators be removed from faucets immediately before sampling for lead as the sample will fail to identify the typical available contribution of particulate lead from that tap and thus additional actions needed to reduce exposure to lead in drinking water will fail to be taken.

However, if the results from the initial sample are above the action level, you can consider taking a second sample to determine whether particulate matter is the source of lead. For this sample, the aerator would be cleaned or removed prior to sampling so that the two samples could be compared.[7] It is advised that a regular cleaning schedule be established for aerators.

The frequency of cleaning depends on how quickly the debris builds up on the inside walls of the aerator. Generally, the aerator should be cleaned at least quarterly. If blockages from scale or particulate accumulation are noticed, the frequency should be increased to monthly. Flow pattern changes are an indication of buildup.

[7] EPA, Oct 2006. Memorandum: Management of Aerators during Collection of Tap Samples to Comply with the Lead and Copper Rule. Available at: http://water.epa.gov/lawsregs/rulesregs/sdwa/lcr/upload/2006_10_27_lcrmr_memo_tapsamples-aerators_10202006.pdf.