

Overview of Testing Results for Lead in Drinking Water and Corrective Actions for Norfolk Naval Shipyard (NNSY) New Gosport Child Development Center (Building 1641-1642)

The Navy is committed to maintaining safe drinking water on its installations. City of Norfolk water supplied to the Navy's water distribution system is regularly tested in compliance with the Safe Drinking Water Act. Lead exposure is a particular concern for children, and lead may enter drinking water due to its presence in pipes, fittings, solder, and fixtures inside a building. Navy policy requires that we test the lead content of drinking water in priority areas such as youth centers, child development homes, and child development centers (CDCs) every five years.

On October 6, 2023, Navy environmental personnel conducted lead testing at NNSY New Gosport CDC Building 1641-1642 in accordance with Navy and United States Environmental Protection Agency (EPA) guidelines. Water samples from outlets in the CDC were sent to James R. Reed & Associates, a state-certified laboratory, for analysis.

At NNSY New Gosport CDC Building 1641-1642, water from outlets used for drinking, cooking, and washing were tested. Out of 84 samples collected, no water samples tested greater than the Navy screening level of 15 parts per billion (ppb) for lead in drinking water in CDCs.

A summary of all test results is included for your information in the following enclosures:

- **Enclosure 1: Summary of results**
 - **Table 1 Summary of Results** summarizes the data by category of use. The table provides a description of each sampling location using four columns; *Category*, *Outlet No.*, *Sample Identification*, and *Outlet Description*. The *Category* column contains information about whether the outlet is used for drinking water (water fountain), cooking (food preparation), or washing (primarily handwashing). The *Outlet No.* is the inventory number for the outlets at the CDC. The *Sample Identification* column is the unique identification used to label each sample bottle. The *Outlet Description* column contains additional information to describe the outlet sampled under each category. The next set of columns in **Table 1** provides *Initial Sampling Results*. EPA sampling protocol requires water to not be used from 8 to 18 hours prior to first draw sampling, to the extent practicable. Therefore, the *Initial Sampling Results* were from first draw samples collected in the early morning.
 - **Table 2 Summary of Statistics** summarizes all data collected at the building during this event.
- **Enclosure 2: Floor plan of NNSY New Gosport CDC Building 1641-1642 and a summary of the outlets and results for outlets tested.**

Enclosure 1
Sample Summary Results Table
Priority Areas Lead Testing and Corrective Actions (October 2023)
Norfolk Naval Shipyard Gosport Child Development Center Buildings 1641 and 1642

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION				Comments	INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS	
CATEGORY	OUTLET NO.	SAMPLE IDENTIFICATION	OUTLET DESCRIPTION		First Draw (ppb)	Retest required?	Date Fixture Secured?	Lead Screening Level: 15 parts per billion (ppb)				Description	First Draw (ppb)
					10/6/2023			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)		Recommended Level = 15 ppb	
SAMPLING DATE					10/6/2023			N/A	N/A	N/A		N/A	N/A
RESULTS DATE					10/16/2023			N/A	N/A	N/A		N/A	N/A
WASHING	88	SY-1641-BATH1130-HHW-FD	High handwashing faucet in Restroom 1-130		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	92	SY-1641-BATH1110-HHW-FD	High handwashing faucet in Restroom 1-110		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	93	SY-1641-BATH1106-HHW-FD	High handwashing faucet in Restroom 1-106		non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A

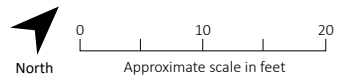
Table 2. Results Statistics

CATEGORY	INITIAL SAMPLING RESULTS		RE-SAMPLING RESULTS			POST
	Lead Screening Level: 15 parts per billion (ppb)					
	First Draw	Water	First Draw	Follow up	First Draw	
Total Drinking	16	0	0	0	0	0
Total Drinking > 15 ppb	0	0	0	0	0	0
Total Cooking	8	0	0	0	0	0
Total Cooking > 15 ppb	0	0	0	0	0	0
Total Washing	62	0	0	0	0	0
Total Washing > 15 ppb	0	0	0	0	0	0
Total Samples	86	0	0	0	0	0
Total Samples > 15 ppb	0	0	0	0	0	0



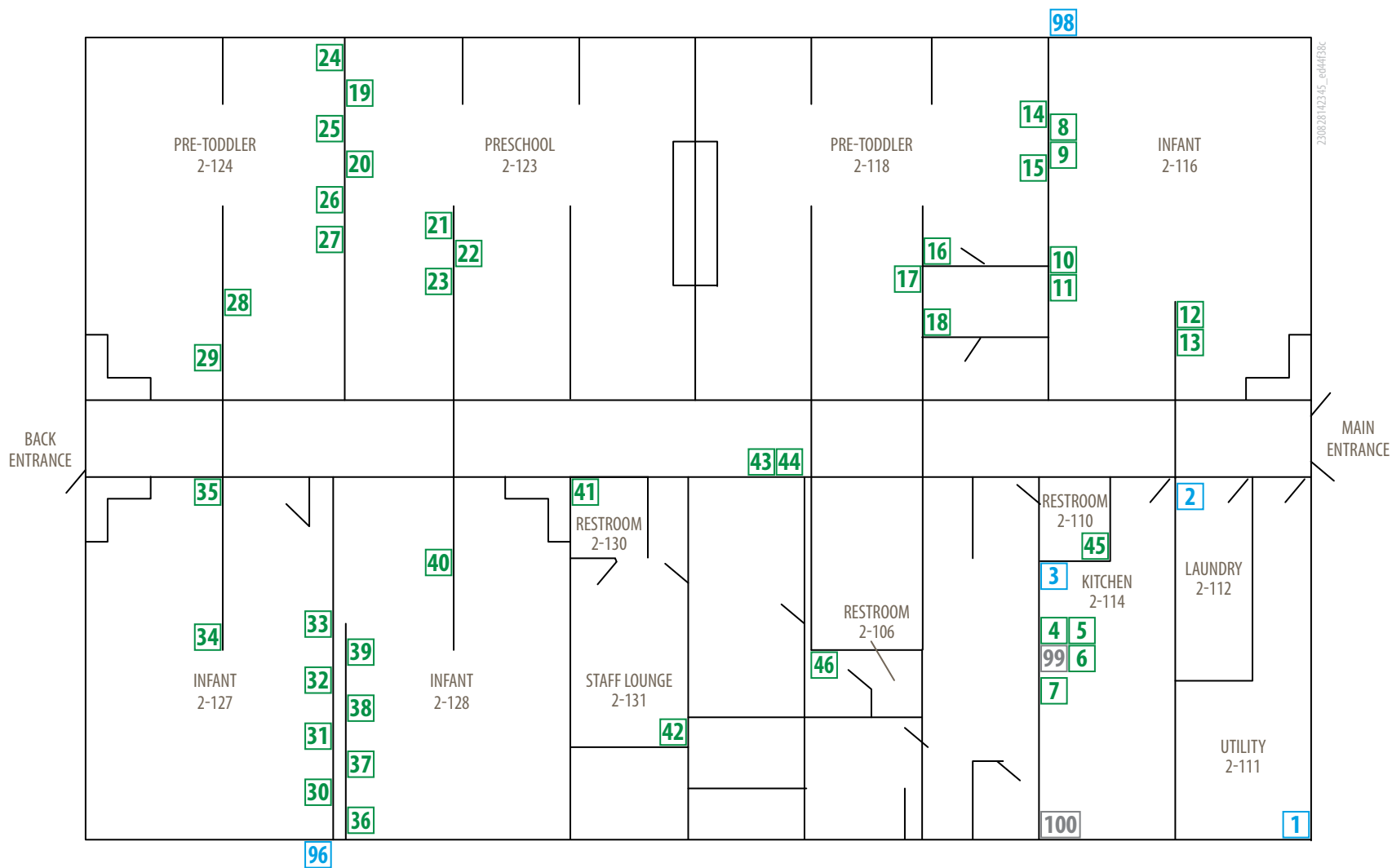
LEGEND

- 00 Outlet not sampled
- 00 Sample results below 15 parts per billion
- 00 Outlet removed



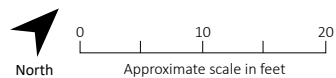
Building 1641 – First Floor Plan
 Norfolk Naval Shipyard
 Portsmouth, Virginia





LEGEND

- 00 Outlet not sampled
- 00 Sample results below 15 parts per billion
- 00 Outlet removed



Building 1642 – First Floor Plan
 Norfolk Naval Shipyard
 Portsmouth, Virginia



Outlet No.	Type of Fixture	Location Description	Exceeded?
1	Utility sink	Utility Room 2-111	Not sampled
2	Utility sink	Laundry Room 2-112	Not sampled
3	Dishwasher sprayer	Kitchen 2-114	Not sampled; used for cleaning and not consumption
4	Kitchen sink for dishwashing and food preparation	Kitchen 2-114	No
5	Kitchen sink for dishwashing and food preparation	Kitchen 2-114	No
6	High handwashing faucet	Kitchen 2-114	No
7	Kitchen sink for dishwashing and food preparation	Kitchen 2-114	No
8	High handwashing faucet	Infant Room 2-116	No
9	Water fountain (bubbler)	Infant Room 2-116	No
10	Low handwashing faucet	Infant Room 2-116	No
11	Low handwashing faucet	Infant Room 2-116	No
12	High handwashing faucet	Infant Room 2-116	No
13	High handwashing faucet	Infant Room 2-116	No
14	Water fountain (bubbler)	Pre-Toddler Room 2-118	No
15	High handwashing faucet	Pre-Toddler Room 2-118	No
16	Low handwashing faucet	Pre-Toddler Room 2-118	No
17	Low handwashing faucet (used for teeth brushing)	Pre-Toddler Room 2-118	No
18	Low handwashing faucet	Pre-Toddler Room 2-118	No
19	Water fountain (bubbler)	Preschool Room 2-123	No
20	High handwashing faucet	Preschool Room 2-123	No
21	Low handwashing faucet	Preschool Room 2-123	No
22	Low handwashing faucet (used for teeth brushing)	Preschool Room 2-123	No
23	Low handwashing faucet	Preschool Room 2-123	No
24	High handwashing faucet	Pre-Toddler Room 2-124	No
25	Water fountain (bubbler)	Pre-Toddler Room 2-124	No
26	Low handwashing faucet (used for teeth brushing)	Pre-Toddler Room 2-124	No
27	Low handwashing faucet (used for teeth brushing)	Pre-Toddler Room 2-124	No
28	High handwashing faucet	Pre-Toddler Room 2-124	No
29	High handwashing faucet	Pre-Toddler Room 2-124	No
30	High handwashing faucet	Infant Room 2-127	No

Outlet No.	Type of Fixture	Location Description	Exceeded?
31	Water fountain (bubbler)	Infant Room 2-127	No
32	Low handwashing faucet	Infant Room 2-127	No
33	Low handwashing faucet	Infant Room 2-127	No
34	High handwashing faucet	Infant Room 2-127	No
35	High handwashing faucet	Infant Room 2-127	No
36	High handwashing faucet	Infant Room 2-128	No
37	Water fountain (bubbler)	Infant Room 2-128	No
38	Low handwashing faucet	Infant Room 2-128	No
39	Low handwashing faucet	Infant Room 2-128	No
40	High handwashing faucet	Infant Room 2-128	No
41	High handwashing faucet	Restroom 2-130	No
42	Kitchen sink for dishwashing and food preparation	Staff Lounge 2-131	No
43	Water fountain (cooler)	Hallway	No
44	Water fountain (cooler)	Hallway	No
45	High handwashing faucet	Restroom 2-110	No
46	High handwashing faucet	Restroom 2-106	No
47	Utility sink	Utility Room 1-111	Not sampled
48	Utility sink	Laundry Room 1-112	Not sampled
49	Dishwasher sprayer	Kitchen 1-114	Not sampled; used for cleaning and not consumption
50	Kitchen sink for dishwashing and food preparation	Kitchen 1-114	No
51	Kitchen sink for dishwashing and food preparation	Kitchen 1-114	No
52	High handwashing faucet	Kitchen 1-114	No
53	Kitchen sink for dishwashing and food preparation	Kitchen 1-114	No
54	Icemaker	Kitchen 1-114	Not sampled
55	High handwashing faucet	Pre-Toddler Room 1-116	No
56	Water fountain (bubbler)	Pre-Toddler Room 1-116	No
57	Low handwashing faucet (used for teeth brushing)	Pre-Toddler Room 1-116	No
58	Low handwashing faucet (used for teeth brushing)	Pre-Toddler Room 1-116	No
59	High handwashing faucet	Pre-Toddler Room 1-116	No
60	High handwashing faucet	Pre-Toddler Room 1-116	No

Outlet No.	Type of Fixture	Location Description	Exceeded?
61	Water fountain (bubbler)	Pre-K Room 1-118	No
62	High handwashing faucet	Pre-K Room 1-118	No
63	Low handwashing faucet	Pre-K Room 1-118	No
64	Low handwashing faucet (used for teeth brushing)	Pre-K Room 1-118	No
65	Low handwashing faucet	Pre-K Room 1-118	No
66	Water fountain (bubbler)	Pre-K Room 1-123	No
67	High handwashing faucet	Pre-K Room 1-123	No
68	Low handwashing faucet	Pre-K Room 1-123	No
69	Low handwashing faucet (used for teeth brushing)	Pre-K Room 1-123	No
70	Low handwashing faucet	Pre-K Room 1-123	No
71	High handwashing faucet	Toddler Room 1-124	No
72	Water fountain (bubbler)	Toddler Room 1-124	No
73	Low handwashing faucet (used for teeth brushing)	Toddler Room 1-124	No
74	Low handwashing faucet (used for teeth brushing)	Toddler Room 1-124	No
75	High handwashing faucet	Toddler Room 1-124	No
76	High handwashing faucet	Toddler Room 1-124	No
77	High handwashing faucet	Toddler Room 1-127	No
78	Water fountain (bubbler)	Toddler Room 1-127	No
79	Low handwashing faucet (used for teeth brushing)	Toddler Room 1-127	No
80	Low handwashing faucet (used for teeth brushing)	Toddler Room 1-127	No
81	High handwashing faucet	Toddler Room 1-127	No
82	High handwashing faucet	Toddler Room 1-127	No
83	High handwashing faucet	Toddler Room 1-128	No
84	Water fountain (bubbler)	Toddler Room 1-128	No
85	Low handwashing faucet (used for teeth brushing)	Toddler Room 1-128	No
86	Low handwashing faucet (used for teeth brushing)	Toddler Room 1-128	No
87	High handwashing faucet	Toddler Room 1-128	No
88	High handwashing faucet	Restroom 1-130	No
89	Kitchen sink for dishwashing and food preparation	Staff Lounge 1-131	No
90	Water fountain (cooler)	Hallway	No
91	Water fountain (cooler)	Hallway	No

Outlet No.	Type of Fixture	Location Description	Exceeded?
92	High handwashing faucet	Restroom 1-110	No
93	High handwashing faucet	Restroom 1-106	No
94	Hose bib	Outside on the northwest side of Building 1641	Not sampled; not used for filling water jugs or bottles
95	Hose bib	Outside on the northeast side of Building 1641	Not sampled; not used for filling water jugs or bottles
96	Hose bib	Outside on the southeast side of Building 1642	Not sampled; not used for filling water jugs or bottles
97	Hose bib	Outside on the southeast side of Building 1641	Not sampled; not used for filling water jugs or bottles
98	Hose bib	Outside on the northwest side of Building 1642	Not sampled; not used for filling water jugs or bottles
99	Ice maker	Kitchen 2-114	Not sampled; ice maker was removed at time of site visit on 9/11/2023
100	Sprayer	Kitchen 2-114	Not sampled; sprayer was removed at time of site visit on 9/11/2023
101	Sprayer	Kitchen 1-114	Not sampled; sprayer was removed at time of site visit on 9/11/2023