



2014 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, January to June and July to December 2014. Sample sites meeting Tier 1 criteria under 40 CFR §141.86(a)(3)(ii) are single family structures with either full or partial lead service lines based on DC Water's data.

DC Water maintains an LCR "Sample Pool" of primary and secondary sites listed in Table 1. Customers who participated in LCR sampling in their previous two sample events are designated as primary sites. Secondary sites represent sites added to the sample pool list since 2006 or sites that have not participated in their past two sampling events.

DC Water receives requests from our customers to sample their tap water for lead. DC Water will include these customer-requested sites to the LCR sampling program if they meet the Tier 1 criteria, have a full lead service line according to DC Water's data, agree to participate in the program, and are not already in the Sample Pool.

DC Water will send sample bottles to all primary sites. We will send sample bottles to qualified customer-requested sites and to secondary sites until we have collected samples from at least 100 sites.

In the event that the number of valid compliance samples is insufficient to meet the LCR monitoring requirements, DC Water will add sites by random selection. The randomly selected sites will have full lead service lines and be single family homes according to our data. We will retain all homes that provide samples for the next Sample Pool (homes that do not return samples will not be included in the next Sample Pool).

DC Water will schedule sample collection based on the criteria listed below. We will add in the customer-requested sites throughout the semester as the requests are received¹. The customer-requested sites will become primary sites for the next compliance period.

1. Primary sites with full lead service lines.
2. Primary sites with partial lead service lines.
3. Secondary sites with full lead service lines.
4. Secondary sites with partial lead service lines.

DC Water will schedule and distribute samples to primary and secondary Sample Pool sites in the order listed in Table 1. DC Water may sample locations out-of-order if the first sample submitted was

¹ All Customer-requested samples that will be included in the LCR will be given an LCR Chain of Custody. All other customer-requested samples will be given a "Customer Sample" Chain of Custody. The Washington Aqueduct laboratory analyzes all LCR samples for lead, copper, and iron and analyzes the other customer samples (requested and post-lead service line replacement) for lead only.

rejected (refer to Criteria for Sample Acceptance section) and the customer requests a second test. DC Water may also sample out-of-order if the customer contacts DC Water and requests a different sample date. DC Water will not leave a sample kit under the following conditions:

- Partial lead service line replacement within 60 days of sample kit drop-off;
- Tier 1 status is suspect (e.g. possible condo conversion); or
- Construction near the home or the home 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 June 2014 (first monitoring period) and July and December 2014 (second monitoring period). The homeowner will collect first and second draw samples following the instructions in the sample kit and complete the Chain of Custody form (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 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. Chain-of-Custody or bottles have the following information:
 - Address on bottles match address on chain of custody;
 - Home is a single dwelling unit (i.e., answered “No” to having multiple dwelling units);
 - Date and time stagnation started;
 - Date and time sample collected;
 - Stagnation time between 6 to 18 hours;
 - No leaks or water use during stagnation; and
 - If the customer has a water treatment unit installed, they must have it bypassed for sampling.

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

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 container was damaged during transit; or
- There is substantial reason to suspect that the sample was subject to tampering.

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.

DC Water uses three standard letters to distribute lead test results (reference Appendix B). Letter #1 is used for first and second draw results at or below the lead action level. Letter #2 is used for first draw or first and second draw results above the lead action level. Letter #3 is used for homes with first draw results at or below the lead action level with a second draw result greater than 15 ppb. These letters have been revised to include EPA mandated language as stated under 40 CFR § 141.85(d).

DC Water has never obtained a first or second draw copper test result above the copper action level since the addition of chloramines. DC Water will provide customers with written notification if the copper test results exceed the copper action level.

Sample Pool Revisions (Table 2)

Sites will be removed from the sample pool under the following conditions:

- Site does not meet Tier 1 criteria (e.g. 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 a residence (i.e., sample kit dropped at residence), valid compliance samples were not returned from the residence.

Prior to the start of the next compliance period, DC Water will move secondary sites to the primary group if samples are collected from the site. Primary sites will be moved to the secondary list if they have not participated during their last two consecutive monitoring periods. As noted above, DC Water will add customer-requested sites to the primary group.

DC Water will assess the geographic distribution of the primary sites to ensure 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 routine monitoring report will be submitted in written and electronic format. The report format will comply with 40 CFR §141.90. DC Water will report LCR results as “0.0000” that have been reported by the WA laboratory as non-detect, <0.0005 mg/L, or less than EPA’s lead MDL of 0.001 mg/L.

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 at 5 sites on a quarterly basis beginning in February. Sites sampled in the first quarter of the year will also be sampled during the third quarter (August) of the year and sites sampled during the second quarter (May) will be sampled again during the fourth quarter (November). The parameters monitored will be pH, dissolved orthophosphate, nitrite, and free ammonia. DC Water will monitor at the 10 sites listed in Table 4 (no change from 2013 compliance monitoring). DC Water will report entry point data collected by the Washington Aqueduct along with the WQP distribution system data by January 10, 2015, which is 10 days following the end of the OCCT WQP monitoring compliance period.

**Table 1
Sample Pool**

No	Address	Pipe Material	Priority
1	10 S St NW	Lead	Primary
2	1003 Otis St NE	Lead	Primary
3	1003 Quebec Pl NW	Lead	Primary
4	1011 Taylor St NE	Lead	Primary
5	1025 44th St NE	Lead	Primary
6	109 19th St SE	Lead	Primary
7	1106 Allison St NW	Lead	Primary
8	119 16TH ST NE	Lead	Primary
9	12 14TH ST SE	Lead	Primary
10	123 TENNESSEE AVE NE	Lead	Primary
11	124 16TH ST NE	Lead	Primary
12	125 Madison St NW	Lead	Primary
13	1262 COLUMBIA RD NW	Lead	Primary
14	1305 TAYLOR ST NW	Lead	Primary
15	1310 R ST NW	Lead	Primary
16	1315 FRANKLIN ST NE	Lead	Primary
17	1318 Wallach Pl NW	Lead	Primary
18	1331 Irving St NE	Lead	Primary
19	1346 F St NE	Lead	Primary
20	1357 C St NE	Lead	Primary
21	1375 MONROE ST NW	Lead	Primary
22	1378 Taylor St NW	Lead	Primary
23	1424 S ST NW	Lead	Primary
24	1428 VARNUM ST NW	Lead	Primary
25	1434 Taylor St NW	Lead	Primary
26	1453 S St NW	Lead	Primary
27	15 Milmarson Pl NW	Lead	Primary
28	1505 Buchanan St NW	Lead	Primary
29	1513 27TH ST NW	Lead	Primary
30	1519 Olive St NE	Lead	Primary
31	1529 UPSHUR ST NW	Lead	Primary
32	1613 Webster St NW	Lead	Primary
33	1620 Webster St NW	Lead	Primary
34	1627 Gales St NE	Lead	Primary
35	1635 WEBSTER ST NW	Lead	Primary
36	1649 HARVARD ST NW	Lead	Primary
37	1659 NEWTON ST NW	Lead	Primary
38	1703 D St NE	Lead	Primary
39	1705 D St NE	Lead	Primary

No	Address	Pipe Material	Priority
40	1706 NEW JERSEY AVE NW	Lead	Primary
41	1738 ALLISON ST NW	Lead	Primary
42	1826 Jackson St NE	Lead	Primary
43	2007 37TH ST NW	Lead	Primary
44	2107 2nd St NE	Lead	Primary
45	213 49th St NE	Lead	Primary
46	2212 38th St NW	Lead	Primary
47	228 V ST NE	Lead	Primary
48	24 Evarts St NE	Lead	Primary
49	2435 33RD ST SE	Lead	Primary
50	2719 O ST NW	Lead	Primary
51	2830 BRENTWOOD RD NE	Lead	Primary
52	2832 BRENTWOOD RD NE	Lead	Primary
53	2904 P ST SE	Lead	Primary
54	2913 Brandywine St NW	Lead	Primary
55	2923 Cathedral AVE NW	Lead	Primary
56	307 7th St NE	Lead	Primary
57	309 11TH ST SE	Lead	Primary
58	3206 38th St NW	Lead	Primary
59	3211 Central Ave NE	Lead	Primary
60	3218 MACOMB ST NW	Lead	Primary
61	331 RALEIGH ST SE	Lead	Primary
62	336 Quackenbos St NE	Lead	Primary
63	3361 Stuyvesant PI NW	Lead	Primary
64	3601 WARREN ST NW	Lead	Primary
65	3625 Albermarle St NW	Lead	Primary
66	3636 13TH ST NW	Lead	Primary
67	3706 35th St NW	Lead	Primary
68	3710 Huntington St NW	Lead	Primary
69	3724 CHESAPEAKE ST NW	Lead	Primary
70	3727 T St NW	Lead	Primary
71	3908 13TH ST NW	Lead	Primary
72	4120 Grant St NE	Lead	Primary
73	4131 YUMA ST NW	Lead	Primary
74	421 Hamilton St NW	Lead	Primary
75	4214 8th St NW	Lead	Primary
76	424 Luray PI NW	Lead	Primary
77	4307 CHESAPEAKE ST NW	Lead	Primary
78	4310 37th St NW	Lead	Primary
79	4401 5TH ST NW	Lead	Primary
80	4409 Lowell St NW	Lead	Primary
81	4418 14th St NE	Lead	Primary
82	4447 HAWTHORNE ST NW	Lead	Primary

No	Address	Pipe Material	Priority
83	449 S St NW	Lead	Primary
84	450 Newton Pl NW	Lead	Primary
85	4550 30TH ST NW	Lead	Primary
86	4613 9th St NW	Lead	Primary
87	4627 49th St NW	Lead	Primary
88	4703 Macarthur Blvd NW	Lead	Primary
89	4719 9TH ST NW	Lead	Primary
90	4806 Kansas Ave NW	Lead	Primary
91	4926 Glenbrook Rd NW	Lead	Primary
92	501 Webster St NW	Lead	Primary
93	5024 7th St NW	Lead	Primary
94	5226 7th St NW	Lead	Primary
95	5234 Illinois Ave NW	Lead	Primary
96	531 Tennessee Ave NE	Lead	Primary
97	5312 ILLINOIS AVE NW	Lead	Primary
98	5318 9TH ST NW	Lead	Primary
99	5517 7th St NW	Lead	Primary
100	561 23RD PL NE	Lead	Primary
101	5613 30th St NW	Lead	Primary
102	5731 3rd Pl NW	Lead	Primary
103	580 49th Pl NE	Lead	Primary
104	5812 7TH ST NW	Lead	Primary
105	5923 33rd St NW	Lead	Primary
106	6001 33rd St NW	Lead	Primary
107	609 49TH PL NE	Lead	Primary
108	6105 Dix St NE	Lead	Primary
109	617 6th St NE	Lead	Primary
110	619 12th St NE	Lead	Primary
111	6209 30TH ST NW	Lead	Primary
112	621 Upshur St NW	Lead	Primary
113	6210 8th St NW	Lead	Primary
114	6308 8th St NW	Lead	Primary
115	636 ROCK CRK CHURCH RD NW	Lead	Primary
116	641 Gallatin St NW	Lead	Primary
117	702 9th St SE	Lead	Primary
118	75 Bates St NW	Lead	Primary
119	8 N St SW	Lead	Primary
120	804 Delafield Pl NW	Lead	Primary
121	807 Buchanan St NW	Lead	Primary
122	834 Delafield Pl NW	Lead	Primary
123	87 S St NW	Lead	Primary
124	905 Kent Pl NE	Lead	Primary

No	Address	Pipe Material	Priority
125	910 Farragut St NW	Lead	Primary
126	912 Emerson St NW	Lead	Primary
127	913 Hamlin St NE	Lead	Primary
128	926 Hamilton St NW	Lead	Primary
129	1211 Carrollsburg Pl SW	Partial Lead	Primary
130	1222 HAMILTON ST NW	Partial Lead	Primary
131	1319 POTOMAC AVE SE	Partial Lead	Primary
132	1353 JEFFERSON ST NW	Partial Lead	Primary
133	1412 S St NW	Partial Lead	Primary
134	1412 Shepherd St NW	Partial Lead	Primary
135	1420 Hamlin St NE	Partial Lead	Primary
136	1436 S St NW	Partial Lead	Primary
137	1603 Massachusetts Ave SE	Partial Lead	Primary
138	1671 Rosedale St NE	Partial Lead	Primary
139	1736 Bay St SE	Partial Lead	Primary
140	1808 KEARNEY ST NE	Partial Lead	Primary
141	1850 2ND ST NW	Partial Lead	Primary
142	223 14th Pl NE	Partial Lead	Primary
143	230 G St NE	Partial Lead	Primary
144	234 Longfellow St NW	Partial Lead	Primary
145	2408 2nd St NE	Partial Lead	Primary
146	302 RITTENHOUSE ST NW	Partial Lead	Primary
147	3030 44TH ST NW	Partial Lead	Primary
148	3036 P St NW	Partial Lead	Primary
149	308 9th St SE	Partial Lead	Primary
150	317 9th St SE	Partial Lead	Primary
151	3202 38TH ST NW	Partial Lead	Primary
152	3215 Mckinley St NW	Partial Lead	Primary
153	3301 BROWN St NW	Partial Lead	Primary
154	333 34th St NE	Partial Lead	Primary
155	3416 9th St NE	Partial Lead	Primary
156	3531 16TH ST NW	Partial Lead	Primary
157	36 Florida Ave NW	Partial Lead	Primary
158	3722 MCKINLEY ST NW	Partial Lead	Primary
159	3809 ALTON PL NW	Partial Lead	Primary
160	3907 13th St NW	Partial Lead	Primary
161	3913 8TH ST NW	Partial Lead	Primary
162	3917 8th St NW	Partial Lead	Primary
163	413 4th St SE	Partial Lead	Primary
164	420 Kenyon St NW	Partial Lead	Primary
165	4215 39th St NW	Partial Lead	Primary
166	4332 BRANDYWINE ST NW	Partial Lead	Primary
167	4616 HUNT PL NE	Partial Lead	Primary

No	Address	Pipe Material	Priority
168	4818 8th ST NW	Partial Lead	Primary
169	5003 7TH ST NW	Partial Lead	Primary
170	53 P St NW	Partial Lead	Primary
171	53 V St NW	Partial Lead	Primary
172	5301 RENO RD NW	Partial Lead	Primary
173	5404 39TH ST NW	Partial Lead	Primary
174	605 Columbia Rd NW	Partial Lead	Primary
175	605 ROCK CRK CHURCH RD NW	Partial Lead	Primary
176	617 M St NE	Partial Lead	Primary
177	6213 7TH ST NW	Partial Lead	Primary
178	7721 14th St NW	Partial Lead	Primary
179	1010 10th St NE	Lead	Secondary
180	1014 Douglas St NE	Lead	Secondary
181	1346 Madison St NW	Lead	Secondary
182	1705 2nd St NE	Lead	Secondary
183	3216 Klinge Rd NW	Lead	Secondary
184	3218 MORRISON ST NW	Lead	Secondary
185	322 TENNESSEE AVE NE	Lead	Secondary
186	3232 Klinge Rd NW	Lead	Secondary
187	3612 34th St NW	Lead	Secondary
188	4111 INGOMAR ST NW	Lead	Secondary
189	4818 ILLINOIS AVE NW	Lead	Secondary
190	524 10th St SE	Lead	Secondary
191	611 Roxboro Pl NW	Lead	Secondary
192	619 Girard St NE	Lead	Secondary
193	720 ALABAMA AVE SE	Lead	Secondary
194	753 Gresham Pl NW	Lead	Secondary
195	1207 Trinidad Ave NE	Partial Lead	Secondary
196	1614 V St SE	Partial Lead	Secondary
197	201 13th St NE	Partial Lead	Secondary
198	205 TAYLOR ST NW	Partial Lead	Secondary
199	228 Randolph Pl NE	Partial Lead	Secondary
200	231 K St NE	Partial Lead	Secondary
201	3105 34th St NW	Partial Lead	Secondary
202	312 14TH ST NE	Partial Lead	Secondary
203	313 16th St SE	Partial Lead	Secondary
204	335 17TH PL NE	Partial Lead	Secondary
205	3428 Brown St NW	Partial Lead	Secondary
206	3721 Windom Pl NW	Partial Lead	Secondary
207	42 Q St NE	Partial Lead	Secondary
208	441 Quincy St NW	Partial Lead	Secondary
209	506 Irving St NW	Partial Lead	Secondary

No	Address	Pipe Material	Priority
210	513 Florida Ave NE	Partial Lead	Secondary
211	5304 Reno Rd NW	Partial Lead	Secondary
212	5316 28th St NW	Partial Lead	Secondary
213	617 Kenyon St NW	Partial Lead	Secondary
214	661 MARYLAND AVE NE	Partial Lead	Secondary
215	736 Fairmont St NW	Partial Lead	Secondary
216	833 DECATUR ST NW	Partial Lead	Secondary
217	924 Hamilton St NW	Partial Lead	Secondary

Table 2
Site Changes From the Jul-Dec 2013 Sample Pool—
Sites Removed, Added, or Priority Status Changed

No.	Address	Pipe Material	Revision	Priority (New)
1	12 14TH ST SE	Lead	Added in December 2013 and returned samples	Primary
2	123 TENNESSEE AVE NE	Lead	Added in December 2013 and returned samples	Primary
3	124 16TH ST NE	Lead	Added in December 2013 and returned samples	Primary
4	1305 TAYLOR ST NW	Lead	Added in December 2013 and returned samples	Primary
5	1310 R ST NW	Lead	Added in December 2013 and returned samples	Primary
6	1375 MONROE ST NW	Lead	Added in December 2013 and returned samples	Primary
7	1428 VARNUM ST NW	Lead	Added in December 2013 and returned samples	Primary
8	1513 27TH ST NW	Lead	Added in December 2013 and returned samples	Primary
9	1529 UPSHUR ST NW	Lead	Added in December 2013 and returned samples	Primary
10	1659 NEWTON ST NW	Lead	Added in December 2013 and returned samples	Primary
11	1738 ALLISON ST NW	Lead	Added in December 2013 and returned samples	Primary
12	2719 O ST NW	Lead	Added in December 2013 and returned samples	Primary
13	2832 BRENTWOOD RD NE	Lead	Added in December 2013 and returned samples	Primary
14	2904 P ST SE	Lead	Added in December 2013 and returned samples	Primary
15	3722 MCKINLEY ST NW	Partial Lead	Added in December 2013 and returned samples	Primary
16	3724 CHESAPEAKE ST NW	Lead	Added in December 2013 and returned samples	Primary
17	4447 HAWTHORNE ST NW	Lead	Added in December 2013 and returned samples	Primary
18	4719 9TH ST NW	Lead	Added in December 2013 and returned samples	Primary
19	5003 7TH ST NW	Partial Lead	Added in December 2013 and returned samples	Primary
20	5312 ILLINOIS AVE NW	Lead	Added in December 2013 and returned samples	Primary
21	561 23RD PL NE	Lead	Added in December 2013 and returned samples	Primary
22	5812 7TH ST NW	Lead	Added in December 2013 and returned samples	Primary
23	609 49TH PL NE	Lead	Added in December 2013 and returned samples	Primary
24	1627 Gales St NE	Lead	Added this semester; customer requested lead test	Primary
25	1705 D St NE	Lead	Added this semester; customer requested lead test	Primary
26	309 11TH ST SE	Lead	Added this semester; customer requested lead test	Primary
27	3636 13TH ST NW	Lead	Added this semester; customer requested lead test	Primary
28	421 Hamilton St NW	Lead	Added this semester; customer requested lead test	Primary
29	450 Newton Pl NW	Lead	Added this semester; customer requested lead test	Primary
30	4806 Kansas Ave NW	Lead	Added this semester; customer requested lead test	Primary
31	6209 30TH ST NW	Lead	Added this semester; customer requested lead test	Primary
32	1671 Rosedale St NE	Partial Lead	Secondary to Primary; returned samples this semester	Primary
33	1850 2ND ST NW	Partial Lead	Secondary to Primary; returned samples this semester	Primary
34	3030 44TH ST NW	Partial Lead	Secondary to Primary; returned samples this semester	Primary
35	420 Kenyon St NW	Partial Lead	Secondary to Primary; returned samples this semester	Primary
36	621 Upshur St NW	Lead	Secondary to Primary; returned samples this semester	Primary
37	910 Farragut St NW	Lead	Secondary to Primary; returned samples this semester	Primary

No.	Address	Pipe Material	Revision	Priority (New)
38	1010 10th St NE	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
39	231 K St NE	Partial Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
40	3216 Klinge Rd NW	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
41	3218 MORRISON ST NW	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
42	322 TENNESSEE AVE NE	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
43	335 17TH PL NE	Partial Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
44	4111 INGOMAR ST NW	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
45	4818 ILLINOIS AVE NW	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
46	524 10th St SE	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
47	5316 28th St NW	Partial Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
48	611 Roxboro Pl NW	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
49	619 Girard St NE	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
50	753 Gresham Pl NW	Lead	Primary to Secondary; did not return samples in last two sampling events	Secondary
51	1339 U St SE	Lead	Removed; did not return samples in last four sample events	N/A
52	1424 S St SE	Partial Lead	Removed; did not return samples in last four sample events	N/A
53	143 UHLAND TER NE	Lead	Removed; did not return samples in last four sample events	N/A
54	1619 G St SE	Partial Lead	Removed; did not return samples in last four sample events	N/A
55	2928 33rd Pl NW	Partial Lead	Removed; did not return samples in last four sample events	N/A
56	416 7th St NE	Lead	Removed; did not return samples in last four sample events	N/A
57	4411 15th St NW	Lead	Removed; did not return samples in last four sample events	N/A
58	514 13th St SE	Partial Lead	Removed; did not return samples in last four sample events	N/A
59	5907 4th St NW	Lead	Removed; did not return samples in last four sample events	N/A
60	817 DECATUR ST NW	Partial Lead	Removed; did not return samples in last four sample events	N/A
61	822 K St NE	Lead	Removed; did not return samples in last four sample events	N/A
62	915 Farragut St NW	Lead	Removed; did not return samples in last four sample events	N/A
63	1212 E Capitol St NE	Lead	Removed; multi-family residence	N/A
64	1931 SUMMIT PL NE	Partial Lead	Removed; multi-family residence	N/A
65	1520 Locust Rd NW	Copper	Removed; no lead (see Table 3)	N/A
66	1836 L St NE	Copper	Removed; no lead (see Table 3)	N/A
67	1843 MONROE ST NW	Copper	Removed; no lead (see Table 3)	N/A

No.	Address	Pipe Material	Revision	Priority (New)
68	780 Fairmont St NW	Copper	Removed; no lead (see Table 3)	N/A
69	108 Varnum St NW	Lead	Removed; no valid samples in last four sample events	N/A
70	1353 Iris St NW	Partial Lead	Removed; no valid samples in last four sample events	N/A
71	1429 Ives Pl SE	Lead	Removed; no valid samples in last four sample events	N/A
72	1620 Hamlin St NE	Lead	Removed; no valid samples in last four sample events	N/A
73	1623 U St SE	Lead	Removed; no valid samples in last four sample events	N/A
74	1731 L St NE	Partial Lead	Removed; no valid samples in last four sample events	N/A
75	1908 Biltmore St NW	Partial Lead	Removed; no valid samples in last four sample events	N/A
76	2118 14th St SE	Partial Lead	Removed; no valid samples in last four sample events	N/A
77	2649 Bowen Rd SE	Lead	Removed; no valid samples in last four sample events	N/A
78	32 Todd Pl NE	Partial Lead	Removed; no valid samples in last four sample events	N/A
79	3511 Woodley Rd NW	Lead	Removed; no valid samples in last four sample events	N/A
80	4118 13TH ST NW	Lead	Removed; no valid samples in last four sample events	N/A
81	5817 7th St NW	Lead	Removed; no valid samples in last four sample events	N/A
82	608 Gallatin St NW	Lead	Removed; no valid samples in last four sample events	N/A
83	644 Lamont St NW	Lead	Removed; no valid samples in last four sample events	N/A
84	743 Gresham Pl NW	Lead	Removed; no valid samples in last four sample events	N/A
85	522 Park Rd NW	Partial Lead	Removed; no valid samples in last four sampling events	N/A
86	765 GIRARD ST NW	Partial Lead	Removed; no valid samples in last four sampling events	N/A
87	1120 ABBEY PL NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
88	1124 F ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
89	1246 E ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
90	1330 VALLEY PL SE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
91	137 TENNESSEE AVE NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
92	1600 GIRARD ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
93	1603 30TH ST NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
94	1643 KRAMER ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
95	1710 22ND ST SE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
96	309 K ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
97	3619 11TH ST NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
98	4114 FESSENDEN ST NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
99	4512 13TH ST NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A

No.	Address	Pipe Material	Revision	Priority (New)
100	4722 15TH ST NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
101	618 4TH ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
102	6501 3RD ST NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
103	764 GRESHAM PL NW	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
104	909 L ST NE	Lead	Removed; randomly added in Dec 2013 and did not return samples	N/A
105	124 12TH ST NE	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
106	139 11TH ST NE	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
107	1546 NEW JERSEY AVE NW	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
108	1804 WYOMING AVE NW	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
109	1831 LAMONT ST NW	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
110	325 G ST NE	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
111	72 S ST NW	Lead	Removed; randomly added in Dec 2013 and found multi-family	N/A
112	812 44TH ST NE	Lead	Removed; randomly added in Dec 2013 and found no lead due to house built in 2006	N/A
113	1203 Quincy St NW	Partial Lead	Removed; requested to not participate	N/A
114	1387 N Carolina Ave NE	Partial Lead	Removed; requested to not participate	N/A
115	3533 W PI NW	Lead	Removed; requested to not participate	N/A
116	4824 46th St NW	Lead	Removed; requested to not participate	N/A

Notes for Table 2:

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

²Primary customers that do not return samples for two consecutive LCR sampling events are moved to secondary priority.

³Customers that are secondary priority and return samples are moved to primary priority.

⁴DC Water LCR SOPs for service line material designation are to assume the last portion of observed material extends to the house. Therefore, if copper is observed on the public side and no further observations are made then we assume copper on the private side.

⁵ 3722 McKinley St NW and 5003 7th St NW reported private portion of service line replacement on their Chain of Custody.

**Table 3
Pipe Material Changes from 2013 Plan**

Address	Pipe Material	Pipe Replacement Date	Lead Service Replacement (LSR) Information
1520 Locust Rd NW	Copper	8/14/2013	Full lead service replacement completed in August 2013
1836 L St NE	Copper	4/8/2012	Public side replaced in March 2005 and private side replaced in April 2012
1843 MONROE ST NW	Copper	3/1/2004	Public side replaced in March 2004; customer reported private LSR on Sept 2013 Chain of Custody
780 Fairmont St NW	Copper	10/1/2005	Public side replaced in Oct 2005; customer reported private LSR on Oct 2013 Chain of Custody
812 44TH ST NE	Copper	N/A	Randomly added in Dec 2013 and found no lead due to house built in 2006
1436 S St NW	Partial Lead	1/1/2012	Customer reported LSR on private property on 7/2013 Chain of Custody
317 9th St SE	Partial Lead	5/1/2013	Customer reported LSR on private property on 7/2013 Chain of Custody
36 Florida Ave NW	Partial Lead	1/1/2003	Customer reported LSR on private property on 8/2013 Chain of Custody
3722 MCKINLEY ST NW	Partial Lead	1/1/2001	Customer reported LSR on private property on 12/2013 Chain of Custody
5003 7TH ST NW	Partial Lead	1/1/2001	Customer reported LSR on private property on 12/2013 Chain of Custody but could not remember when; date estimated

Table 4
Sample Sites for OCCT

Site ID	Address
1H-14	FH #12, 2225 5th St, NE
2H-3 BKJV	800 Ingraham St NW
3H-3 BKJV	2607 Military RD NW
3H-4	FH #22, 5760 Georgia Ave. NW
4H-4	Tenley Minimarket, 4326 Wisconsin Ave, NW
A1H-5 BKJV	3375 Minnesota Ave, SE
A1H-8	My 3 Sons Barber Shop, 3125 MLK Ave, SE
A2H-2	3825 Alabama Ave, SE
L-4	Harbor Police Station, 550 Water St, SW
L-7	South West Health Center, 850 Delaware, SW

APPENDIX A

Chain of Custody



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
3900 Donaldson Place, NW Washington, DC 20016

LEAD AND COPPER MONITORING PROGRAM

Address:

<<address>>

Thank you for participating in the Lead and Copper Tap Water Monitoring Program administered by the District of Columbia Water and Sewer Authority (DC Water). Your participation helps us monitor the quality of drinking water in the District. Your test results are submitted to the Environmental Protection Agency Region III to ensure the District's drinking water quality meets regulatory requirements.

Please read and follow these instructions carefully:

STEP 1 Six Hour Water Stagnation Period*

Do not use any water in your household **for at least six hours** before collecting water samples. We cannot process the samples if water is not stagnated for the required period of time.

* Water Stagnation – No water use, including flushing toilets, showering, dishwashing, laundry and any other household water use. Be sure water appliances, such as icemakers, lawn sprinkler systems and HVAC humidifiers are shut off.

Write the date and time the water was last used on the Water Sampling Form (reverse-side)

OFF AT LEAST
SIX HOURS



STEP 2 Water Sampling (two sampling bottles provided)

Collect water samples from the kitchen cold water tap. Both samples must be collected from the same cold water tap.

If a water treatment unit or filter is attached to your plumbing system or faucet, remove the filter or bypass the unit before sampling.

Sample Bottle 1

Gently open the cold water faucet and immediately fill the bottle to the top.

Immediately turn off water and tightly cap the sample bottle.

Fill out the bottle label – Collect Date, Collect Time, Collector (your name), Address, and circle 1st Draw. Leave Sample # blank.

FILL WITH COLD



Sample Bottle 1

FILL OUT LABEL



Sample Bottle 1

Sample Bottle 2 (conduct immediately after 1st bottle)

Gently open the cold water faucet at a normal flow rate and keep a finger under the flowing water. When the water temperature changes, fill the bottle to the top and tightly cap the sample bottle.

Fill out the bottle label – Collect Date, Collect Time, Collector (your name), Address, and circle 2nd Draw. Leave Sample # blank.

RUN COLD TAP
UNTIL TEMPERATURE
CHANGE



FILL WITH COLD



Sample Bottle 2

FILL OUT LABEL



Sample Bottle 2

STEP 3 COMPLETE THE WATER SAMPLING FORM

Please answer all the questions and sign the form. We cannot process the samples if the form is incomplete.

STEP 4 BOTTLE PICK UP

Place the bottles and this completed form in the bag on your front porch or where the kit was dropped off. DC Water will pick up samples on <date>. If you need to schedule an alternative pick up date, please call 202-612-3440.



CUSTOMER INFORMATION

Please change any incorrect information

Name «First_name» «Last_Name»

Address «Address»

Daytime phone # «Telephone»

Email _____

LABORATORY USE ONLY

Sample ID#: LCR

Sample Type: D System: WASA

Date/Time/Received By: _____

Premise # «premise_number»

PLEASE RESPOND TO ALL QUESTIONS

Sampling Information:

Water was last used Date: _____ Time: _____ AM / PM

Sample Bottle 1 collection Date: _____ Time: _____ AM / PM

Sample Bottle 2 collection Date: _____ Time: _____ AM / PM

Were there any leaks in the plumbing (faucets, toilets)? Yes No

Was there any other household water usage during the minimum six hour stagnation period? Yes No

Were the following units shut off or not using water during the stagnation period?

Icemaker Yes No N/A

Sprinkler system Yes No N/A

Humidifier Yes No N/A

Do you have a water treatment unit or filter attached to your plumbing system or faucet? Yes No

If yes, was the unit or filter removed or bypassed before the sampling? Yes No

Household Information:

Does your household or building have more than one unit or an apartment? Yes No

Was your home built after 1982? Yes No I don't know If yes, date: _____

Was the private portion of your water service line ever replaced (the portion of your water service pipe between the property line and the house)? Yes No I don't know If yes, date: _____

Have there been any major plumbing changes inside the house (pipes and fixtures) during the following dates:

Between January 1983 and March 1987? Yes No I don't know

After March 1987? Yes No I don't know

If yes to either, please describe the changes (what was replaced and in what section of your household)? _____

I have read and followed the sampling instructions before collecting tap samples.

Signature: _____ Date: _____

APPENDIX B

Letters to Customer with Sample Results



January 9, 2013

«First_name» «Last_Name»
«Address»
Washington, DC «Zip_Code»

Dear «First_name» «Last_Name»,

Thank you for participating in the Lead and Copper Water Monitoring Program administered by the District of Columbia Water and Sewer Authority (DC Water). Your participation helps us monitor the quality of drinking water in the District.

The sample results indicate the lead and copper levels were below the Environmental Protection Agency (EPA) action levels.

The potential for lead in drinking water varies among homes in the District. Drinking water is essentially lead-free in the distribution system and prior to entering a water service pipe. Lead can enter water that travels through a lead service pipe or other household lead sources, such as lead solder, lead-based fixtures and galvanized plumbing. A lead service pipe connects the water main in the street to your household plumbing. **According to our records, your home has a full or partial lead service pipe.** (If this information is inaccurate, please contact Customer Service at 202-354-3600.)

If you are pregnant or have children under age six, you should consider using cold, filtered tap water for drinking and cooking until all sources of lead are removed. This includes water used for making infant formula, beverages and ice.

Two water samples were collected from your household tap:

- First draw: Measures lead release from household plumbing and fixtures, especially potential lead sources near the tap where the sample is collected. (Required by EPA)
- Second draw: Measures lead release from the lead service pipe and household plumbing.

The EPA action levels for lead and copper are 15 parts per billion (ppb) and 1,300 ppb, respectively. An action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The Maximum Contaminant Level Goals (MCLG) for lead and copper are zero and 1,300 ppb, respectively. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Sample	Lead Level (ppb)	Copper Level (ppb)
First	«Lead_mgL_1st_Draw»	«Copper_mgL_1st_Draw»
Second	«Lead_mgL_2nd_Draw»	«Copper_mgL_2nd_Draw»
EPA Action Level	15 ppb	1300 ppb

Lead can pose a significant risk to your health if too much of it enters your body. The greatest risk of lead exposure is to infants, young children and pregnant women. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. 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. Some people who drink water containing copper in excess of the action level may, with short term

exposure, experience gastrointestinal distress, and with long-term exposure may experience liver or kidney damage.

The District Department of the Environment (DDOE) provides information on blood lead testing for young children, pregnant women and nursing mothers. To learn more about protecting yourself and your family from lead exposure, contact DDOE at 202-654-6036 or visit www.ddoe.dc.gov.

Minimizing lead exposure involves the shared responsibility of DC Water and individual residents. DC Water encourages you to take the following steps:

Remove lead sources

- Replace your lead service pipe with copper. DC Water will replace your lead service pipe in public space if you choose to replace the private portion. For more information about lead service pipe replacement, contact Customer Service at 202-354-3600.
- Replace household galvanized plumbing. When lead is released from a lead service pipe and passes through galvanized plumbing (particularly over decades of use), lead can accumulate on the inside, corroded walls of this plumbing. Lead release from galvanized pipes can continue to occur even after a lead service pipe is replaced.
- Install lead-free plumbing fixtures certified to meet NSF Standard 61 Annex G (NSF 61-G). It is important to know that other fixtures may be labeled "lead-free" and still contain up to eight percent lead.
- Flush cold water taps after installing new household pipes or fixtures. New plumbing can release metals after installation. Flush for five minutes at a high flow rate once a day for three days.

Use filtered tap water

- Be sure to select a filter certified to meet NSF Standard 53 for lead removal. The filter package should specifically list the device as certified for removing the contaminant "lead."
- We recommend devices that are installed at your faucet tap (also known as point-of-use) or pitcher-style filters. You can search the NSF International website for certified drinking water filters at www.nsf.org/Certified/DWTU or call 1-800-673-8010.
- Be sure to routinely replace filter cartridges according to the manufacturer's instructions.

Do not use your hot water tap for drinking and cooking

- Always use cold tap water, then heat water if necessary. Boiling water does not reduce lead levels.
- Hot tap water can cause a greater amount of lead to release from plumbing. Always use cold tap water, including water used for making ice, beverages and infant formula.

Run the cold water tap when water is not used for several hours

- Run your cold water tap for two minutes before using it for drinking or cooking.
- Lead and other metals can dissolve in water when it sits in pipes for a few hours.

Remove and clean faucet aerators

- Lead particles and sediment can collect in the aerator screen located at the tip of your faucet.

We appreciate your participation in the Lead and Copper Water Monitoring Program. If you have additional questions, please contact the Drinking Water Division at 202-612-3440 or visit www.dcwater.com/lead.

Sincerely,



George S. Hawkins, General Manager



January 9, 2013

«First_name» «Last_Name»
«Address»
Washington, DC «Zip_Code»

Dear «First_name» «Last_Name»,

Thank you for participating in the Lead and Copper Water Monitoring Program administered by the District of Columbia Water and Sewer Authority (DC Water). Your participation helps us monitor the quality of drinking water in the District.

The sample results indicate the lead level was above the Environmental Protection Agency (EPA) action level. DC Water recommends that you take steps to minimize potential lead exposure. You should filter your water until lead levels decline in your drinking water. If you are pregnant or have children under age six, use cold, filtered tap water for drinking and cooking until all sources of lead are removed. This includes water used for making infant formula, beverages and ice.

The potential for lead in drinking water varies among homes in the District. Drinking water is essentially lead-free in the distribution system and prior to entering a water service pipe. Lead can enter water that travels through a lead service pipe or other household lead sources, such as lead solder, lead-based fixtures and galvanized plumbing. A lead service pipe connects the water main in the street to your household plumbing. **According to our records, your home has a full or partial lead service pipe.** (If this information is inaccurate, please contact Customer Service at 202-354-3600.)

Two water samples were collected from your household tap:

- First draw: Measures lead release from household plumbing and fixtures, especially potential lead sources near the tap where the sample is collected. (Required by EPA)
- Second draw: Measures lead release from the lead service pipe and household plumbing.

The first draw water sample was above the lead action level. The EPA action levels for lead and copper are 15 parts per billion (ppb) and 1,300 ppb, respectively. An action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The Maximum Contaminant Level Goals (MCLG) for lead and copper are zero and 1,300 ppb, respectively. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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EPA Action Level	15 ppb	1300 ppb

Lead can pose a significant risk to your health if too much of it enters your body. The greatest risk of lead exposure is to infants, young children and pregnant women. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. 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.

Short-term exposure to copper levels above the action level may cause gastrointestinal distress, and long-term exposure may contribute to liver or kidney damage.

The District Department of the Environment (DDOE) provides information on blood lead testing for young children, pregnant women and nursing mothers. To learn more about protecting yourself and your family from lead exposure, contact DDOE at 202-654-6036 or visit www.ddoe.dc.gov.

Minimizing lead exposure involves the shared responsibility of DC Water and individual residents. DC Water encourages you to take the following steps:

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- Install lead-free plumbing fixtures certified to meet NSF Standard 61 Annex G (NSF 61-G). It is important to know that other fixtures may be labeled "lead-free" and still contain up to eight percent lead.
- Flush cold water taps after installing new household pipes or fixtures. New plumbing can release metals after installation. Flush for five minutes at a high flow rate once a day for three days.

Use filtered tap water

- Be sure to select a filter certified to meet NSF Standard 53 for lead removal. The filter package should specifically list the device as certified for removing the contaminant "lead."
- We recommend devices that are installed at your faucet tap (also known as point-of-use) or pitcher-style filters. You can search the NSF International website for certified drinking water filters at www.nsf.org/Certified/DWTU or call 1-800-673-8010.
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Do not use your hot water tap for drinking and cooking

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Run the cold water tap when water is not used for several hours

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The second draw water sample was above the lead action level. The EPA action levels for lead and copper are 15 parts per billion (ppb) and 1,300 ppb, respectively. An action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The Maximum Contaminant Level Goals (MCLG) for lead and copper are zero and 1,300 ppb, respectively. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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Sincerely,



George S. Hawkins, General Manager