Providence Water

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Providence, RI 02908

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April 18, 2013

June Swallow, PE
Chief, Drinking Water Quality
R.I. Department of Health
Cannon Building, Room 209
Three Capitol Hill
Providence, R.I. 02908-5097

RE: pH Transition Implementation Plan
Philip J. Holton Water Purification Plant
March 2013 Monthly Report
PWSID 1592024

Dear Ms. Swallow:

Providence Water is pleased to submit the attached March 2013 Monthly Report. The format of the Monthly Report follows the outline of RIDOH's December 6, 2012 letter. Providence Water continues to work closely with the Expert Panel to evaluate the effectiveness of the pH transition and the development of possible recommendations for corrosion control optimization.

On a related note, Providence Water is scheduled to begin the Unidirectional Flushing (UDF) Program in mid-May. In addition, the water main replacement program continues with the award of two new contracts in mid-June.

Should you have any questions, please feel free to contact me at 521-6300, Ext. 7291 or ggiasson@provwater.com.

Respectfully,
PROVIDENCE WATER SUPPLY BOARD

Gregg Giasson, PE
Senior Director of Operations

Attachment: March 2013 Monthly Report

cc: Clay Commons, Boyce Spinelli, Joseph Spremulli, Ricky Caruolo, Peter LePage, Steve Santaniello, Rich Razza, Paul Gadoury, PE, Steve Soito, PE, Fred Crosby, Mike Covellone, John Phillips, PE

Providence Water

# pH Transition Implementation Plan
# Philip J. Holton Water Purification Plant
# Monthly Report
# March 2013

This Monthly Report follows the outline of the RIDOH December 6, 2012 letter requesting monthly updates on all activity related to corrosion control.

## 1. pH Transition

The initial transition to a higher pH of 9.9 began on Wednesday, February 6, 2013.

As per the August 3, 2012 Memorandum to RIDOH from Providence Water, the Lime and $CO_2$ doses were to be lowered to achieve an initial incremental rise in pH of 0.2, with the ultimate goal of an initial 9.9 pH. The Lime and $CO_2$ doses were adjusted throughout the month of February, and as of February 28, the Effluent pH rose from 10.06 to 10.29. In the Distribution System, at 552 Academy Avenue, Providence, the pH rose from 9.75 to 10.01, whereupon it was felt that the pH had stabilized, and water quality data from the various testing sites was evaluated during the first three weeks of March. No adverse effects were observed over this period, therefore the next planned step for an additional .2 increase in pH in the Distribution System was implemented.

The second and final transition to the higher pH of 10.2 began on Monday, March 25, 2013.

The $CO_2$ dose was terminated and the Lime adjusted accordingly to reach the pH goal of approximately 10.2 in the distribution system. On March 25, the Effluent pH started at 10.53 and by the end of the week was 10.45. During that period, the pH at Academy Avenue rose from 10.00 to 10.36, averaging 10.27 for the week.

See Attachment No. 1 - February and March pH and Alkalinity Data Tables.

## 2. Special Sampling Studies of Lead Service Line

A. Sequential and LSL Sampling & Testing

The Post-CCTC sampling began on February 11, and continues based on the approved Protocol.

Sampling data received to date extends through the first week of March, with the next round of sampling to take place in the first week of April. The data received so far suggests a very modest decrease in total lead, particularly in the samples of water that had been stagnant in the lead service line at most locations. There was no increasing trend in lead concentration observed at any of the participating households in the data so far.

See Attachment No. 2 - Samples from Lead Service Line, for the eight participant site/address test results, for essentially all metals.

B. PRS Stations' Monitoring (Academy Ave., Brown University, Commercial Building)

The PRS Stations sampling and testing that was resumed at the end of January continues.

C. Virginia Tech (VT) Pipe Loop Rigs (Academy Ave., Water Treatment Plant)

Sampling and testing continues on the VT Rigs that were placed back in service the last week in February. The intention is to sample and test once per month.

## 3. Special Sampling Studies - Lead attached to Iron Particles

As mentioned in the prior Monthly, Marc Edwards, with his associate Sheldon Masters (both from Virginia Tech), studied the relationship between elevated iron concentrations and lead release. They continue to study the relationship and will share any new findings.

## 4. Special Sampling Studies - TCR Sites, LCR Sites, WTP Finished Water

A. Special Total Coliform Rule (TCR) Sites (4)

Four TCR sites were chosen for ease of sampling and their dispersed geographical locations. The additional sampling and testing that began at these sites on February 1, continues once every two weeks.

B. Lead and Copper Rule (LCR) Sites

The additional testing of the LCR sites (100) during the normal 6 month semesters that began in December 2012, continues. The additional tests being conducted, as requested by the Expert Panel, are for Dissolved Lead, Total Iron, and Total Zinc.

C. Total Coliform Rule (TCR) Sites (44)

The added Turbidity testing continues.

D. WTP Finished Water Sampling

The addition of Oxygen Reduction Potential (ORP) to the typical daily analyses of the finished water, continues with weekly field tests and laboratory tests every 8 weeks Post-CCTC.

## 5. Experimental Pipe Loops

The eight, four (4) foot lead service lines (5/8" inch) that were harvested for use in the pipe loop racks were delivered to the Plant. The List of Materials has been modified to show the instruments, pumps, valves etc that will be salvaged from the Iron Pipe Loops at the Bath Street Pump Station including those used in pipe loops in DC. The salvaged and excess equipment from DC was received and is also being stored at the Plant. New PVC piping, valves, Uni-Strut etc are being purchased. The actual fabrication of the test loops is expected to begin in April.

As per the Expert Panel's report, further consultation with the Panel is warranted once the current data is analyzed to determine what future experiments/pilot studies may be warranted.

# pH/Alkalinity Data

## February

| | Effluent Water | | Academy Ave., Tap | |
|---|---|---|---|---|
| Date | pH SU | T. Alk. mg/l | pH SU | T. Alk. mg/l |
| 2/1/2013 | 9.99 | 15.60 | 9.68 | 14.50 |
| 2/2/2013 | 10.02 | 16.10 | | |
| 2/3/2013 | | | | |
| 2/4/2013 | 10.03 | 15.80 | 9.77 | 14.30 |
| 2/5/2013 | 10.12 | 15.60 | 9.77 | 14.50 |
| 2/6/2013 | 10.06 | 16.70 | 9.75 | 14.60 |
| 2/7/2013 | 10.08 | 15.50 | 9.80 | 14.20 |
| 2/8/2013 | 10.06 | 15.50 | | |
| 2/9/2013 | | | | |
| 2/10/2013 | | | | |
| 2/11/2013 | 9.96 | 15.60 | | |
| 2/12/2013 | 10.10 | 15.70 | 9.81 | 14.20 |
| 2/13/2013 | 10.16 | 16.40 | 9.87 | 15.60 |
| 2/14/2013 | 10.34 | 16.20 | 9.64 | 14.60 |
| 2/15/2013 | 10.10 | 15.80 | 9.89 | 14.80 |
| 2/16/2013 | 10.16 | 16.00 | | |
| 2/17/2013 | | | | |
| 2/18/2013 | | | | |
| 2/19/2013 | 10.20 | 16.00 | 10.00 | 14.40 |
| 2/20/2013 | 10.17 | 15.60 | 9.96 | 14.20 |
| 2/21/2013 | 10.22 | 15.70 | 9.97 | 14.30 |
| 2/22/2013 | 10.29 | 16.00 | 9.91 | 14.10 |
| 2/23/2013 | 10.42 | 15.80 | | |
| 2/24/2013 | | | | |
| 2/25/2013 | 10.26 | 16.20 | 10.11 | 14.60 |
| 2/26/2013 | 10.28 | 16.40 | 10.05 | 14.90 |
| 2/27/2013 | 10.25 | 16.10 | 10.00 | 14.20 |
| 2/28/2013 | 10.29 | 16.20 | 10.01 | 14.90 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Minimum | 9.96 | 15.50 | 9.64 | 14.10 |
| Maximum | 10.42 | 16.70 | 10.11 | 15.60 |
| Average | 10.16 | 15.93 | 9.88 | 14.52 |

## March

| | Effluent Water | | Academy Ave., Tap | |
|---|---|---|---|---|
| Date | pH SU | T. Alk. mg/l | pH SU | T. Alk. mg/l |
| 3/1/2013 | 10.21 | 16.40 | 10.08 | 15.30 |
| 3/2/2013 | 10.26 | 16.70 | | |
| 3/3/2013 | | | | |
| 3/4/2013 | 10.28 | 16.10 | 10.11 | 14.80 |
| 3/5/2013 | 10.20 | 16.60 | 10.00 | 15.00 |
| 3/6/2013 | 10.16 | 16.80 | 9.75 | 15.60 |
| 3/7/2013 | 10.03 | 17.30 | 10.05 | 15.40 |
| 3/8/2013 | 10.18 | 16.70 | 9.83 | 15.40 |
| 3/9/2013 | 10.21 | 15.80 | | |
| 3/10/2013 | | | | |
| 3/11/2013 | 10.16 | 16.80 | 10.02 | 15.10 |
| 3/12/2013 | 10.20 | 16.80 | 9.85 | 15.50 |
| 3/13/2013 | 10.15 | 17.20 | 9.88 | 15.60 |
| 3/14/2013 | 10.25 | 16.90 | 9.90 | 15.00 |
| 3/15/2013 | 10.22 | 17.30 | 10.05 | 15.60 |
| 3/16/2013 | 10.18 | 17.00 | | |
| 3/17/2013 | | | | |
| 3/18/2013 | 10.23 | 17.10 | 10.00 | 15.60 |
| 3/19/2013 | 10.20 | 16.80 | 10.01 | 15.10 |
| 3/20/2013 | 10.24 | 17.20 | 10.00 | 15.20 |
| 3/21/2013 | 10.19 | 16.60 | 10.04 | 15.70 |
| 3/22/2013 | 10.32 | 16.70 | 9.95 | 15.30 |
| 3/23/2013 | 10.25 | 16.60 | | |
| 3/24/2013 | | | | |
| 3/25/2013 | 10.53 | 16.20 | 10.00 | 16.20 |
| 3/26/2013 | 10.60 | 17.30 | 10.34 | 15.10 |
| 3/27/2013 | 10.52 | 16.40 | 10.27 | 14.50 |
| 3/28/2013 | 10.47 | 16.30 | 10.38 | 15.60 |
| 3/29/2013 | 10.43 | 16.50 | 10.36 | 15.20 |
| 3/30/2013 | 10.45 | 16.80 | | |
| 3/31/2013 | | | | |
| | | | | |
| Minimum | 10.03 | 15.80 | 9.75 | 14.50 |
| Maximum | 10.60 | 17.30 | 10.38 | 16.20 |
| Average | 10.27 | 16.73 | 10.04 | 15.32 |

**Attachment No. 1**

## Loc #1, 57 Holburn Ave

### Date: 1/4/13; inside faucet — E301238

Flow rate = 1.49 gpm — pH = 9.33 / 9.53

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0052** | 0.0010 | 0.20 | 0.051 | **0.0520** | **0.0100** | 0.0051 | 0.0048 | **0.0710** |
| #02, 1/2 Liter | **0.0028** | 0.0010 | 0.19 | 0.051 | **0.0430** | **0.0110** | 0.0051 | 0.0038 | 0.0071 |
| #03, 1 Liter | 0.0010 | 0.0010 | 0.22 | 0.051 | 0.0110 | 0.0026 | 0.0051 | 0.0071 | 0.0051 |
| #04, 1 Liter | 0.0010 | 0.0010 | **0.23** | 0.051 | 0.0110 | 0.0021 | 0.0051 | **0.0073** | 0.0062 |
| #05, 1 Liter | 0.0012 | 0.0010 | 0.22 | 0.051 | 0.0082 | 0.0023 | 0.0051 | 0.0071 | 0.0051 |
| #06, 1 Liter | 0.0012 | 0.0010 | **0.23** | 0.051 | 0.0078 | 0.0021 | 0.0051 | **0.0073** | 0.0040 |
| #07, 3 min 1 Liter | 0.0010 | 0.0010 | 0.22 | 0.051 | 0.0120 | 0.0025 | 0.0051 | 0.0070 | **0.0072** |

### Date: 1/18/13; outside spigot — E301D07

Flow rate = 1.69 gpm — pH = 9.61 / 9.90

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **1.3000** | **0.0440** | **0.43** | 0.065 | **0.4100** | **0.0480** | **0.056** | **0.0150** | **0.6000** |
| #02, 1/2 Liter | 0.0045 | 0.0010 | 0.21 | 0.051 | **0.0160** | **0.0031** | 0.0051 | 0.0042 | 0.0095 |
| #03, 1 Liter | 0.0100 | 0.0010 | 0.20 | 0.051 | 0.0093 | 0.0026 | 0.0051 | 0.0040 | 0.0250 |
| #04, 1 Liter | **0.0260** | 0.0019 | 0.21 | 0.051 | 0.0076 | 0.0019 | 0.0051 | 0.0047 | 0.0280 |
| #05, 1 Liter | 0.0190 | 0.0013 | 0.21 | 0.051 | 0.0044 | 0.0016 | 0.0051 | 0.0050 | **0.0290** |
| #06, 1 Liter | 0.0180 | **0.0045** | 0.22 | **0.067** | 0.0032 | 0.0015 | 0.0051 | 0.0058 | 0.0250 |
| #07, 1 Liter | 0.0042 | 0.0010 | **0.24** | **0.083** | 0.0026 | 0.0015 | 0.0051 | 0.0075 | 0.0190 |
| #08, 3 min 1 Liter | 0.0010 | 0.0010 | **0.24** | 0.064 | 0.0010 | 0.0010 | 0.0051 | **0.0076** | 0.0210 |

**ATTACHMENT NO. 2**

## Date: 1/22/13; outside spigot — E301F54

Flow rate = 1.75 gpm — pH = 9.61 / 9.89

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01 1/2 Liter | **0.2600** | 0.0023 | **0.30** | 0.051 | **0.3200** | **0.0150** | **0.0084** | **0.0084** | **0.4400** |
| #02 1 Liter | 0.0150 | 0.0024 | **0.24** | 0.051 | **0.0100** | 0.0024 | 0.0051 | 0.0038 | 0.0056 |
| #03 1 Liter | 0.0180 | 0.0031 | **0.24** | 0.051 | 0.0037 | **0.0031** | 0.0051 | 0.0042 | 0.0061 |
| #04 1 Liter | 0.0230 | **0.0041** | **0.24** | 0.051 | 0.0022 | 0.0014 | 0.0051 | 0.0042 | **0.0073** |
| #05 1 Liter | **0.0260** | **0.0044** | 0.22 | 0.051 | 0.0021 | 0.0017 | 0.0051 | 0.0051 | 0.0051 |
| #06 1 Liter | 0.0024 | 0.0010 | 0.23 | 0.051 | 0.0015 | 0.0010 | 0.0051 | 0.0070 | 0.0051 |
| #07 3 min 1 Liter | 0.0010 | 0.0010 | 0.23 | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0071** | 0.0051 |

## Date: 1/25/13; outside spigot — E301H01

Flow rate = 2.52 gpm — pH = 9.55

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01 1/2 Liter | **0.035** | 0.001 | 0.21 | 0.051 | **0.0170** | **0.0027** | 0.0051 | 0.0045 | 0.0051 |
| #02 1 Liter | **0.110** | **0.051** | 0.20 | 0.051 | **0.0100** | 0.0016 | 0.0051 | 0.0045 | 0.0051 |
| #03 1 Liter | 0.030 | **0.020** | 0.21 | 0.051 | 0.0038 | **0.0036** | 0.0051 | 0.0052 | 0.0051 |
| #04 1 Liter | 0.014 | 0.009 | 0.20 | 0.051 | 0.0031 | 0.0021 | 0.0051 | 0.0053 | 0.0051 |
| #05 1 Liter | 0.012 | 0.004 | 0.21 | 0.051 | 0.0027 | 0.0031 | 0.0051 | 0.0060 | 0.0051 |
| #06 1 Liter | 0.009 | 0.005 | **0.22** | 0.051 | 0.0023 | 0.0011 | 0.0051 | **0.0068** | 0.0051 |
| #07 3 min 1 Liter | 0.001 | 0.001 | **0.22** | **0.057** | 0.0010 | 0.0010 | 0.0051 | **0.0068** | 0.0051 |

**ATTACHMENT NO. 2**

## Date: 1/30/13; outside spigot — E301K64

Flow rate = 2.36 gpm — pH = 9.61 / 9.80

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01 1/2 Liter | **0.0300** | 0.0013 | **0.2800** | 0.0510 | **0.0220** | **0.0140** | 0.0051 | 0.0043 | 0.0068 |
| #02 1 Liter | 0.0240 | **0.0042** | 0.2600 | 0.0510 | **0.0072** | **0.0032** | 0.0051 | 0.0041 | 0.0120 |
| #03 1 Liter | **0.0860** | **0.0056** | 0.2700 | 0.0530 | 0.0027 | 0.0011 | 0.0051 | 0.0046 | **0.0140** |
| #04 1 Liter | 0.0170 | 0.0024 | 0.2600 | 0.0510 | 0.0016 | 0.0010 | 0.0051 | 0.0056 | 0.0120 |
| #05 1 Liter | 0.0120 | 0.0037 | 0.2700 | **0.0810** | 0.0013 | 0.0016 | 0.0051 | 0.0068 | **0.0140** |
| #06 1 Liter | 0.0038 | 0.0010 | **0.2800** | 0.0540 | 0.0010 | 0.0010 | 0.0051 | **0.0080** | 0.0096 |
| #07 3 min 1 Liter | 0.0010 | 0.0010 | **0.3000** | **0.0740** | 0.0010 | 0.0010 | 0.0051 | **0.0086** | 0.0096 |

## Date: 2/11/13; inside faucet — E302596

Flow rate = 1.30 gpm — pH = 9.65 / 9.81

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0049** | 0.001 | **0.22** | 0.051 | **0.032** | **0.011** | 0.0051 | 0.005 | 0.009 |
| #02, 1 Liter | 0.003 | 0.001 | 0.2 | 0.051 | 0.0011 | 0.0011 | 0.0051 | **0.0057** | **0.01** |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.2 | 0.051 | 0.001 | 0.001 | 0.0051 | **0.0063** | 0.016 |

**ATTACHMENT NO. 2**

## Date: 2/13/13; outside spigot — E302953

Flow rate = 2.56 gpm — pH = 9.61 / 9.79

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.026** | 0.001 | 0.26 | 0.051 | **0.017** | **0.0034** | 0.0051 | 0.0043 | 0.0075 |
| #02, 1 Liter | 0.021 | **0.0032** | 0.3 | **0.078** | 0.0036 | 0.0012 | 0.0051 | 0.0057 | **0.012** |
| #03, 3 min 1 Liter | 0.0036 | 0.001 | **0.44** | **0.076** | 0.001 | 0.001 | 0.0051 | **0.012** | 0.0084 |

## Date: 2/20/13; outside spigot — E302E21

Flow rate = 2.22 gpm — pH = 9.77 / 9.94

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0095 | 0.0010 | **0.2500** | 0.0510 | **0.0250** | **0.0027** | 0.0051 | 0.0058 | 0.0053 |
| #02, 1 Liter | **0.0120** | 0.0010 | **0.2500** | 0.0510 | 0.0027 | 0.0010 | 0.0051 | 0.0062 | **0.0120** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | **0.2500** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0072** | 0.0092 |

## Date: 2/21/13; inside faucet — E302E20

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0210** | **0.0011** | **0.3100** | 0.0510 | **0.0270** | **0.0056** | 0.0051 | **0.0083** | **0.0550** |
| #02, 1 Liter | 0.0081 | 0.0010 | 0.1800 | 0.0510 | 0.0035 | 0.0012 | 0.0051 | 0.0061 | 0.0250 |
| #03, 3 min 1 Liter | 0.0045 | 0.0010 | 0.2000 | 0.0510 | 0.0013 | 0.0010 | 0.0051 | 0.0077 | 0.0140 |

**ATTACHMENT NO. 2**

## Date: 3/1/13; inside faucet — E303079

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| **0.0030** | 0.0010 | 0.2400 | 0.0510 | **0.0200** | **0.0080** | 0.0051 | 0.0047 | **0.0680** |
| 0.0027 | 0.0010 | 0.2400 | 0.0510 | 0.0075 | 0.0031 | 0.0051 | 0.0051 | 0.0140 |
| 0.0010 | 0.0010 | **0.2500** | **0.0580** | 0.0010 | 0.0010 | 0.0051 | **0.0070** | 0.0110 |

## Date: 3/6/13; inside faucet — E303572

ATP = 646 ME/mL  Flow rate = 2.24 gpm  pH = 9.83 / 9.94

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0150 | 0.0010 | **0.4100** | 0.0510 | **0.0140** | **0.0067** | 0.0051 | 0.0069 | 0.0056 |
| **0.0170** | **0.0018** | 0.4000 | **0.0720** | 0.0052 | 0.0015 | 0.0051 | **0.0094** | **0.0120** |
| 0.0010 | 0.0010 | 0.3100 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0094** | 0.0110 |

## Date: 3/7/13; inside faucet — E303571

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0052 | 0.0010 | **0.2300** | 0.0510 | **0.0340** | **0.0120** | 0.0051 | 0.0049 | 0.0140 |
| **0.0053** | 0.0010 | 0.1800 | 0.0510 | 0.0016 | 0.0010 | 0.0051 | 0.0049 | **0.0150** |
| 0.0010 | 0.0010 | 0.2100 | 0.0510 | 0.0018 | 0.0010 | 0.0051 | **0.0070** | 0.0140 |

## Loc #2 26 Keith Avenue

**Two largest concentrations** Below quantitation limits

**Sample date 1/8/2013; Outside spigot; E301631**

Flow rate = 1.63 gpm pH = 9.42 / 9.53

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0095 | 0.0016 | 0.100 | 0.051 | **0.0430** | **0.0110** | 0.0051 | 0.0038 | **0.0590** |
| #02, 1/2 Liter | 0.0067 | 0.0010 | 0.150 | 0.051 | 0.0110 | **0.0045** | 0.0051 | 0.0039 | **0.0180** |
| #03, 1 Liter | 0.0370 | 0.0050 | 0.150 | 0.051 | 0.0073 | 0.0031 | 0.0051 | 0.0042 | 0.0063 |
| #04, 1 Liter | 0.0530 | **0.0098** | **0.160** | 0.051 | 0.0021 | 0.0010 | 0.0051 | 0.0046 | 0.0051 |
| #05, 1 Liter | **0.0550** | 0.0058 | **0.160** | 0.051 | 0.0011 | 0.0010 | 0.0051 | **0.0048** | 0.0051 |
| #06, 1 Liter | **0.0580** | **0.0093** | 0.150 | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0048** | 0.0051 |
| #07, 1 Liter | 0.0170 | 0.0023 | 0.110 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0042 | 0.0051 |
| #08, 3 min 1 Liter | 0.0033 | 0.0010 | 0.093 | 0.051 | **0.0130** | 0.0041 | 0.0051 | 0.0032 | 0.0062 |

**Sample date 1/9/2013; Inside faucet; E301690**

Flow rate = 2.10 gpm pH = 9.46 / 9.54

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0036 | 0.0010 | **0.140** | 0.051 | **0.0160** | **0.0059** | 0.0051 | 0.0032 | **0.0470** |
| #02, 1/2 Liter | 0.0048 | 0.0010 | 0.120 | 0.051 | **0.0092** | 0.0034 | 0.0051 | 0.0030 | **0.0240** |
| #03, 1 Liter | 0.0051 | 0.0010 | **0.130** | 0.051 | 0.0076 | 0.0032 | 0.0051 | 0.0036 | 0.0220 |
| #04, 1 Liter | 0.0046 | 0.0010 | 0.110 | 0.051 | 0.0074 | 0.0032 | 0.0051 | 0.0032 | 0.0170 |
| #05, 1 Liter | 0.0220 | 0.0033 | 0.110 | 0.051 | 0.0073 | **0.0037** | 0.0051 | **0.0036** | 0.0062 |
| #06, 1 Liter | 0.0260 | 0.0019 | 0.100 | 0.051 | 0.0037 | 0.0018 | 0.0051 | **0.0038** | 0.0060 |
| #07, 1 Liter | **0.0270** | **0.0041** | 0.096 | 0.051 | 0.0015 | 0.0011 | 0.0051 | 0.0031 | 0.0051 |
| #08, 1 Liter | **0.0280** | **0.0039** | 0.097 | 0.051 | 0.0013 | 0.0011 | 0.0051 | 0.0034 | 0.0052 |
| #09, 3 min 1 Liter | 0.0080 | 0.0010 | 0.100 | 0.051 | 0.0016 | 0.0014 | 0.0051 | 0.0032 | 0.0055 |

**ATTACHMENT NO. 2**

**Sample date 1/16/2013; Outside spigot; E301C03**

Flow rate = 1.57 gpm pH = 9.60 / 9.69

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0078 | 0.0019 | 0.061 | 0.051 | 0.0370 | **0.0130** | 0.0051 | 0.0025 | **0.0490** |
| #02, 1/2 Liter | 0.0068 | 0.0010 | 0.094 | 0.051 | 0.0130 | **0.0048** | 0.0051 | 0.0022 | 0.0200 |
| #03, 1 Liter | 0.0320 | 0.0066 | 0.085 | 0.051 | 0.0055 | 0.0030 | 0.0051 | 0.0020 | 0.0051 |
| #04, 1 Liter | **0.0380** | **0.0068** | 0.085 | 0.051 | 0.0011 | 0.0012 | 0.0051 | 0.0020 | 0.0051 |
| #05, 1 Liter | **0.0400** | **0.0091** | 0.084 | 0.051 | 0.0013 | 0.0010 | 0.0051 | 0.0020 | **0.0250** |
| #06, 1 Liter | 0.0370 | 0.0066 | 0.085 | 0.051 | 0.0011 | 0.0010 | 0.0051 | 0.0020 | 0.0051 |
| #07, 1 Liter | 0.0065 | 0.0011 | **0.100** | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0026** | 0.0051 |
| #08, 3 min 1 Liter | 0.0013 | 0.0010 | **0.100** | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0028** | 0.0051 |

**Sample date 1/23/2013; Outside spigot; E301G29**

Flow rate = 1.46 gpm pH = 9.70 / 9.81

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0089 | 0.0010 | **0.120** | 0.051 | **0.0280** | **0.0048** | 0.0051 | **0.0023** | **0.0860** |
| #02, 1/2 Liter | 0.0120 | 0.0032 | 0.092 | 0.051 | **0.0210** | **0.0054** | 0.0051 | 0.0020 | **0.0410** |
| #03, 1 Liter | 0.0170 | **0.0050** | **0.098** | 0.051 | 0.0051 | 0.0011 | 0.0051 | **0.0021** | 0.0320 |
| #04, 1 Liter | **0.0180** | 0.0020 | 0.090 | 0.051 | 0.0021 | 0.0015 | 0.0051 | 0.0020 | 0.0051 |
| #05, 1 Liter | **0.0200** | **0.0070** | 0.091 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0051 |
| #06, 1 Liter | 0.0068 | 0.0015 | 0.095 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0023 | 0.0051 |
| #07, 3 min 1 Liter | 0.0012 | 0.0010 | **0.098** | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0026 | 0.0051 |

**Sample date 1/30/2013; Outside spigot;** **E301K65**

Flow rate = 1.59 gpm pH = 9.66 / 9.73

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0090 | 0.0010 | **0.1100** | 0.0510 | **0.0160** | **0.0074** | 0.0051 | 0.0020 | **0.0750** |
| #02, 1 Liter | 0.0330 | **0.0110** | 0.0970 | 0.0510 | **0.0072** | **0.0039** | 0.0051 | 0.0020 | 0.0150 |
| #03, 1 Liter | 0.0430 | **0.0110** | 0.0940 | 0.0510 | 0.0014 | 0.0014 | 0.0051 | 0.0020 | **0.0180** |
| #04, 1 Liter | **0.0450** | 0.0100 | 0.0950 | 0.0510 | 0.0016 | 0.0017 | 0.0051 | 0.0020 | 0.0140 |
| #05, 1 Liter | **0.0460** | 0.0100 | 0.0940 | 0.0510 | 0.0010 | 0.0018 | 0.0051 | 0.0020 | 0.0110 |
| #06, 1 Liter | 0.0098 | 0.0028 | **0.1100** | 0.0510 | 0.0010 | 0.0012 | 0.0051 | **0.0033** | 0.0120 |
| #07, 3 min 1 Liter | 0.0012 | 0.0010 | **0.1100** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0033** | 0.0099 |

**Sample date 2/12/2013; Inside spigot; E302848**

Flow rate = 1.77 gpm pH = 9.48 / 9.56

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.005 | 0.001 | **0.11** | 0.051 | **0.0092** | **0.0046** | 0.0051 | 0.0025 | **0.027** |
| #02, 1 Liter | **0.027** | **0.0058** | 0.07 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.011 |
| #03, 3 min 1 Liter | 0.001 | 0.001 | **0.11** | **0.058** | 0.001 | 0.001 | 0.0051 | **0.0031** | 0.009 |
| #04, 3 min 1 Liter | 0.001 | 0.001 | **0.11** | 0.051 | 0.001 | 0.001 | 0.0051 | **0.0033** | 0.0051 |

**Sample date 2/13/2013; Outside spigot; E302952**

Flow rate = 1.70 gpm pH = 9.56 / 9.66

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.062** | 0.0024 | **0.19** | 0.051 | **0.02** | **0.0075** | 0.0051 | **0.0053** | **0.053** |
| #02, 1 Liter | 0.031 | **0.0053** | 0.086 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.0023 | 0.0091 |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.089 | 0.051 | 0.001 | 0.0012 | 0.0051 | 0.0022 | 0.0086 |
| #04, 3 min 1 Liter | 0.001 | 0.001 | 0.089 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.0022 | 0.0085 |

**ATTACHMENT NO. 2**

**Sample date 2/21/2013; Outside spigot; E302E17**

Flow rate = 2.30 gpm pH = 9.93 / 10.02

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0120 | 0.0010 | 0.0920 | 0.0510 | **0.0140** | **0.0061** | 0.0051 | 0.0020 | 0.0120 |
| #02, 1 Liter | **0.0270** | 0.0010 | 0.0980 | 0.0510 | 0.0012 | 0.0010 | 0.0051 | 0.0022 | **0.0140** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | **0.1400** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0040** | 0.0110 |
| #04, 3 min 1 Liter | 0.0010 | 0.0010 | **0.1300** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0039** | 0.0087 |

**Sample date 2/20/2013; Inside spigot; E302D40**

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0110 | 0.0010 | 0.1500 | 0.0510 | **0.0011** | 0.0010 | 0.0051 | 0.0039 | 0.0051 |
| #02, 1 Liter | **0.0130** | **0.0017** | 0.1500 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0040 | **0.0120** |
| #03, 3 min 1 Liter | 0.0022 | 0.0010 | **0.1600** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0043** | 0.0110 |
| #04, 3 min 1 Liter | 0.0014 | 0.0010 | **0.1600** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0041 | 0.0120 |

**Sample date 2/26/2013; Inside spigot; E302H07**

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| **0.0018** | 0.001 | 0.14 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.0036 | 0.0051 |
| 0.0014 | 0.001 | 0.14 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.0037 | **0.0099** |
| 0.0013 | 0.001 | 0.14 | 0.051 | 0.001 | 0.001 | 0.0051 | **0.0039** | 0.0095 |
| 0.0011 | 0.001 | **0.15** | 0.051 | 0.001 | 0.001 | 0.0051 | 0.0037 | **0.0099** |

**Sample date 2/27/2013; Outside spigot; E302I59**

ATP = 104 ME/mL Flow rate = 1.93 gpm pH = 9.78 / 9.96

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0049 | 0.0010 | 0.0790 | 0.0510 | **0.0160** | **0.0069** | 0.0051 | 0.0020 | 0.0092 |
| **0.0290** | **0.0042** | 0.0760 | 0.0510 | 0.0011 | 0.0010 | 0.0051 | 0.0020 | 0.0097 |
| 0.0010 | 0.0010 | **0.0880** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0023** | **0.0120** |
| 0.0010 | 0.0010 | **0.0880** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0022 | 0.0088 |

**Sample date 3/5/2013; Inside spigot; E303294**

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| **0.0260** | **0.0064** | 0.0640 | 0.0510 | **0.0013** | **0.0011** | 0.0051 | 0.0020 | 0.0051 |
| 0.0014 | 0.0010 | 0.1200 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0032 | 0.0090 |
| 0.0012 | 0.0010 | **0.1300** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0034** | **0.0098** |
| 0.0011 | 0.0010 | **0.1300** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0034** | **0.0100** |

**Sample date 3/6/2013; Outside spigot; E303574**

ATP = 427 ME/mL Flow rate = 2.04 gpm pH = 9.77 / 9.86

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0076 | 0.0016 | **0.0610** | 0.0510 | **0.0120** | **0.0069** | 0.0051 | 0.0020 | 0.0100 |
| **0.0270** | **0.0079** | 0.0570 | 0.0510 | 0.0011 | 0.0010 | 0.0051 | 0.0020 | 0.0110 |
| 0.0011 | 0.0010 | 0.0730 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0099 |
| 0.0012 | 0.0010 | 0.0710 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | **0.0250** |

## Loc #3, 32 Lorimer Ave

**Two largest concentrations** Below quantitation limits

### Date: 1/10/13; outside spigot E301770

Flow rate = 2.04 gpm pH = 9.50 / 9.63

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01, 1/2 Liter | Result | 0.0140 | 0.0050 | 0.051 | 0.051 | **0.0160** | 0.0060 | 0.0051 | 0.0020 | **0.1300** |
| #02, 1/2 Liter | Result | 0.0230 | 0.0014 | **0.220** | 0.051 | 0.0100 | **0.0071** | 0.0051 | **0.0058** | **0.2000** |
| #03, 1 Liter | Result | 0.0240 | 0.0042 | 0.200 | 0.051 | **0.0360** | **0.0120** | 0.0051 | **0.0042** | 0.0280 |
| #04, 1 Liter | Result | **0.0850** | **0.0100** | **0.210** | 0.051 | 0.0064 | 0.0027 | 0.0051 | **0.0042** | 0.0230 |
| #05, 1 Liter | Result | **0.0870** | **0.0100** | **0.210** | 0.051 | 0.0019 | 0.0014 | 0.0051 | 0.0041 | 0.0220 |
| #06, 1 Liter | Result | 0.0470 | 0.0052 | 0.190 | 0.051 | 0.0018 | 0.0012 | 0.0051 | 0.0036 | 0.0220 |
| #07, 1 Liter | Result | 0.0049 | 0.0010 | 0.058 | 0.051 | 0.0012 | 0.0010 | 0.0051 | 0.0020 | 0.0220 |
| #08, 3 min 1 Liter | Result | 0.0023 | 0.0010 | 0.053 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0210 |

### Date: 1/11/13; outside spigot E301806

Flow rate = 2.03 gpm pH = 9.50 / 9.56

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01, 1/2 Liter | Result | 0.0160 | 0.0054 | 0.051 | 0.051 | **0.0120** | **0.0080** | 0.0051 | 0.0020 | **0.1100** |
| #02, 1/2 Liter | Result | 0.0120 | 0.0020 | **0.052** | 0.051 | **0.0120** | 0.0068 | 0.0051 | 0.0020 | **0.1000** |
| #03, 1 Liter | Result | 0.0210 | 0.0099 | 0.051 | 0.051 | **0.0250** | **0.0140** | 0.0051 | 0.0020 | 0.0280 |
| #04, 1 Liter | Result | **0.0520** | **0.0230** | **0.053** | 0.051 | 0.0041 | 0.0032 | 0.0051 | 0.0020 | 0.0220 |
| #05, 1 Liter | Result | **0.0500** | **0.0210** | 0.051 | 0.051 | 0.0018 | 0.0016 | 0.0051 | 0.0020 | 0.0250 |
| #06, 1 Liter | Result | 0.0220 | 0.0025 | 0.150 | 0.051 | 0.0017 | 0.0012 | 0.0051 | 0.0042 | 0.0230 |
| #07, 1 Liter | Result | 0.0040 | 0.0010 | 0.150 | 0.051 | 0.0012 | 0.0010 | 0.0051 | **0.0048** | 0.0190 |
| #08, 3 min 1 Liter | Result | 0.0025 | 0.0010 | 0.140 | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0049** | 0.0230 |

**ATTACHMENT NO. 2**

## Date: 1/14/13; inside faucet — E301A06

Flow rate = 1.75 gpm — pH = 9.17 / 9.31

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01, 1/2 Liter | Result | 0.0120 | 0.0036 | 0.074 | 0.051 | **0.0450** | **0.0240** | 0.0051 | **0.0026** | 0.0290 |
| #02, 1/2 Liter | Result | 0.0170 | 0.0012 | **0.088** | 0.051 | **0.0320** | 0.0140 | 0.0051 | **0.0026** | **0.0490** |
| #03, 1 Liter | Result | 0.0180 | 0.0054 | **0.084** | 0.051 | 0.0300 | **0.0150** | 0.0051 | 0.0022 | **0.0330** |
| #04, 1 Liter | Result | 0.0370 | 0.0130 | 0.076 | 0.051 | 0.0190 | 0.0095 | 0.0051 | 0.0020 | 0.0210 |
| #05, 1 Liter | Result | **0.0700** | **0.0240** | 0.082 | 0.051 | 0.0042 | 0.0026 | 0.0051 | 0.0021 | 0.0180 |
| #06, 1 Liter | Result | **0.0640** | **0.0180** | 0.074 | 0.051 | 0.0028 | 0.0018 | 0.0051 | 0.0020 | 0.0160 |
| #07, 1 Liter | Result | 0.0140 | 0.0042 | 0.054 | 0.051 | 0.0023 | 0.0018 | 0.0051 | 0.0024 | 0.0160 |
| #08, 3 min 1 Liter | Result | 0.0026 | 0.0015 | 0.051 | 0.051 | 0.0020 | 0.0017 | 0.0051 | 0.0020 | 0.0170 |

## Date: 1/22/13; outside spigot — E301F55

Flow rate = 2.66 gpm — pH = 9.74 / 9.76

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01 1/2 Liter | Result | 0.0290 | 0.0034 | **0.130** | 0.051 | **0.0210** | **0.0080** | 0.0051 | **0.0040** | **0.5600** |
| #02 1 Liter | Result | 0.0230 | 0.0120 | 0.051 | 0.051 | **0.0200** | **0.0150** | 0.0051 | 0.0020 | **0.0200** |
| #03 1 Liter | Result | **0.0450** | **0.0220** | 0.051 | 0.051 | 0.0048 | 0.0047 | 0.0051 | 0.0020 | 0.0140 |
| #04 1 Liter | Result | **0.0390** | **0.0190** | 0.051 | 0.051 | 0.0023 | 0.0018 | 0.0051 | 0.0020 | 0.0140 |
| #05 1 Liter | Result | 0.0120 | 0.0027 | **0.072** | 0.051 | 0.0017 | 0.0016 | 0.0051 | 0.0020 | 0.0099 |
| #06 1 Liter | Result | 0.0035 | 0.0010 | 0.065 | 0.051 | 0.0014 | 0.0011 | 0.0051 | 0.0020 | 0.0067 |
| #07 3 min 1 Liter | Result | 0.0022 | 0.0010 | 0.064 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0051 |

**ATTACHMENT NO. 2**

## Date: 1/24/13; outside spigot — E301G88

Flow rate = 2.21 gpm — pH = 9.64

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01 1/2 Liter | Result | 0.0150 | 0.0028 | 0.056 | 0.051 | **0.0310** | **0.0150** | 0.0051 | 0.0020 | **0.0710** |
| #02 1 Liter | Result | **0.0370** | 0.0200 | 0.051 | 0.051 | **0.0170** | **0.0120** | 0.0051 | 0.0020 | **0.0090** |
| #03 1 Liter | Result | **0.0500** | **0.0390** | 0.051 | 0.051 | 0.0029 | 0.0020 | 0.0051 | 0.0020 | 0.0051 |
| #04 1 Liter | Result | 0.0350 | **0.0250** | 0.053 | 0.051 | 0.0021 | 0.0018 | 0.0051 | 0.0020 | 0.0051 |
| #05 1 Liter | Result | 0.0085 | 0.0015 | **0.070** | 0.051 | 0.0016 | 0.0014 | 0.0051 | 0.0020 | 0.0051 |
| #06 1 Liter | Result | 0.0032 | 0.0020 | 0.060 | 0.051 | 0.0016 | 0.0012 | 0.0051 | 0.0020 | 0.0051 |
| #07 3 min 1 Liter | Result | 0.0021 | 0.0014 | **0.062** | 0.051 | 0.0012 | 0.0015 | 0.0051 | 0.0020 | 0.0051 |

## Date: 2/11/13; inside faucet — E302695

Flow rate = 1.72 gpm — pH = 9.32 / 9.43

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01, 1/2 Liter | | 0.016 | 0.0041 | 0.051 | 0.051 | **0.031** | **0.016** | 0.0051 | 0.002 | **0.019** |
| #02, 1 Liter | | **0.044** | **0.016** | 0.051 | 0.051 | 0.0029 | 0.0021 | 0.0051 | 0.002 | 0.01 |
| #03, 3 min 1 Liter | | 0.0023 | 0.001 | **0.063** | 0.051 | 0.0014 | 0.0013 | 0.0051 | 0.002 | 0.0092 |

## Date: 2/14/13; outside spigot — E302A39

Flow rate = 2.04 gpm — pH = 9.46 / 9.69

| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|---|
| | Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| #01, 1/2 Liter | | 0.0340 | 0.0043 | **0.1600** | 0.0510 | **0.0150** | **0.0049** | 0.0051 | **0.0029** | **1.4000** |
| #02, 1 Liter | | **0.0480** | **0.0150** | 0.0510 | 0.0510 | 0.0020 | 0.0017 | 0.0051 | 0.0020 | 0.0160 |
| #03, 3 min 1 Liter | | 0.0018 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0110 |

**ATTACHMENT NO. 2**

## Date: 2/18/13; inside faucet — E302C09

| Units / Parameter | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0210 | 0.0076 | 0.0580 | 0.0510 | **0.0230** | **0.0140** | 0.0051 | 0.0020 | **0.0170** |
| #02, 1 Liter | **0.0500** | **0.0220** | **0.0680** | 0.0510 | 0.0031 | 0.0022 | 0.0051 | 0.0020 | 0.0120 |
| #03, 3 min 1 Liter | 0.0020 | 0.0010 | 0.0510 | 0.0510 | 0.0012 | 0.0010 | 0.0051 | 0.0020 | 0.0093 |

## Date: 2/22/13; outside spigot — E302F62

Flow rate = 2.82 gpm  pH = 9.69 / 9.77

| Units / Parameter | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0240 | 0.0022 | **0.0860** | 0.0510 | **0.0160** | **0.0110** | 0.0051 | **0.0024** | **0.6800** |
| #02, 1 Liter | **0.0300** | **0.0086** | 0.0510 | 0.0510 | 0.0025 | 0.0022 | 0.0051 | 0.0020 | 0.0210 |
| #03, 3 min 1 Liter | 0.0018 | 0.0010 | 0.0620 | 0.0510 | 0.0010 | 0.0012 | 0.0051 | 0.0020 | 0.0150 |

## Date: 2/25/13; outside spigot — E302H06

Flow rate = 2.89 gpm  pH = 9.87 / 9.91

| Units / Parameter | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| | 0.0130 | 0.0068 | **0.0560** | 0.0510 | **0.0097** | **0.0053** | 0.0051 | 0.0020 | **0.3000** |
| | **0.0460** | **0.0180** | 0.0510 | 0.0510 | 0.0019 | 0.0018 | 0.0051 | 0.0020 | 0.0150 |
| | 0.0017 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0120 |

## Date: 2/28/13; inside faucet — E303075

| Units / Parameter | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| | 0.0096 | 0.0044 | 0.0510 | 0.0510 | **0.0280** | **0.0180** | 0.0051 | 0.0020 | **0.0160** |
| | **0.0370** | **0.0170** | 0.0510 | 0.0510 | 0.0025 | 0.0018 | 0.0051 | 0.0020 | 0.0140 |
| | 0.0019 | 0.0010 | 0.0510 | 0.0510 | 0.0011 | 0.0010 | 0.0051 | 0.0020 | 0.0092 |

**ATTACHMENT NO. 2**

## Date: 3/4/13; outside spigot E303295

ATP = 582 ME/mL Flow rate = 3.12 gpm pH = 9.82 / 9.94

| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| | 0.0093 | 0.0022 | 0.0540 | 0.0510 | **0.0230** | **0.0140** | 0.0051 | 0.0020 | **0.1100** |
| | **0.0370** | **0.0180** | 0.0510 | 0.0510 | 0.0020 | 0.0016 | 0.0051 | 0.0020 | 0.0230 |
| | 0.0017 | 0.0010 | **0.0550** | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0130 |

## Date: 3/7/13; outside spigot E303295

ATP = ME/mL Flow rate = gpm pH =

| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | **Lead** | Diss Lead | Iron | Diss Iron | Copper | Diss Copper | Tin | Manganese | Zinc |
| | **0.0100** | **0.0045** | 0.0510 | 0.0510 | **0.0240** | **0.0160** | 0.0051 | 0.0020 | 0.0180 |
| | 0.0063 | 0.0010 | 0.1200 | 0.0510 | 0.0016 | 0.0012 | 0.0051 | 0.0025 | **0.0310** |
| | 0.0120 | 0.0010 | **17.0000** | **0.2100** | 0.0110 | 0.0089 | 0.0050 | **0.1800** | 0.0280 |

**ATTACHMENT NO. 2**

## Loc #4, 56 Gentian Ave

**Two largest concentrations** Below quantitation limits

### Date: 1/15/13; inside faucet E301A44

Flow rate = 1.48 gpm pH = 9.50 / 9.59

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0077 | **0.0019** | 0.051 | 0.051 | **0.0220** | 0.0150 | 0.0051 | 0.002 | 0.0220 |
| #02, 1/2 Liter | **0.0080** | **0.0025** | 0.051 | 0.051 | 0.0120 | 0.0088 | 0.0051 | 0.002 | 0.0051 |
| #03, 1 Liter | 0.0055 | 0.0010 | **0.120** | 0.051 | **0.0140** | 0.0059 | 0.0051 | 0.002 | **0.0240** |
| #04, 1 Liter | **0.0081** | 0.0012 | **0.130** | 0.051 | 0.0052 | 0.0034 | 0.0051 | 0.002 | 0.0190 |
| #05, 1 Liter | 0.0042 | 0.0012 | 0.051 | 0.051 | 0.0024 | 0.0018 | 0.0051 | 0.002 | **0.0300** |
| #06, 1 Liter | 0.0021 | 0.0010 | 0.051 | 0.051 | 0.0024 | 0.0020 | 0.0051 | 0.002 | 0.0200 |
| #07, 1 Liter | 0.0019 | 0.0010 | 0.051 | 0.051 | 0.0021 | 0.0021 | 0.0051 | 0.002 | 0.0180 |
| #08, 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0012 | 0.0012 | 0.0051 | 0.002 | 0.0180 |
| #09, 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0220 |
| #10, 3 min 1 Liter | 0.0012 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0150 |

**ATTACHMENT NO. 2**

## Date: 1/17/13; outside spigot E301C76

Flow rate = 1.30 gpm pH = 9.84 / 9.91

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #02, 1/2 Liter | **0.0150** | **0.0078** | 0.051 | 0.051 | **0.0043** | **0.0031** | 0.0051 | 0.002 | 0.0080 |
| #03, 1 Liter | **0.0039** | **0.0016** | 0.051 | 0.051 | **0.0028** | **0.0024** | 0.0051 | 0.002 | 0.0190 |
| #04, 1 Liter | 0.0034 | 0.0010 | 0.051 | 0.051 | 0.0017 | 0.0016 | 0.0051 | 0.002 | 0.0170 |
| #05, 1 Liter | 0.0019 | 0.0010 | 0.051 | 0.051 | 0.0011 | 0.0010 | 0.0051 | 0.002 | **0.0310** |
| #06, 1 Liter | 0.0015 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0170 |
| #07, 1 Liter | 0.0016 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0012 | 0.0051 | 0.002 | 0.0170 |
| #08, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | **0.0220** |
| #09, 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0160 |
| #10, 3 min 1 Liter | 0.0012 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0012 | 0.0051 | 0.002 | 0.0051 |

## Date: 1/23/13; outside spigot E301G28

Flow rate = 1.38 gpm pH = 9.61 / 9.75

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0170** | **0.0055** | 0.051 | 0.051 | **0.0090** | **0.0054** | 0.0051 | 0.002 | 0.0051 |
| #02, 1 Liter | 0.0086 | **0.0033** | 0.051 | 0.051 | **0.0052** | **0.0034** | 0.0051 | 0.002 | **0.0091** |
| #03, 1 Liter | **0.0110** | 0.0030 | 0.051 | 0.051 | 0.0018 | 0.0013 | 0.0051 | 0.002 | 0.0051 |
| #04, 1 Liter | 0.0036 | 0.0010 | 0.051 | 0.051 | 0.0014 | 0.0011 | 0.0051 | 0.002 | 0.0051 |
| #05, 1 Liter | 0.0016 | 0.0010 | 0.051 | 0.051 | 0.0013 | 0.0010 | 0.0051 | 0.002 | 0.0051 |
| #06, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0012 | 0.0010 | 0.0051 | 0.002 | 0.0051 |
| #07, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0011 | 0.0051 | 0.002 | 0.0051 |
| #08, 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0051 |
| #09, 3 min 1 Liter | 0.0012 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0051 |

**ATTACHMENT NO. 2**

## Date: 1/25/13; outside spigot E301H02

Flow rate = 1.52 gpm pH = 9.66 / 9.79

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0084 | 0.0019 | 0.051 | 0.051 | **0.0200** | **0.0080** | 0.0051 | 0.002 | **0.0300** |
| #02, 1 Liter | **0.0110** | **0.0030** | 0.051 | 0.051 | **0.0120** | **0.0062** | 0.0051 | 0.002 | **0.0330** |
| #03, 1 Liter | **0.0180** | **0.0038** | 0.051 | 0.051 | 0.0022 | 0.0016 | 0.0051 | 0.002 | 0.0051 |
| #04, 1 Liter | 0.0044 | 0.0010 | 0.051 | 0.051 | 0.0016 | 0.0013 | 0.0051 | 0.002 | 0.0051 |
| #05, 1 Liter | 0.0016 | 0.0010 | 0.051 | 0.051 | 0.0016 | 0.0018 | 0.0051 | 0.002 | 0.0051 |
| #06, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0013 | 0.0013 | 0.0051 | 0.002 | 0.0051 |
| #07, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0022 | 0.0023 | 0.0051 | 0.002 | 0.0051 |
| #08, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0012 | 0.0051 | 0.002 | 0.0051 |
| #09, 3 min 1 Liter | 0.0012 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0051 |

## Date: 1/28/13; outside spigot E301H38

Flow rate = 1.57 gpm pH = 9.52 / 9.72

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0230** | 0.0077 | 0.055 | 0.051 | **0.0250** | **0.0200** | 0.0051 | 0.002 | 0.0051 |
| #02, 1 Liter | 0.0180 | **0.0100** | 0.051 | 0.051 | **0.0170** | **0.0140** | 0.0051 | 0.002 | **0.0190** |
| #03, 1 Liter | **0.0300** | **0.0160** | 0.051 | 0.051 | 0.0030 | 0.0025 | 0.0051 | 0.002 | 0.0051 |
| #04, 1 Liter | 0.0063 | 0.0020 | 0.051 | 0.051 | 0.0022 | 0.0015 | 0.0051 | 0.002 | 0.0051 |
| #05, 1 Liter | 0.0017 | 0.0010 | 0.051 | 0.051 | 0.0016 | 0.0014 | 0.0051 | 0.002 | 0.0051 |
| #06, 1 Liter | 0.0015 | 0.0012 | 0.051 | 0.051 | 0.0019 | 0.0016 | 0.0051 | 0.002 | 0.0051 |
| #07, 1 Liter | 0.0014 | 0.0010 | 0.051 | 0.051 | 0.0012 | 0.0010 | 0.0051 | 0.002 | 0.0051 |
| #08, 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.002 | 0.0051 |
| #09, 3 min 1 Liter | 0.0012 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0012 | 0.0051 | 0.002 | 0.0051 |

## Date: 2/11/13; outside faucet — E302594

Flow rate = 1.82 gpm — pH = 9.74 / 9.78

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0041** | 0.001 | 0.051 | 0.051 | **0.0055** | **0.0034** | 0.0051 | 0.002 | 0.0051 |
| #02, 1 Liter ** | 0.0013 | 0.001 | 0.051 | 0.051 | 0.0012 | 0.0012 | 0.0051 | 0.002 | **0.0088** |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | **0.0087** |

## Date: 2/12/13; inside spigot — E302694

Flow rate = 1.90 gpm — pH = 9.71 / 9.72

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.011** | 0.001 | **0.055** | 0.051 | **0.0045** | **0.0025** | 0.0051 | 0.002 | 0.0051 |
| #02, 1 Liter ** | 0.0013 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | **0.0096** |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.0092 |

## Date: 2/18/13; inside faucet — E302A72

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0100** | **0.0022** | 0.0510 | 0.0510 | **0.0061** | **0.0041** | 0.0051 | 0.0020 | 0.0051 |
| #02, 1 Liter ** | 0.0012 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | **0.0086** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0083 |

**ATTACHMENT NO. 2**

## Date: 2/19/13; outside spigot E302C07

Flow rate = 0.88 gpm pH = 9.75 / 9.82

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0110** | **0.0020** | 0.0510 | 0.0510 | **0.0045** | **0.0022** | 0.0051 | 0.0020 | 0.0056 |
| #02, 1 Liter ** | 0.0018 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | **0.0096** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0091 |

## Date: 2/25/13; outside spigot E302G22

Flow rate = 1.21 gpm pH = 9.82 / 9.97

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| **0.0100** | **0.0039** | 0.0510 | 0.0510 | **0.0098** | **0.0089** | 0.0051 | 0.0020 | 0.0051 |
| **0.0100** | 0.0014 | 0.0510 | 0.0510 | 0.0014 | 0.0020 | 0.0051 | 0.0020 | **0.0094** |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | **0.0093** |

## Date: 2/26/13; inside faucet E302H08

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| **0.011** | 0.0031 | 0.051 | 0.051 | **0.01** | **0.0069** | 0.0051 | 0.002 | 0.0051 |
| 0.007 | **0.0034** | 0.051 | 0.051 | 0.0014 | 0.0013 | 0.0051 | 0.002 | **0.0093** |
| 0.001 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.0075 |

## Date: 3/4/13; outside spigot — E303185

ATP = 256 ME/mL  Flow rate = 1.15 gpm  pH = 9.90 / 9.99

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0080 | 0.0050 | 0.0510 | 0.0510 | **0.0120** | **0.0092** | 0.0051 | 0.0020 | 0.0060 |
| **0.0120** | **0.0060** | 0.0510 | 0.0510 | 0.0016 | 0.0014 | 0.0051 | 0.0020 | **0.0120** |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0089 |

## Date: 3/5/13; inside faucet — E303293

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| **0.0096** | **0.0037** | 0.0510 | 0.0510 | **0.0150** | **0.0100** | 0.0051 | 0.0020 | 0.0051 |
| 0.0093 | 0.0032 | 0.0510 | 0.0510 | 0.0018 | 0.0019 | 0.0051 | 0.0020 | **0.0120** |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0091 |

## Loc # 5, 42 Harkness Street

**Two largest concentrations** Below quantitation limits

### Date: 1/8/13; outside spigot E301630

Flow rate = pH = 9.66 / 9.79

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0110 | 0.0065 | 0.051 | 0.051 | **0.0470** | **0.0330** | 0.0051 | **0.0036** | 0.0180 |
| #02, 1/2 Liter | 0.0083 | 0.0039 | 0.051 | 0.051 | **0.0690** | **0.0290** | 0.0051 | **0.0034** | 0.0067 |
| #03, 1 Liter | 0.0038 | 0.0023 | 0.051 | 0.051 | 0.0460 | 0.0280 | 0.0051 | 0.0027 | **0.0270** |
| #04, 1 Liter | **0.0220** | **0.0150** | 0.051 | 0.051 | 0.0059 | 0.0046 | 0.0051 | 0.0022 | **0.0190** |
| #05, 1 Liter | **0.0150** | **0.0093** | 0.051 | 0.051 | 0.0021 | 0.0019 | 0.0051 | 0.0020 | 0.0051 |
| #06, 3 min 1 Liter | 0.0019 | 0.0010 | 0.051 | 0.051 | 0.0059 | 0.0043 | 0.0051 | 0.0020 | 0.0051 |

### Date: 1/9/13; outside spigot E301689

Flow rate = 2.20 gpm pH = 9.44 / 9.57

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0150** | 0.0061 | 0.051 | 0.051 | **0.1000** | **0.0300** | 0.0051 | 0.0020 | **0.0150** |
| #02, 1/2 Liter | 0.0067 | 0.0017 | 0.051 | 0.051 | **0.0460** | **0.0240** | 0.0051 | 0.0020 | 0.0051 |
| #03, 1 Liter | **0.0150** | **0.0088** | 0.051 | 0.051 | 0.0140 | 0.0099 | 0.0051 | 0.0020 | **0.0730** |
| #04, 1 Liter | **0.0330** | **0.0190** | 0.051 | 0.051 | 0.0021 | 0.0016 | 0.0051 | 0.0020 | 0.0058 |
| #05, 1 Liter | 0.0047 | 0.0010 | 0.051 | 0.051 | 0.0014 | 0.0012 | 0.0051 | **0.0041** | 0.0051 |
| #06, 3 min 1 Liter | 0.0017 | 0.0010 | 0.051 | 0.051 | 0.0031 | 0.0019 | 0.0051 | **0.0042** | 0.0062 |

**ATTACHMENT NO. 2**

## Date: 1/23/13; inside faucet — E301G27

Flow rate = 0.99 gpm — pH = 9.43 / 9.40

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0028 | 0.0010 | 0.051 | 0.051 | 0.0099 | 0.0091 | 0.0051 | 0.0020 | **0.0540** |
| #02, 1 Liter | 0.0026 | 0.0012 | 0.051 | 0.051 | 0.0130 | 0.0094 | 0.0051 | 0.0020 | **0.0560** |
| #03, 1 Liter | 0.0029 | 0.0017 | 0.051 | 0.051 | **0.0200** | **0.0160** | 0.0051 | 0.0020 | 0.0160 |
| #04, 1 Liter | 0.0084 | 0.0026 | 0.051 | 0.051 | **0.0150** | **0.0100** | 0.0051 | 0.0020 | 0.0480 |
| #05, 1 Liter | **0.0280** | **0.0170** | 0.051 | 0.051 | 0.0034 | 0.0028 | 0.0051 | 0.0020 | 0.0160 |
| #06, 1 Liter | **0.0096** | **0.0028** | **0.055** | 0.051 | 0.0018 | 0.0015 | 0.0051 | **0.0026** | 0.0051 |
| #07, 3 min 1 Liter | 0.0010 | 0.0010 | **0.064** | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0029** | 0.0051 |

## Date: 1/25/13; outside spigot — E301G94

Flow rate = 3.31 gpm — pH = 9.37 / 9.63

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0360** | **0.0100** | **0.120** | 0.051 | **0.0230** | **0.0110** | 0.0051 | 0.0023 | **0.0910** |
| #02, 1 Liter | **0.0220** | **0.0074** | **0.094** | 0.051 | **0.0046** | 0.0024 | 0.0051 | 0.0030 | 0.0051 |
| #03, 1 Liter | 0.0013 | 0.0010 | 0.065 | 0.051 | 0.0027 | **0.0025** | 0.0051 | **0.0032** | 0.0051 |
| #04, 1 Liter | 0.0011 | 0.0010 | 0.064 | 0.051 | 0.0020 | 0.0012 | 0.0051 | **0.0031** | 0.0051 |
| #05, 3 min 1 Liter | 0.0010 | 0.0010 | 0.058 | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0031** | 0.0051 |

**ATTACHMENT NO. 2**

## Date: 1/30/13; outside spigot — E301J95

Flow rate = 2.95 gpm — pH = 9.25 / 9.61

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0150** | 0.0023 | **0.0520** | 0.0510 | **0.0940** | **0.0300** | 0.0051 | 0.0020 | 0.0092 |
| #02, 1 Liter | 0.0120 | **0.0059** | 0.0510 | 0.0510 | **0.0460** | **0.0200** | 0.0051 | 0.0020 | **0.0780** |
| #03, 1 Liter | **0.0300** | **0.0160** | 0.0510 | 0.0510 | 0.0033 | 0.0028 | 0.0051 | 0.0020 | **0.0160** |
| #04, 1 Liter | 0.0057 | 0.0010 | 0.0510 | 0.0510 | 0.0022 | 0.0027 | 0.0051 | 0.0020 | 0.0110 |
| #05, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0014 | 0.0051 | 0.0020 | 0.0130 |

## Date: 2/13/13; inside spigot — E302845

Flow rate = 1.00 gpm — pH = 9.49 / 9.48

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0021 | 0.001 | 0.051 | 0.051 | **0.011** | **0.0072** | 0.0051 | 0.002 | **0.055** |
| #02, 1 Liter | **0.02** | **0.0087** | 0.051 | 0.051 | 0.0072 | 0.004 | 0.0051 | 0.002 | 0.046 |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.051 | 0.051 | 0.002 | 0.0012 | 0.0051 | 0.002 | 0.011 |

## Date: 2/15/13; outside spigot — E302A02

Flow rate = 2.51 gpm — pH = 9.56 / 9.70

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.016 | 0.0021 | 0.051 | 0.051 | **0.75** | **0.038** | 0.0051 | 0.002 | 0.01 |
| #02, 1 Liter | **0.024** | **0.014** | 0.051 | 0.051 | 0.0093 | 0.0059 | 0.0051 | 0.002 | **0.041** |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.0091 |

**ATTACHMENT NO. 2**

## Date: 2/22/13; outside spigot — E302F63

Flow rate = 3.06 gpm — pH = 9.59 / 9.86

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0100 | 0.0030 | 0.0510 | 0.0510 | **0.1300** | **0.0520** | 0.0051 | 0.0020 | 0.0088 |
| #02, 1 Liter | **0.0240** | **0.0140** | 0.0510 | 0.0510 | 0.0069 | 0.0038 | 0.0051 | **0.0046** | **0.0590** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0011 | 0.0051 | 0.0020 | 0.0092 |

## Date: 2/27/13; outside spigot — E302I27

ATP = 95 ME/mL — Flow rate = 3.01 gpm — pH = 9.67 / 9.87

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0036 | 0.0010 | 0.0510 | 0.0510 | **0.0830** | **0.0260** | 0.0051 | 0.0020 | 0.0063 |
| **0.0240** | **0.0130** | 0.0510 | 0.0510 | 0.0030 | 0.0020 | 0.0051 | 0.0020 | **0.0140** |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0030** | 0.0097 |

## Date: 3/1/13; inside spigot — E303080

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0016 | 0.0010 | 0.0510 | **0.0081** | **0.0059** | 0.0510 | 0.0051 | 0.0020 | **0.0640** |
| **0.0190** | **0.0130** | 0.0510 | 0.0079 | 0.0040 | 0.0510 | 0.0051 | 0.0020 | 0.0510 |
| 0.0010 | 0.0010 | 0.0510 | 0.0023 | 0.0011 | 0.0510 | 0.0051 | 0.0020 | 0.0099 |

**ATTACHMENT NO. 2**

## Date: 3/6/13; outside spigot — E303459

ATP = 345 ME/mL  Flow rate = 3.73 gpm  pH = 9.72 / 9.87

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0170 | 0.0013 | **0.0680** | 0.0510 | **0.0960** | **0.0240** | 0.0051 | 0.0020 | 0.0110 |
| **0.0240** | **0.0140** | 0.0510 | 0.0510 | 0.0058 | 0.0045 | 0.0051 | 0.0020 | **0.0160** |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0100 |

## Date: 3/8/13; inside spigot — E303639

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0016 | 0.0010 | 0.0510 | 0.0510 | **0.0073** | **0.0056** | 0.0051 | 0.0020 | **0.0610** |
| **0.0180** | **0.0120** | 0.0510 | 0.0510 | 0.0041 | 0.0030 | 0.0051 | 0.0020 | 0.0480 |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0100 |

**ATTACHMENT NO. 2**

## Loc #6, 104 Shaw Ave

**Two largest concentrations** Below quantitation limits

### Date: 1/11/13; inside faucet E301808

Flow rate = 1.30 gpm pH = 9.43 / 9.60

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0780** | 0.0042 | 0.16 | 0.051 | **0.3200** | 0.0160 | 0.0051 | 0.0025 | **3.3000** |
| #02, 1/2 Liter | 0.0085 | 0.0010 | 0.12 | 0.051 | **0.0570** | 0.0190 | 0.0051 | 0.0020 | **0.0900** |
| #03, 1 Liter | 0.0086 | 0.0021 | 0.11 | 0.051 | 0.0550 | **0.0250** | 0.0051 | 0.0020 | 0.0350 |
| #04, 1 Liter | 0.0092 | 0.0023 | 0.11 | 0.051 | 0.0460 | **0.0220** | 0.0051 | 0.0020 | 0.0160 |
| #05, 1 Liter | 0.0250 | 0.0055 | 0.10 | 0.051 | 0.0290 | 0.0130 | 0.0051 | 0.0020 | 0.0150 |
| #06, 1 Liter | 0.0360 | 0.0043 | 0.11 | 0.051 | 0.0140 | 0.0062 | 0.0051 | 0.0020 | 0.0140 |
| #07, 1 Liter | 0.0510 | 0.0087 | 0.11 | 0.051 | 0.0064 | 0.0029 | 0.0051 | 0.0020 | 0.0340 |
| #08, 1 Liter | **0.0580** | **0.0090** | 0.12 | 0.051 | 0.0032 | 0.0017 | 0.0051 | 0.0020 | 0.0210 |
| #09, 1 Liter | **0.0580** | **0.0088** | 0.14 | 0.051 | 0.0034 | 0.0018 | 0.0051 | 0.0020 | 0.0280 |
| #10, 1 Liter | 0.0500 | 0.0065 | 0.20 | 0.051 | 0.0026 | 0.0014 | 0.0051 | 0.0020 | 0.0060 |
| #11, 1 Liter | 0.0310 | 0.0035 | 0.24 | 0.051 | 0.0024 | 0.0022 | 0.0051 | 0.0031 | 0.0220 |
| #12, 1 Liter | 0.0100 | 0.0011 | **0.29** | 0.051 | 0.0021 | 0.0014 | 0.0051 | **0.0042** | 0.0210 |
| #13, 3 min 1 Liter | 0.0026 | 0.0010 | **0.30** | **0.058** | 0.0015 | 0.0010 | 0.0051 | **0.0044** | 0.0240 |

**ATTACHMENT NO. 2**

## Date: 1/17/13; outside spigot — E301C78

Flow rate = 1.80 gpm — pH = 9.61 / 9.78

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #02, 1/2 Liter | 0.0078 | 0.0014 | **0.36** | 0.051 | **0.1000** | **0.0300** | 0.0051 | **0.0033** | 0.0068 |
| #03, 1 Liter | 0.0072 | 0.0032 | 0.18 | **0.062** | **0.0580** | **0.0350** | 0.0051 | 0.0021 | 0.0051 |
| #04, 1 Liter | 0.0072 | 0.0029 | 0.13 | 0.051 | 0.0430 | 0.0250 | 0.0051 | 0.0020 | 0.0051 |
| #05, 1 Liter | 0.0082 | 0.0037 | 0.13 | **0.051** | 0.0470 | 0.0290 | 0.0051 | 0.0020 | 0.0051 |
| #06, 1 Liter | 0.0120 | 0.0014 | 0.12 | 0.051 | 0.0230 | 0.0100 | 0.0051 | 0.0020 | **0.0210** |
| #07, 1 Liter | 0.0450 | 0.0077 | 0.11 | 0.051 | 0.0071 | 0.0036 | 0.0051 | 0.0020 | 0.0051 |
| #08, 1 Liter | 0.0550 | 0.0140 | 0.12 | 0.051 | 0.0036 | 0.0022 | 0.0051 | 0.0020 | 0.0051 |
| #09, 1 Liter | **0.0600** | **0.0190** | 0.12 | 0.051 | 0.0031 | 0.0020 | 0.0051 | 0.0020 | 0.0200 |
| #10, 1 Liter | **0.0570** | **0.0200** | 0.12 | 0.051 | 0.0028 | 0.0019 | 0.0051 | 0.0020 | **0.0240** |
| #11, 1 Liter | 0.0240 | 0.0070 | 0.21 | 0.057 | 0.0025 | 0.0014 | 0.0051 | 0.0030 | 0.0051 |
| #12, 3 min 1 Liter | 0.0024 | 0.0010 | **0.25** | 0.051 | 0.0013 | 0.0010 | 0.0051 | **0.0041** | 0.0051 |

## Date: 1/22/13; outside spigot — E301F56

Flow rate = 1.15 gpm — pH = 9.55 / 9.74

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01 1/2 Liter | **0.1400** | 0.0024 | **1.40** | **0.078** | **0.1400** | **0.0310** | **0.015** | **0.0065** | **0.0470** |
| #02 1 Liter | 0.0100 | 0.0031 | **0.32** | 0.062 | **0.0610** | **0.0260** | 0.0051 | 0.0025 | 0.0220 |
| #03 1 Liter | 0.0059 | 0.0011 | **0.32** | 0.058 | 0.0220 | 0.0077 | 0.0051 | 0.0034 | **0.0260** |
| #04 1 Liter | 0.0046 | 0.0026 | 0.31 | **0.074** | 0.0150 | 0.0066 | 0.0051 | **0.0037** | 0.0200 |
| #05 1 Liter | 0.0049 | 0.0010 | 0.30 | 0.051 | 0.0110 | 0.0037 | 0.0051 | 0.0033 | 0.0051 |
| #06 1 Liter | 0.0130 | 0.0027 | 0.30 | 0.056 | 0.0058 | 0.0025 | 0.0051 | 0.0035 | 0.0240 |
| #07 1 Liter | 0.0240 | **0.0070** | 0.30 | 0.082 | 0.0036 | 0.0023 | 0.0051 | 0.0034 | 0.0200 |
| #08 1 Liter | **0.0260** | 0.0049 | 0.29 | 0.051 | 0.0025 | 0.0017 | 0.0051 | 0.0035 | 0.0150 |
| #09 1 Liter | **0.0260** | **0.0066** | 0.29 | 0.068 | 0.0025 | 0.0020 | 0.0051 | 0.0034 | 0.0180 |
| #10 1 Liter | 0.0210 | 0.0048 | 0.27 | 0.057 | 0.0022 | 0.0017 | 0.0051 | 0.0034 | 0.0051 |
| #11 3 min 1 Liter | 0.0025 | 0.0010 | 0.24 | 0.072 | 0.0014 | 0.0010 | 0.0051 | 0.0033 | 0.0051 |

**ATTACHMENT NO. 2**

## Date: 1/24/13; outside spigot — E301G91

Flow rate = 1.12 gpm — pH = 9.68 / 9.86

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01 1/2 Liter | **0.0900** | 0.0010 | **3.20** | 0.051 | **0.1900** | 0.0087 | 0.005 | **0.0220** | **0.0680** |
| #02 1 Liter | 0.0160 | 0.0031 | **0.47** | **0.086** | **0.0710** | 0.0310 | 0.0051 | **0.0045** | **0.0250** |
| #03 1 Liter | 0.0110 | 0.0039 | 0.18 | 0.063 | 0.0570 | **0.0290** | 0.0051 | 0.0022 | 0.0120 |
| #04 1 Liter | 0.0110 | 0.0056 | 0.17 | **0.074** | 0.0560 | **0.0360** | 0.0051 | 0.0020 | 0.0091 |
| #05 1 Liter | 0.0140 | 0.0061 | 0.15 | 0.058 | 0.0400 | 0.0250 | 0.0051 | 0.0020 | 0.0053 |
| #06 1 Liter | 0.0420 | 0.0080 | 0.14 | 0.051 | 0.0160 | 0.0095 | 0.0051 | 0.0020 | 0.0051 |
| #07 1 Liter | 0.0810 | 0.0160 | 0.14 | 0.051 | 0.0060 | 0.0041 | 0.0051 | 0.0020 | 0.0051 |
| #08 1 Liter | **0.0900** | **0.0210** | 0.14 | 0.051 | 0.0035 | 0.0025 | 0.0051 | 0.0020 | 0.0051 |
| #09 1 Liter | **0.0940** | 0.0140 | 0.14 | 0.051 | 0.0033 | 0.0019 | 0.0051 | 0.0020 | 0.0051 |
| #10 1 Liter | 0.0740 | **0.0260** | 0.16 | 0.051 | 0.0049 | 0.0031 | 0.0051 | 0.0020 | 0.0051 |
| #11 3 min 1 Liter | 0.0026 | 0.0010 | 0.24 | 0.051 | 0.0013 | 0.0011 | 0.0051 | 0.0030 | 0.0051 |

## Date: 1/29/13; outside spigot — E301I73

Flow rate = 1.35 gpm — pH = 9.62 / 9.85

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01 1/2 Liter | 0.0620 | 0.0010 | **1.60** | 0.051 | **0.1400** | 0.0110 | 0.005 | **0.0081** | **0.0260** |
| #02 1 Liter | 0.0450 | 0.0044 | **0.55** | **0.064** | **0.1000** | **0.0300** | 0.0051 | **0.0043** | **0.0260** |
| #03 1 Liter | 0.0170 | 0.0047 | 0.24 | **0.066** | 0.0610 | **0.0370** | 0.0051 | 0.0022 | 0.0140 |
| #04 1 Liter | 0.0240 | 0.0043 | 0.20 | 0.053 | 0.0620 | 0.0270 | 0.0051 | 0.0021 | 0.0160 |
| #05 1 Liter | 0.0220 | 0.0049 | 0.16 | 0.051 | 0.0420 | 0.0160 | 0.0051 | 0.0020 | 0.0130 |
| #06 1 Liter | 0.0510 | 0.0100 | 0.15 | 0.051 | 0.0150 | 0.0056 | 0.0051 | 0.0021 | 0.0120 |
| #07 1 Liter | 0.0770 | 0.0150 | 0.12 | 0.051 | 0.0049 | 0.0021 | 0.0051 | 0.0020 | 0.0150 |
| #08 1 Liter | **0.0850** | **0.0180** | 0.13 | 0.051 | 0.0033 | 0.0020 | 0.0051 | 0.0020 | 0.0095 |
| #09 1 Liter | **0.0860** | **0.0160** | 0.13 | 0.051 | 0.0033 | 0.0019 | 0.0051 | 0.0020 | 0.0090 |
| #10 1 Liter | 0.0590 | 0.0120 | 0.18 | 0.051 | 0.0028 | 0.0015 | 0.0051 | 0.0026 | 0.0100 |
| #11 3 min 1 Liter | 0.0025 | 0.0010 | 0.29 | 0.056 | 0.0013 | 0.0010 | 0.0051 | 0.0046 | 0.0085 |

**ATTACHMENT NO. 2**

## Date: 2/14/13; inside faucet — E302954

Flow rate = 1.24 gpm — pH = 9.60 / 9.70

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0089 | 0.001 | 0.12 | 0.051 | **0.059** | **0.017** | 0.0051 | 0.002 | 0.0051 |
| #02, 1 Liter | **0.045** | **0.0043** | 0.11 | 0.051 | 0.003 | 0.0029 | 0.0051 | 0.002 | **0.01** |
| #03, 3 min 1 Liter | 0.0023 | 0.001 | **0.23** | **0.053** | 0.0015 | 0.001 | 0.0051 | **0.0039** | 0.0091 |

## Date: 2/15/13; outside spigot — E302999

Flow rate = 1.15 gpm — pH = 9.60 / 9.72

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0180 | 0.0012 | **1.5000** | 0.0510 | **0.1200** | **0.0220** | 0.0050 | **0.0056** | **0.0150** |
| #02, 1 Liter | **0.0560** | **0.0110** | 0.1200 | 0.0510 | 0.0053 | 0.0030 | 0.0051 | 0.0020 | 0.0120 |
| #03, 3 min 1 Liter | 0.0021 | 0.0010 | 0.2700 | 0.0510 | 0.0013 | 0.0012 | 0.0051 | 0.0033 | 0.0087 |

## Date: 2/19/13; outside spigot — E302C08

Flow rate = 1.08 gpm — pH = 9.67 / 9.78

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.015 | 0.0028 | **0.71** | **0.057** | **0.13** | **0.032** | 0.005 | **0.0031** | 0.0062 |
| #02, 1 Liter | **0.039** | **0.01** | 0.091 | 0.051 | 0.0046 | 0.0025 | 0.0051 | 0.002 | **0.0091** |
| #03, 3 min 1 Liter | 0.003 | 0.001 | 0.24 | 0.056 | 0.002 | 0.001 | 0.0051 | **0.0031** | 0.0085 |

**ATTACHMENT NO. 2**

## Date: 2/22/13; inside faucet — E302F61

Flow rate = 1.24 gpm — pH = 9.60 / 9.70

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0100 | **0.0038** | 0.0930 | 0.0510 | **0.0470** | **0.0260** | 0.0051 | 0.0020 | 0.0051 |
| #02, 1 Liter | **0.0280** | 0.0035 | 0.1600 | 0.0510 | 0.0026 | 0.0012 | 0.0051 | 0.0024 | **0.0110** |
| #03, 3 min 1 Liter | 0.0021 | 0.0010 | **0.2400** | **0.0580** | 0.0014 | 0.0010 | 0.0051 | **0.0036** | 0.0100 |

## Date: 2/25/13; outside spigot — E302G21

Flow rate = 1.03 gpm — pH = 9.79 / 9.95

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0081 | 0.0010 | **0.7000** | 0.0510 | **0.1100** | **0.0170** | 0.0050 | **0.0028** | 0.0070 |
| **0.0240** | **0.0022** | 0.1200 | 0.0510 | 0.0044 | 0.0028 | 0.0051 | 0.0020 | **0.0095** |
| 0.0019 | 0.0019 | 0.1500 | **0.0580** | 0.0013 | 0.0015 | 0.0051 | 0.0025 | 0.0092 |

## Date: 2/28/13; inside faucet — E303078

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0160 | 0.0026 | **0.0970** | 0.0510 | **0.0380** | **0.0150** | 0.0051 | 0.0020 | 0.0051 |
| **0.0340** | **0.0110** | 0.0910 | 0.0510 | 0.0030 | 0.0020 | 0.0051 | 0.0020 | **0.0110** |
| 0.0022 | 0.0010 | 0.1400 | 0.0510 | 0.0014 | 0.0010 | 0.0051 | **0.0021** | 0.0100 |

**ATTACHMENT NO. 2**

## Date: 3/4/13; inside faucet — E303184

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0066 | 0.0030 | 0.0840 | 0.0510 | **0.0440** | **0.0270** | 0.0051 | 0.0020 | 0.0066 |
| **0.0480** | **0.0190** | 0.0780 | 0.0510 | 0.0032 | 0.0023 | 0.0051 | 0.0020 | **0.0120** |
| 0.0023 | 0.0010 | **0.2300** | 0.0510 | 0.0015 | 0.0010 | 0.0051 | **0.0033** | 0.0100 |

## Date: 3/6/13; outside spigot — E303460

ATP = 437 ME/mL  Flow rate = 1.31 gpm  pH = 9.83 / 9.96

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0079 | 0.0010 | **1.3000** | 0.0510 | **0.1400** | **0.0180** | 0.0050 | **0.0043** | **0.0240** |
| **0.0140** | **0.0029** | 0.1600 | 0.0510 | 0.0028 | 0.0019 | 0.0051 | 0.0025 | 0.0110 |
| 0.0020 | 0.0010 | 0.2200 | 0.0510 | 0.0012 | 0.0010 | 0.0051 | 0.0033 | 0.0097 |

**ATTACHMENT NO. 2**

## Loc #7, 183 Laurel Hill Ave

**Two largest concentrations** Below quantitation limits

### Date: 1/15/13: inside faucet E301A41

Flow rate = 1.24 gpm pH = 9.29 / 9.33

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #02, 1/2 Liter | 0.0068 | 0.0010 | **0.097** | 0.051 | **0.0400** | **0.0160** | 0.0051 | **0.0030** | 0.0085 |
| #03, 1 Liter | 0.0042 | 0.0010 | **0.095** | 0.051 | 0.0280 | 0.0150 | 0.0051 | **0.0028** | 0.0200 |
| #04, 1 Liter | 0.0044 | 0.0011 | 0.092 | 0.051 | **0.0310** | **0.0160** | 0.0051 | **0.0028** | 0.0210 |
| #05, 1 Liter | 0.0054 | 0.0013 | 0.090 | 0.051 | 0.0300 | 0.0140 | 0.0051 | 0.0027 | 0.0220 |
| #06, 1 Liter | 0.0078 | 0.0019 | **0.095** | 0.051 | 0.0190 | 0.0098 | 0.0051 | 0.0027 | **0.0370** |
| #07, 1 Liter | **0.0370** | 0.0044 | 0.092 | 0.051 | 0.0060 | 0.0035 | 0.0051 | 0.0023 | **0.0300** |
| #08, 1 Liter | **0.0480** | **0.0097** | 0.090 | 0.051 | 0.0028 | 0.0019 | 0.0051 | 0.0024 | 0.0180 |
| #09, 1 Liter | 0.0200 | **0.0064** | 0.058 | 0.051 | 0.0021 | 0.0020 | 0.0051 | 0.0020 | 0.0180 |
| #10, 3 min 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0013 | 0.0021 | 0.0051 | 0.0020 | 0.0180 |

### Date: 1/18/13; outside spigot E301D06

Flow rate = 1.49 gpm pH = 9.59 / 9.72

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0030 | 0.0010 | 0.051 | 0.051 | **0.0300** | **0.0200** | 0.0051 | 0.0020 | 0.0069 |
| #02, 1 Liter | 0.0034 | 0.0030 | 0.051 | 0.051 | **0.0310** | **0.0220** | 0.0051 | 0.0020 | 0.0051 |
| #03, 1 Liter | 0.0051 | 0.0029 | 0.051 | 0.051 | **0.0300** | 0.0180 | 0.0051 | 0.0020 | **0.0340** |
| #04, 1 Liter | 0.0096 | 0.0052 | 0.051 | 0.051 | 0.0200 | 0.0120 | 0.0051 | 0.0020 | **0.0420** |
| #05, 1 Liter | **0.0280** | **0.0160** | 0.051 | 0.051 | 0.0044 | 0.0040 | 0.0051 | 0.0020 | 0.0290 |
| #06, 1 Liter | **0.0330** | **0.0150** | 0.051 | 0.051 | 0.0020 | 0.0019 | 0.0051 | 0.0020 | 0.0220 |
| #07, 1 Liter | 0.0100 | 0.0037 | 0.051 | 0.051 | 0.0015 | 0.0014 | 0.0051 | 0.0020 | 0.0170 |
| #08, 3 min 1 Liter | 0.0012 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0190 |

**ATTACHMENT NO. 2**

## Date: 1/24/13; outside spigot E301G89

Flow rate = 1.56 gpm pH = 9.61 / 9.70

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0120 | 0.0033 | 0.051 | 0.051 | **0.0360** | **0.0180** | 0.0051 | 0.0020 | **0.0460** |
| #02, 1 Liter | 0.0054 | 0.0030 | 0.051 | 0.051 | **0.0230** | **0.0180** | 0.0051 | 0.0020 | **0.0210** |
| #03, 1 Liter | 0.0110 | 0.0067 | 0.051 | 0.051 | 0.0110 | 0.0085 | 0.0051 | 0.0020 | 0.0150 |
| #04, 1 Liter | **0.0200** | **0.0130** | 0.051 | 0.051 | 0.0040 | 0.0034 | 0.0051 | 0.0020 | 0.0051 |
| #05, 1 Liter | **0.0150** | **0.0079** | 0.051 | 0.051 | 0.0019 | 0.0019 | 0.0051 | 0.0020 | 0.0051 |
| #06, 1 Liter | 0.0056 | 0.0014 | 0.051 | 0.051 | 0.0012 | 0.0014 | 0.0051 | 0.0020 | 0.0051 |
| #07, 1 Liter | 0.0024 | 0.0010 | 0.051 | 0.051 | 0.0016 | 0.0015 | 0.0051 | 0.0020 | 0.0051 |
| #08, 3 min 1 Liter | 0.0011 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0014 | 0.0051 | 0.0020 | 0.0051 |

## Date: 1/25/13; outside spigot E301H00

Flow rate = 2.82 gpm pH = 9.78 / 9.97

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0068 | 0.0013 | 0.055 | 0.051 | **0.0550** | **0.0260** | 0.0051 | 0.0020 | **0.0420** |
| #02, 1 Liter | 0.0057 | 0.0025 | 0.051 | 0.051 | **0.0320** | **0.0230** | 0.0051 | 0.0020 | 0.0160 |
| #03, 1 Liter | 0.0190 | **0.0088** | 0.051 | 0.051 | 0.0190 | 0.0120 | 0.0051 | 0.0020 | **0.0200** |
| #04, 1 Liter | **0.0370** | **0.0160** | 0.051 | 0.051 | 0.0050 | 0.0037 | 0.0051 | 0.0020 | 0.0120 |
| #05, 1 Liter | **0.0280** | 0.0079 | 0.051 | 0.051 | 0.0019 | 0.0017 | 0.0051 | 0.0020 | 0.0051 |
| #06, 1 Liter | 0.0100 | 0.0023 | 0.051 | 0.051 | 0.0014 | 0.0012 | 0.0051 | 0.0020 | 0.0051 |
| #07, 1 Liter | 0.0018 | 0.0010 | 0.051 | 0.051 | 0.0012 | 0.0010 | 0.0051 | 0.0020 | 0.0051 |
| #08, 3 min 1 Liter | 0.0011 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0011 | 0.0051 | 0.0020 | 0.0051 |

## Date: 1/30/13; outside spigot E301J96

Flow rate = 2.38 gpm pH = 9.58 / 9.68

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0031 | 0.0010 | 0.051 | 0.051 | **0.0370** | **0.0220** | 0.0051 | 0.0020 | 0.0092 |
| #02, 1 Liter | 0.0035 | 0.0015 | 0.051 | 0.051 | **0.0380** | **0.0200** | 0.0051 | 0.0020 | 0.0140 |
| #03, 1 Liter | 0.0043 | 0.0017 | 0.051 | 0.051 | 0.0320 | 0.0180 | 0.0051 | 0.0020 | 0.0140 |
| #04, 1 Liter | 0.0070 | 0.0030 | 0.051 | 0.051 | 0.0200 | 0.0120 | 0.0051 | 0.0020 | **0.0450** |
| #05, 1 Liter | **0.0300** | **0.0130** | 0.051 | 0.051 | 0.0035 | 0.0026 | 0.0051 | 0.0020 | **0.0190** |
| #06, 1 Liter | **0.0330** | **0.0130** | 0.051 | 0.051 | 0.0020 | 0.0031 | 0.0051 | 0.0020 | 0.0110 |
| #07, 1 Liter | 0.0057 | 0.0013 | 0.051 | 0.051 | 0.0013 | 0.0014 | 0.0051 | 0.0020 | 0.0110 |
| #08, 3 min 1 Liter | 0.0010 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0099 |

## Date: 2/11/13; inside faucet E302596

Flow rate = 1.22 gpm pH = 9.43 / 9.51

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0095 | 0.0043 | 0.051 | 0.051 | **0.03** | **0.02** | 0.0051 | 0.002 | 0.007 |
| #02, 1 Liter | **0.03** | **0.014** | 0.051 | 0.051 | 0.0043 | 0.0031 | 0.0051 | 0.002 | **0.018** |
| #03, 3 min 1 Liter | 0.0011 | 0.001 | 0.051 | 0.051 | 0.0012 | 0.0011 | 0.0051 | 0.002 | 0.0089 |

## Date: 2/12/13; outside spigot E302693

Flow rate = 2.26 gpm pH = 9.54 / 9.60

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0032 | 0.001 | 0.051 | 0.051 | **0.05** | **0.025** | 0.0051 | 0.002 | 0.012 |
| #02, 1 Liter | **0.027** | **0.01** | 0.051 | 0.051 | 0.0039 | 0.0032 | 0.0051 | 0.002 | **0.016** |
| #03, 3 min 1 Liter | 0.001 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.0094 |

**ATTACHMENT NO. 2**

## Date: 2/18/13; inside faucet E302A73

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0036 | 0.0020 | 0.0510 | 0.0510 | **0.0380** | **0.0260** | 0.0051 | 0.0020 | 0.0053 |
| #02, 1 Liter | **0.0320** | **0.0130** | 0.0510 | 0.0510 | 0.0047 | 0.0039 | 0.0051 | 0.0020 | **0.0220** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0012 | 0.0010 | 0.0051 | 0.0020 | 0.0093 |

## Date: 2/20/13; outside spigot E302D42

Flow rate = 2.26 gpm pH = 9.69 / 9.81

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0041 | 0.0010 | 0.0510 | 0.0510 | **0.0350** | **0.0190** | 0.0051 | 0.0020 | 0.0110 |
| #02, 1 Liter | **0.0230** | **0.0098** | 0.0510 | 0.0510 | 0.0024 | 0.0018 | 0.0051 | 0.0020 | **0.0190** |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0022** | 0.0110 |

## Date: 2/25/13; inside faucet E302G20

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0032 | 0.0018 | 0.0510 | **0.0430** | **0.0340** | 0.0510 | 0.0051 | 0.0020 | 0.0063 |
| **0.0160** | **0.0097** | 0.0510 | 0.0093 | 0.0080 | 0.0510 | 0.0051 | 0.0020 | **0.0250** |
| 0.0010 | 0.0010 | 0.0510 | 0.0011 | 0.0010 | **0.0540** | 0.0051 | **0.0022** | 0.0100 |

## Date: 2/26/13; outside spigot E302H05

Flow rate = 2.26 gpm pH = 9.81 / 9.90

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0026 | 0.0010 | 0.0510 | 0.0510 | **0.0360** | **0.0200** | 0.0051 | 0.0020 | **0.0200** |
| **0.0260** | **0.0110** | 0.0510 | 0.0510 | 0.0035 | 0.0026 | 0.0051 | 0.0020 | 0.0099 |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0093 |

## Date: 3/4/13; inside faucet E303186

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0040 | 0.0018 | 0.0510 | 0.0510 | **0.0320** | **0.0190** | 0.0051 | 0.0020 | 0.0076 |
| **0.0200** | **0.0089** | 0.0510 | 0.0510 | 0.0048 | 0.0034 | 0.0051 | 0.0020 | **0.0180** |
| 0.0011 | 0.0010 | 0.0510 | 0.0510 | 0.0012 | 0.0010 | 0.0051 | 0.0020 | 0.0099 |

## Date: 3/5/13; outside spigot E303292

ATP = 475 ME/mL Flow rate = 2.54 gpm pH = 9.96 / 10.03

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0036 | 0.0016 | 0.0510 | 0.0510 | **0.0510** | **0.0300** | 0.0051 | 0.0020 | **0.0190** |
| **0.0180** | **0.0110** | 0.0510 | 0.0510 | 0.0055 | 0.0048 | 0.0051 | 0.0020 | 0.0170 |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0096 |

## Loc #8, 70 Sandringham Ave

**Two largest concentrations** Below quantitation limits

### Date: 1/10/13; inside faucet — E301688

Flow rate = 1.49 gpm pH = 9.33 / 9.53

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0110 | 0.0011 | **0.230** | 0.051 | **0.0780** | **0.0140** | 0.0051 | **0.0089** | **0.0730** |
| #02, 1/2 Liter | 0.0073 | 0.0010 | **0.160** | 0.051 | 0.0095 | 0.0045 | 0.0051 | 0.0056 | 0.0710 |
| #03, 1 Liter | 0.0086 | 0.0014 | 0.140 | 0.051 | **0.0130** | **0.0063** | 0.0051 | 0.0050 | **0.1000** |
| #04, 1 Liter | 0.0100 | 0.0014 | 0.150 | 0.051 | 0.0098 | 0.0047 | 0.0051 | **0.0058** | 0.0660 |
| #05, 1 Liter | 0.0310 | 0.0060 | 0.120 | 0.051 | 0.0041 | 0.0025 | 0.0051 | 0.0041 | 0.0150 |
| #06, 1 Liter | **0.0600** | **0.0077** | 0.140 | 0.051 | 0.0015 | 0.0010 | 0.0051 | 0.0045 | 0.0055 |
| #07, 1 Liter | **0.0480** | **0.0073** | 0.150 | 0.051 | 0.0028 | 0.0029 | 0.0051 | 0.0050 | 0.0051 |
| #08, 1 Liter | 0.0260 | 0.0030 | 0.170 | 0.051 | 0.0020 | 0.0011 | 0.0051 | 0.0057 | 0.0059 |
| #09, 3 min 1 Liter | 0.0082 | 0.0010 | 0.083 | 0.051 | 0.0450 | 0.0019 | 0.0051 | 0.0028 | 0.0580 |

### Date: 1/11/13; outside spigot — E301807

Flow rate = 1.74 gpm pH = 9.62 / 9.73

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | **0.0430** | 0.0059 | **0.150** | 0.051 | **0.1500** | **0.0390** | **0.0052** | **0.0043** | **0.7800** |
| #02, 1/2 Liter | 0.0099 | 0.0026 | 0.051 | 0.051 | **0.0120** | **0.0074** | 0.0051 | 0.0020 | **0.0390** |
| #03, 1 Liter | 0.0390 | **0.0170** | 0.051 | 0.051 | 0.0038 | 0.0024 | 0.0051 | 0.0020 | 0.0270 |
| #04, 1 Liter | **0.0460** | **0.0230** | 0.051 | 0.051 | 0.0020 | 0.0016 | 0.0051 | 0.0020 | 0.0190 |
| #05, 1 Liter | 0.0310 | 0.0110 | 0.051 | 0.051 | 0.0023 | 0.0017 | 0.0051 | 0.0020 | 0.0210 |
| #06, 1 Liter | 0.0093 | 0.0016 | **0.070** | 0.051 | 0.0016 | 0.0010 | 0.0051 | 0.0027 | 0.0190 |
| #07, 3 min 1 Liter | 0.0016 | 0.0010 | 0.062 | 0.051 | 0.0010 | 0.0010 | 0.0051 | **0.0032** | 0.0051 |

**ATTACHMENT NO. 2**

## Date: 1/15/13; outside spigot — E301A48

Flow rate = 1.54 gpm  pH = 9.48 / 9.60

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0140 | 0.0071 | **0.056** | 0.051 | **0.0660** | **0.0420** | 0.0051 | **0.0026** | **0.0380** |
| #02, 1/2 Liter | 0.0083 | 0.0016 | **0.056** | 0.051 | **0.0120** | **0.0079** | 0.0051 | **0.0021** | **0.0550** |
| #03, 1 Liter | 0.0270 | **0.0130** | 0.051 | 0.051 | 0.0036 | 0.0033 | 0.0051 | 0.0020 | 0.0210 |
| #04, 1 Liter | **0.0420** | **0.0240** | 0.051 | 0.051 | 0.0012 | 0.0012 | 0.0051 | 0.0020 | 0.0260 |
| #05, 1 Liter | **0.0300** | **0.0130** | 0.051 | 0.051 | 0.0020 | 0.0016 | 0.0051 | 0.0020 | 0.0180 |
| #06, 1 Liter | 0.0120 | 0.0041 | 0.051 | 0.051 | 0.0012 | 0.0010 | 0.0051 | 0.0020 | 0.0170 |
| #07, 3 min 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0150 |

## Date: 1/17/13; outside spigot — E301C74

Flow rate = 1.69 gpm  pH = 9.63 / 9.80

| | **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #02, 1/2 Liter | 0.0089 | 0.0012 | **0.063** | 0.051 | **0.0120** | **0.0075** | 0.0051 | **0.0037** | **0.0470** |
| #03, 1 Liter | 0.0270 | 0.0140 | 0.051 | 0.051 | **0.0040** | **0.0039** | 0.0051 | 0.0020 | **0.0290** |
| #04, 1 Liter | **0.0420** | **0.0250** | 0.051 | 0.051 | 0.0014 | 0.0013 | 0.0051 | 0.0020 | 0.0051 |
| #05, 1 Liter | **0.0300** | **0.0150** | 0.051 | 0.051 | 0.0017 | 0.0015 | 0.0051 | 0.0020 | 0.0051 |
| #06, 1 Liter | 0.0100 | 0.0052 | 0.051 | 0.051 | 0.0011 | 0.0013 | 0.0051 | 0.0020 | 0.0170 |
| #07, 3 min1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0160 |

## Date: 1/18/13; outside spigot — E301D08

Flow rate = 1.86 gpm  pH = 9.60 / 9.82

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0088 | 0.0028 | 0.051 | 0.051 | **0.0140** | **0.0066** | 0.0051 | 0.0020 | **0.0400** |
| #02, 1 Liter | **0.0330** | **0.0200** | 0.051 | 0.051 | **0.0036** | **0.0024** | 0.0051 | 0.0020 | **0.0280** |
| #03, 1 Liter | **0.0400** | **0.0230** | 0.051 | 0.051 | 0.0019 | 0.0015 | 0.0051 | 0.0020 | 0.0051 |
| #04, 1 Liter | 0.0260 | 0.0100 | 0.051 | 0.051 | 0.0018 | 0.0014 | 0.0051 | 0.0020 | 0.0051 |
| #05, 1 Liter | 0.0067 | 0.0029 | 0.051 | 0.051 | 0.0012 | 0.0011 | 0.0051 | 0.0020 | 0.0210 |
| #06, 3 min 1 Liter | 0.0013 | 0.0010 | 0.051 | 0.051 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0200 |

## Date: 2/12/13; inside spigot — E302846

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0072 | 0.0015 | **0.056** | 0.051 | **0.01** | **0.0059** | 0.0051 | 0.002 | **0.075** |
| #02, 1 Liter | **0.047** | **0.016** | 0.051 | 0.051 | 0.0052 | 0.0028 | 0.0051 | 0.002 | 0.016 |
| #03, 3 min 1 Liter | 0.0013 | 0.001 | 0.051 | 0.051 | 0.0023 | 0.001 | 0.0051 | 0.002 | 0.011 |
| #04, 3 min 1 Liter | 0.0011 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.012 |

## Date: 2/13/13; outside spigot — E302846

Flow rate = 2.24 gpm  pH = 9.69 / 9.78

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.034 | 0.003 | **0.077** | 0.051 | **0.025** | **0.022** | 0.0051 | 0.002 | **0.24** |
| #02, 1 Liter | **0.043** | **0.019** | 0.051 | 0.051 | 0.002 | 0.0015 | 0.0051 | 0.002 | 0.014 |
| #03, 3 min 1 Liter | 0.0011 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.0084 |
| #04, 3 min 1 Liter | 0.0011 | 0.001 | 0.051 | 0.051 | 0.001 | 0.001 | 0.0051 | 0.002 | 0.009 |

**ATTACHMENT NO. 2**

## Date: 2/21/13; inside spigot — E302E19

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0044 | 0.0010 | **0.0560** | 0.0510 | **0.0088** | **0.0052** | 0.0051 | 0.0020 | **0.0530** |
| #02, 1 Liter | **0.0310** | **0.0087** | 0.0520 | 0.0510 | 0.0066 | 0.0022 | 0.0051 | 0.0020 | 0.0210 |
| #03, 3 min 1 Liter | 0.0012 | 0.0010 | 0.0550 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0028 | 0.0110 |
| #04, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0520 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | **0.0029** | 0.0110 |

## Date: 2/20/13; outside spigot — E302E22

Flow rate = 2.26 gpm  pH = 9.79 / 9.86

| | ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|---|
| #01, 1/2 Liter | 0.0140 | 0.0010 | **0.0900** | 0.0510 | **0.0220** | **0.0066** | 0.0051 | 0.0020 | **0.0880** |
| #02, 1 Liter | **0.0440** | **0.0130** | 0.0510 | 0.0510 | 0.0014 | 0.0013 | 0.0051 | 0.0020 | 0.0110 |
| #03, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0110 |
| #04, 3 min 1 Liter | 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0100 |

## Date: 2/27/13; inside spigot — E302I58

| ppm Lead | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0048 | 0.0016 | 0.0510 | 0.0510 | **0.0100** | **0.0057** | 0.0051 | 0.0020 | **0.0800** |
| **0.0320** | **0.0150** | 0.0510 | 0.0510 | 0.0022 | 0.0014 | 0.0051 | 0.0020 | 0.0140 |
| 0.0011 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0140 |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0099 |

**ATTACHMENT NO. 2**

## Date: 2/28/13; outside spigot — E303077

ATP = 96 ME/mL | Flow rate = 1.04 gpm | pH = 9.71 / 9.85

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0065 | 0.0014 | 0.0510 | 0.0510 | **0.0110** | **0.0068** | 0.0051 | 0.0020 | **0.0440** |
| **0.0350** | **0.0150** | 0.0510 | 0.0510 | 0.0014 | 0.0011 | 0.0051 | 0.0020 | 0.0100 |
| 0.0012 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0093 |
| 0.0011 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0086 |

## Date: 3/5/13; outside spigot — E303456

ATP = 214 ME/mL | Flow rate = 1.87 gpm | pH = 9.85 / 10.02

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0099 | 0.0023 | **0.0580** | 0.0510 | **0.0210** | **0.0110** | 0.0051 | 0.0020 | 0.0970 |
| **0.0390** | **0.0180** | 0.0510 | 0.0510 | 0.0017 | 0.0012 | 0.0051 | 0.0020 | **0.1900** |
| 0.0011 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0087 |
| 0.0010 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0090 |

## Date: 3/6/13; outside spigot — E303458

| **ppm Lead** | ppm Diss Lead | ppm Iron | ppm Diss Iron | ppm Copper | ppm Diss Copper | ppm Tin | ppm Manganese | ppm Zinc |
|---|---|---|---|---|---|---|---|---|
| 0.0029 | 0.0010 | 0.0510 | 0.0510 | **0.0073** | **0.0056** | 0.0051 | 0.0020 | **0.0520** |
| **0.0230** | **0.0140** | 0.0510 | 0.0510 | 0.0038 | 0.0019 | 0.0051 | 0.0020 | 0.0140 |
| 0.0012 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0096 |
| 0.0011 | 0.0010 | 0.0510 | 0.0510 | 0.0010 | 0.0010 | 0.0051 | 0.0020 | 0.0100 |