



Lead and Copper Compliance Report
July through December 2007

Table 1 summarizes the District of Columbia Water and Sewer Authority's (WASA) Lead and Copper compliance results for the monitoring period July through December 2007.

Table1: Lead and Copper Summary Data

Number of Samples	
Total	101
90th Percentile First Draw Concentrations	
Lead mg/L	0.011
Copper mg/L	0.070
Service Line Materials	
Full Lead	78%
Partial Lead	22%

The appendices and attachments contain the following information and data:

- Appendix A: Lead and Copper Compliance Data
 - Table A.1 First Draw Lead Results
 - Table A.2 First Draw Copper Results
- Appendix B: Additional Monitoring Data
 - Table B.1 Second Draw Lead Results
 - Table B.2 Second Draw Copper Results
- Appendix C: Sample Kit Distribution
 - Table C.1 Sample Kit Distribution
 - Table C.2 Sample Kits Not Returned
 - Table C.3 Samples Returned and Rejected for Compliance Analysis
 - Table C.4 Deviations from Sample Order
 - Table C.5 Sites Sampled in First Semester 2007 and Not Sampled in Second Semester 2007

- Appendix D: Revisions to Sample Pool
 - Table D.1 Sites with Service Line Material Changes that had Compliance Samples for Second Semester 2007
- Appendix E: Invalidations
- Attachment 1: Washington Aqueduct Test Results for LCR Compliance
- Attachment 2: Other additional monitoring data:
 - Customer requested tests
 - Metals investigation
 - AWWARF research data
 - Lead profiles

Appendix A – Lead and Copper Compliance Data

Table A.1 Lead Results

No	Address	Service Line Material	Collection Date	Lead (mg/L) 1st Draw
1	106 7TH ST NE	Lead	7/25/2007	0.0000
2	1104 TRINIDAD AVE NE	Lead	7/26/2007	0.0000
3	119 11th St NE	Lead	7/25/2007	0.0000
4	1315 FRANKLIN ST NE	Lead	7/25/2007	0.0000
5	1349 Wallach PI NW	Lead	7/27/2007	0.0000
6	1706 NEW JERSEY AVE NW	Lead	7/25/2007	0.0000
7	3104 Hawthorne St NW	Partial Lead	10/23/2007	0.0000
8	311 ELM ST NW	Lead	8/30/2007	0.0000
9	3913 8TH ST NW	Partial Lead	10/24/2007	0.0000
10	2724 36TH PL NW	Lead	11/7/2007	0.0005
11	339 Randolph St NW	Lead	11/20/2007	0.0005
12	517 4th St SE	Lead	9/26/2007	0.0006
13	1115 PARK ST NE	Partial Lead	9/27/2007	0.0009
14	4332 BRANDYWINE ST NW	Partial Lead	10/24/2007	0.0009
15	1622 G St SE	Lead	10/23/2007	0.0010
16	349 TENNESSEE AVE NE	Lead	9/26/2007	0.0010
17	3530 Porter St NW	Lead	11/8/2007	0.0013
18	336 Quackenbos St NE	Lead	11/7/2007	0.0014
19	1133 Park St NE	Lead	7/26/2007	0.0015
20	926 14TH ST SE	Lead	9/26/2007	0.0015
21	4518 14TH ST NW	Lead	9/26/2007	0.0016
22	3218 MORRISON ST NW	Lead	8/28/2007	0.0018
23	4410 New Hampshire Ave NW	Lead	9/25/2007	0.0018
24	1204 Longfellow St NW	Lead	7/25/2007	0.0020
25	6213 7TH ST NW	Partial Lead	10/24/2007	0.0020
26	2702 P ST NW	Lead	8/28/2007	0.0021
27	3601 WARREN ST NW	Lead	9/26/2007	0.0022
28	3700 Quebec St NW	Lead	11/29/2007	0.0024
29	834 Delafield PI NW	Lead	9/26/2007	0.0024
30	1220 Kennedy St NW	Lead	7/26/2007	0.0026
31	1412 N Carolina Ave NE	Partial Lead	9/27/2007	0.0026
32	4718 Sheriff Rd NE	Lead	9/26/2007	0.0026
33	1319 POTOMAC AVE SE	Partial Lead	9/25/2007	0.0027
34	144 Tennessee Ave NE	Lead	7/26/2007	0.0027
35	1010 10th St NE	Lead	7/25/2007	0.0028
36	1812 M St NE	Lead	7/25/2007	0.0029
37	119 Kentucky Ave SE	Lead	10/24/2007	0.0030
38	3206 38th St NW	Lead	11/7/2007	0.0030
39	3232 Klinge Rd NW	Lead	11/7/2007	0.0030
40	119 16TH ST NE	Lead	7/24/2007	0.0033
41	1354 W St SE	Lead	10/23/2007	0.0034
42	3908 13TH ST NW	Lead	8/28/2007	0.0034
43	1863 MONROE ST NW	Partial Lead	9/25/2007	0.0035

No	Address	Service Line Material	Collection Date	Lead (mg/L) 1st Draw
44	331 RALEIGH ST SE	Lead	8/27/2007	0.0035
45	5405 39TH ST NW	Lead	9/26/2007	0.0035
46	1217 Orren St NE	Lead	10/24/2007	0.0036
47	4622 15TH ST NW	Lead	9/26/2007	0.0036
48	1211 Carrollsburg PI SW	Partial Lead	9/27/2007	0.0037
49	1635 WEBSTER ST NW	Lead	7/26/2007	0.0037
50	1843 MONROE ST NW	Partial Lead	9/26/2007	0.0037
51	3618 PORTER ST NW	Lead	8/28/2007	0.0038
52	829 Euclid St NW	Lead	9/26/2007	0.0039
53	143 UHLAND TER NE	Lead	7/25/2007	0.0040
54	518 Varnum St NW	Partial Lead	10/22/2007	0.0042
55	3301 BROWN St NW	Partial Lead	10/23/2007	0.0044
56	3418 Oliver St NW	Lead	11/7/2007	0.0045
57	4111 INGOMAR ST NW	Lead	8/29/2007	0.0047
58	2007 37TH ST NW	Lead	7/24/2007	0.0048
59	1747 Irving St NW	Lead	10/31/2007	0.0050
60	3550 ALBEMARLE ST NW	Lead	8/29/2007	0.0050
61	1533 Constitution Ave NE	Partial Lead	11/6/2007	0.0053
62	1212 E Capitol St NE	Lead	7/25/2007	0.0054
63	1400 FLORAL ST NW	Lead	7/25/2007	0.0054
64	4609 30TH ST NW	Partial Lead	10/24/2007	0.0054
65	4307 CHESAPEAKE ST NW	Lead	9/25/2007	0.0055
66	1429 Ives PI SE	Lead	10/24/2007	0.0056
67	1320 Delafield PI NW	Lead	7/26/2007	0.0059
68	4818 8TH ST NW	Partial Lead	10/23/2007	0.0060
69	2212 38th St NW	Lead	11/4/2007	0.0061
70	4304 Fessenden St NW	Partial Lead	8/28/2007	0.0062
71	3531 16TH ST NW	Partial Lead	8/28/2007	0.0063
72	821 BUCHANAN ST NW	Lead	9/26/2007	0.0063
73	1202 Staples St NE	Partial Lead	7/24/2007	0.0065
74	2435 33RD ST SE	Lead	8/29/2007	0.0065
75	3424 PORTER ST NW	Lead	8/29/2007	0.0065
76	1424 S ST NW	Lead	7/23/2007	0.0066
77	5229 7TH ST NW	Lead	10/2/2007	0.0066
78	1929 SUMMIT PL NE	Lead	7/25/2007	0.0068
79	302 RITTENHOUSE ST NW	Partial Lead	10/24/2007	0.0068
80	1749 Irving St NW	Lead	11/6/2007	0.0071
81	3408 LOWELL ST NW	Lead	8/29/2007	0.0073
82	1506 ALLISON ST NW	Lead	7/25/2007	0.0074
83	228 V ST NE	Lead	10/30/2007	0.0075
84	1353 JEFFERSON ST NW	Lead	7/26/2007	0.0077
85	3211 Central Ave NE	Lead	8/29/2007	0.0094
86	3427 Oliver St NW	Lead	11/7/2007	0.0094
87	1301 Michigan Ave NE	Lead	7/25/2007	0.0098
88	1203 Quincy St NW	Lead	7/24/2007	0.0099
89	1231 17th St NE	Lead	7/25/2007	0.0099
90	4413 GREENWICH PKWY NW	Lead	9/26/2007	0.0101
91	424 Luray PI NW	Lead	8/29/2007	0.0109
92	4325 IOWA AVE NW	Lead	9/26/2007	0.0116

No	Address	Service Line Material	Collection Date	Lead (mg/L) 1st Draw
93	1334 HEMLOCK ST NW	Partial Lead	9/25/2007	0.0119
94	4327 IOWA AVE NW	Partial Lead	9/26/2007	0.0124
95	1649 HARVARD ST NW	Lead	7/25/2007	0.0126
96	3412 GARRISON ST NW	Lead	8/29/2007	0.0128
97	125 Madison St NW	Lead	7/25/2007	0.0144
98	1603 Hobart St NW	Lead	10/23/2007	0.0172
99	4401 5TH ST NW	Lead	9/26/2007	0.0252
100	1523 D St SE	Partial Lead	10/23/2007	0.0340
101	4703 Macarthur Blvd NW	Lead	9/26/2007	0.0416

Notes:

- 1) All addresses meet Tier 1 criteria under 141.86(a) (3) as single family structures with either full or partial lead service lines based on WASA's customer information and service line inventory. Service line material listings are representative of the pipe material at the time the sample was collected.
- 2) Results expressed as "0.0000" may have been reported by the laboratory as non-detect or < 0.0005 mg/L.
- 3) Bolded data represents 1st draw 90th percentile.

Table A.2 Copper Results

No	Address	Service Line Material	Collection Date	Copper (mg/L) 1st Draw
1	1204 Longfellow St NW	Lead	7/25/2007	0.006
2	5229 7TH ST NW	Lead	10/2/2007	0.006
3	4518 14TH ST NW	Lead	9/26/2007	0.007
4	4718 Sheriff Rd NE	Lead	9/26/2007	0.007
5	143 UHLAND TER NE	Lead	7/25/2007	0.008
6	1533 Constitution Ave NE	Partial Lead	11/6/2007	0.008
7	1104 TRINIDAD AVE NE	Lead	7/26/2007	0.009
8	119 11th St NE	Lead	7/25/2007	0.009
9	1220 Kennedy St NW	Lead	7/26/2007	0.009
10	1349 Wallach PI NW	Lead	7/27/2007	0.009
11	2007 37TH ST NW	Lead	7/24/2007	0.010
12	349 TENNESSEE AVE NE	Lead	9/26/2007	0.010
13	1812 M St NE	Lead	7/25/2007	0.011
14	3412 GARRISON ST NW	Lead	8/29/2007	0.011
15	6213 7TH ST NW	Partial Lead	10/24/2007	0.011
16	2724 36TH PL NW	Lead	11/7/2007	0.012
17	311 ELM ST NW	Lead	8/30/2007	0.012
18	3424 PORTER ST NW	Lead	8/29/2007	0.013
19	4609 30TH ST NW	Partial Lead	10/24/2007	0.013
20	1203 Quincy St NW	Lead	7/24/2007	0.014
21	1217 Orren St NE	Lead	10/24/2007	0.014
22	1301 Michigan Ave NE	Lead	7/25/2007	0.014
23	1863 MONROE ST NW	Partial Lead	9/25/2007	0.014
24	3211 Central Ave NE	Lead	8/29/2007	0.015
25	3908 13TH ST NW	Lead	8/28/2007	0.015
26	119 Kentucky Ave SE	Lead	10/24/2007	0.016
27	2702 P ST NW	Lead	8/28/2007	0.018
28	1747 Irving St NW	Lead	10/31/2007	0.020
29	3618 PORTER ST NW	Lead	8/28/2007	0.020
30	3913 8TH ST NW	Partial Lead	10/24/2007	0.020
31	829 Euclid St NW	Lead	9/26/2007	0.020
32	1133 Park St NE	Lead	7/26/2007	0.021
33	1635 WEBSTER ST NW	Lead	7/26/2007	0.021
34	3427 Oliver St NW	Lead	11/7/2007	0.021
35	4325 IOWA AVE NW	Lead	9/26/2007	0.021
36	518 Varnum St NW	Partial Lead	10/22/2007	0.021
37	1429 Ives PI SE	Lead	10/24/2007	0.022
38	1706 NEW JERSEY AVE NW	Lead	7/25/2007	0.022
39	125 Madison St NW	Lead	7/25/2007	0.023

No	Address	Service Line Material	Collection Date	Copper (mg/L) 1st Draw
40	1354 W St SE	Lead	10/23/2007	0.023
41	4111 INGOMAR ST NW	Lead	8/29/2007	0.023
42	1010 10th St NE	Lead	7/25/2007	0.024
43	1231 17th St NE	Lead	7/25/2007	0.025
44	926 14TH ST SE	Lead	9/26/2007	0.025
45	4413 GREENWICH PKWY NW	Lead	9/26/2007	0.026
46	302 RITTENHOUSE ST NW	Partial Lead	10/24/2007	0.027
47	424 Luray PI NW	Lead	8/29/2007	0.027
48	3206 38th St NW	Lead	11/7/2007	0.028
49	3408 LOWELL ST NW	Lead	8/29/2007	0.028
50	2435 33RD ST SE	Lead	8/29/2007	0.029
51	517 4th St SE	Lead	9/26/2007	0.029
52	1115 PARK ST NE	Partial Lead	9/27/2007	0.030
53	144 Tennessee Ave NE	Lead	7/26/2007	0.030
54	1649 HARVARD ST NW	Lead	7/25/2007	0.030
55	2212 38th St NW	Lead	11/4/2007	0.030
56	336 Quackenbos St NE	Lead	11/7/2007	0.030
57	3531 16TH ST NW	Partial Lead	8/28/2007	0.030
58	4622 15TH ST NW	Lead	9/26/2007	0.031
59	1202 Staples St NE	Partial Lead	7/24/2007	0.032
60	1622 G St SE	Lead	10/23/2007	0.032
61	1315 FRANKLIN ST NE	Lead	7/25/2007	0.033
62	1603 Hobart St NW	Lead	10/23/2007	0.033
63	3232 Klinge Rd NW	Lead	11/7/2007	0.033
64	1412 N Carolina Ave NE	Partial Lead	9/27/2007	0.034
65	3218 MORRISON ST NW	Lead	8/28/2007	0.034
66	3550 ALBEMARLE ST NW	Lead	8/29/2007	0.034
67	3700 Quebec St NW	Lead	11/29/2007	0.035
68	3530 Porter St NW	Lead	11/8/2007	0.037
69	1334 HEMLOCK ST NW	Partial Lead	9/25/2007	0.038
70	4307 CHESAPEAKE ST NW	Lead	9/25/2007	0.039
71	1319 POTOMAC AVE SE	Partial Lead	9/25/2007	0.040
72	1400 FLORAL ST NW	Lead	7/25/2007	0.040
73	1353 JEFFERSON ST NW	Lead	7/26/2007	0.042
74	4304 Fessenden St NW	Partial Lead	8/28/2007	0.042
75	3601 WARREN ST NW	Lead	9/26/2007	0.043
76	1424 S ST NW	Lead	7/23/2007	0.046
77	3418 Oliver St NW	Lead	11/7/2007	0.046
78	1212 E Capitol St NE	Lead	7/25/2007	0.047
79	1523 D St SE	Partial Lead	10/23/2007	0.047
80	834 Delafield PI NW	Lead	9/26/2007	0.047
81	106 7TH ST NE	Lead	7/25/2007	0.051

No	Address	Service Line Material	Collection Date	Copper (mg/L) 1st Draw
82	4410 New Hampshire Ave NW	Lead	9/25/2007	0.051
83	5405 39TH ST NW	Lead	9/26/2007	0.054
84	1749 Irving St NW	Lead	11/6/2007	0.056
85	331 RALEIGH ST SE	Lead	8/27/2007	0.056
86	1929 SUMMIT PL NE	Lead	7/25/2007	0.061
87	119 16TH ST NE	Lead	7/24/2007	0.062
88	1211 Carrollsburg PI SW	Partial Lead	9/27/2007	0.068
89	4401 5TH ST NW	Lead	9/26/2007	0.068
90	1320 Delafield PI NW	Lead	7/26/2007	0.069
91	228 V ST NE	Lead	10/30/2007	0.070
92	4332 BRANDYWINE ST NW	Partial Lead	10/24/2007	0.074
93	3104 Hawthorne St NW	Partial Lead	10/23/2007	0.077
94	4818 8TH ST NW	Partial Lead	10/23/2007	0.082
95	4327 IOWA AVE NW	Partial Lead	9/26/2007	0.086
96	821 BUCHANAN ST NW	Lead	9/26/2007	0.091
97	1843 MONROE ST NW	Partial Lead	9/26/2007	0.098
98	1506 ALLISON ST NW	Lead	7/25/2007	0.103
99	3301 BROWN St NW	Partial Lead	10/23/2007	0.120
100	339 Randolph St NW	Lead	11/20/2007	0.163
101	4703 Macarthur Blvd NW	Lead	9/26/2007	0.210

Notes:

- 1) All addresses meet Tier 1 criteria under 141.86(a) (3) as single family structures with either full or partial lead service lines based on WASA's customer information and service line inventory.
- 2) Service line material listings are representative of the pipe material at the time the sample was collected.
- 3) Bolded data represents 1st draw 90th percentile.

Appendix B: Additional Monitoring Data

Tables B.1 and B.2 present second draw results for lead and copper compliance sampling. Other additional monitoring data presented in Attachment 1 to this report contains sample data collected from other WASA programs that focused on lead and/or copper or other metals that included lead sample results. A description of the program followed by the data set is included in Attachment 1.

Table B.1 Second Draw Lead Results

No	Address	Service Line Material	Collection Date	Lead (mg/L) 2nd Draw
1	106 7TH ST NE	Lead	7/25/2007	0.0000
2	1104 TRINIDAD AVE NE	Lead	7/26/2007	0.0000
3	1133 Park St NE	Lead	7/26/2007	0.0000
4	119 11th St NE	Lead	7/25/2007	0.0000
5	1315 FRANKLIN ST NE	Lead	7/25/2007	0.0000
6	1349 Wallach PI NW	Lead	7/27/2007	0.0000
7	2702 P ST NW	Lead	8/28/2007	0.0000
8	2724 36TH PL NW	Lead	11/7/2007	0.0000
9	3104 Hawthorne St NW	Partial Lead	10/23/2007	0.0000
10	311 ELM ST NW ¹	Lead	8/30/2007	0.0000
11	336 Quackenbos St NE	Lead	11/7/2007	0.0000
12	339 Randolph St NW	Lead	11/20/2007	0.0000
13	517 4th St SE	Lead	9/26/2007	0.0000
14	3913 8TH ST NW	Partial Lead	10/24/2007	0.0005
15	1622 G St SE	Lead	10/23/2007	0.0006
16	1706 NEW JERSEY AVE NW	Lead	7/25/2007	0.0010
17	1115 PARK ST NE	Partial Lead	9/27/2007	0.0011
18	349 TENNESSEE AVE NE	Lead	9/26/2007	0.0012
19	4518 14TH ST NW	Lead	9/26/2007	0.0014
20	3601 WARREN ST NW	Lead	9/26/2007	0.0016
21	3908 13TH ST NW	Lead	8/28/2007	0.0016
22	4332 BRANDYWINE ST NW	Partial Lead	10/24/2007	0.0016
23	3218 MORRISON ST NW	Lead	8/28/2007	0.0017
24	926 14TH ST SE	Lead	9/26/2007	0.0018
25	2007 37TH ST NW	Lead	7/24/2007	0.0019
26	834 Delafield PI NW	Lead	9/26/2007	0.0020
27	119 Kentucky Ave SE	Lead	10/24/2007	0.0022
28	3530 Porter St NW	Lead	11/8/2007	0.0022
29	1204 Longfellow St NW	Lead	7/25/2007	0.0023
30	1506 ALLISON ST NW	Lead	7/25/2007	0.0023
31	1010 10th St NE	Lead	7/25/2007	0.0024
32	1812 M St NE	Lead	7/25/2007	0.0024
33	4410 New Hampshire Ave NW	Lead	9/25/2007	0.0024
34	3232 Klinge Rd NW	Lead	11/7/2007	0.0026

No	Address	Service Line Material	Collection Date	Lead (mg/L) 2nd Draw
35	1319 POTOMAC AVE SE	Partial Lead	9/25/2007	0.0027
36	1412 N Carolina Ave NE	Partial Lead	9/27/2007	0.0027
37	3427 Oliver St NW	Lead	11/7/2007	0.0028
38	3700 Quebec St NW	Lead	11/29/2007	0.0028
39	4718 Sheriff Rd NE	Lead	9/26/2007	0.0028
40	119 16TH ST NE	Lead	7/24/2007	0.0030
41	1217 Orren St NE ¹	Lead	10/24/2007	0.0036
42	1533 Constitution Ave NE	Partial Lead	11/6/2007	0.0036
43	1863 MONROE ST NW	Partial Lead	9/25/2007	0.0036
44	3418 Oliver St NW	Lead	11/7/2007	0.0036
45	829 Euclid St NW	Lead	9/26/2007	0.0037
46	1747 Irving St NW	Lead	10/31/2007	0.0038
47	4111 INGOMAR ST NW	Lead	8/29/2007	0.0038
48	1212 E Capitol St NE	Lead	7/25/2007	0.0039
49	1334 HEMLOCK ST NW	Partial Lead	9/25/2007	0.0039
50	4622 15TH ST NW	Lead	9/26/2007	0.0039
51	518 Varnum St NW	Partial Lead	10/22/2007	0.0039
52	1203 Quincy St NW	Lead	7/24/2007	0.0040
53	143 UHLAND TER NE	Lead	7/25/2007	0.0042
54	6213 7TH ST NW	Partial Lead	10/24/2007	0.0043
55	5405 39TH ST NW	Lead	9/26/2007	0.0047
56	1301 Michigan Ave NE ¹	Lead	7/25/2007	0.0049
57	1843 MONROE ST NW	Partial Lead	9/26/2007	0.0050
58	1929 SUMMIT PL NE	Lead	7/25/2007	0.0050
59	4327 IOWA AVE NW	Partial Lead	9/26/2007	0.0052
60	1354 W St SE	Lead	10/23/2007	0.0054
61	2212 38th St NW	Lead	11/4/2007	0.0054
62	1320 Delafield PI NW	Lead	7/26/2007	0.0055
63	331 RALEIGH ST SE	Lead	8/27/2007	0.0056
64	1635 WEBSTER ST NW	Lead	7/26/2007	0.0059
65	144 Tennessee Ave NE	Lead	7/26/2007	0.0060
66	4609 30TH ST NW	Partial Lead	10/24/2007	0.0062
67	3550 ALBEMARLE ST NW	Lead	8/29/2007	0.0063
68	1211 Carrollsburg PI SW	Partial Lead	9/27/2007	0.0066
69	4304 Fessenden St NW	Partial Lead	8/28/2007	0.0069
70	1353 JEFFERSON ST NW	Lead	7/26/2007	0.0070
71	3531 16TH ST NW	Partial Lead	8/28/2007	0.0072
72	1202 Staples St NE	Partial Lead	7/24/2007	0.0093
73	3301 BROWN St NW	Partial Lead	10/23/2007	0.0094
74	4325 IOWA AVE NW	Lead	9/26/2007	0.0094
75	302 RITTENHOUSE ST NW	Partial Lead	10/24/2007	0.0099
76	3424 PORTER ST NW	Lead	8/29/2007	0.0099
77	1424 S ST NW	Lead	7/23/2007	0.0102
78	1220 Kennedy St NW	Lead	7/26/2007	0.0118
79	1649 HARVARD ST NW ¹	Lead	7/25/2007	0.0122
80	3412 GARRISON ST NW	Lead	8/29/2007	0.0124
81	5229 7TH ST NW	Lead	10/2/2007	0.0124
82	4307 CHESAPEAKE ST NW	Lead	9/25/2007	0.0125
83	3206 38th St NW	Lead	11/7/2007	0.0126

No	Address	Service Line Material	Collection Date	Lead (mg/L) 2nd Draw
84	4413 GREENWICH PKWY NW	Lead	9/26/2007	0.0127
85	4818 8TH ST NW	Partial Lead	10/23/2007	0.0135
86	3618 PORTER ST NW	Lead	8/28/2007	0.0137
87	1400 FLORAL ST NW	Lead	7/25/2007	0.0138
88	424 Luray PI NW	Lead	8/29/2007	0.0139
89	4401 5TH ST NW	Lead	9/26/2007	0.0165
90	821 BUCHANAN ST NW	Lead	9/26/2007	0.0166
91	3211 Central Ave NE	Lead	8/29/2007	0.0168
92	1603 Hobart St NW	Lead	10/23/2007	0.0170
93	125 Madison St NW	Lead	7/25/2007	0.0178
94	3408 LOWELL ST NW	Lead	8/29/2007	0.0182
95	2435 33RD ST SE	Lead	8/29/2007	0.0183
96	1231 17th St NE	Lead	7/25/2007	0.0189
97	1523 D St SE	Partial Lead	10/23/2007	0.0208
98	1749 Irving St NW	Lead	11/6/2007	0.0211
99	1429 Ives PI SE	Lead	10/24/2007	0.0233
100	228 V ST NE	Lead	10/30/2007	0.0276
101	4703 Macarthur Blvd NW	Lead	9/26/2007	0.0289

Notes:

- 1) Service line material listings are representative of the pipe material at the time the sample was collected.
- 2) Results expressed as "0.0000" may have been reported by the laboratory as non-detect or < 0.0005 mg/L.
- 3) ¹These samples were collected more than 30 minutes after the first draw sample and therefore may not be representative.

Table B.2 Second Draw Copper Results

No	Address	Service Line Material	Collection Date	Copper (mg/L) 2nd Draw
1	3427 Oliver St NW	Lead	11/7/2007	0.003
2	3618 PORTER ST NW	Lead	8/28/2007	0.004
3	4111 INGOMAR ST NW	Lead	8/29/2007	0.004
4	2702 P ST NW	Lead	8/28/2007	0.005
5	3412 GARRISON ST NW	Lead	8/29/2007	0.005
6	3418 Oliver St NW	Lead	11/7/2007	0.005
7	2007 37TH ST NW	Lead	7/24/2007	0.006
8	5229 7TH ST NW	Lead	10/2/2007	0.006
9	1104 TRINIDAD AVE NE	Lead	7/26/2007	0.007
10	1320 Delafield PI NW	Lead	7/26/2007	0.007
11	3601 WARREN ST NW	Lead	9/26/2007	0.007
12	4518 14TH ST NW	Lead	9/26/2007	0.007
13	4718 Sheriff Rd NE	Lead	9/26/2007	0.007
14	517 4th St SE	Lead	9/26/2007	0.007
15	6213 7TH ST NW	Partial Lead	10/24/2007	0.007
16	143 UHLAND TER NE	Lead	7/25/2007	0.008
17	3424 PORTER ST NW	Lead	8/29/2007	0.008
18	1203 Quincy St NW	Lead	7/24/2007	0.009
19	1204 Longfellow St NW	Lead	7/25/2007	0.009
20	125 Madison St NW	Lead	7/25/2007	0.009
21	1349 Wallach PI NW	Lead	7/27/2007	0.009
22	2212 38th St NW	Lead	11/4/2007	0.009
23	2435 33RD ST SE	Lead	8/29/2007	0.009
24	3206 38th St NW	Lead	11/7/2007	0.009
25	3218 MORRISON ST NW	Lead	8/28/2007	0.009
26	331 RALEIGH ST SE	Lead	8/27/2007	0.009
27	336 Quackenbos St NE	Lead	11/7/2007	0.009
28	3408 LOWELL ST NW	Lead	8/29/2007	0.009
29	5405 39TH ST NW	Lead	9/26/2007	0.009
30	119 11th St NE	Lead	7/25/2007	0.010
31	119 16TH ST NE	Lead	7/24/2007	0.010
32	119 Kentucky Ave SE	Lead	10/24/2007	0.010
33	1354 W St SE	Lead	10/23/2007	0.010
34	1635 WEBSTER ST NW	Lead	7/26/2007	0.010
35	1706 NEW JERSEY AVE NW	Lead	7/25/2007	0.010
36	1812 M St NE	Lead	7/25/2007	0.010
37	349 TENNESSEE AVE NE	Lead	9/26/2007	0.010
38	1220 Kennedy St NW	Lead	7/26/2007	0.011
39	311 ELM ST NW ¹	Lead	8/30/2007	0.011
40	3211 Central Ave NE	Lead	8/29/2007	0.011

No	Address	Service Line Material	Collection Date	Copper (mg/L) 2nd Draw
41	1231 17th St NE	Lead	7/25/2007	0.012
42	1400 FLORAL ST NW	Lead	7/25/2007	0.012
43	144 Tennessee Ave NE	Lead	7/26/2007	0.012
44	3908 13TH ST NW	Lead	8/28/2007	0.012
45	424 Luray PI NW	Lead	8/29/2007	0.012
46	4622 15TH ST NW	Lead	9/26/2007	0.012
47	1749 Irving St NW	Lead	11/6/2007	0.013
48	1010 10th St NE	Lead	7/25/2007	0.014
49	1863 MONROE ST NW	Partial Lead	9/25/2007	0.014
50	1929 SUMMIT PL NE	Lead	7/25/2007	0.014
51	3550 ALBEMARLE ST NW	Lead	8/29/2007	0.014
52	1133 Park St NE	Lead	7/26/2007	0.015
53	1217 Orren St NE ¹	Lead	10/24/2007	0.015
54	1319 POTOMAC AVE SE	Partial Lead	9/25/2007	0.015
55	1747 Irving St NW	Lead	10/31/2007	0.015
56	1115 PARK ST NE	Partial Lead	9/27/2007	0.016
57	1429 Ives PI SE	Lead	10/24/2007	0.016
58	4609 30TH ST NW	Partial Lead	10/24/2007	0.016
59	518 Varnum St NW	Partial Lead	10/22/2007	0.016
60	829 Euclid St NW	Lead	9/26/2007	0.016
61	3913 8TH ST NW	Partial Lead	10/24/2007	0.017
62	4327 IOWA AVE NW	Partial Lead	9/26/2007	0.017
63	4413 GREENWICH PKWY NW	Lead	9/26/2007	0.017
64	1649 HARVARD ST NW ¹	Lead	7/25/2007	0.018
65	1412 N Carolina Ave NE	Partial Lead	9/27/2007	0.019
66	228 V ST NE	Lead	10/30/2007	0.019
67	4325 IOWA AVE NW	Lead	9/26/2007	0.019
68	106 7TH ST NE	Lead	7/25/2007	0.020
69	1315 FRANKLIN ST NE	Lead	7/25/2007	0.020
70	302 RITTENHOUSE ST NW	Partial Lead	10/24/2007	0.020
71	3104 Hawthorne St NW	Partial Lead	10/23/2007	0.020
72	1603 Hobart St NW	Lead	10/23/2007	0.023
73	3700 Quebec St NW	Lead	11/29/2007	0.023
74	4410 New Hampshire Ave NW	Lead	9/25/2007	0.023
75	1212 E Capitol St NE	Lead	7/25/2007	0.024
76	1424 S ST NW	Lead	7/23/2007	0.024
77	3530 Porter St NW	Lead	11/8/2007	0.024
78	926 14TH ST SE	Lead	9/26/2007	0.025
79	2724 36TH PL NW	Lead	11/7/2007	0.026
80	1622 G St SE	Lead	10/23/2007	0.027
81	1533 Constitution Ave NE	Partial Lead	11/6/2007	0.028

No	Address	Service Line Material	Collection Date	Copper (mg/L) 2nd Draw
82	3531 16TH ST NW	Partial Lead	8/28/2007	0.028
83	4307 CHESAPEAKE ST NW	Lead	9/25/2007	0.028
84	4818 8TH ST NW	Partial Lead	10/23/2007	0.028
85	1202 Staples St NE	Partial Lead	7/24/2007	0.030
86	1334 HEMLOCK ST NW	Partial Lead	9/25/2007	0.030
87	1353 JEFFERSON ST NW	Lead	7/26/2007	0.030
88	4401 5TH ST NW	Lead	9/26/2007	0.036
89	1301 Michigan Ave NE ¹	Lead	7/25/2007	0.037
90	3232 Klingle Rd NW	Lead	11/7/2007	0.039
91	3301 BROWN St NW	Partial Lead	10/23/2007	0.039
92	4703 Macarthur Blvd NW	Lead	9/26/2007	0.042
93	1211 Carrollsburg Pl SW	Partial Lead	9/27/2007	0.043
94	4304 Fessenden St NW	Partial Lead	8/28/2007	0.051
95	339 Randolph St NW	Lead	11/20/2007	0.056
96	4332 BRANDYWINE ST NW	Partial Lead	10/24/2007	0.056
97	834 Delafield Pl NW	Lead	9/26/2007	0.064
98	821 BUCHANAN ST NW	Lead	9/26/2007	0.066
99	1506 ALLISON ST NW	Lead	7/25/2007	0.075
100	1523 D St SE	Partial Lead	10/23/2007	0.114
101	1843 MONROE ST NW	Partial Lead	9/26/2007	0.124

Notes:

- 1) Service line material listings are representative of the pipe material at the time the sample was collected.
- 2) ¹These samples were collected more than 30 minutes after the first draw sample and therefore may not be representative.

Appendix C – Sample Kit Distribution

Table C.1 Sample Kit Distribution

No	Address	Priority	Bottle Drop Date
1	1003 Quebec PI NW	Primary	7/23/2007
2	101 14 th St NE	Primary	7/23/2007
3	1010 10 th St NE	Primary	7/23/2007
4	106 7 TH ST NE	Primary	7/23/2007
5	1104 TRINIDAD AVE NE	Primary	7/23/2007
6	1112 50 th St NE	Primary	7/23/2007
7	1133 Park St NE	Primary	7/23/2007
8	1145 OATES ST NE	Primary	7/23/2007
9	119 11 th St NE	Primary	7/23/2007
10	119 16 TH ST NE	Primary	7/23/2007
11	1202 Staples St NE	Primary	7/23/2007
12	1203 Quincy St NW	Primary	7/23/2007
13	1204 Longfellow St NW	Primary	7/23/2007
14	1212 E Capitol St NE	Primary	7/23/2007
15	1216 Longfellow St NW	Primary	7/23/2007
16	1220 Kennedy St NW	Primary	7/23/2007
17	1224 5 th St NE	Primary	7/23/2007
18	1231 17 th St NE	Primary	7/23/2007
19	1231 F St NE	Primary	7/23/2007
20	125 Madison St NW	Primary	7/23/2007
21	1262 COLUMBIA RD NW	Primary	7/23/2007
22	1301 Michigan Ave NE	Primary	7/23/2007
23	1315 FRANKLIN ST NE	Primary	7/23/2007
24	1317 Otis St NE	Primary	7/23/2007
25	1319 21 st ST NW	Primary	7/23/2007
26	1320 Delafield PI NW	Primary	7/23/2007
27	1331 Irving St NE	Primary	7/23/2007
28	1339 Ives PI SE	Primary	7/23/2007
29	1339 U St SE	Primary	7/23/2007
30	134 Bryant St NW	Primary	7/23/2007
31	1346 Madison St NW	Primary	7/23/2007
32	1349 Wallach PI NW	Primary	7/23/2007
33	1351 Montague St NW	Primary	7/23/2007
34	1353 JEFFERSON ST NW	Primary	7/23/2007
35	1380 E ST NE	Primary	7/23/2007
36	1400 FLORAL ST NW	Primary	7/23/2007
37	1420 S ST SE	Primary	7/23/2007

No	Address	Priority	Bottle Drop Date
38	1424 S ST NW	Primary	7/23/2007
39	143 UHLAND TER NE	Primary	7/23/2007
40	1436 S St NW	Primary	7/23/2007
41	144 Tennessee Ave NE	Primary	7/23/2007
42	1506 ALLISON ST NW	Primary	7/23/2007
43	1612 V ST NW	Primary	7/23/2007
44	1614 Allison St NW	Primary	7/23/2007
45	1626 E ST SE	Primary	7/23/2007
46	1635 WEBSTER ST NW	Primary	7/23/2007
47	1649 HARVARD ST NW	Primary	7/23/2007
48	1671 Rosedale St NE	Primary	7/23/2007
49	1706 NEW JERSEY AVE NW	Primary	7/23/2007
50	1812 M St NE	Primary	7/23/2007
51	1929 SUMMIT PL NE	Primary	7/23/2007
52	2003 KLINGLE RD NW	Primary	7/23/2007
53	2007 37 TH ST NW	Primary	7/23/2007
54	2016 4 TH ST NE	Primary	7/23/2007
55	202 11 th St SE	Primary	7/23/2007
56	207 Quackenbos St NW	Primary	7/23/2007
57	2118 14 th St SE	Primary	7/23/2007
58	2134 NEWPORT PL NW	Primary	7/23/2007
59	2300 MONROE ST NE	Primary	7/23/2007
60	2404 3 rd St NE	Primary	8/27/2007
61	2418 3 RD ST NE	Primary	8/27/2007
62	2435 33 RD ST SE	Primary	8/27/2007
63	2702 P ST NW	Primary	8/27/2007
64	2830 BRENTWOOD RD NE	Primary	8/27/2007
65	2846 VISTA ST NE	Primary	8/27/2007
66	311 ELM ST NW	Primary	8/27/2007
67	3211 Central Ave NE	Primary	8/27/2007
68	3215 McKinley St NW	Primary	8/27/2007
69	3218 MACOMB ST NW	Primary	8/27/2007
70	3218 MORRISON ST NW	Primary	8/27/2007
71	322 TENNESSEE AVE NE	Primary	8/27/2007
72	3223 Georgia Ave NW	Primary	8/27/2007
73	331 RALEIGH ST SE	Primary	8/27/2007
74	3408 LOWELL ST NW	Primary	8/27/2007
75	3412 GARRISON ST NW	Primary	8/27/2007
76	3424 PORTER ST NW	Primary	8/27/2007
77	3434 30 th St NW	Primary	8/27/2007
78	3439 24 TH ST SE	Primary	8/27/2007

No	Address	Priority	Bottle Drop Date
79	3526 Park PI NW	Primary	8/27/2007
80	3531 16 TH ST NW	Primary	8/27/2007
81	3550 ALBEMARLE ST NW	Primary	8/27/2007
82	3618 PORTER ST NW	Primary	8/27/2007
83	3634 WARDER ST NW	Primary	8/27/2007
84	3665 13 th St NW	Primary	8/27/2007
85	37 R St NW	Primary	8/27/2007
86	3706 35 th St NW	Primary	8/27/2007
87	3720 NORTHAMPTON ST NW	Primary	8/27/2007
88	3908 13 TH ST NW	Primary	8/27/2007
89	3917 LIVINGSTON ST NW	Primary	8/27/2007
90	3973 HARRISON ST NW	Primary	8/27/2007
91	403 K St NE	Primary	8/27/2007
92	4111 INGOMAR ST NW	Primary	8/27/2007
93	4131 YUMA ST NW	Primary	8/27/2007
94	4206 10 th St NE	Primary	8/27/2007
95	424 Luray PI NW	Primary	8/27/2007
96	4304 Fessenden St NW	Primary	8/27/2007
97	1008 MARYLAND AVE NE	Primary	9/24/2007
98	1013 I St NE	Primary	9/24/2007
99	1016 DOUGLAS ST NE	Primary	9/24/2007
100	1115 PARK ST NE	Primary	9/24/2007
101	1211 Carrollsburg PI SW1	Primary	9/24/2007
102	1222 HAMILTON ST NW	Primary	9/24/2007
103	1224 Irving St NW	Primary	9/24/2007
104	1241 JACKSON ST NE	Primary	9/24/2007
105	1313 T St SE	Primary	9/24/2007
106	1319 POTOMAC AVE SE	Primary	9/24/2007
107	1334 HEMLOCK ST NW	Primary	9/24/2007
108	1341 Massachusetts Ave SE	Primary	9/24/2007
109	1412 N Carolina Ave NE	Primary	9/24/2007
110	1451 S ST NW	Primary	9/24/2007
111	1533 Constitution Ave NE	Primary	9/24/2007
112	1701 INDEPENDENCE AVE SE	Primary	9/24/2007
113	1808 KEARNEY ST NE	Primary	9/24/2007
114	1814 MONROE ST NW	Primary	9/24/2007
115	1825 L ST NE	Primary	9/24/2007
116	1843 MONROE ST NW	Primary	9/24/2007
117	1863 MONROE ST NW	Primary	9/24/2007
118	1931 SUMMIT PL NE	Primary	9/24/2007
119	1971 BILTMORE ST NW	Primary	9/24/2007

No	Address	Priority	Bottle Drop Date
120	349 TENNESSEE AVE NE	Primary	9/24/2007
121	3601 WARREN ST NW	Primary	9/24/2007
122	3827 VEAZEY ST NW	Primary	9/24/2007
123	4305 38 TH ST NW	Primary	9/24/2007
124	4307 CHESAPEAKE ST NW	Primary	9/24/2007
125	4325 IOWA AVE NW	Primary	9/24/2007
126	4327 IOWA AVE NW	Primary	9/24/2007
127	4331 BRANDYWINE ST NW	Primary	9/24/2007
128	4401 5 TH ST NW	Primary	9/24/2007
129	4410 New Hampshire Ave NW	Primary	9/24/2007
130	4413 GREENWICH PKWY NW	Primary	9/24/2007
131	4418 14 th St NE	Primary	9/24/2007
132	4507 13 TH ST NW	Primary	9/24/2007
133	4518 14 TH ST NW	Primary	9/24/2007
134	4613 9 th St NW	Primary	9/24/2007
135	4622 15 TH ST NW	Primary	9/24/2007
136	4703 Macarthur Blvd NW	Primary	9/24/2007
137	4718 Sheriff Rd NE	Primary	9/24/2007
138	4818 ILLINOIS AVE NW	Primary	9/24/2007
139	4842 KANSAS AVE NW	Primary	9/24/2007
140	5105 14 TH ST NW	Primary	9/24/2007
141	5121 ILLINOIS AVE NW	Primary	9/24/2007
142	517 4 th St SE	Primary	9/24/2007
143	5229 7 TH ST NW	Primary	9/24/2007
144	5318 9 TH ST NW	Primary	9/24/2007
145	5405 39 TH ST NW	Primary	9/24/2007
146	607 ATLANTIC ST SE	Primary	9/24/2007
147	610 L ST NE	Primary	9/24/2007
148	618 OTIS PL NW	Primary	9/24/2007
149	623 Morton PI NE	Primary	9/24/2007
150	641 Gallatin St NW	Primary	9/24/2007
151	704 ALABAMA AVE SE	Primary	9/24/2007
152	821 BUCHANAN ST NW	Primary	9/24/2007
153	829 Euclid St NW	Primary	9/24/2007
154	834 Delafield PI NW	Primary	9/24/2007
155	835 3 RD ST NE	Primary	9/24/2007
156	926 14 TH ST SE	Primary	9/24/2007
157	1121 C St SE	Secondary	10/22/2007
158	1122 Oates St NE	Secondary	10/22/2007
159	119 Kentucky Ave SE	Secondary	10/22/2007
160	1214 SHEPHERD ST NW	Secondary	10/22/2007

No	Address	Priority	Bottle Drop Date
161	1217 Orren St NE	Secondary	10/22/2007
162	1221 Pleasant St SE	Secondary	10/22/2007
163	1302 Randolph St NW	Secondary	10/22/2007
164	1312 V St SE	Secondary	10/22/2007
165	1330 Quincy St NW	Secondary	10/22/2007
166	1354 W St SE	Secondary	10/22/2007
167	1357 C St NE	Secondary	10/22/2007
168	1371 Kalmia Rd NW	Secondary	10/22/2007
169	1371 Potomac Ave SE	Secondary	10/22/2007
170	1407 MONTAGUE ST NW	Secondary	10/22/2007
171	1409 35 TH ST NW	Secondary	10/22/2007
172	1410 D St SE	Secondary	10/22/2007
173	1412 S St NW	Secondary	10/22/2007
174	1412 Shepherd St NW	Secondary	10/22/2007
175	1424 S ST SE	Secondary	10/22/2007
176	1427 A St SE	Secondary	10/22/2007
177	1429 Ives Pl SE	Secondary	10/22/2007
178	1435 22 nd St SE	Secondary	10/22/2007
179	149 Todd Pl NE	Secondary	10/22/2007
180	150 W St NW	Secondary	10/22/2007
181	1523 D St SE	Secondary	10/22/2007
182	1525 D St NE	Secondary	10/22/2007
183	1603 Hobart St NW	Secondary	10/22/2007
184	1603 Massachusetts Ave SE	Secondary	10/22/2007
185	1614 D St SE	Secondary	10/22/2007
186	1622 G St SE	Secondary	10/22/2007
187	1628 Argonne Pl NW	Secondary	10/22/2007
188	1656 U St SE	Secondary	10/22/2007
189	1705 2 nd St NE	Secondary	10/22/2007
190	1707 Irving St NW	Secondary	10/22/2007
191	2823 28 TH ST NW	Primary	10/22/2007
192	3014 Channing St NE	Primary	10/22/2007
193	302 RITTENHOUSE ST NW	Primary	10/22/2007
194	3104 Hawthorne St NW	Primary	10/22/2007
195	3202 38 TH ST NW	Primary	10/22/2007
196	3301 BROWN St NW	Primary	10/22/2007
197	335 17 TH PL NE	Primary	10/22/2007
198	3809 ALTON PL NW	Primary	10/22/2007
199	3913 8 TH ST NW	Primary	10/22/2007
200	4332 BRANDYWINE ST NW	Primary	10/22/2007
201	4429 3 rd St NW	Primary	10/22/2007

No	Address	Priority	Bottle Drop Date
202	4609 30 TH ST NW	Primary	10/22/2007
203	4616 HUNT PL NE	Primary	10/22/2007
204	4818 8 TH ST NW	Primary	10/22/2007
205	514 13 th St SE	Primary	10/22/2007
206	518 Varnum St NW	Primary	10/22/2007
207	52 Galveston PI SW	Primary	10/22/2007
208	5301 RENO RD NW	Primary	10/22/2007
209	532 13 TH ST SE	Primary	10/22/2007
210	5404 39 TH ST NW	Primary	10/22/2007
211	6213 7 TH ST NW	Primary	10/22/2007
212	661 MARYLAND AVE NE	Primary	10/22/2007
213	765 GIRARD ST NW	Primary	10/22/2007
214	817 DECATUR ST NW	Primary	10/22/2007
215	1534 D St NE	Secondary	10/24/2007
216	1714 Massachusetts Ave SE	Secondary	10/29/2007
217	1724 1 st St NW	Secondary	10/29/2007
218	1746 KENYON ST NW	Secondary	10/29/2007
219	1747 Irving St NW	Secondary	10/29/2007
220	1749 Irving St NW	Secondary	10/29/2007
221	1804 Kenyon St NW	Secondary	10/29/2007
222	1811 Lamont St NW	Secondary	10/29/2007
223	1812 14 TH ST SE	Secondary	10/29/2007
224	1826 Jackson St NE	Secondary	10/29/2007
225	1830 Kenyon St NW	Secondary	10/29/2007
226	1836 Massachusetts Ave SE	Secondary	10/29/2007
227	1838 Calvert St NW	Secondary	10/29/2007
228	19 17 th St SE	Secondary	10/29/2007
229	1920 Jackson St NE	Secondary	10/29/2007
230	1921 1 st St NE	Secondary	10/29/2007
231	2007 KLINGLE RD NW	Secondary	10/29/2007
232	2010 3 rd St NE	Secondary	10/29/2007
233	2107 2 nd St NE	Secondary	10/29/2007
234	211 RANDOLPH PL NE	Secondary	10/29/2007
235	2110 S St NW	Secondary	10/29/2007
236	2212 38 th St NW	Secondary	10/29/2007
237	2214 14 th St NW	Secondary	10/29/2007
238	2216 1 st St NW	Secondary	10/29/2007
239	224 S Carolina Ave SE	Secondary	10/29/2007
240	224 Varnum St NW	Secondary	10/29/2007
241	226 12 th PI NE	Secondary	10/29/2007
242	228 Randolph PI NE	Secondary	10/29/2007

No	Address	Priority	Bottle Drop Date
243	228 V ST NE	Secondary	10/29/2007
244	229 Tennessee Ave NE	Secondary	10/29/2007
245	312 14 TH ST NE	Primary	10/29/2007
246	1424 S ST SE	Secondary	11/6/2007
247	1533 Constitution Ave NE	Primary	11/6/2007
248	2724 36 TH PL NW	Secondary	11/6/2007
249	2919 Bellevue Ter NW	Secondary	11/6/2007
250	300 E St NE	Secondary	11/6/2007
251	317 Channing St NE	Secondary	11/6/2007
252	319 Ingraham St NW	Secondary	11/6/2007
253	3206 38 th St NW	Secondary	11/6/2007
254	3232 Kingle Rd NW	Secondary	11/6/2007
255	3309 16 th St NW	Secondary	11/6/2007
256	331 Upshur St NW	Secondary	11/6/2007
257	336 Quackenbos St NE	Secondary	11/6/2007
258	339 Randolph St NW	Secondary	11/6/2007
259	3400 Holmead PI NW	Secondary	11/6/2007
260	3416 9 th St NE	Secondary	11/6/2007
261	3418 Oliver St NW	Secondary	11/6/2007
262	3427 Oliver St NW	Secondary	11/6/2007
263	3431 S Dakota Ave NE	Secondary	11/6/2007
264	3520 35 th St NW	Secondary	11/6/2007
265	3529 16 th St NW	Secondary	11/6/2007
266	3530 Porter St NW	Secondary	11/6/2007
267	3545 Hertford PI NW	Secondary	11/6/2007
268	3700 Quebec St NW	Secondary	11/6/2007
269	3704 Porter St NW	Secondary	11/6/2007
270	4305 38 TH ST NW	Primary	11/6/2007
271	1714 Massachusetts Ave SE	Secondary	11/19/2007
272	339 Randolph St NW	Secondary	11/19/2007
273	3700 Quebec St NW	Secondary	11/19/2007
274	3700 Quebec St NW	Secondary	11/26/2007

Table C.2 Samples Not Returned

No	Address	Priority	Bottle Drop Date
1	1003 Quebec PI NW	Primary	7/23/2007
2	1112 50 th St NE	Primary	7/23/2007
3	1145 OATES ST NE	Primary	7/23/2007
4	1224 5 th St NE	Primary	7/23/2007
5	1231 F St NE	Primary	7/23/2007
6	1331 Irving St NE	Primary	7/23/2007
7	134 Bryant St NW	Primary	7/23/2007
8	1351 Montague St NW	Primary	7/23/2007
9	1614 Allison St NW	Primary	7/23/2007
10	1626 E ST SE	Primary	7/23/2007
11	202 11 th St SE	Primary	7/23/2007
12	207 Quackenbos St NW	Primary	7/23/2007
13	2118 14 th St SE	Primary	7/23/2007
14	2418 3 RD ST NE	Primary	8/27/2007
15	3218 MACOMB ST NW	Primary	8/27/2007
16	322 TENNESSEE AVE NE	Primary	8/27/2007
17	3223 Georgia Ave NW	Primary	8/27/2007
18	3434 30 th St NW	Primary	8/27/2007
19	3526 Park PI NW	Primary	8/27/2007
20	3634 WARDER ST NW	Primary	8/27/2007
21	3665 13 th St NW	Primary	8/27/2007
22	37 R St NW	Primary	8/27/2007
23	4131 YUMA ST NW	Primary	8/27/2007
24	1008 MARYLAND AVE NE	Primary	9/24/2007
25	1013 I St NE	Primary	9/24/2007
26	1016 DOUGLAS ST NE	Primary	9/24/2007
27	1224 Irving St NW	Primary	9/24/2007
28	1451 S ST NW	Primary	9/24/2007
29	1701 INDEPENDENCE AVE SE	Primary	9/24/2007
30	1814 MONROE ST NW	Primary	9/24/2007
31	1825 L ST NE	Primary	9/24/2007
32	1931 SUMMIT PL NE	Primary	9/24/2007
33	1971 BILTMORE ST NW	Primary	9/24/2007
34	3827 VEAZEY ST NW	Primary	9/24/2007
35	4305 38 TH ST NW	Primary	9/24/2007
36	4331 BRANDYWINE ST NW	Primary	9/24/2007
37	4418 14 th St NE	Primary	9/24/2007
38	4818 ILLINOIS AVE NW	Primary	9/24/2007
39	5318 9 TH ST NW	Primary	9/24/2007
40	618 OTIS PL NW	Primary	9/24/2007

No	Address	Priority	Bottle Drop Date
41	623 Morton Pl NE	Primary	9/24/2007
42	641 Gallatin St NW	Primary	9/24/2007
43	835 3 RD ST NE	Primary	9/24/2007
44	1121 C St SE	Secondary	10/22/2007
45	1122 Oates St NE	Secondary	10/22/2007
46	1214 SHEPHERD ST NW	Secondary	10/22/2007
47	1221 Pleasant St SE	Secondary	10/22/2007
48	1302 Randolph St NW	Secondary	10/22/2007
49	1312 V St SE	Secondary	10/22/2007
50	1330 Quincy St NW	Secondary	10/22/2007
51	1357 C St NE	Secondary	10/22/2007
52	1371 Potomac Ave SE	Secondary	10/22/2007
53	1407 MONTAGUE ST NW	Secondary	10/22/2007
54	1412 S St NW	Secondary	10/22/2007
55	1427 A St SE	Secondary	10/22/2007
56	1435 22 nd St SE	Secondary	10/22/2007
57	149 Todd Pl NE	Secondary	10/22/2007
58	150 W St NW	Secondary	10/22/2007
59	1525 D St NE	Secondary	10/22/2007
60	1603 Massachusetts Ave SE	Secondary	10/22/2007
61	1705 2 nd St NE	Secondary	10/22/2007
62	1707 Irving St NW	Secondary	10/22/2007
63	3014 Channing St NE	Primary	10/22/2007
64	3202 38 TH ST NW	Primary	10/22/2007
65	335 17 TH PL NE	Primary	10/22/2007
66	3809 ALTON PL NW	Primary	10/22/2007
67	4429 3 rd St NW	Primary	10/22/2007
68	4616 HUNT PL NE	Primary	10/22/2007
69	514 13 th St SE	Primary	10/22/2007
70	52 Galveston Pl SW	Primary	10/22/2007
71	5301 RENO RD NW	Primary	10/22/2007
72	5404 39 TH ST NW	Primary	10/22/2007
73	661 MARYLAND AVE NE	Primary	10/22/2007
74	765 GIRARD ST NW	Primary	10/22/2007
75	1724 1 st St NW	Secondary	10/29/2007
76	1746 KENYON ST NW	Secondary	10/29/2007
77	1804 Kenyon St NW	Secondary	10/29/2007
78	1811 Lamont St NW	Secondary	10/29/2007
79	1812 14 TH ST SE	Secondary	10/29/2007
80	1830 Kenyon St NW	Secondary	10/29/2007
81	19 17 th St SE	Secondary	10/29/2007
82	1921 1 st St NE	Secondary	10/29/2007

No	Address	Priority	Bottle Drop Date
83	2007 KLINGLE RD NW	Secondary	10/29/2007
84	2010 3 rd St NE	Secondary	10/29/2007
85	2107 2 nd St NE	Secondary	10/29/2007
86	211 RANDOLPH PL NE	Secondary	10/29/2007
87	2110 S St NW	Secondary	10/29/2007
88	2216 1 st St NW	Secondary	10/29/2007
89	224 S Carolina Ave SE	Secondary	10/29/2007
90	226 12 th PI NE	Secondary	10/29/2007
91	228 Randolph PI NE	Secondary	10/29/2007
92	229 Tennessee Ave NE	Secondary	10/29/2007
93	312 14 TH ST NE	Primary	10/29/2007
94	1424 S ST SE	Secondary	11/6/2007
95	317 Channing St NE	Secondary	11/6/2007
96	319 Ingraham St NW	Secondary	11/6/2007
97	331 Upshur St NW	Secondary	11/6/2007
98	3400 Holmead PI NW	Secondary	11/6/2007
99	3416 9 th St NE	Secondary	11/6/2007
100	3431 S Dakota Ave NE	Secondary	11/6/2007
101	3520 35 th St NW	Secondary	11/6/2007
102	3529 16 th St NW	Secondary	11/6/2007
103	3704 Porter St NW	Secondary	11/6/2007

Table C.3 Samples Rejected

No	Address	Priority	Bottle Drop Date	Reject Reason
1	101 14 th St NE	Primary	7/23/2007	Ice maker might have been in use during stagnation
2	1216 Longfellow St NW	Primary	7/23/2007	No stagnation time information / Chain of custody incomplete
3	1262 COLUMBIA RD NW	Primary	7/23/2007	No Stagnation
4	1317 Otis St NE	Primary	7/23/2007	Ten minutes stagnation
5	1319 21 st ST NW	Primary	7/23/2007	No chain of custody
6	1339 Ives PI SE	Primary	7/23/2007	Incomplete chain of custody
7	1339 U St SE	Primary	7/23/2007	No chain of custody
8	1346 Madison St NW	Primary	7/23/2007	Ice maker used during stagnation
9	1380 E ST NE	Primary	7/23/2007	No chain of custody
10	1420 S ST SE	Primary	7/23/2007	Customer provided samples passed holding time
11	1436 S St NW	Primary	7/23/2007	Ice maker, sprinkler, and humidifier in use during stagnation
12	1612 V ST NW	Primary	7/23/2007	Leaks
13	1671 Rosedale St NE	Primary	7/23/2007	Leaks
14	2003 KLINGLE RD NW	Primary	7/23/2007	Contains two or more dwelling units, removed from list
15	2016 4 TH ST NE	Primary	7/23/2007	Not sure of stagnation time
16	2134 NEWPORT PL NW	Primary	7/23/2007	Contains two or more dwelling units, removed from list
17	2300 MONROE ST NE	Primary	7/23/2007	No chain of custody
18	2404 3 rd St NE	Primary	8/27/2007	No chain of custody
19	2830 BRENTWOOD RD NE	Primary	8/27/2007	2.5 hours stagnation
20	2846 VISTA ST NE	Primary	8/27/2007	No chain of custody
21	3215 McKinley St NW	Primary	8/27/2007	Private side replaced within 60 days of sampling
22	3439 24 TH ST SE	Primary	8/27/2007	Contains two or more dwelling units, removed from list
23	3706 35 th St NW	Primary	8/27/2007	Used water during stagnation
24	3720 NORTHAMPTON ST NW	Primary	8/27/2007	5 minutes stagnation
25	3917 LIVINGSTON ST NW	Primary	8/27/2007	Construction in area
26	3973 HARRISON ST NW	Primary	8/27/2007	No stagnation
27	403 K St NE	Primary	8/27/2007	Contains two or more dwelling units, removed from list
28	4206 10 th St NE	Primary	8/27/2007	No lead, taken off the sampling list
29	1222 HAMILTON ST NW	Primary	9/24/2007	No chain of custody
30	1241 JACKSON ST NE	Primary	9/24/2007	No stagnation and has two or more dwelling units, removed from list
31	1341 Massachusetts Ave SE	Primary	9/24/2007	Contains two or more dwelling units, removed from list
32	1533 Constitution Ave NE	Primary	9/24/2007	No stagnation information
33	1808 KEARNEY ST NE	Primary	9/24/2007	No stagnation
34	4507 13 TH ST NW	Primary	9/24/2007	No indication of 1 st or 2 nd draw
35	4613 9 th St NW	Primary	9/24/2007	No indication of 1 st or 2 nd draw
36	4842 KANSAS AVE NW	Primary	9/24/2007	Water used during stagnation
37	5105 14 TH ST NW	Primary	9/24/2007	Contains two or more dwelling units, removed from list
38	5121 ILLINOIS AVE NW	Primary	9/24/2007	Contains two or more dwelling units, removed from list

No	Address	Priority	Bottle Drop Date	Reject Reason
39	607 ATLANTIC ST SE	Primary	9/24/2007	Contains two or more dwelling units, removed from list
40	610 L ST NE	Primary	9/24/2007	No indication of 1 st or 2 nd draw
41	704 ALABAMA AVE SE	Primary	9/24/2007	Water used during stagnation and has two or more dwelling units, removed from list
42	1409 35 TH ST NW	Secondary	10/22/2007	Contains two or more dwelling units, removed from list
43	1412 Shepherd St NW	Secondary	10/22/2007	Leaks, household usage
44	1424 S ST SE	Secondary	10/22/2007	No chain of custody
45	1614 D St SE	Secondary	10/22/2007	No lead / Stagnation < 6hrs
46	1628 Argonne PI NW	Secondary	10/22/2007	Stagnation not recorded
47	1656 U St SE	Secondary	10/22/2007	Contains two or more dwelling units, removed from list
48	2823 28 TH ST NW	Primary	10/22/2007	No indication of 1 st or 2 nd draw
49	817 DECATUR ST NW	Primary	10/22/2007	Potential contamination of bottles
50	1534 D St NE	Secondary	10/24/2007	No chain of custody
51	1714 Massachusetts Ave SE	Secondary	10/29/2007	No stagnation, ice maker on
52	1826 Jackson St NE	Secondary	10/29/2007	No 1 st or 2 nd draw on bottle
53	1836 Massachusetts Ave SE	Secondary	10/29/2007	House hold usage during stagnation, 4hrs stagnation
54	1838 Calvert St NW	Secondary	10/29/2007	Contains two or more dwelling units, removed from list
55	1920 Jackson St NE	Secondary	10/29/2007	No 1 st or 2 nd draw on bottle
56	2214 14 th St NW	Secondary	10/29/2007	No stagnation information
57	224 Varnum St NW	Secondary	10/29/2007	No stagnation, ice maker on
58	2919 Bellevue Ter NW	Secondary	11/6/2007	No lead
59	300 E St NE	Secondary	11/6/2007	No lead
60	3309 16 th St NW	Secondary	11/6/2007	No stagnation start time
61	339 Randolph St NW	Secondary	11/6/2007	No stagnation
62	3545 Hertford PI NW	Secondary	11/6/2007	No chain of custody
63	3700 Quebec St NW	Secondary	11/6/2007	Did not bypass filter
64	4305 38 TH ST NW	Primary	11/6/2007	Stagnation too long
65	1714 Massachusetts Ave SE	Secondary	11/19/2007	No Stagnation
66	3700 Quebec St NW	Secondary	11/19/2007	Ran water before collecting 1 st draw sample

Table C.4 Deviations From LCR Plan

No	Address	Priority	Scheduled Sample Month	Reason
1	1207 Trinidad Ave NE	Primary	July	Customer could not sample at scheduled week
2	231 K St NE	Primary	August	Partial replacement within 60 days of sampling
3	3201 Porter St NW	Primary	August	Partial replacement within 60 days of sampling
4	349 TENNESSEE AVE NE	Primary	August, September	Requested September sampling instead of August
5	4305 38TH ST NW	Primary	September	First samples rejected; tried again in November
6	805 LONGFELLOW ST NW	Primary	September	Partial replacement within 60 days of sampling
7	1533 Constitution Ave NE	Primary	September	First samples rejected; tried again in November
8	1956 BILTMORE ST NW	Primary	September	Scheduled for replacement week prior to sampling
9	205 TAYLOR ST NW	Primary	September	Last site scheduled for the month and mistakenly excluded from distribution list
10	312 14TH ST NE	Primary	October	Dropped at wrong address in Oct, resampled in Nov
11	712 JEFFERSON ST NW	Primary	October	Full service line replacement
12	1424 S ST SE	Secondary	October	First samples rejected; tried again in Nov, customer did not return bottle
13	1714 Massachusetts Ave SE	Secondary	November	Sampling errors; rejected twice
14	230 G St NE	Secondary	November 2nd Round	Could not contact customer via phone ¹
15	234 Longfellow St NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
16	2408 2nd St NE	Secondary	November 2nd Round	Could not contact customer via phone ¹
17	2421 3rd St NE	Secondary	November 2nd Round	Could not contact customer via phone ¹
18	2431 Ontario Rd NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
19	2521 P St NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
20	256 15th St SE	Secondary	November 2nd Round	Could not contact customer via phone ¹
21	2604 Rhode Island Ave NE	Secondary	November 2nd Round	Could not contact customer via phone ¹
22	2912 S DAKOTA AVE NE	Secondary	November 2nd Round	Could not contact customer via phone ¹
23	3001 7th St NE	Secondary	November 2nd Round	Could not contact customer via phone ¹
24	3003 Porter St NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
25	3009 7TH ST SE	Secondary	November 2nd Round	Could not contact customer via phone ¹
26	3013 Sherman Ave NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
27	3059 Porter St NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
28	3069 Canal St NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
29	313 Aspen St NW	Secondary	November 2nd Round	Could not contact customer via phone ¹
30	317 9th St SE	Secondary	November 2nd Round	Could not contact customer via phone ¹
31	3336 Quesada St NW	Secondary	November 2nd Round	Does not want to participate
32	339 Randolph St NW	Secondary	November 2nd Round	First samples rejected; tried again
33	3700 Quebec St NW	Secondary	November 2nd Round	Sampling errors (twice)

¹WASA had poor response in the first round of sampling conducted in November and therefore, had to sample again to meet the 100 sample limit. WASA contacted customers via phone to obtain commitment of sample collection instead of notification by mail due to time constraints.

Table C.5 Sites Sampled in First Semester 2007 and Not Sampled in Second Semester 2007

No	Address	Reason
1	1008 MARYLAND AVE NE	Samples not returned
2	1216 Longfellow St NW	Samples rejected
3	1222 HAMILTON ST NW	Samples rejected
4	1262 COLUMBIA RD NW	Samples rejected
5	1331 Irving St NE	Samples not returned
6	134 Bryant St NW	Samples not returned
7	1341 Massachusetts Ave SE	Samples rejected
8	1420 S ST SE	Samples rejected
9	1612 V ST NW	Samples rejected
10	1671 Rosedale St NE	Samples rejected
11	1808 KEARNEY ST NE	Samples rejected
12	1931 SUMMIT PL NE	Samples not returned
13	1956 BILTMORE ST NW	Replacement 9/20/07, removed from list
14	2118 14th St SE	Samples not returned
15	2404 3rd St NE	Samples rejected
16	2418 3RD ST NE	Samples not returned
17	2846 VISTA ST NE	Samples rejected
18	3014 Channing St NE	Samples not returned
19	3201 Porter St NW	Partial replacement within 60 days of sampling
20	3202 38TH ST NW	Samples not returned
21	3215 McKinley St NW	Samples rejected
22	3218 MACOMB ST NW	Samples not returned
23	322 TENNESSEE AVE NE	Samples not returned
24	3434 30th St NW	Samples not returned
25	3439 24TH ST SE	Samples rejected
26	37 R St NW	Samples not returned
27	3706 35th St NW	Samples rejected
28	3720 NORTHAMPTON ST NW	Samples rejected
29	3827 VEAZEY ST NW	Samples not returned
30	3917 LIVINGSTON ST NW	Samples rejected
31	4206 10th St NE	Samples rejected
32	4305 38TH ST NW	Samples rejected
33	4331 BRANDYWINE ST NW	Samples not returned

No	Address	Reason
34	4418 14th St NE	Samples not returned
35	4429 3rd St NW	Samples not returned
36	610 L ST NE	Samples rejected
37	623 Morton PI NE	Samples not returned
38	712 JEFFERSON ST NW	Replacement 7/27/07, removed from list
39	805 LONGFELLOW ST NW	Partial replacement within 60 days of sampling

Appendix D – Revisions to Sample Pool

Table D. 1 Sites with Service Line Material Changes that had Compliance Samples for Second Semester 2007

No	Address	Previous Service Line Material	Revised Service Line Material	Pipe Replacement Date	Collection Date	Comments
1	1202 Staples St NE	Lead	Partial Lead	6/8/2007	7/24/2007	Public side replacement
2	1203 Quincy St NW	Lead	Partial Lead	9/7/2007	7/24/2007	Public side replacement
3	1220 Kennedy St NW	Lead	Partial Lead	9/27/2007	7/26/2007	Public side replacement
4	1231 17th St NE	Lead	Partial Lead	11/28/2007	7/25/2007	Public side replacement
5	1353 JEFFERSON ST NW	Lead	Partial Lead	8/20/2007	7/26/2007	Public side replacement
6	1523 D St SE	Lead	Partial Lead	6/27/2007	10/23/2007	Public side replacement
7	3531 16TH ST NW	Lead	Partial Lead	11/1/2005	8/28/2007	Public side replacement
8	4304 Fessenden St NW	Lead	Partial Lead	6/8/2007	8/28/2007	Public side replacement
9	4327 IOWA AVE NW ¹	Lead	Partial Lead		9/26/2007	Test pit showed lead and copper on public side
10	5229 7TH ST NW	Lead	Partial Lead	11/29/2007	10/2/2007	Public side replacement
11	926 14TH ST SE ²	Lead	Copper	10/2/2007	9/26/2007	Public side replacement; copper observed on private side
12	1334 HEMLOCK ST NW	Partial Lead	Copper	10/31/2007	9/25/2007	Public side replaced in 2003; private side replaced 10/31/07

¹WASA dug a test pit on the public side of 4327 Iowa Ave NW on 11/2/2005. The test pit showed segments of lead and copper on the public side. Previously, WASA categorized the site as full lead based on this test pit data since lead was believed to present on both public and private sides. However, WASA modified service line determination procedures in 2007 which changed this site to partial lead.

²926 14th St SE had the public side of the service line replaced on 10/2/07. The private side was observed copper. WASA sampled the site on 9/26/07. The service line material at the time of sampling, prior to public side replacement, was “partial lead”.

Appendix E - Invalidations

In letters dated November 16 and December 20, 2007, WASA requested EPA to invalidate four samples because site conditions had changed before samples were collected that resulted in these four locations no longer meeting the site selection criteria of 40 CFR 141.86 (a)(3). The locations were as follows:

- 1313 T Street SE
- 1410 D Street SE
- 1371 Kalmia Road NW
- 532 13 Street SE

In a letter dated December 21, 2007, EPA agreed that the four samples can be invalidated and should not be used to calculate the 90th percentile levels for lead or copper. Copies of the letters relating to the invalidations are included in this section of the report.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

5000 OVERLOOK AVENUE, S.W., WASHINGTON, D.C. 20032

November 16, 2007

Karen D. Johnson, Chief
Safe Drinking Water Act Branch (3WP22)
Water Protection Division
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Re: Request for LCR Sample Invalidation, 1313 T Street SE

Dear Ms. Johnson:

The District of Columbia Water and Sewer Authority's (WASA) lead services inventory shows the public side of the service line located at 1313 T Street SE was replaced in April 2007. Our records also show that the customer did not take advantage of WASA's private side lead service line replacement option, which is the reason this residence remained in our Tier One sample pool as having a partial lead service line.

The customer provided samples on September 26, 2007 along with the completed chain-of-custody (enclosed) during our 2007 second semester Lead and Copper Rule (LCR) compliance sampling period. If you reference the third question on the chain-of-custody you will find that the customer circled *YES* to the question regarding the replacement of the private side portion of the service line. WASA's process requires additional research by staff before sending the compliance samples to the certified laboratory when conflicting information is indicated on the chain-of-custody. This process was not followed by our reviewers in this case resulting in the samples collected at 1313 T Street SE being mistakenly sent to the laboratory along with the other compliance samples collected during this compliance period.

After noticing this discrepancy, our Water Quality Supervisor contacted the customer to confirm that the private portion of the lead service line was replaced by a private contractor before the samples were taken by the customer. A copy of her statement is also enclosed.

I respectfully request that the EPA invalidate the sample results collected at 1313 T Street SE. WASA has updated the inventory record to reflect a full service line replacement. We reinforced WASA's quality control requirements to staff to ensure that this error is not duplicated. If you have any questions regarding the approval of this invalidation, please contact Rich Giani at (202) 612-3441.

Sincerely,

Digitally signed by Charles Kiely
DN: cn=Charles Kiely, c=US, o=Customer Service
Date: 2007.11.16 15:15:52 -0500

Charles W Kiely,
Assistant General Manager, Consumer Services

Cc: Richard Giani

Enclosures:



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
5000 OVERLOOK AVENUE, S.W., WASHINGTON, D.C. 20032

December 20, 2007

Karen D. Johnson, Chief
Safe Drinking Water Act Branch (3WP22)
Water Protection Division
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Re: Request for LCR Sample Invalidation

Dear Ms. Johnson:


To ensure full compliance with the Lead and Copper Rule, WASA performs a quality assurance review of all sample data collected during the monitoring period. This review includes a post sampling process that matches the compliance sample results to the Tier One sample pool identified in WASA's 2007 sampling plan. The process then matches the sample results to WASA's current lead service line inventory and our contractors' listing of ongoing lead service replacements in conjunction with the lead service line replacement program to ensure that each address in the sample pool meets the Tier One criteria.

Our quality assurance process identified the following three locations where compliance samples were collected after the lead service lines were replaced in public space:

- 1) 1410 D Street SE. Public portion of the lead service line was replaced on August 10, 2007. The inspection report identifies the service line from the meter to the curbstop as a copper service. Compliance samples were taken after the replacement on October 25, 2007.
- 2) 1371 Kalmia Road NW. Public portion of the lead service line was replaced on July 24, 2007. The inspection report identifies the service line from the meter to the curbstop as a copper service. Compliance samples were taken after the replacement on October 23, 2007.
- 3) 532 13 Street SE. Public portion of the lead service line was replaced on March 30, 2007. The inspection report identifies the service line from the curbstop to the property line as copper. Note: this address was included in the first monitoring period's Tier One sample pool as a full lead service line; however, the customer did not participate. The second monitoring period's sample plan mistakenly included this address as a partial lead service line. Compliance samples were taken after the replacement on October 24, 2007.

I respectfully request that the EPA invalidate the sample results collected at 1410 D Street SE, 1371 Kalmia Road NW, and 532 13th Street SE. I have enclosed the inspection reports, the laboratory results and the chain-of-custodies for your review. Please note that the sample results also support this invalidation request. If you have any questions regarding the approval of this invalidation, please contact Rich Giani at (202) 612-3441.

Sincerely,



Digitally signed by Charles Kiely
DN: cn=Charles Kiely, c=US, o=Customer Service
Date: 2007.12.20 12:57:10 -05'00'

Charles W Kiely,
Assistant General Manager, Consumer Services

Cc: Richard Giani

Enclosures:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

December 21, 2007

Mr. Charles Kiely
Assistant General Manager, Customer Services
District of Columbia Water and Sewer Authority
301 Bryant Street, NW
Washington, DC 20001

Dear Mr. Kiely:

This letter is in response to your letters of November 16 and December 20, 2007, that request four samples from the July – December 2007 monitoring period be invalidated. The samples are listed in the enclosure to this letter.

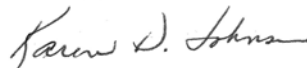
Pursuant to 40 CFR 141.86(f), EPA may invalidate a lead or copper tap water sample if, among other things, EPA learns that the sample was taken from a site that did not meet the site selection criteria of 40 CFR 141.86. For purposes of 40 CFR 141.86(f), the term “invalidate” means that the sample should not be counted to determine the lead or copper 90th percentile levels under 40 CFR 141.80(c)(3) or toward meeting the minimum monitoring requirements of 40 CFR 141.80(c). Pursuant to 40 CFR 141.90(g), data collected in addition to those data which are required by the regulations should be reported within the first ten days following the end of the applicable monitoring period, even if that data is not used to calculate the lead or copper 90th percentile requirements.

EPA has reviewed WASA’s request and its supporting documentation and agrees that the four samples can be invalidated and should not be used to calculate the 90th percentile levels for lead or copper. A copy of EPA’s rationale for this decision is enclosed. WASA must collect the minimum number of samples required for the monitoring period. If WASA does not have the minimum number of samples required for the monitoring period, WASA must collect replacement samples to reach the minimum number of samples required for the monitoring period under 40 CFR 141.86(c) no later than 20 days from receipt of this letter, from appropriate Tier 1 locations. Replacement samples from the invalidated sample sites are not appropriate because the sites do not meet the tier 1 site selection requirements of 40 CFR 141.86(a)(3). Replacement samples taken after the end of the applicable monitoring period may not be used to meet the monitoring requirements of a subsequent monitoring period. The replacement samples

must be taken at locations other than those already used for sampling during the July –December 2007 monitoring period. (40 CFR 141.86(f)(4)).

If you have any questions, I can be reached at 215-814-5445.

Sincerely,

A handwritten signature in cursive script that reads "Karen D. Johnson".

Karen D. Johnson, Chief
Ground Water and Enforcement Branch

Enclosure

ENCLOSURE 1

Invalidation of samples submitted by WASA (DC 0000002) for July –December 2007 Compliance Monitoring Period for Lead and Copper

On November 16 and December 20, 2007, the District of Columbia Water and Sewer Authority (WASA) submitted requests to invalidate one and three samples, respectively, taken for compliance with the Lead and Copper Rule for the July – December 2007 compliance monitoring period. Pursuant to 40 CFR 141.90(a)(1), the water system must submit the results of all tap samples including the location and criteria under which the site was selected for the system's sampling pool. For the following sampling locations, WASA submitted chains of custody, laboratory results, and information relating to the service line replacement. WASA did not submit information to show that any of the houses had copper pipes with lead solder installed after 1982 and before 1988 (DC lead ban effective date).

As stated in EPA and WASA's conference call of March 21, 2006, the best information available at the time of sampling and at the time of reporting must be used by WASA to identify tier 1 locations. Thus, if at the time of sampling, the best information available to WASA supports a determination that a particular sampling location qualifies as a tier 1 location, samples taken from that location may be analyzed with the intent to use them to determine the lead or copper 90th percentile levels under 40 CFR 141.80(c)(3) and toward meeting the minimum monitoring requirements of 40 CFR 141.86(c). However, if it is determined at a later date prior to reporting that the sampling location did not in fact qualify as a tier 1 location, then WASA should request invalidation of that sample under 141.86(f) prior to or at the time of reporting required by 40 CFR 141.90(a). EPA has reviewed WASA's information and has determined that the four samples should be invalidated pursuant to 40 CFR 141.86(f).

- 1313 T Street, SE, sample collected on September 26, 2007
- 1414 D Street, SE, sample collected on October 25, 2007
- 1371 Kalima Road, NW, sample collected on October 23, 2007
- 532 13th Street, SE, sample collected on October 24, 2007

The requirements for invalidation are set out in 40 CFR 141.86(f). If one or more of four conditions listed in 40 CFR 141.86(f)(i-iv) are met, the state, or EPA, may invalidate a sample. Determinations for each address follow.

A. 1313 T Street, SE

In the November 16, 2007, letter, WASA provided information indicating that the public portion of the service line at this address was replaced in April 2007. According to WASA's records, the private side of the service line had not been replaced. Information submitted by the homeowner on the Chain of Custody indicated that the private side had been replaced. A follow up phone conversation between WASA and the

homeowner confirmed that the replacement had been done by a contractor not associated with WASA's lead service line replacement program, and had taken place prior to the sampling event. Accordingly, the samples taken at this site must be invalidated, i.e., may not be counted to determine the lead or copper 90th percentile levels under 40 CFR 141.80(c)(3) or toward meeting the minimum monitoring requirements of 40 CFR 141.86(c).

B. 1414 D Street, SE, 1371 Kalima Road, NW, and 532 13th Street, SE

For these three addresses, WASA submitted information in a December 20, 2007 letter to EPA showing that the private side of the service lines for these addresses are copper. At the time of the sampling, the WASA's inventory showed that these addresses had lead service lines and thus qualified as tier 1 locations. Therefore the samples were sent for analysis. Inspections conducted as part of service line replacement activities revealed that the houses had copper service lines on the private portions at the time of the public lead service line replacement activities. Accordingly, the samples taken at these site must be invalidated, i.e., may not be counted to determine the lead or copper 90th percentile levels under 40 CFR 141.80(c)(3) or toward meeting the minimum monitoring requirements of 40 CFR 141.86(c).

Calculation of 90th Percentile for Lead and Copper

The invalidated samples cannot be used to compute the 90th percentile for the lead and copper samples. Further, replacement samples from the invalidated sample sites are not appropriate because the sites do not meet the tier 1 site selection requirements of 40 CFR 141.86(a)(3). 40 CFR 141.86(f)(4) requires the water system to collect replacement samples if they have not collected the minimum number of samples required for the monitoring period.

WASA is therefore required to collect replacement samples at four (4) tier 1 locations within 20 days of receipt of a letter from EPA that determines the invalidation if WASA has not yet met the minimum monitoring requirements of 40 CFR 141.86(c). If WASA does not collect a sufficient number of samples, they are subject to a violation of 40 CFR 141.86(c) for failure to collect the minimum number of samples required for a monitoring period. A 90th percentile value can still be calculated based on the number of samples collected, pursuant to a March 9, 2004 guidance memorandum "Compliance Calculation Under the Lead and Copper Rule" signed by Cynthia Dougherty, Director of the Office of Ground Water and Drinking Water.