



2024 Lead and Copper Rule Sampling Plan

Sample Pool and Selection

The District of Columbia Water and Sewer Authority (DC Water) will collect samples from at least 100 Tier 1 sites in two semester periods—January to June 2024 and July to December 2024. Sample sites meeting Tier 1 criteria under 40 CFR §141.86(a)(3)(ii) as single family structures that are served by a lead service line based on DC Water’s customer information and service line inventory records.

DC Water maintains a LCR “Sample Pool” of sites listed in Table 1. DC Water also receives requests from our customers to sample their tap water for lead. DC Water will include these customer-requested sites in the LCR sampling program if they meet the Tier 1 criteria: single family structures having a full or partial lead service line based on DC Water’s customer information and service line inventory records; agree to participate in the program; can collect a valid LCR sample; and are not already in the Sample Pool.

DC Water will attempt to send sample bottles to all sites in Table 1 and to the approved customer-requested sites until at least the minimum number of valid compliance samples has been collected. In the event that the number of valid compliance samples is insufficient to meet the LCR monitoring requirements, DC Water will add sites with full lead service lines, be a single family structure according to DC Water customer information and service line inventory records, and the customer agrees to participate in the LCR sampling program. DC Water will retain added sites that provide samples (homes that do not return samples will not be included in the next semester’s Sample Pool).

DC Water will schedule and distribute samples to Sample Pool sites in the order listed in Table 1. DC Water may sample locations out-of-order if the first sample submitted was rejected (refer to Criteria for Sample Acceptance section) and the customer requests a second sample kit. DC Water may also sample out-of-order if the customer requests a different sample date. DC Water will not leave a sample kit under the following conditions:

- Abandoned residence
- Partial lead service line replacement within 60 days of sample kit drop-off;
- Customer requests not to participate;
- Tier 1 status is suspect (e.g. possible condo conversion); or
- Site is undergoing rehabilitation.

DC Water will investigate to determine if the site should remain in the Sample Pool; however, the site will not be sampled until the following compliance period unless requested by the customer.

Sample Collection

DC Water will collect samples between January and December 2024 (first monitoring period is January to June and the second is July to December). The homeowner will collect first and second draw samples following the instructions in the sample kit and complete the sampling form (or chain of custody; reference Appendix A). The samples will be sent to a certified laboratory, currently the Washington Aqueduct (WA), to analyze the lead, copper, and iron concentrations in the samples using Environmental Protection Agency (EPA) Method 200.8.

Criteria for Acceptance as a Valid Compliance Sample

DC Water will forward samples to WA using the following criteria:

1. Bottles:
 - First draw sample bottle is full; and
 - First draw sample bottle is identified.
2. Sampling form or bottles must have the following information:
 - Address on bottles match address on sampling form;
 - Site is a single family structure (i.e., answered “No” to having multiple dwelling units);
 - Date and time stagnation started;
 - Date and time sample collected;
 - Stagnation time at least 6 hours;
 - No leaks or water use during stagnation; and
 - If the customer has a water treatment unit installed, they must indicate that the system was bypassed for sampling.
3. DC Water receives samples past the end of the monitoring period (i.e., June 30 or December 31) and has enough valid samples for compliance.
 - DC Water might not have sufficient time to confirm the samples are valid, analyze, and report the data prior to the required reporting date of July 10th and January 10th. If we choose to reject the samples for LCR analyses, then DC Water will contact the customer and request they collect the samples again for the new monitoring period.

DC Water will attempt to obtain any missing information from incomplete sampling forms by contacting the customer. DC Water will note the customer contact by logging the customer’s name, the date, questions asked, customer’s responses, and the initials of the DC Water staff person. DC Water will transfer the missing information onto the sampling form.

Sample Invalidation

DC Water will request invalidation from EPA Region III for samples analyzed by WA laboratory based on 40 CFR §141.86(f):

- The laboratory establishes that improper analysis caused erroneous results;
- The sample was taken from a site that did not meet Tier 1 criteria;
- The sample or sample container was damaged during transit; or
- There is substantial reason to suspect that the sample was subject to tampering.

DC Water will also request invalidation of samples analyzed by the WA laboratory if we learn that the sampling protocol was not followed and therefore may have affected the results.

Notifying Customers of Results

In accordance with 40 CFR §141.85(d), DC Water will mail sample results to the homeowner along with lead advisory information within 30 days of receiving sample results from the laboratory. Appendix B contains the template letter used to send residents their results, which includes the required information in accordance with 40 CFR § 141.85(d)(3).

DC Water will provide customers with written notification if their copper test results exceed the copper action level.

Sample Pool Revisions (Tables 2 and 3)

Sites will be removed from the Sample Pool under the following conditions:

- Site does not meet Tier 1 criteria (e.g. site is not a single family structure; condo conversion, no lead service line);
- Customer notifies DC Water that they do not want to participate;
- Customer cannot provide a valid sample (e.g. water treatment unit cannot be bypassed); or
- For the last four consecutive sampling events of the site (i.e., sample kit dropped at the site), valid compliance samples were not returned from the site.
- Customer requested to participate in program and did not return valid samples in their first sampling semester.

DC Water will assess the geographic distribution of the sites in the Sample Pool to ensure that they are representative of the residential lead service line distribution in the District. DC Water will select new sites to improve geographic distribution if the sites are not representative of the lead service line distribution.

Reporting Format

The lead and copper monitoring report will be submitted to EPA Region III in electronic format by July 10, 2024 and January 10, 2024, which are 10 days following the end of the LCR monitoring compliance periods. The report format will comply with 40 CFR §141.90. DC Water will report lead results as “0.0000” that have been reported by the WA laboratory as non-detect (<0.0002 mg/L). DC Water will notify EPA Region III within 48 hours of determining that the 90th percentile lead or copper action level has been exceeded.

Optimal Corrosion Control Treatment Monitoring (OCCT)

DC Water will monitor for the OCCT Water Quality Parameters (WQP) twice per calendar year at 10 sites as required by 40 CFR §141.87(e)(2)(i). In order to achieve seasonal variability, DC Water will collect samples quarterly at the 10 sites listed in Table 4. One set of 5 sites will be sampled in February and August and a second set of 5 sites will be sampled in May and November. The parameters monitored will be pH, dissolved orthophosphate, nitrite, and free ammonia. DC Water will report the WQP distribution system data by the 10th of the month following the end of the quarter (April, July, October, and January), which is 10 days following the end of the OCCT WQP monitoring compliance period. DC Water will also report entry point data collected by the Washington Aqueduct 10 days following the end of the LCR semester monitoring period.

Table 1. January – June 2024 Sample Pool

No.	Address	Pipe Material
1	4507 13TH ST NW	Lead
2	1649 HARVARD ST NW	Lead
3	228 V ST NE	Lead
4	2007 37TH ST NW	Lead
5	3206 38th St NW	Lead
6	702 9th St SE	Lead
7	619 12th St NE	Lead
8	4418 14th St NE	Lead
9	3211 Central Ave NE	Lead
10	905 Kent Pl NE	Lead
11	10 S St NW	Lead
12	1519 Olive St NE	Lead
13	1505 Buchanan St NW	Lead
14	1346 F St NE	Lead
15	1020 INDEPENDENCE AVE SE	Lead
16	4425 14th St NE	Lead
17	2036 17TH ST NW	Lead
18	5600 NEBRASKA AVE NW	Lead
19	423 GALLATIN ST NW	Lead
20	1421 TAYLOR ST NW	Lead
21	3420 34th St NW	Lead
22	559 23rd PL NE	Lead
23	3629 Everett St NW	LEAD
24	132 11th St SE	LEAD
25	307 South Carolina Ave SE	LEAD
26	1247 GIRARD ST NE	LEAD
27	338 14th St SE	Lead
28	3074 Clinton St NE	Lead
29	1648 ARGONNE PL NW	Lead
30	2717 O ST NW	Lead
31	4536 Lowell St NW	Lead
32	1115 C St NE	Lead
33	408 16th St SE	Lead
34	3567 Holmead Pl NW	Lead
35	525 9TH ST SE	Lead
36	5427 Nevada Ave NW	Lead
37	1408 DECATUR ST NW	Lead
38	423 Shepherd St NW	Lead
39	317 TENNESSEE AVE NE	Lead
40	114 MADISON ST NW	Lead

No.	Address	Pipe Material
41	3114 15th St NE	Lead
42	3112 PARK PL NW	Lead
43	3721 PORTER ST NW	Lead
44	1120 C St NE	Lead
45	18 Milmarson PI NW	Lead
46	419 12th St SE	Lead
47	4312 14th St NW	Lead
48	521 5th St NE	Lead
49	615 Webster St NW	Lead
50	3617 17th St NE	Lead
51	1417 Crittenden St NW	Lead
52	120 Kentucky Ave SE	Lead
53	519 Rittenhouse St NW	Lead
54	5010 Klinge St NW	Lead
55	813 E St SE	Lead
56	3206 5th St SE	Lead
57	827 9th St NE	Lead
58	2010 Klinge Rd NW	Lead
59	5242 Colorado Ave NW	Lead
60	6811 Laurel St NW	Lead
61	4428 9th St NW	Lead
62	1254 Hamlin St NE	Lead
63	1416 Montague St NW	Lead
64	4221 4th St NW	Lead
65	4507 Arkansas Ave NW	Lead
66	521 9th St SE	Lead
67	3107 Cathedral Ave NW	Lead
68	5309 14th St NW	Lead
69	1621 C St SE	Lead
70	3608 17th St NE	Lead
71	1225 C St SE	Lead
72	811 L St NE	Lead
73	105 14th St NE	Lead
74	22 Bates St NW	Lead
75	3126 38th St NW	Lead
76	517 5th St NE	Lead
77	1148 Abbey PI NE	Lead
78	3511 IDAHO AVE NW	Lead
79	4710 8th St NW	Lead
80	232 33rd St NE	Lead
81	2416 I St NW	Lead
82	5603 14th St NW	lead
83	424 Farragut St NW	Lead

No.	Address	Pipe Material
84	1721 Webster St NW	Lead
85	114 3rd St SE	Lead
86	540 5th St SE	Lead
87	1415 F St NE	Lead
88	3741 McKinley St NW	Lead
89	6125 29th St NW	Lead
90	1534 East Capitol St NE	Lead
91	4610 Iowa Ave NW	Lead
92	1372 C St NE	Lead
93	1501 Harvard St NW	Lead
94	812 Van Buren ST NW	Lead
95	1427 Ives Pl SE	lead
96	4310 Chesapeake St NW	Lead
97	5510 9th St NW	Lead
98	2718 Hamlin St NE	Lead
99	4618 8TH ST NW	Lead
100	34 U St NW	Lead
101	4421 9th St NW	Lead
102	3202 10TH ST NE	Lead
103	708 9th St SE	Lead
104	5015 9th St NW	Lead
105	5227 Sherier Pl NW	Lead
106	541 Shepherd St NW	Lead
107	5127 5th ST NW	Lead
108	417 Shepherd St NW	Lead
109	1323 V St NW	Lead
110	1334 E St NE	Lead
111	2734 34th Pl NW	Lead
112	1511 Allison St NW	Lead
113	4125 46th St NW	Lead
114	1740 Potomac Ave SE	Lead
115	658 E St SE	Lead
116	1522 New Jersey Ave NW	Lead
117	3907 McKinley St NW	Lead
118	727 Hamilton St NW	Lead
119	3810 Military Rd NW	Lead
120	4101 4th St NW	Lead
121	5404 39TH ST NW	Partial Lead
122	3030 44TH ST NW	Partial Lead
123	1808 KEARNY ST NE	Partial Lead
124	1353 JEFFERSON ST NW	Partial Lead
125	4215 39th St NW	Partial Lead
126	4926 Glenbrook Rd NW	Partial Lead

No.	Address	Pipe Material
127	1211 Carrollsburg Pl SW	Partial Lead
128	231 K St NE	Partial Lead
129	15 Milmarson Pl NW	Partial Lead
130	2923 Cathedral Ave NW	Partial Lead
131	36 Florida Ave NW	Partial Lead
132	3724 CHESAPEAKE ST NW	Partial Lead
133	313 10TH ST SE	Partial Lead
134	1420 INGRAHAM ST NW	Partial Lead
135	5223 KANSAS AVE NW	Partial Lead
136	414 DOUGLAS ST NE	Partial Lead
137	523 12th st NE	Partial Lead
138	1354 D St SE	Partial Lead
139	2717 11th St NW	Partial Lead
140	5700 SHERIER PL NW	Partial Lead
141	3356 RUNNYMEDE PL NW	Partial Lead

Table 2. Sites Added Since the Previously Submitted Sample Pool (2023 July – December)

No	Address
1	1323 V St NW
2	1334 E St NE
3	1511 Allison St NW
4	1522 New Jersey Ave NW
5	1740 Potomac Ave SE
6	2734 34th Pl NW
7	3202 10TH ST NE
8	3356 RUNNYMEDE PL NW
9	34 U St NW
10	3810 Military Rd NW
11	3907 McKinley St NW
12	4101 4th St NW
13	4125 46th St NW
14	417 Shepherd St NW
15	4421 9th St NW
16	4618 8TH ST NW
17	5015 9th St NW
18	5127 5th ST NW
19	5227 Sherier Pl NW
20	541 Shepherd St NW
21	658 E St SE
22	708 9th St SE
23	727 Hamilton St NW

Note for Table 2:

Sites are added when a customer contacts DC Water to request a lead test, and agree to participate in the Lead and Copper Monitoring Program. DC Water confirms that the address met Tier 1 criteria under 40 CFR 141.86(a)(3)(ii) as single family structure with a full lead service line based on DC Water's customer information and service line inventory records. The site is not retained if the customer does not provide valid samples.

Table 3. Sites Removed From the Previous Sample Pool (2023 July – December)

No	Address	Reason for Removal
1	1328 TRINIDAD AVE NE	Full lead service line replacement on November 16, 2023
2	1332 Ritchie Pl NE	Excavation on September 19, 2023 revealed copper pipe on the public and private sides
3	1409 TRINIDAD AVE NE	Full lead service line replacement on October 2, 2023
4	1413 West Virginia Ave NE	Full lead service line replacement on November 27, 2023
5	1418 TRINIDAD AVE NE	Full lead service line replacement on October 11, 2023
6	1421 TRINIDAD AVE NE	Full lead service line replacement on October 10, 2023
7	1423 TRINIDAD AVE NE	Full lead service line replacement on October 10, 2023
8	1441 Ives Pl SE	Full lead service line replacement on December 13, 2023
9	219 Underwood St NW	Full lead service line replacement on July 11, 2023
10	23 U St NW	Customer did not return samples ²
11	2301 Naylor Rd SE	Customer did not return samples ²
12	2414 Observatory Pl NW	Excavation on August 3, 2023 revealed copper pipe on the public side and private side not observed
13	250 33RD ST NE	Customer did not return samples ²
14	3004 25th St NE	Full lead service line replacement on September 12, 2023
15	3036 P St NW	Excavation on August 4, 2023 revealed copper pipe on the public and private sides
16	305 7th St NE	Vacant and under construction
17	3050 MONROE ST NE	Customer did not return samples ²
18	3301 BROWN St NW	Customer did not return samples ¹
19	3548 11th St NW	Full lead service line replacement on October 23, 2023
20	3727 T St NW	Full lead service line replacement on October 23, 2023
21	3743 W ST NW	Customer did not return samples ¹
22	3822 Albemarle St NW	Full lead service line replacement on July 14, 2023
23	424 Warner St NW	Customer did not return samples ²
24	4414 5th st nw	Customer did not return samples ²
25	48 Channing St NW	Full lead service line replacement on October 27, 2023
26	904 Delafield Pl NW	Full lead service line replacement on September 27, 2023

Notes for Table 3:

¹ Customers that do not return valid samples for four consecutive LCR sampling events are removed from the Sample Pool.

Table 4
Sample Sites for OCCT

	Site ID	Location	Sample Month
1	2H-3 BKJV	Truesdale Elementary School, 800 Ingraham St NW	Feb, Aug
2	3H-3 BKJV	St. Johns High School @ 27th & Military	Feb, Aug
3	A1H-5	BP Gas Station, 5207 Nannie Helen Burroughs Ave NE	Feb, Aug
4	1H-14	FH # 12, 2225 5 th St NE	Feb, Aug
5	4H-9	FH #20, 4300 Wisconsin Ave NW	Feb, Aug
6	A3H-6	Lee's Mini Market, 3853 Alabama Ave SE	May, Nov
7	L-4	Harbor Police Station, 550 water St SW	May, Nov
8	A2-H8	My 3 Sons Barber Shop, 3125 MLK Ave SE	May, Nov
9	L-27	Starbucks, 325 7 th St NW	May, Nov
10	3H-17	Home Care Medical Supplies, 5002 1 st St NW	May, Nov