# East Chicago

All Sites

(Updated 01-22-2017)

# Zone 2 Summary (Lead)

| Zone 2 Sites (8 sites) | | | Results above 15 µg/L | |
|---|---|---|---|---|
| **Site ID** | **Service Line** | **Home** | **Pre** | **Post** |
| **2094** | Galv Iron | Unknown | 0 | 10 |
| **2099** | Unknown | Unknown | 1 | 0 |
| **2121*** | Galv Iron | PVC | 0 | 0 |
| **2148** | Galv Iron | Unknown | 0 | 0 |
| **2166*** | Copper | Copper | 0 | 0 |
| **2178** | Galv Iron | Galv Iron | 0 | 0 |
| **2183** | Unknown | Copper & PVC | 0 | 0 |
| **2187*** | Copper | Unknown | 2 | 0 |
| **Zone 2 sites with results above 15µg/L** | | | **2** | **1** |
| ***There is a difference in the number of samples collected pre- and post-excavation.** | | | | |

UPDATED 01/22/2017

# Zone 2 Summary (Total Lead Mass in µg)

| | | Total Lead Mass (µg) | | | |
|---|---|---|---|---|---|
| **Site ID** | **Service Line Material** | **Before Excavation** | **After Excavation** | **Difference** | |
| **2094** | Galv Fe | 47 | 955 | +908 | Higher |
| **2099** | Unknown | 48 | 53 | +4 | Higher |
| **2121*** | Galv Fe | 35 | 34 | -1 | Lower |
| **2148** | Galv Fe | 10 | 12 | +3 | Higher |
| **2166*** | Copper | 8 | 20 | +12 | Higher |
| **2178** | Galv Fe | 8 | 20 | -13 | Lower |
| **2183** | Unknown | 53 | 43 | -10 | Lower |
| **2187*** | Copper | 107 | 12 | -95 | Lower |
| **The Difference in Total Lead Mass: (Post-excavation total lead mass) - (pre-excavation total lead mass)** | | | | | |
| ***There is a difference in the number of samples collected pre- and post-excavation.** | | | | | |

UPDATED 01/22/2017

# Zone 3 Summary (Lead)

| Zone 3 Sites (35 sites) | | | Results above 15 µg/L | |
|---|---|---|---|---|
| Site ID | Service Line | Home | Pre | Post |
| 3016 | Lead* | Galv Iron | 0 | 0 |
| 3037 | Unknown | Unknown | 0 | 0 |
| 3039 | Unknown | Unknown | 0 | 0 |
| 3066 | Lead | Galv Iron | 10 | 9 |
| 3070 | Galv Iron | Unknown | 0 | 0 |
| 3071 | Lead | Galv Iron | 3 | 4 |
| 3072 | Galv Iron | Galv Iron | 3 | 5 |
| 3074 | Galv Iron | Galv Iron | 0 | 0 |
| 3075 | Lead | Galv Iron | 16 | 5 |
| 3087* | Galv Iron | Galv Iron | 5 | 1 |
| 3088 | Galv Iron | Copper | 3 | 3 |
| 3091* | Galv Iron | Unknown | 13 | 12 |
| 3092 | Galv Iron | Unknown | 0 | 0 |
| 3097 | Lead | Galv Iron & Copper | 3 | 0 |
| 3106 | Unknown | Unknown | 6 | NA |
| 3113 | Galv Iron | Unknown | 0 | NA |
| 3121 | Lead | Unknown | 3 | 1 |
| 3135 | Lead | Galv Iron | 12 | 9 |

| Zone 3 Sites (35 sites) | | | Results above 15 µg/L | |
|---|---|---|---|---|
| Site ID | Service Line | Home | Pre | Post |
| 3206 | Galv Iron | Unknown | 4 | 0 |
| 3224* | Lead | Galv Iron | 6 | 9 |
| 3226 | Galv Iron | Galv Iron | 0 | 0 |
| 3277 | Unknown | Unknown | 1 | 0 |
| 3282 | Galv Iron | Galv Iron | 0 | 0 |
| 3300 | Copper | Galv Iron | 0 | 0 |
| 3301 | Galv Iron | Galv Iron | 0 | 0 |
| 3302* | Galv Iron | Galv Iron | 0 | 0 |
| 3319* | Galv Iron | Galv Iron | 0 | 0 |
| 3332 | Galv Iron | Galv Iron | 6 | 0 |
| 3343 | Unknown | Unknown | 0 | 0 |
| 3368 | Galv Iron | Galv Iron | 0 | 0 |
| 3383 | Galv Iron | Galv Iron | 0 | 0 |
| 3406* | Galv Iron | Unknown | 0 | 0 |
| 3434 | Galv Iron | Galv Iron | 0 | 0 |
| 3437 | Galv Iron | Copper | 0 | 0 |
| 3443* | Lead | Copper | 3 | 7 |

| Zone 3 Sites (35 sites) | Pre | Post |
|---|---|---|
| Zone 3 sites with results above 15 µg/L | 16 | 11** |
| **Post-excavation results are not available for Sites 3106 & 3113 | | |

Results are questionable/being evaluated.

***There is a difference in the number of samples collected pre- and post-excavation.**

**Results have changed from preliminary to final**

UPDATED 01/22/2017 [Yellow highlighted cells indicate new data since last update]

# Zone 3 Summary (Total Lead Mass in µg)

| | | Total Lead Mass (µg) | | | | | | | Total Lead Mass (µg) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Service Line Material | Before Excavation | After Excavation | Difference | | | Site ID | Service Line Material | Before Excavation | After Excavation | Difference | |
| 3016 | Lead | 39 | 16 | -23 | Lower | | 3224* | Lead | 200 | 295 | +95 | Higher |
| 3037 | Unknown | 155 | 95 | -60 | Lower | | 3226 | Galv Fe | 74 | 29 | -45 | Lower |
| 3039 | Unknown | 13 | 9 | -4 | Lower | | 3277 | Unknown | 85 | 58 | -27 | Lower |
| 3066 | Lead | 263 | 226 | -38 | Lower | | 3382 | Galv Fe | 81 | 38 | -43 | Lower |
| 3070 | Galv Fe | 134 | 58 | -76 | Lower | | 3300 | Copper | 32 | 32 | 0 | Same |
| 3071 | Lead | 177 | 158 | -20 | Lower | | 3301 | Galv Fe | 63 | 45 | -18 | Lower |
| 3072 | Galv Fe | 220 | 238 | +18 | Higher | | 3302* | Galv Fe | 19 | 33 | +14 | Higher |
| 3074 | Galv Fe | 45 | 39 | -7 | Lower | | 3319* | Galv Fe | 84 | 98 | +14 | Higher |
| 3075 | Lead | **711** | **234** | **-477** | Lower | | 3332 | Galv Fe | 360 | 56 | -304 | Lower |
| 3087* | Galv Fe | 246 | 187 | -59 | Lower | | 3343 | Unknown | 76 | 18 | -58 | Lower |
| 3088 | Galv Fe | 147 | 119 | -29 | Lower | | 3368 | Galv Fe | 34 | 21 | -13 | Lower |
| 3091* | Galv Fe | 320 | 337 | +17 | Higher | | 3383 | Galv Fe | 115 | 46 | -69 | Lower |
| 3092 | Galv Fe | 42 | 22 | -20 | Lower | | 3406* | Galv Fe | 114 | 25 | -90 | Lower |
| 3097 | Lead | 184 | 66 | -117 | Lower | | 3434 | Galv Fe | 70 | 65 | -6 | Lower |
| 3121 | Lead | 136 | 106 | -31 | Lower | | 3437 | Galv Fe | 37 | 20 | -16 | Lower |
| 3135 | Lead | 383 | 269 | -114 | Lower | | 3443* | Lead | 299 | 288 | -11 | Lower |
| 3206 | Galv Fe | 256 | 63 | -193 | Lower | | | | | | | |

**The Difference in total lead mass is: (Post-excavation total lead mass) - (pre-excavation total lead mass).**

**Post-excavation results from sites 3106 and 3135 are not currently available.**

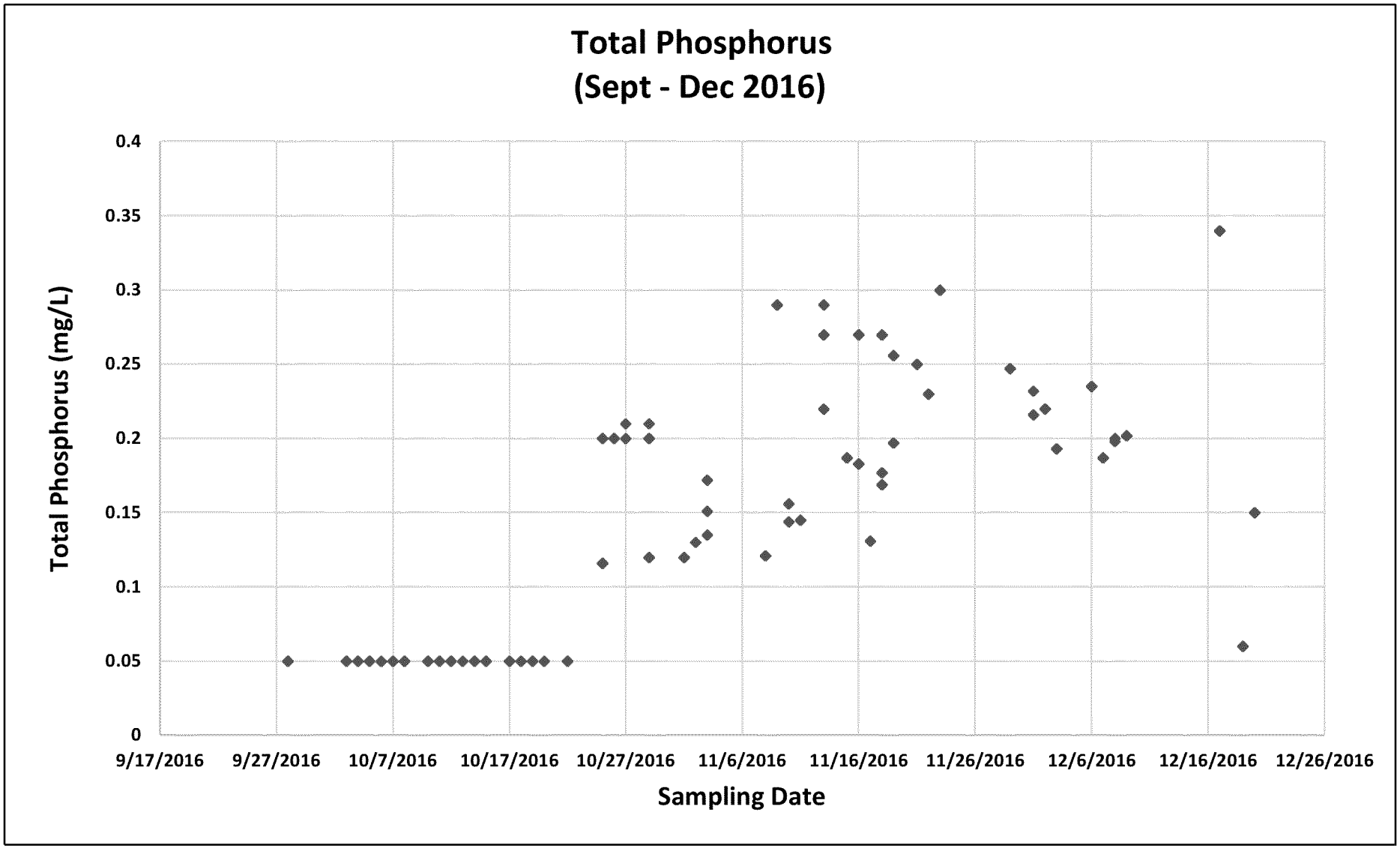
***There is a difference in the number of samples collected pre- and post-excavation.**

**Orange highlights indicate the values have changed from preliminary to final data.**

**Results are questionable/being evaluated.**

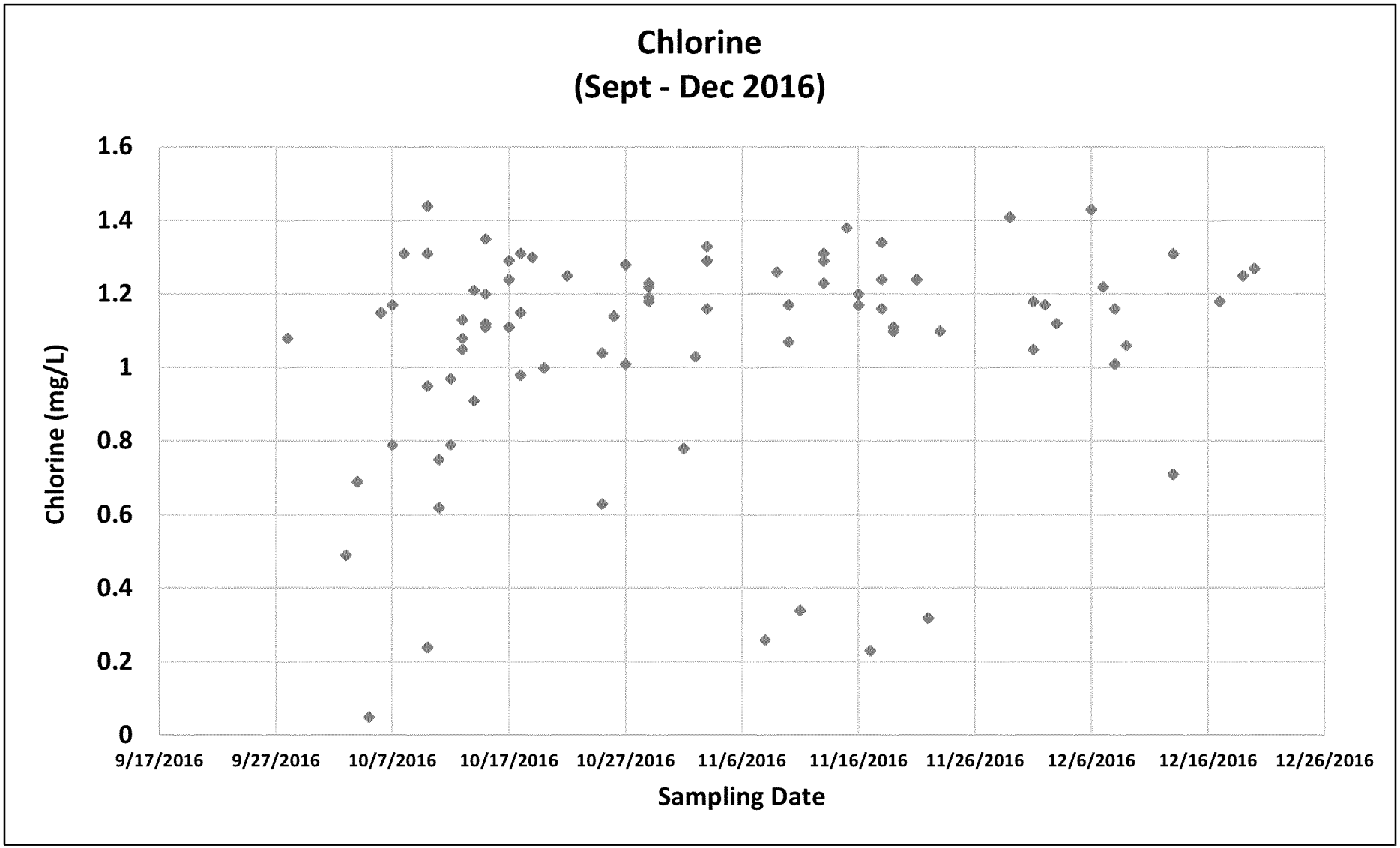
UPDATED 01/22/2017

# Total Phosphorus



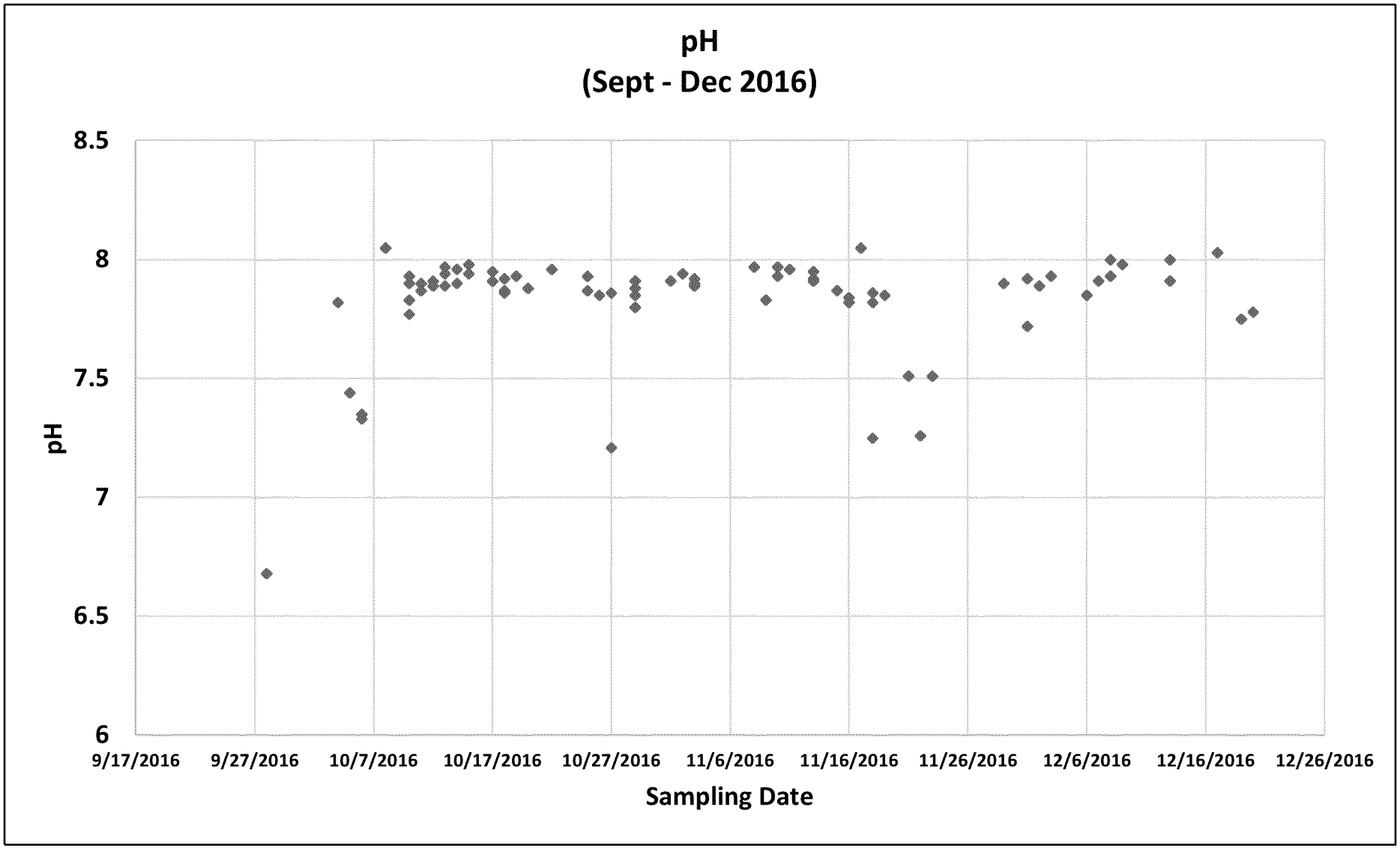

UPDATED 01/22/2017

# Free Chlorine

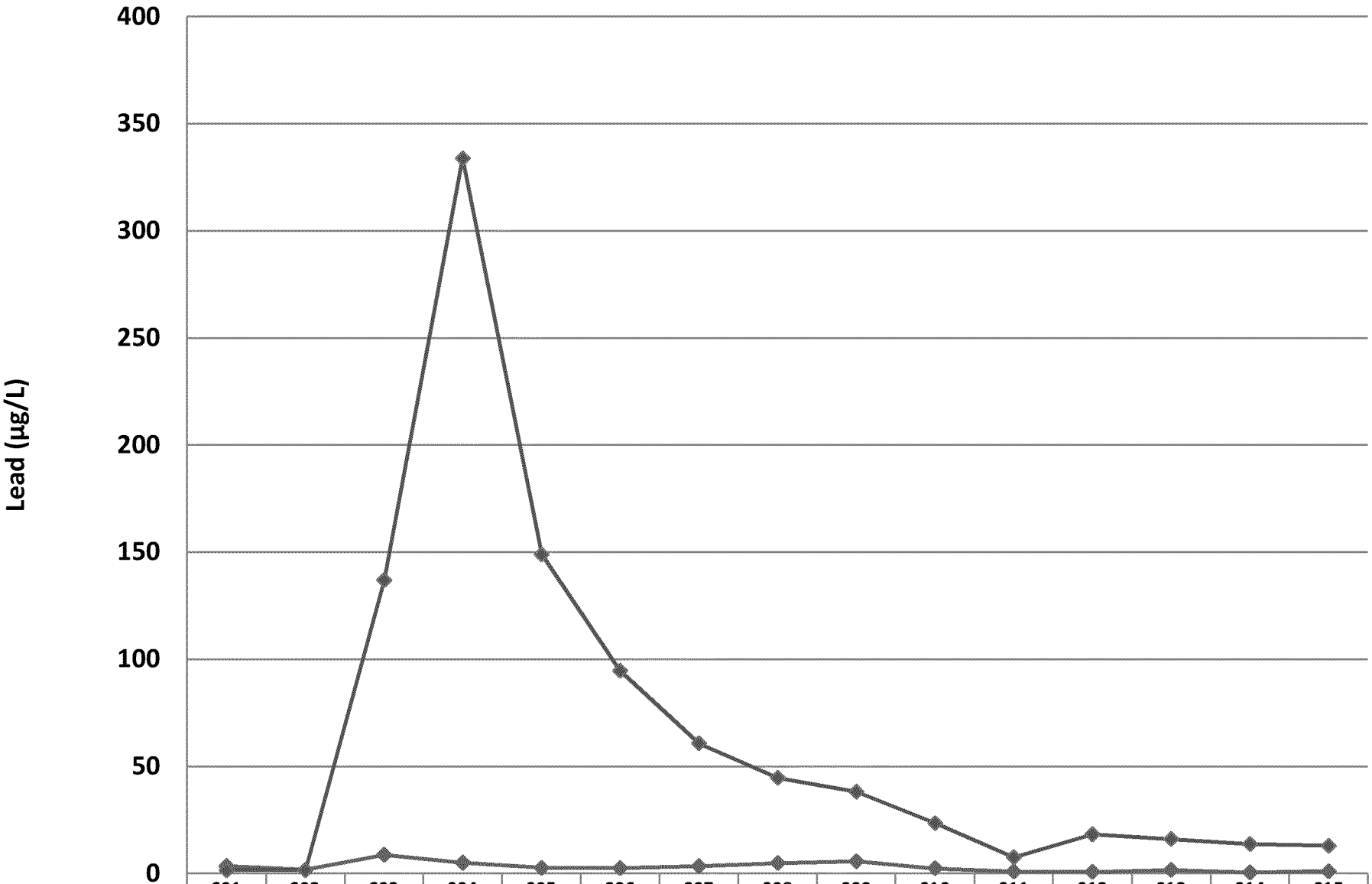



UPDATED 01/22/2017

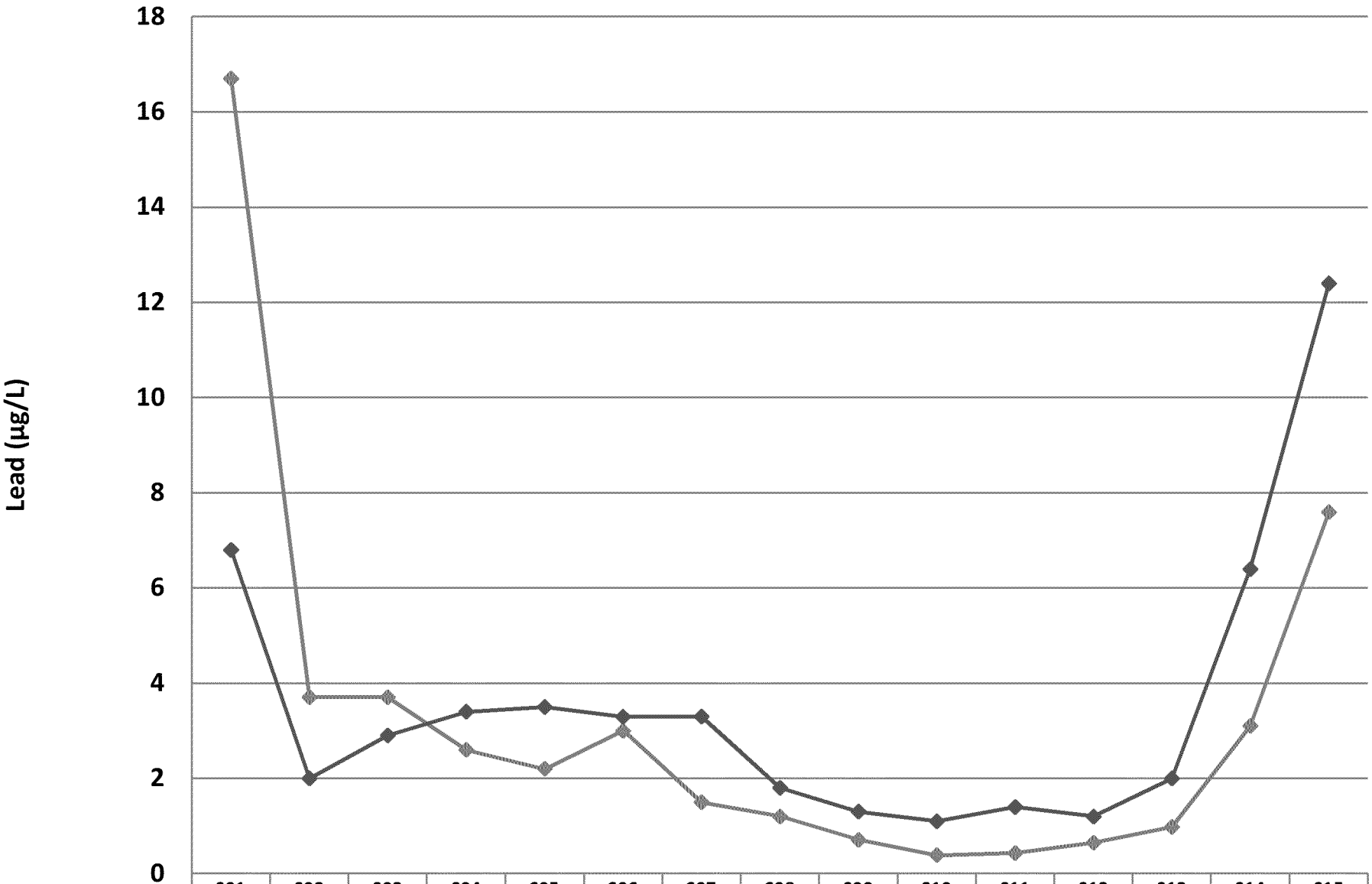
# pH



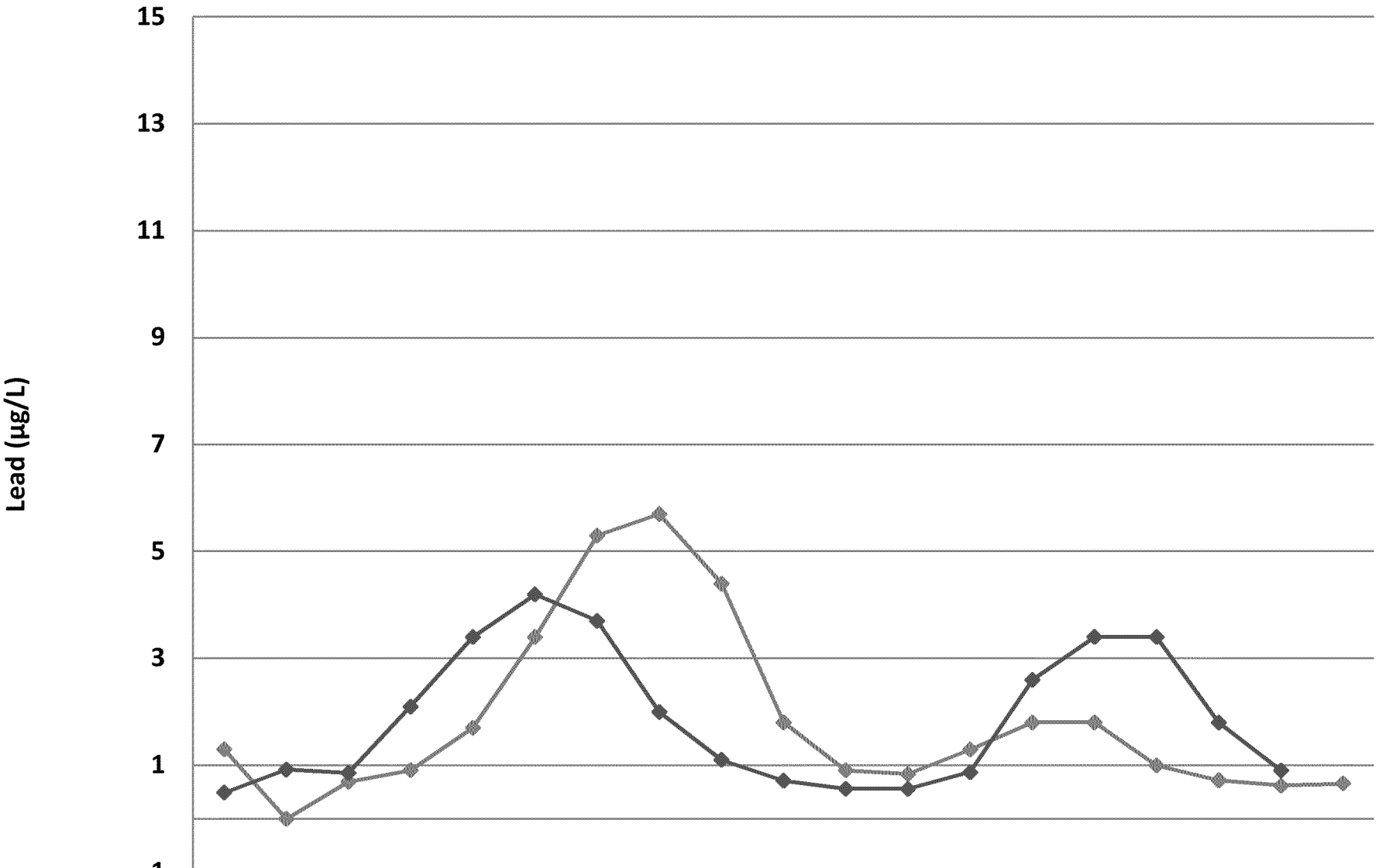

UPDATED 01/22/2017



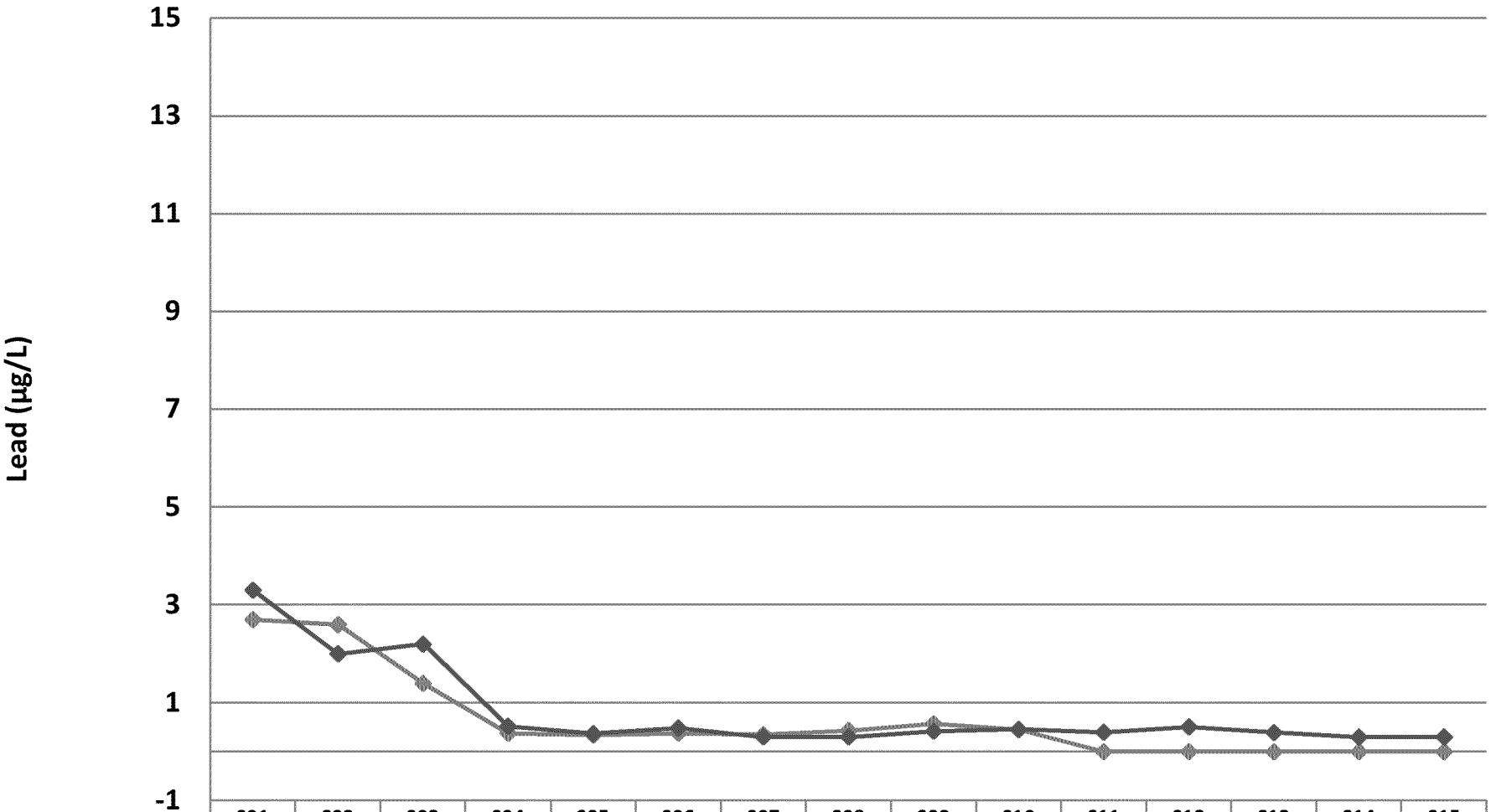

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/26/2016 | 3.5 | 1.9 | 8.8 | 5.1 | 2.7 | 2.6 | 3.6 | 4.9 | 5.7 | 2.5 | 1 | 0.81 | 1.8 | 0.65 | 1.1 |
| S2:11/9/2016 | 1.5 | 1.7 | 137 | 334 | 149 | 94.7 | 60.8 | 44.8 | 38.3 | 23.6 | 7.7 | 18.3 | 16.2 | 13.9 | 13 |



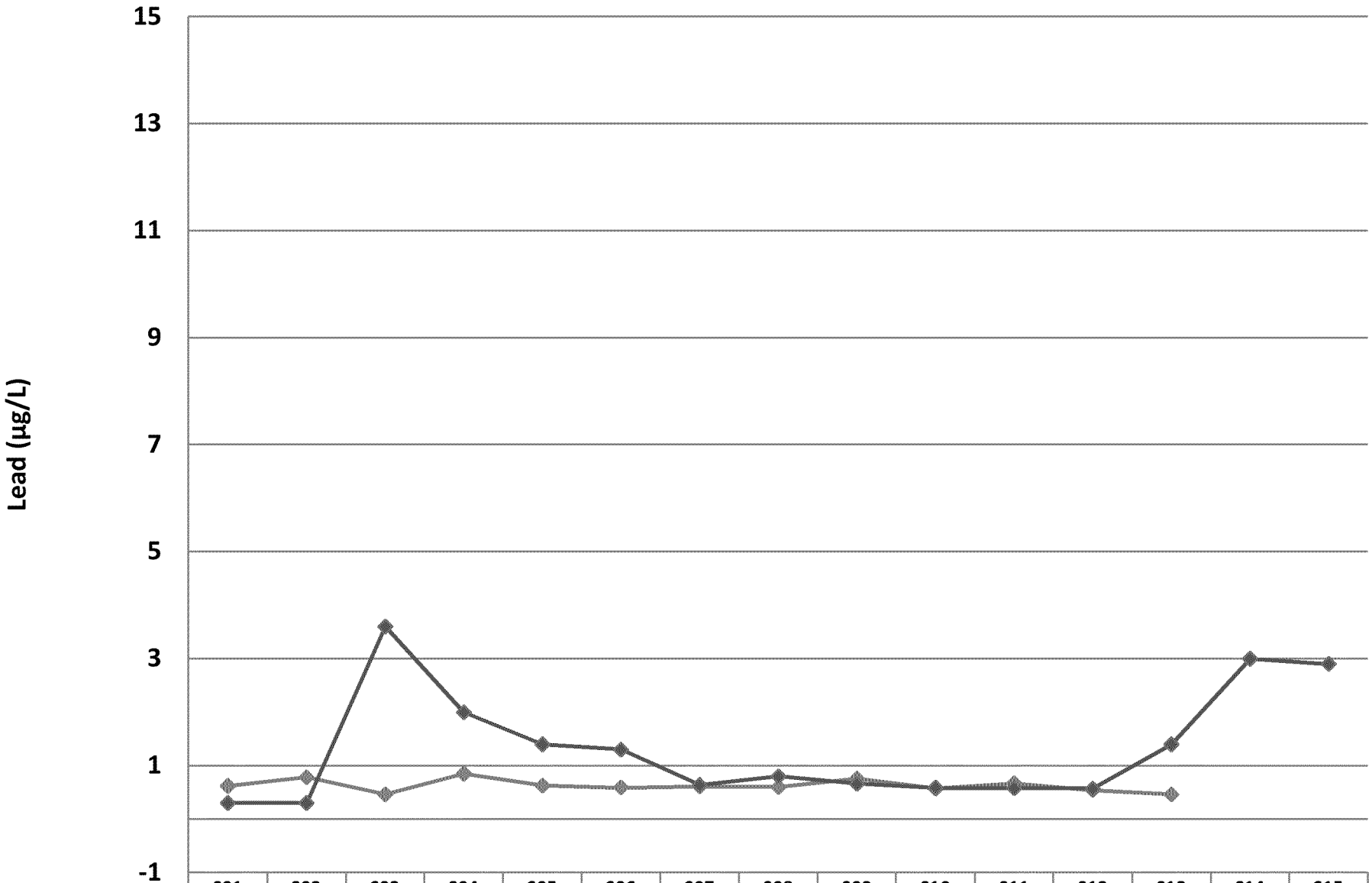

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 11/13/2016 | 16.7 | 3.7 | 3.7 | 2.6 | 2.2 | 3.0 | 1.5 | 1.2 | 0.71 | 0.39 | 0.43 | 0.65 | 0.98 | 3.1 | 7.6 |
| S2: 11/23/2016 | 6.8 | 2 | 2.9 | 3.4 | 3.5 | 3.3 | 3.3 | 1.8 | 1.3 | 1.1 | 1.4 | 1.2 | 2 | 6.4 | 12.4 |



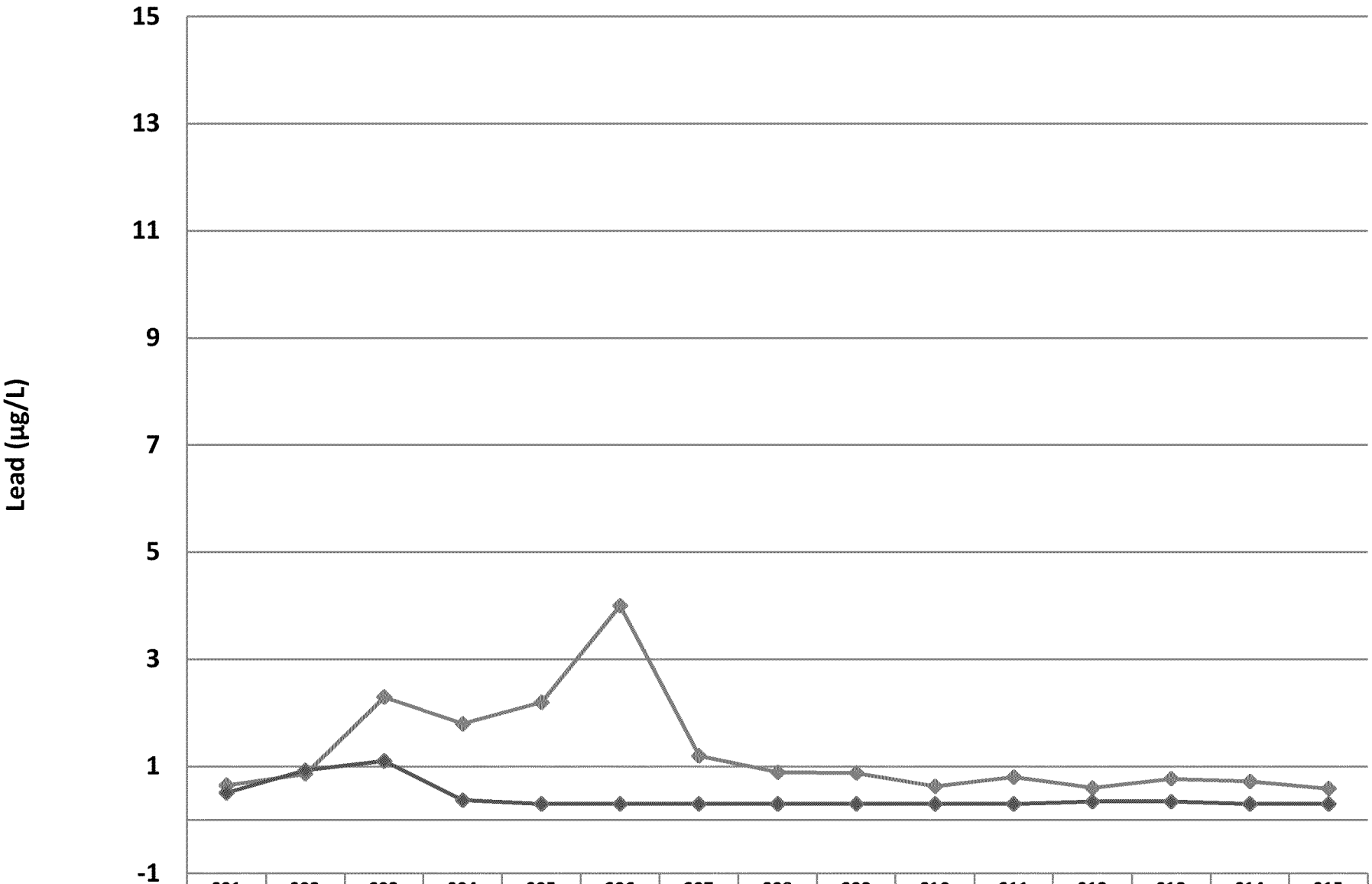

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 | S19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/27/2016 | 1.3 | 0 | 0.69 | 0.91 | 1.7 | 3.4 | 5.3 | 5.7 | 4.4 | 1.8 | 0.91 | 0.84 | 1.3 | 1.8 | 1.8 | 1 | 0.72 | 0.62 | 0.66 |
| s2: 11/21/2016 | 0.49 | 0.92 | 0.86 | 2.1 | 3.4 | 4.2 | 3.7 | 2 | 1.1 | 0.71 | 0.56 | 0.56 | 0.87 | 2.6 | 3.4 | 3.4 | 1.8 | 0.9 | |




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/27/2016 | 2.7 | 2.6 | 1.4 | 0.38 | 0.34 | 0.38 | 0.35 | 0.43 | 0.57 | 0.45 | 0 | 0 | 0 | 0 | 0 |
| S2: 11/22/2016 | 3.3 | 2 | 2.2 | 0.52 | 0.37 | 0.49 | 0.3 | 0.3 | 0.42 | 0.46 | 0.4 | 0.51 | 0.39 | 0.3 | 0.3 |

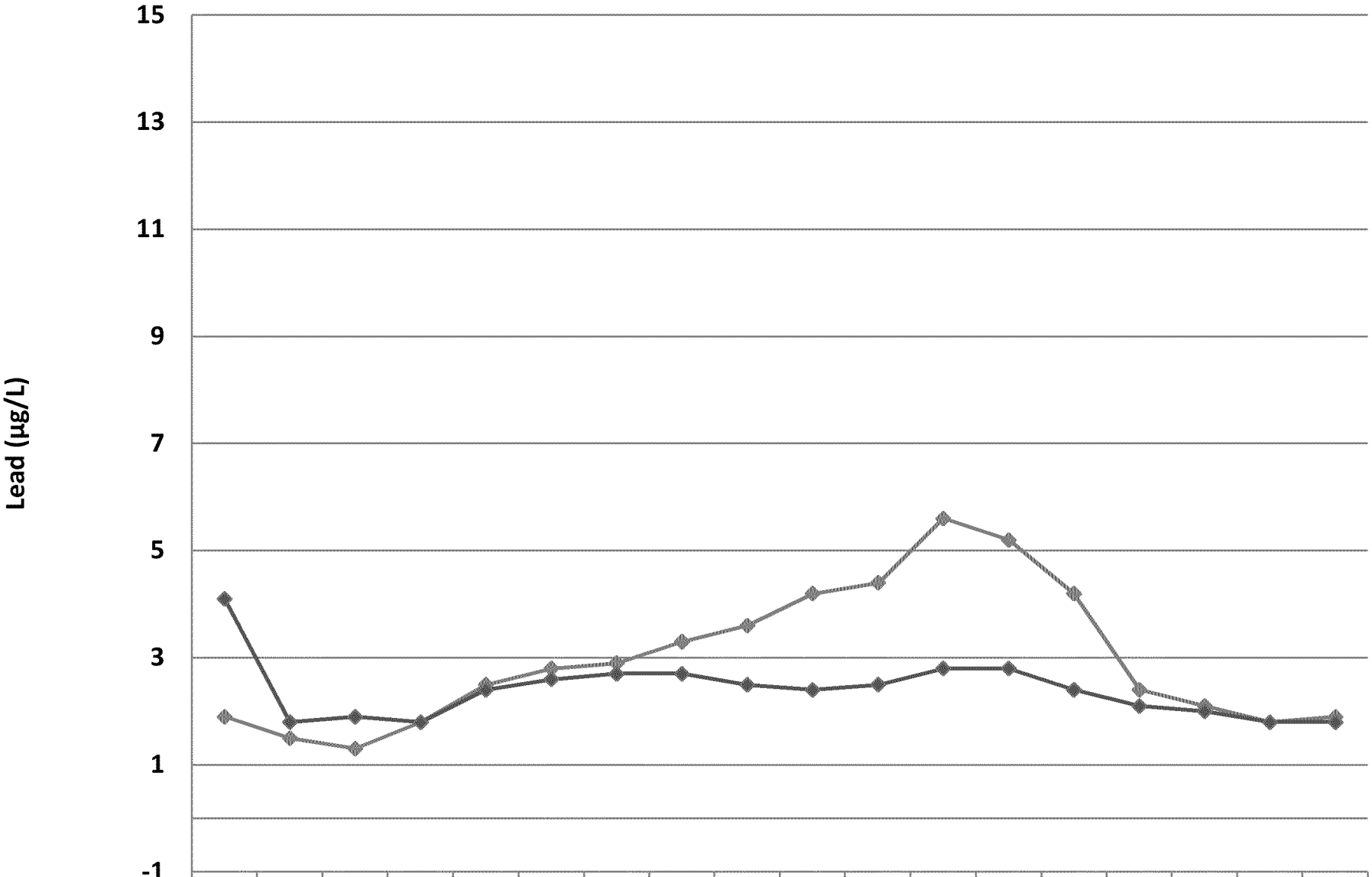



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/29/2016 | 0.62 | 0.78 | 0.46 | 0.85 | 0.63 | 0.59 | 0.61 | 0.6 | 0.76 | 0.57 | 0.67 | 0.54 | 0.46 | | |
| S2:11/13/2016 | 0.3 | 0.3 | 3.6 | 2 | 1.4 | 1.3 | 0.64 | 0.8 | 0.66 | 0.59 | 0.58 | 0.57 | 1.4 | 3 | 2.9 |

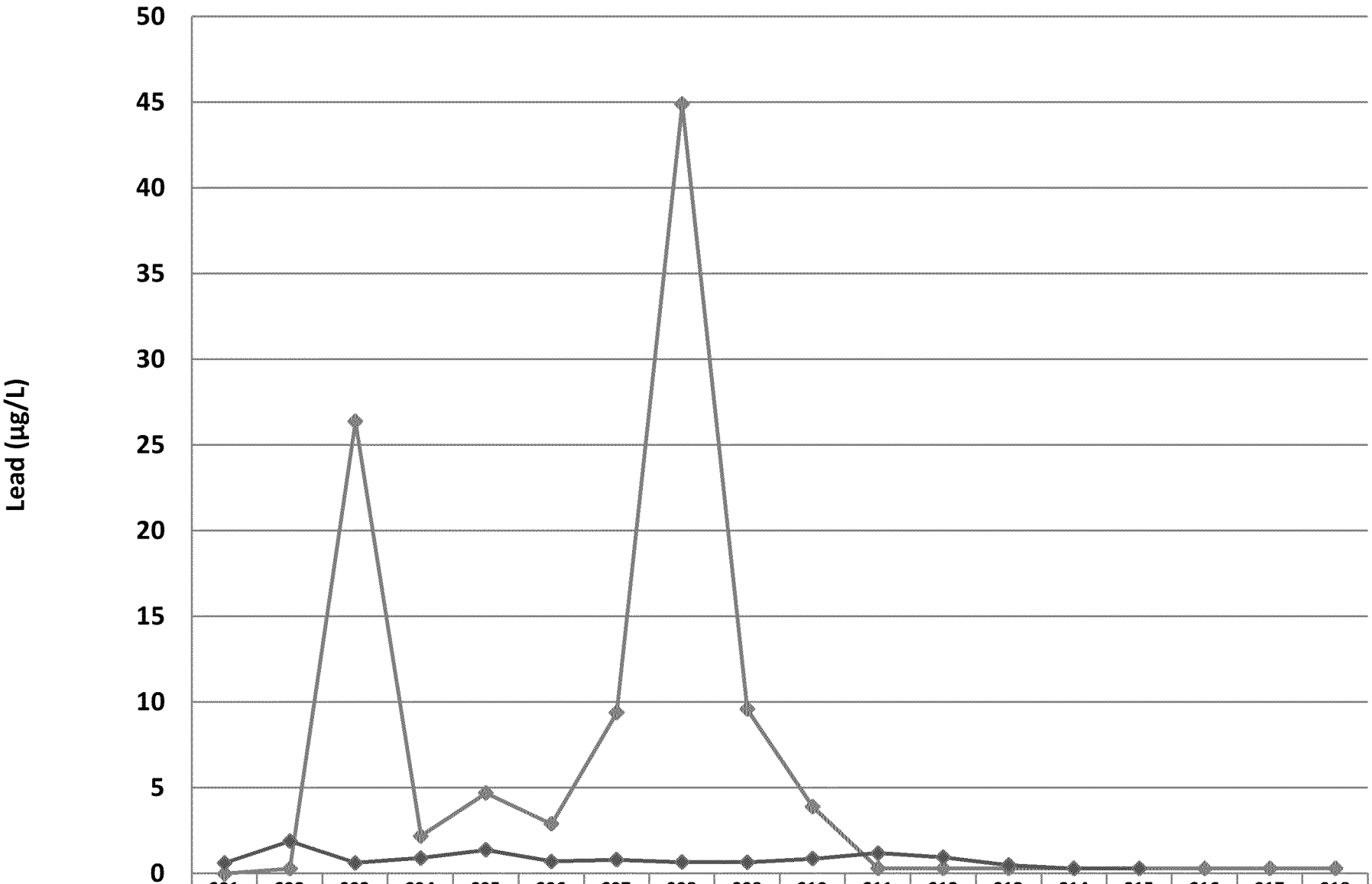



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/29/2016 | 0.65 | 0.86 | 2.3 | 1.8 | 2.2 | 4 | 1.2 | 0.89 | 0.88 | 0.63 | 0.8 | 0.6 | 0.77 | 0.72 | 0.59 |
| S2:11/13/2016 | 0.51 | 0.93 | 1.1 | 0.37 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.34 | 0.34 | 0.3 | 0.3 |

# Site ID: 2183 - ?/Cu & PVC

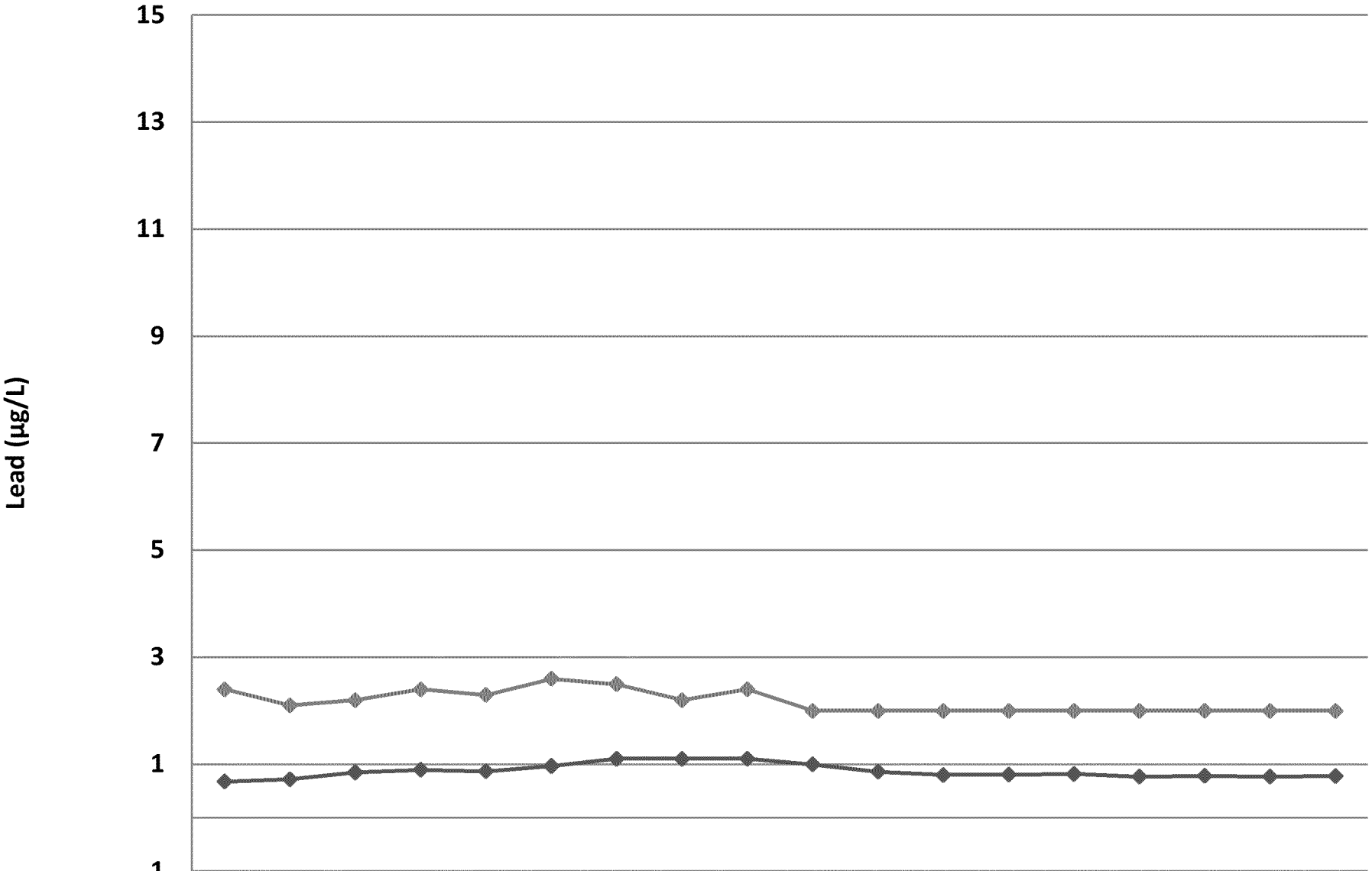



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/29/2016 | 1.9 | 1.5 | 1.3 | 1.8 | 2.5 | 2.8 | 2.9 | 3.3 | 3.6 | 4.2 | 4.4 | 5.6 | 5.2 | 4.2 | 2.4 | 2.1 | 1.8 | 1.9 |
| S2: 11/18/2016 | 4.1 | 1.8 | 1.9 | 1.8 | 2.4 | 2.6 | 2.7 | 2.7 | 2.5 | 2.4 | 2.5 | 2.8 | 2.8 | 2.4 | 2.1 | 2.0 | 1.8 | 1.8 |

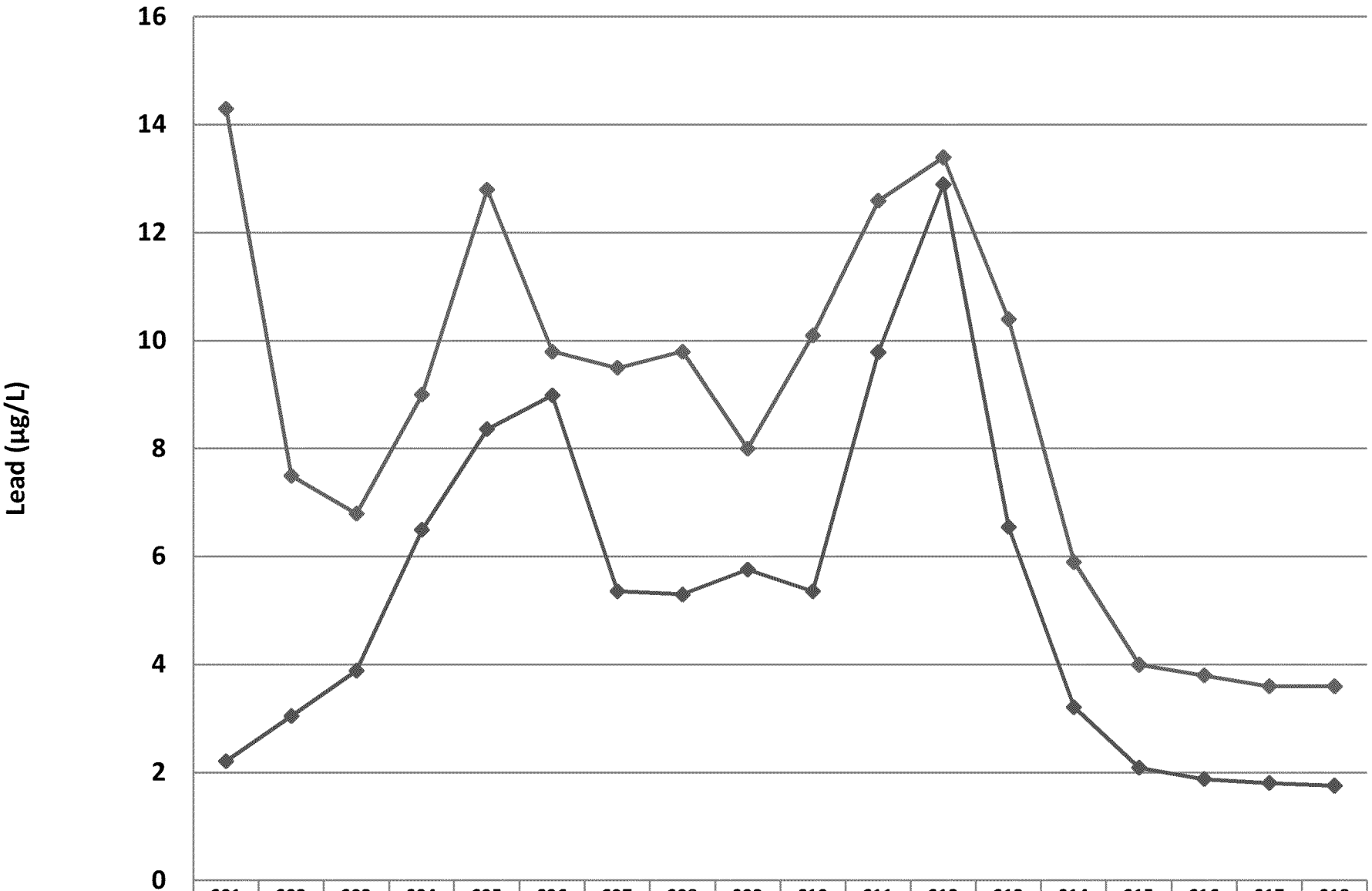



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/25/2016 | 0 | 0.3 | 26.4 | 2.2 | 4.7 | 2.9 | 9.4 | 44.9 | 9.6 | 3.9 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| S2: 11/16/2016 | 0.63 | 1.9 | 0.63 | 0.91 | 1.4 | 0.71 | 0.82 | 0.68 | 0.66 | 0.88 | 1.2 | 0.96 | 0.49 | 0.3 | 0.3 | | | |

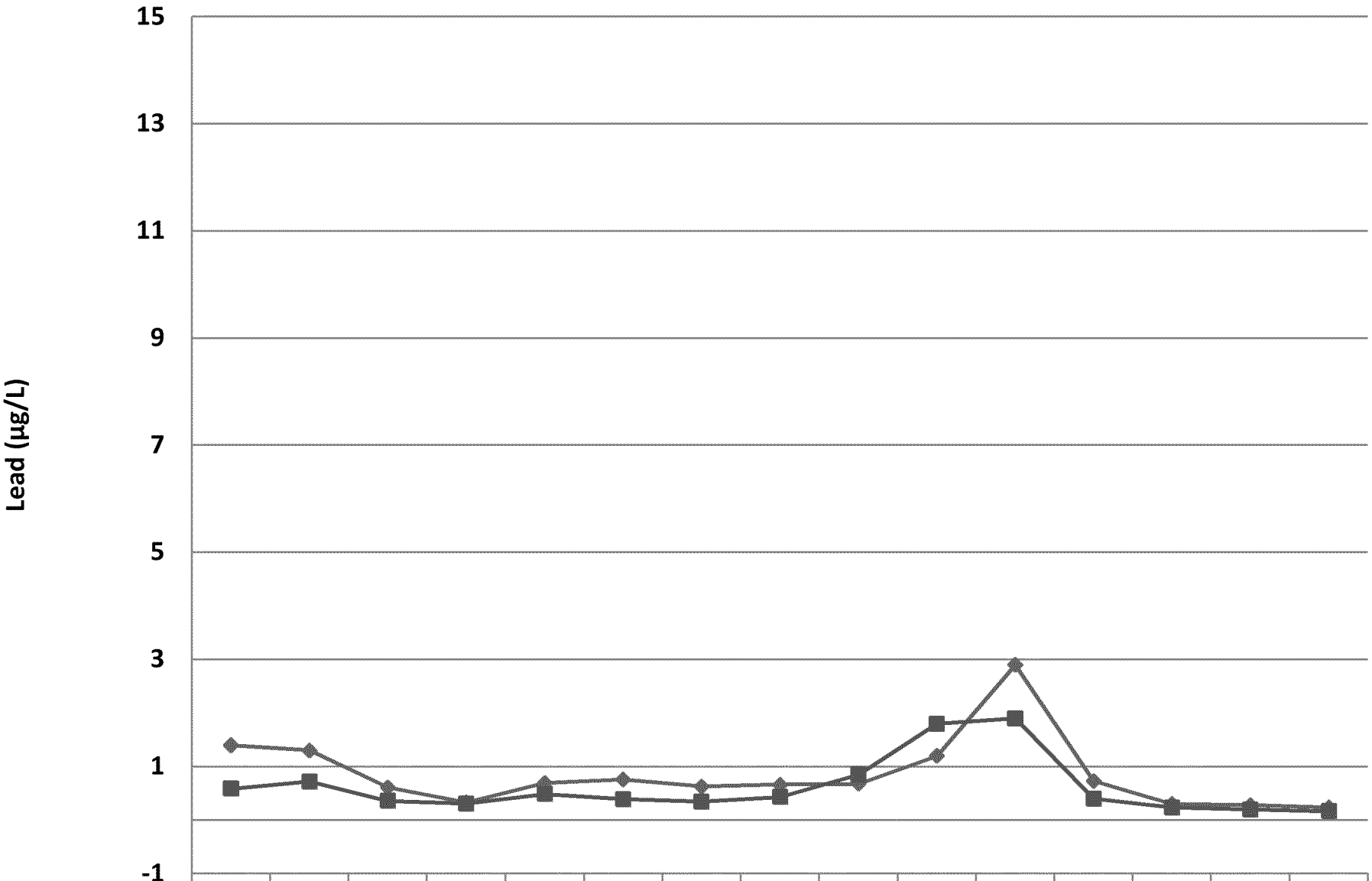
# Site ID: 3016 - Pb/G



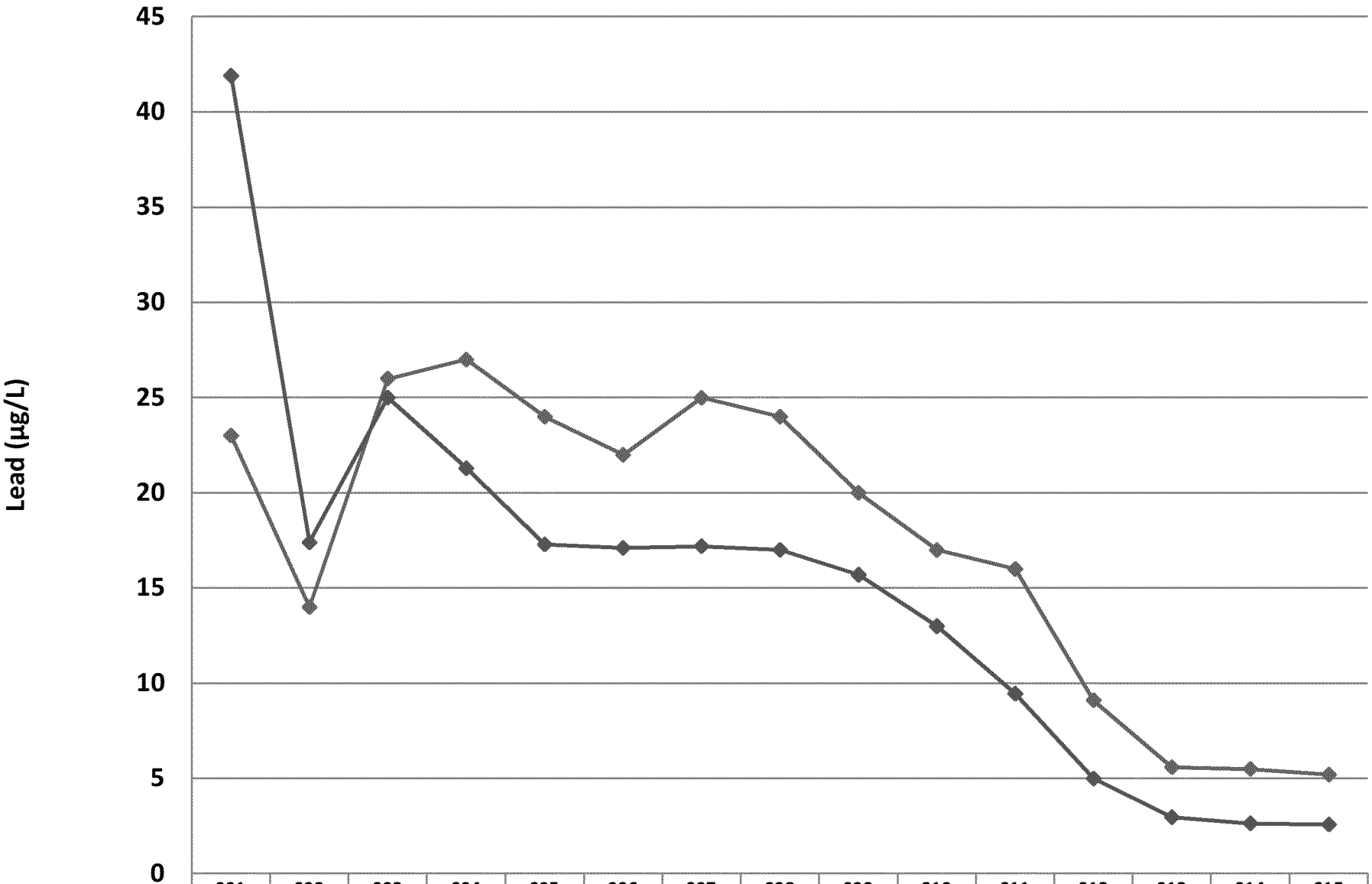

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/18/2016 | 2.4 | 2.1 | 2.2 | 2.4 | 2.3 | 2.6 | 2.5 | 2.2 | 2.4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| S2: 12/01/2016 | 0.68 | 0.72 | 0.85 | 0.9 | 0.87 | 0.97 | 1.1 | 1.1 | 1.1 | 1 | 0.86 | 0.8 | 0.81 | 0.82 | 0.77 | 0.79 | 0.77 | 0.78 |



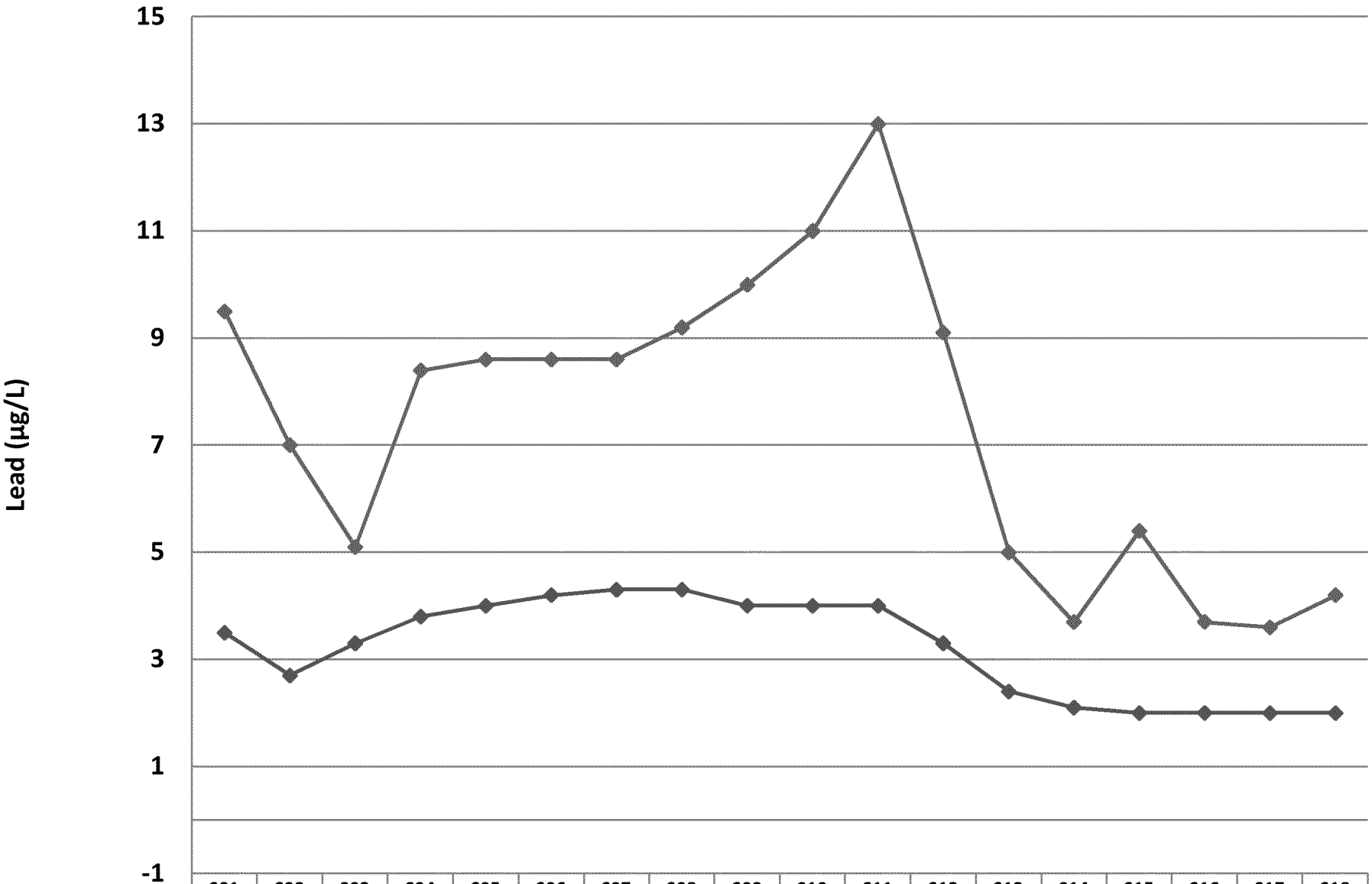

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 11/2/2016 | 14.3 | 7.5 | 6.8 | 9.0 | 12.8 | 9.8 | 9.5 | 9.8 | 8.0 | 10.1 | 12.6 | 13.4 | 10.4 | 5.9 | 4.0 | 3.8 | 3.6 | 3.6 |
| S2: 12/19/2016 | 2.21 | 3.05 | 3.89 | 6.5 | 8.36 | 8.99 | 5.36 | 5.3 | 5.76 | 5.36 | 9.79 | 12.9 | 6.55 | 3.21 | 2.09 | 1.88 | 1.81 | 1.76 |



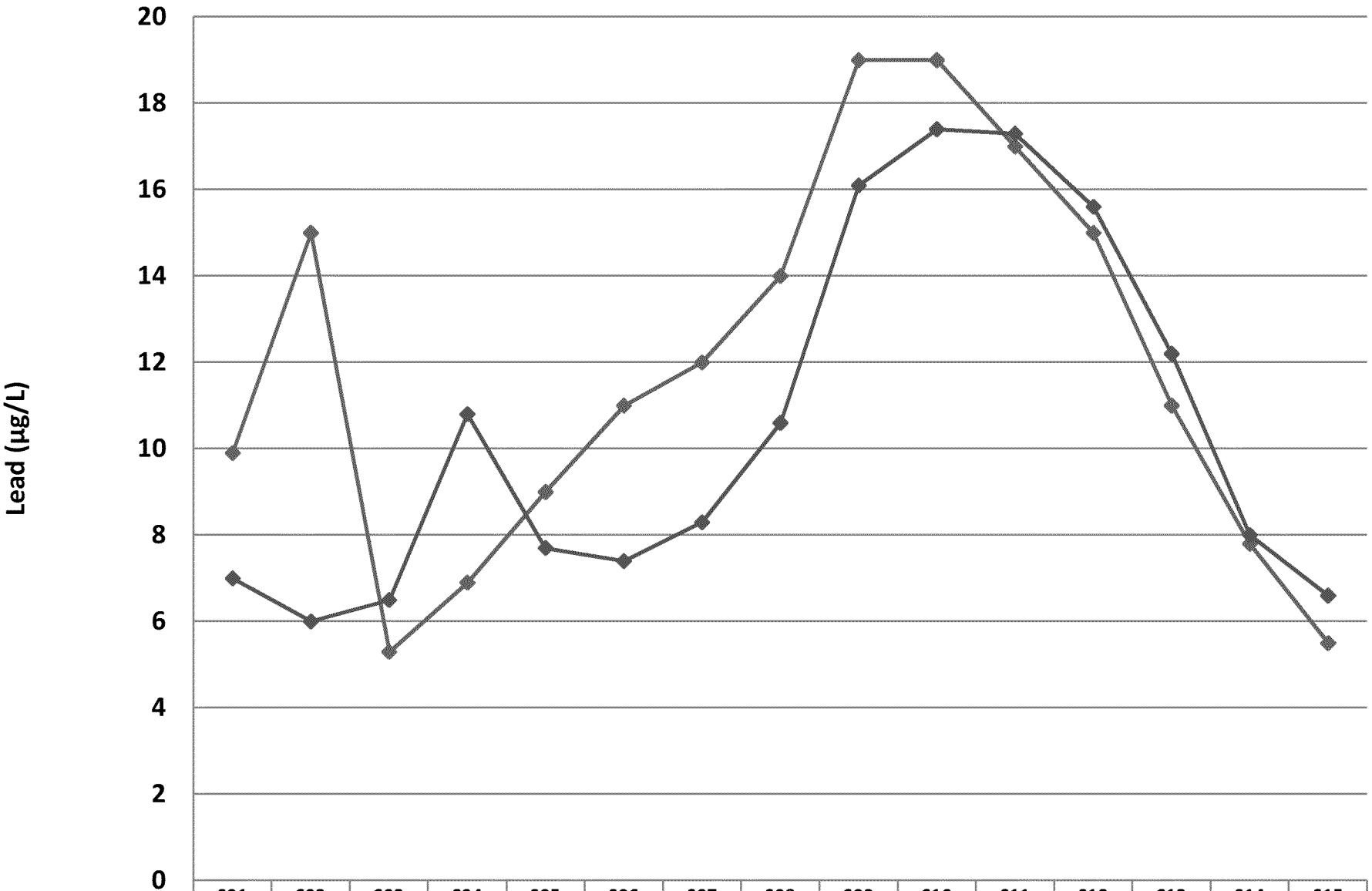

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 11/10/2016 | 1.4 | 1.3 | 0.61 | 0.33 | 0.69 | 0.76 | 0.63 | 0.66 | 0.68 | 1.2 | 2.9 | 0.73 | 0.3 | 0.28 | 0.24 |
| S2: 12/08/2016 | 0.59 | 0.72 | 0.36 | 0.31 | 0.49 | 0.39 | 0.34 | 0.43 | 0.85 | 1.8 | 1.9 | 0.4 | 0.23 | 0.2 | 0.17 |



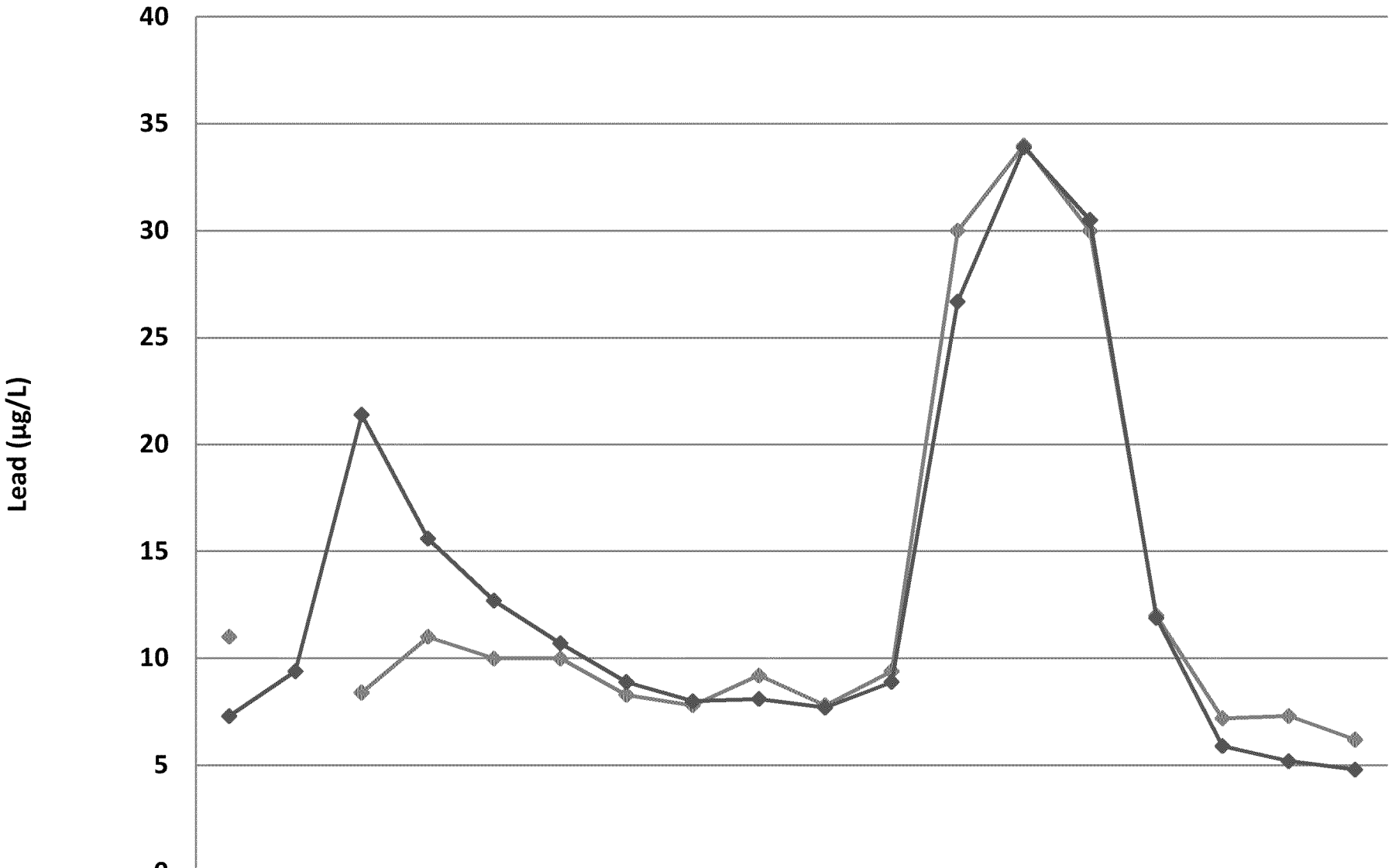

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/10/2016 | 23 | 14 | 26 | 27 | 24 | 22 | 25 | 24 | 20 | 17 | 16 | 9.1 | 5.6 | 5.5 | 5.2 |
| S2: 12/13/2016 | 41.9 | 17.4 | 25 | 21.3 | 17.3 | 17.1 | 17.2 | 17 | 15.7 | 13 | 9.46 | 4.99 | 2.96 | 2.64 | 2.59 |




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/11/2016 | 9.5 | 7 | 5.1 | 8.4 | 8.6 | 8.6 | 8.6 | 9.2 | 10 | 11 | 13 | 9.1 | 5 | 3.7 | 5.4 | 3.7 | 3.6 | 4.2 |
| S2:11/8/2016 | 3.5 | 2.7 | 3.3 | 3.8 | 4.0 | 4.2 | 4.3 | 4.3 | 4.0 | 4.0 | 4.0 | 3.3 | 2.4 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 |

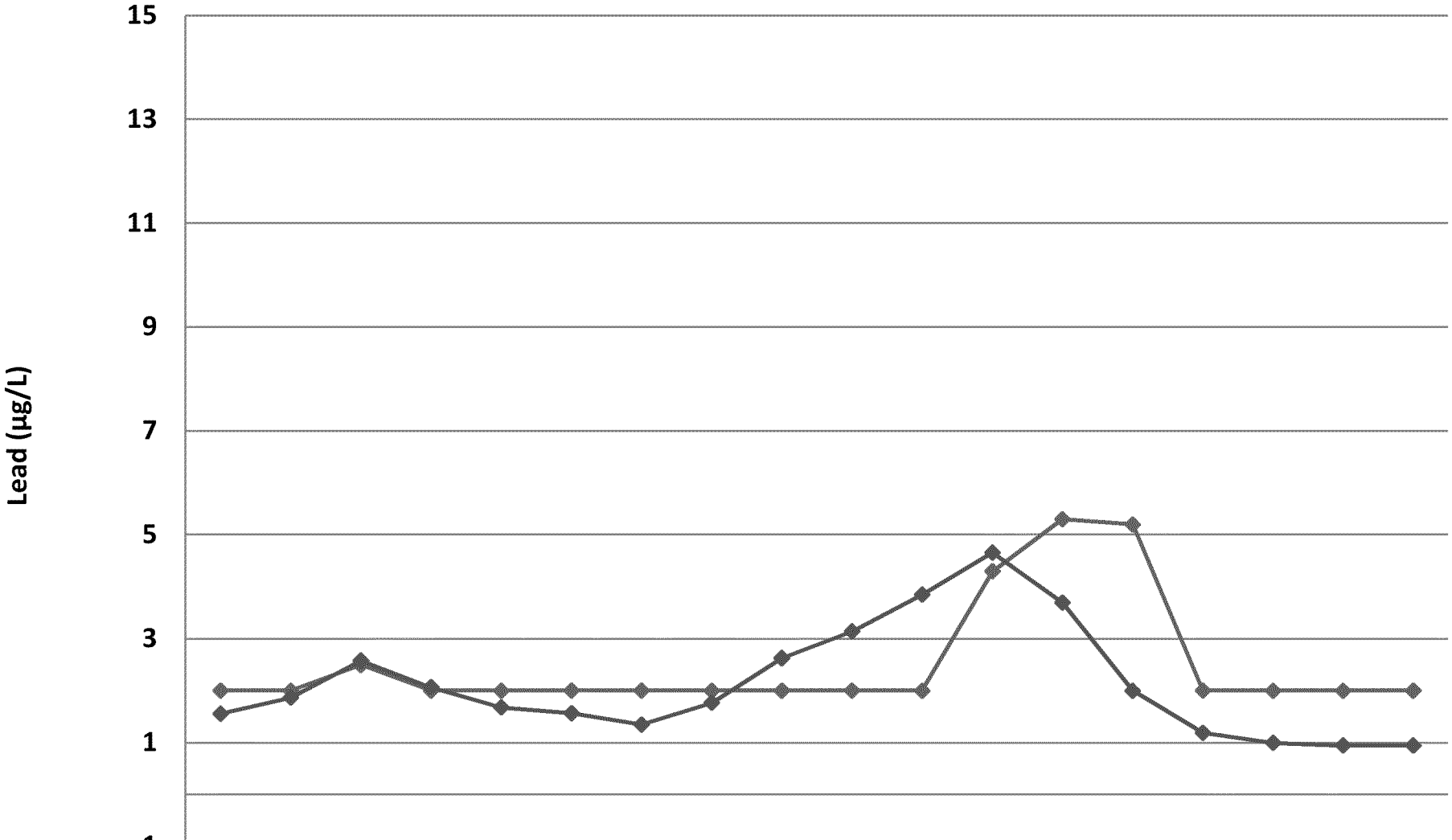



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/15/2016 | 9.9 | 15 | 5.3 | 6.9 | 9 | 11 | 12 | 14 | 19 | 19 | 17 | 15 | 11 | 7.8 | 5.5 |
| S2: 11/18/2016 | 7 | 6 | 6.5 | 10.8 | 7.7 | 7.4 | 8.3 | 10.6 | 16.1 | 17.4 | 17.3 | 15.6 | 12.2 | 8 | 6.6 |

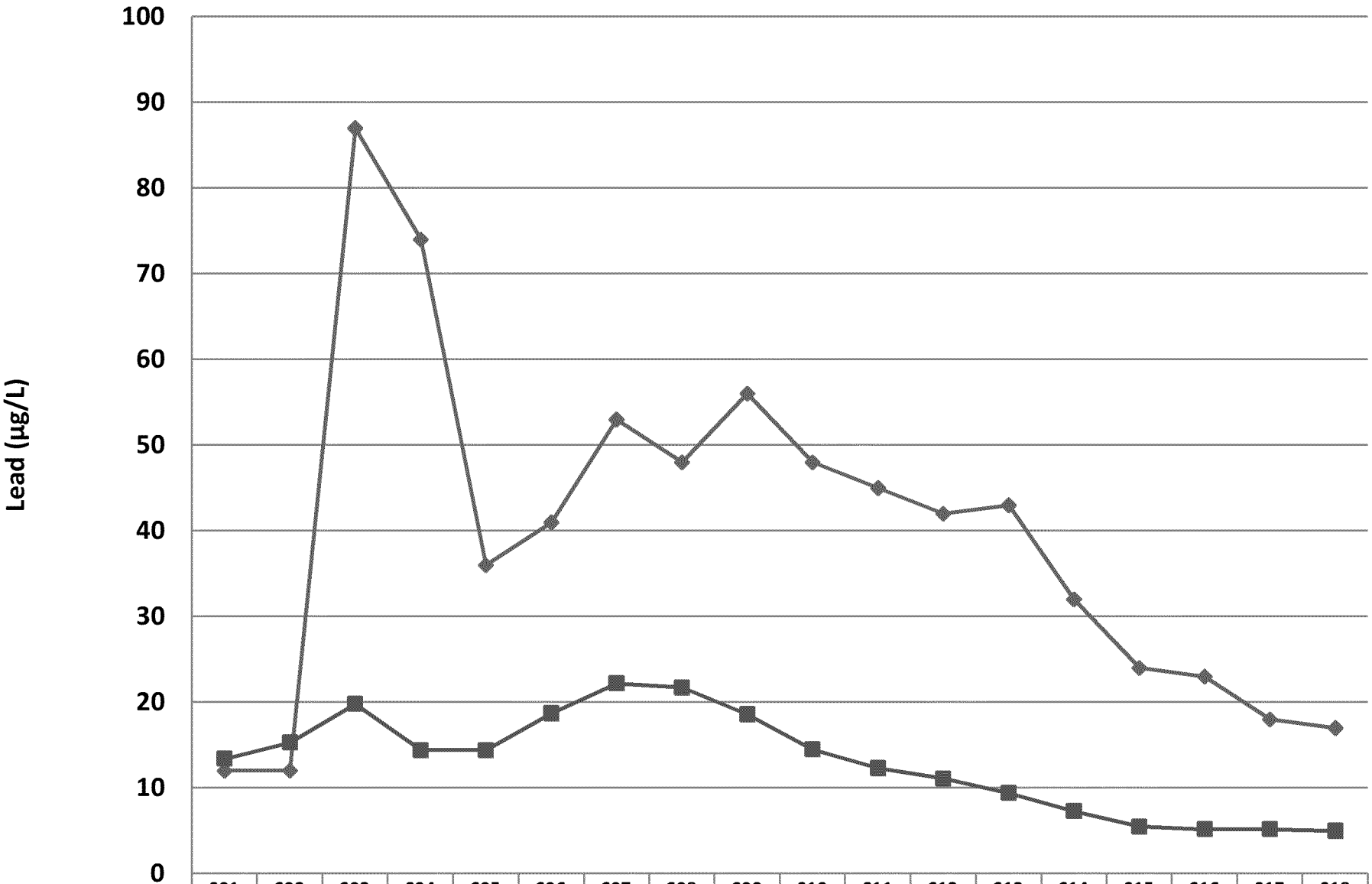



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/5/2016 | 11 | | 8.4 | 11 | 10 | 10 | 8.3 | 7.8 | 9.2 | 7.8 | 9.4 | 30 | 34 | 30 | 12 | 7.2 | 7.3 | 6.2 |
| S2: 11/17/2016 | 7.3 | 9.4 | 21.4 | 15.6 | 12.7 | 10.7 | 8.9 | 8 | 8.1 | 7.7 | 8.9 | 26.7 | 33.9 | 30.5 | 11.9 | 5.9 | 5.2 | 4.8 |

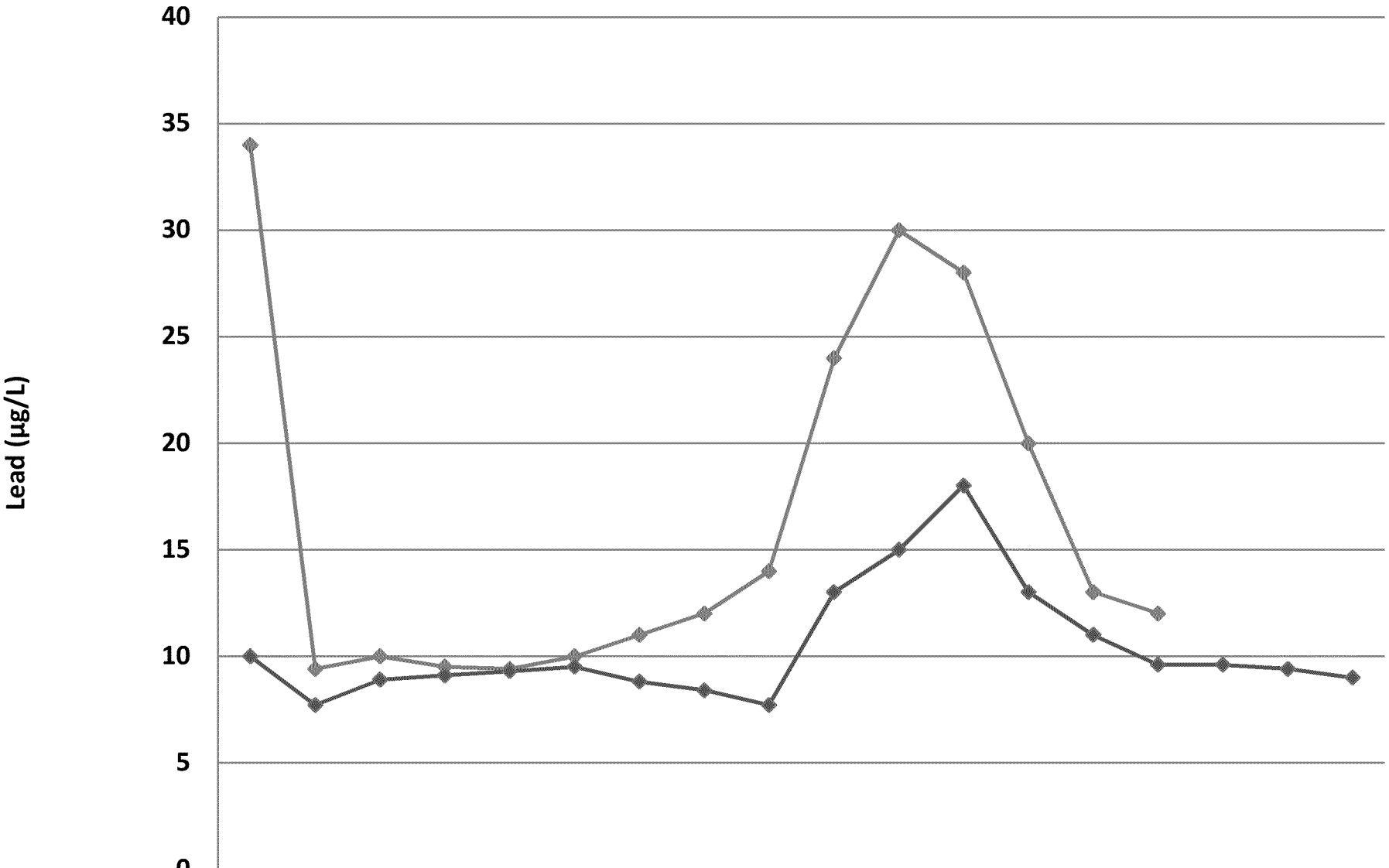
# Site ID: 3074 - G/G



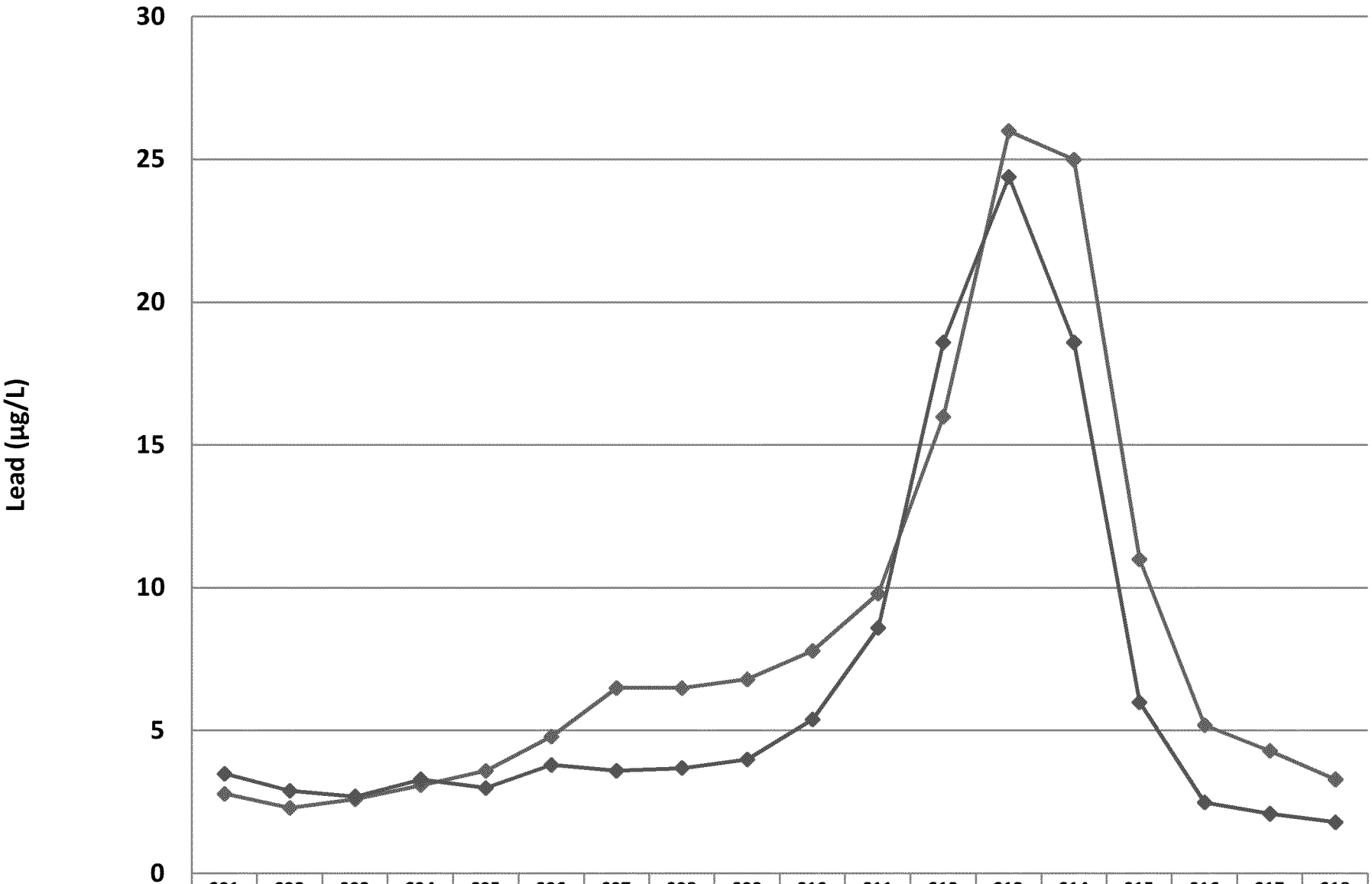

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/15/2016 | 2 | 2 | 2.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4.3 | 5.3 | 5.2 | 2 | 2 | 2 | 2 |
| S2: 12/20/2016 | 1.56 | 1.87 | 2.58 | 2.07 | 1.68 | 1.57 | 1.35 | 1.77 | 2.63 | 3.15 | 3.85 | 4.66 | 3.7 | 2 | 1.19 | 1 | 0.95 | 0.95 |



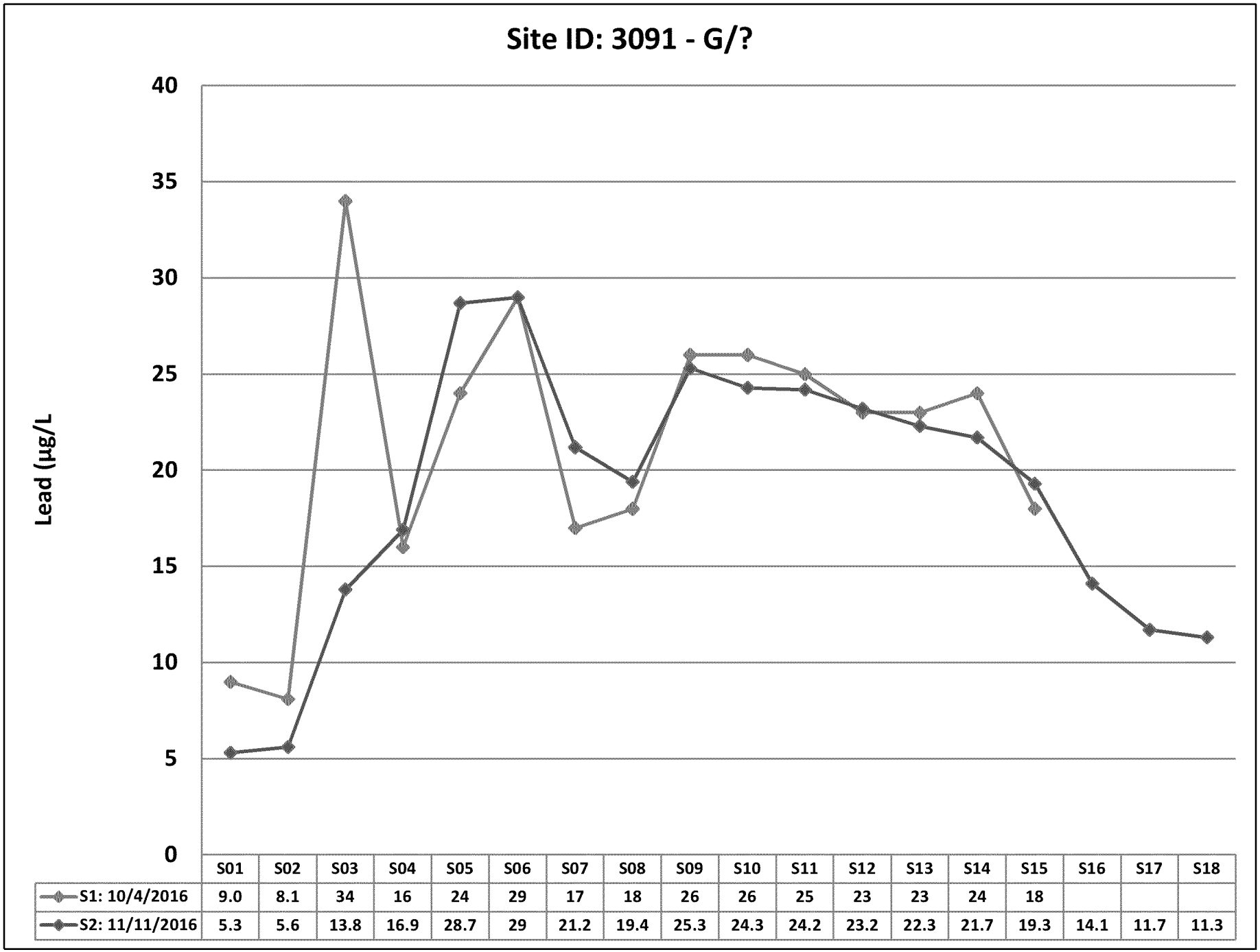

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/13/2016 | 12 | 12 | 87 | 74 | 36 | 41 | 53 | 48 | 56 | 48 | 45 | 42 | 43 | 32 | 24 | 23 | 18 | 17 |
| S2: 12/09/2016 | 13.4 | 15.3 | 19.8 | 14.4 | 14.4 | 18.7 | 22.2 | 21.7 | 18.6 | 14.5 | 12.3 | 11.1 | 9.4 | 7.3 | 5.5 | 5.2 | 5.2 | 5 |



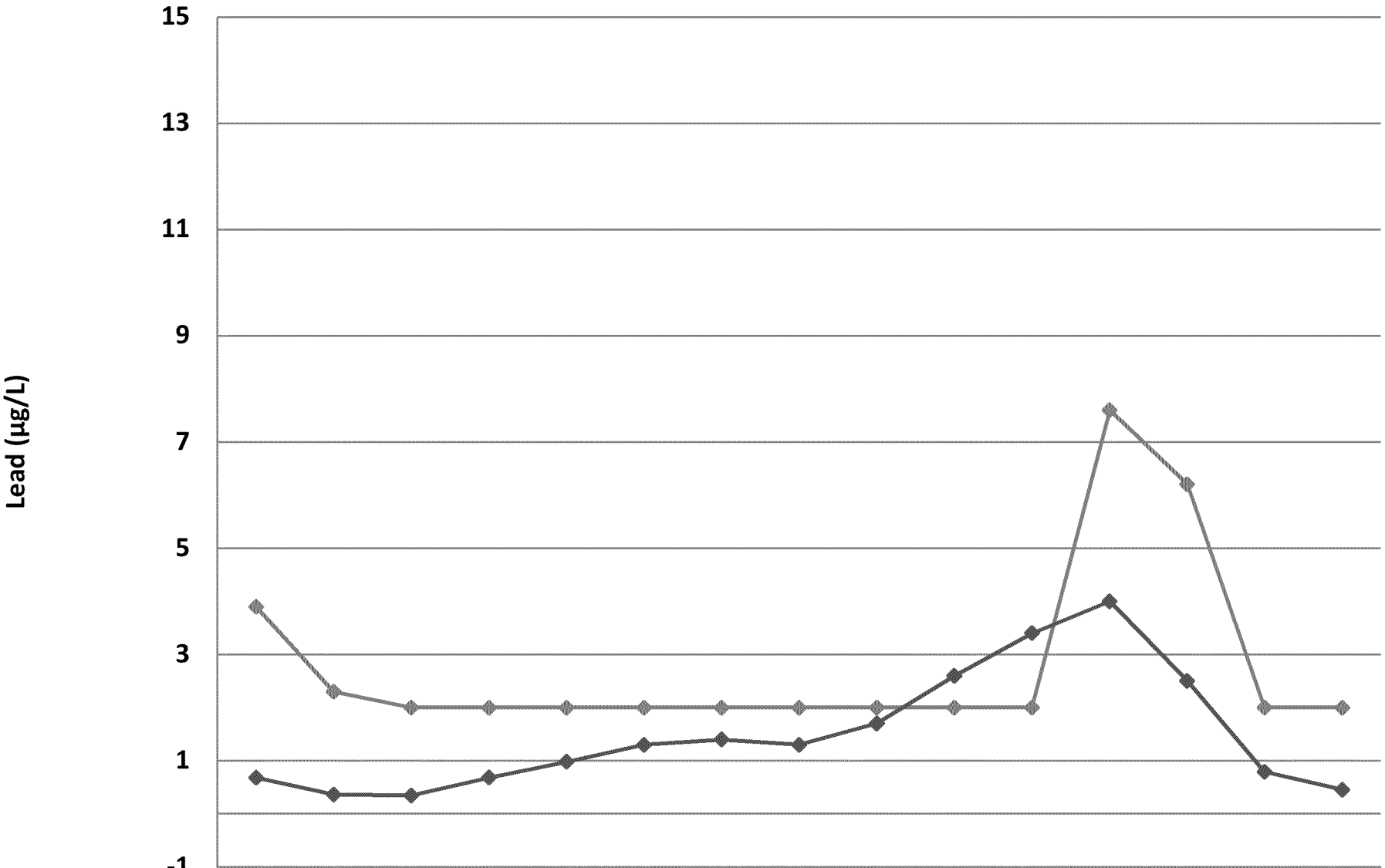

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/3/2016 | 34.0 | 9.4 | 10.0 | 9.5 | 9.4 | 10.0 | 11.0 | 12.0 | 14.0 | 24.0 | 30.0 | 28.0 | 20.0 | 13.0 | 12.0 | | | |
| S2: 10/12/2016 | 10.0 | 7.7 | 8.9 | 9.1 | 9.3 | 9.5 | 8.8 | 8.4 | 7.7 | 13.0 | 15.0 | 18.0 | 13.0 | 11.0 | 9.6 | 9.6 | 9.4 | 9.0 |



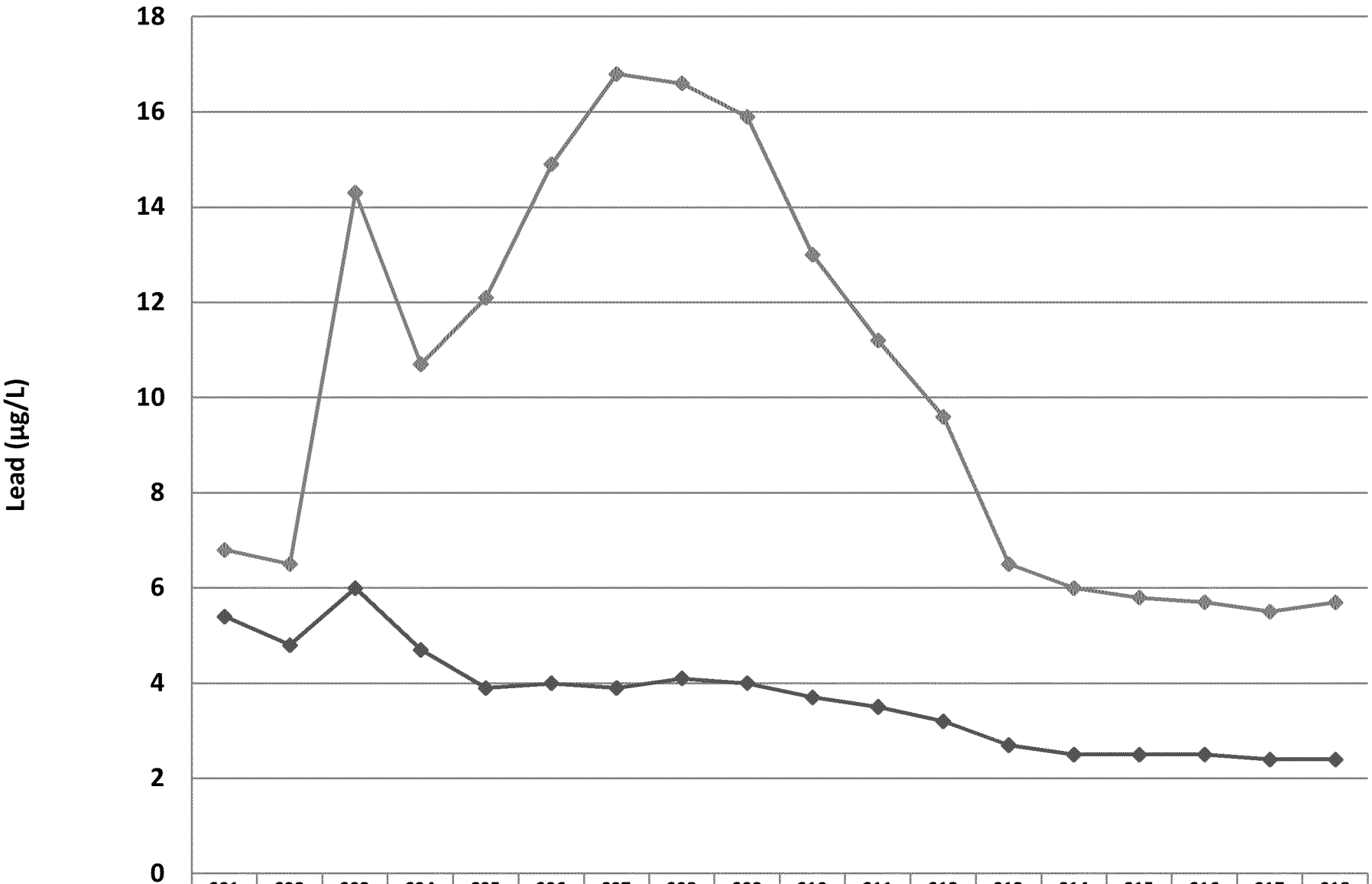

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/17/2016 | 2.8 | 2.3 | 2.6 | 3.1 | 3.6 | 4.8 | 6.5 | 6.5 | 6.8 | 7.8 | 9.8 | 16 | 26 | 25 | 11 | 5.2 | 4.3 | 3.3 |
| S2: 12/08/2016 | 3.5 | 2.9 | 2.7 | 3.3 | 3 | 3.8 | 3.6 | 3.7 | 4 | 5.4 | 8.6 | 18.6 | 24.4 | 18.6 | 6 | 2.5 | 2.1 | 1.8 |



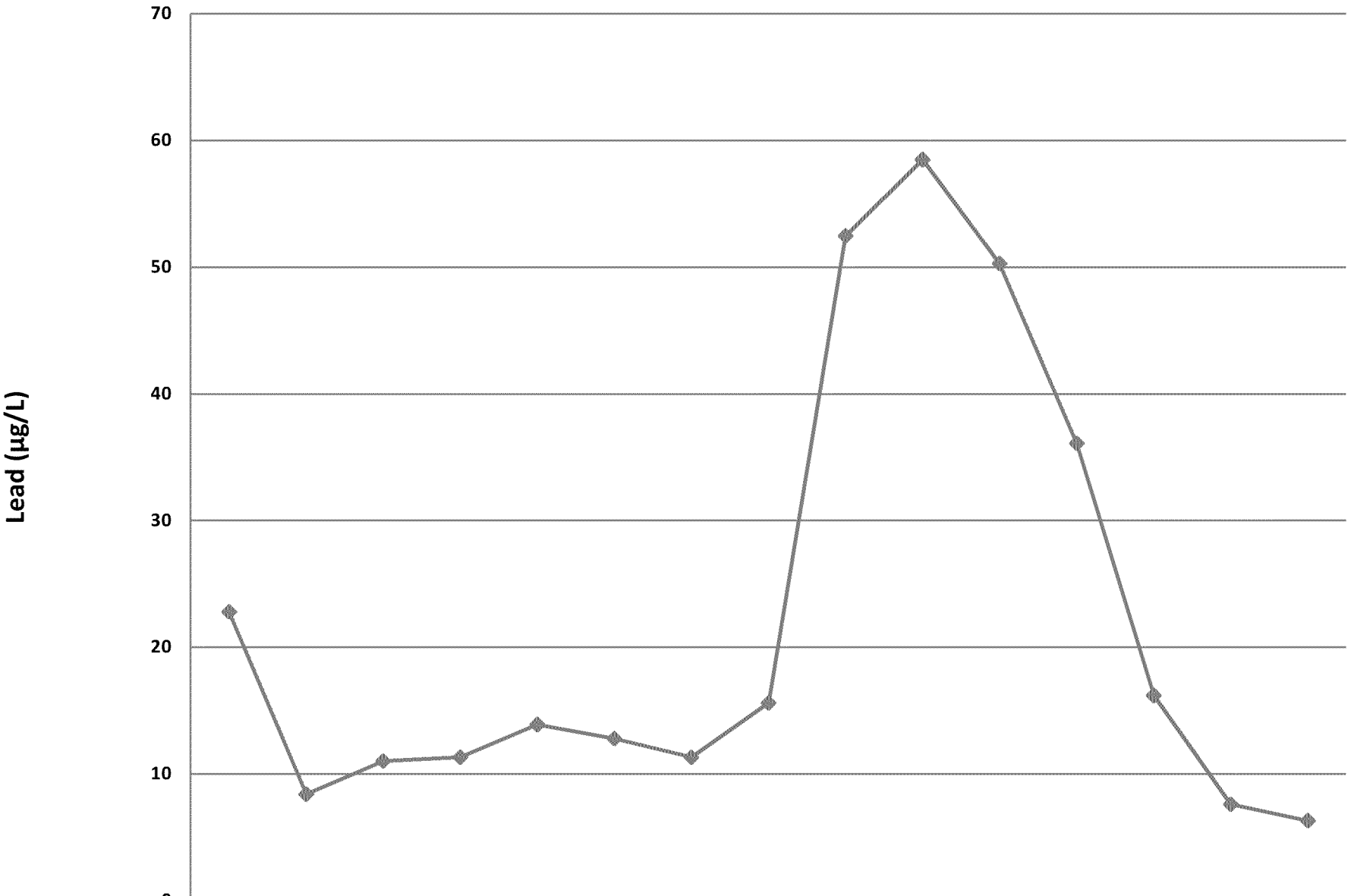

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/4/2016 | 9.0 | 8.1 | 34 | 16 | 24 | 29 | 17 | 18 | 26 | 26 | 25 | 23 | 23 | 24 | 18 | | | |
| S2: 11/11/2016 | 5.3 | 5.6 | 13.8 | 16.9 | 28.7 | 29 | 21.2 | 19.4 | 25.3 | 24.3 | 24.2 | 23.2 | 22.3 | 21.7 | 19.3 | 14.1 | 11.7 | 11.3 |



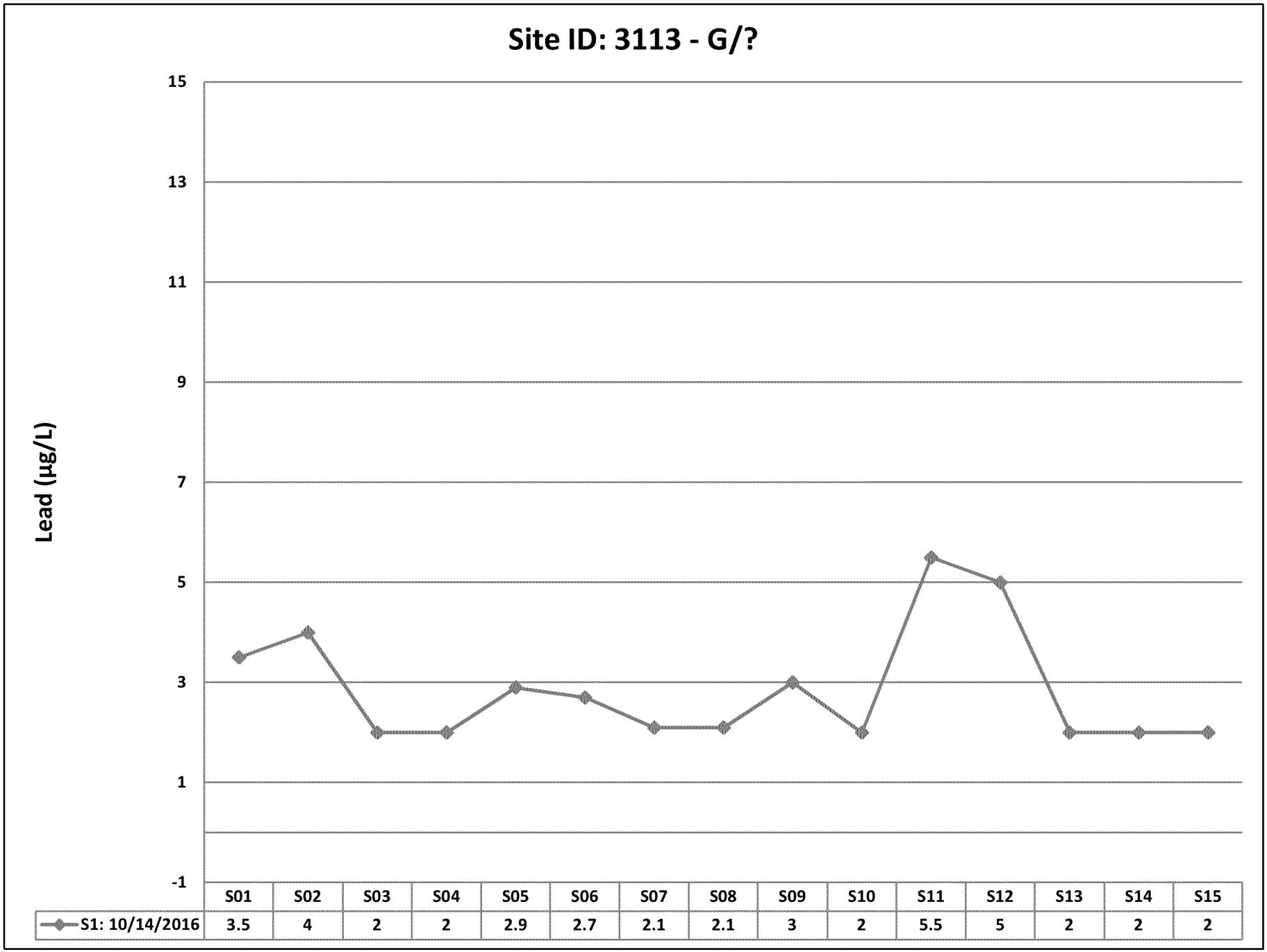

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/10/2016 | 3.9 | 2.3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7.6 | 6.2 | 2 | 2 |
| S2: 11/3/2016 | 0.68 | 0.36 | 0.34 | 0.68 | 0.98 | 1.3 | 1.4 | 1.3 | 1.7 | 2.6 | 3.4 | 4 | 2.5 | 0.79 | 0.45 |



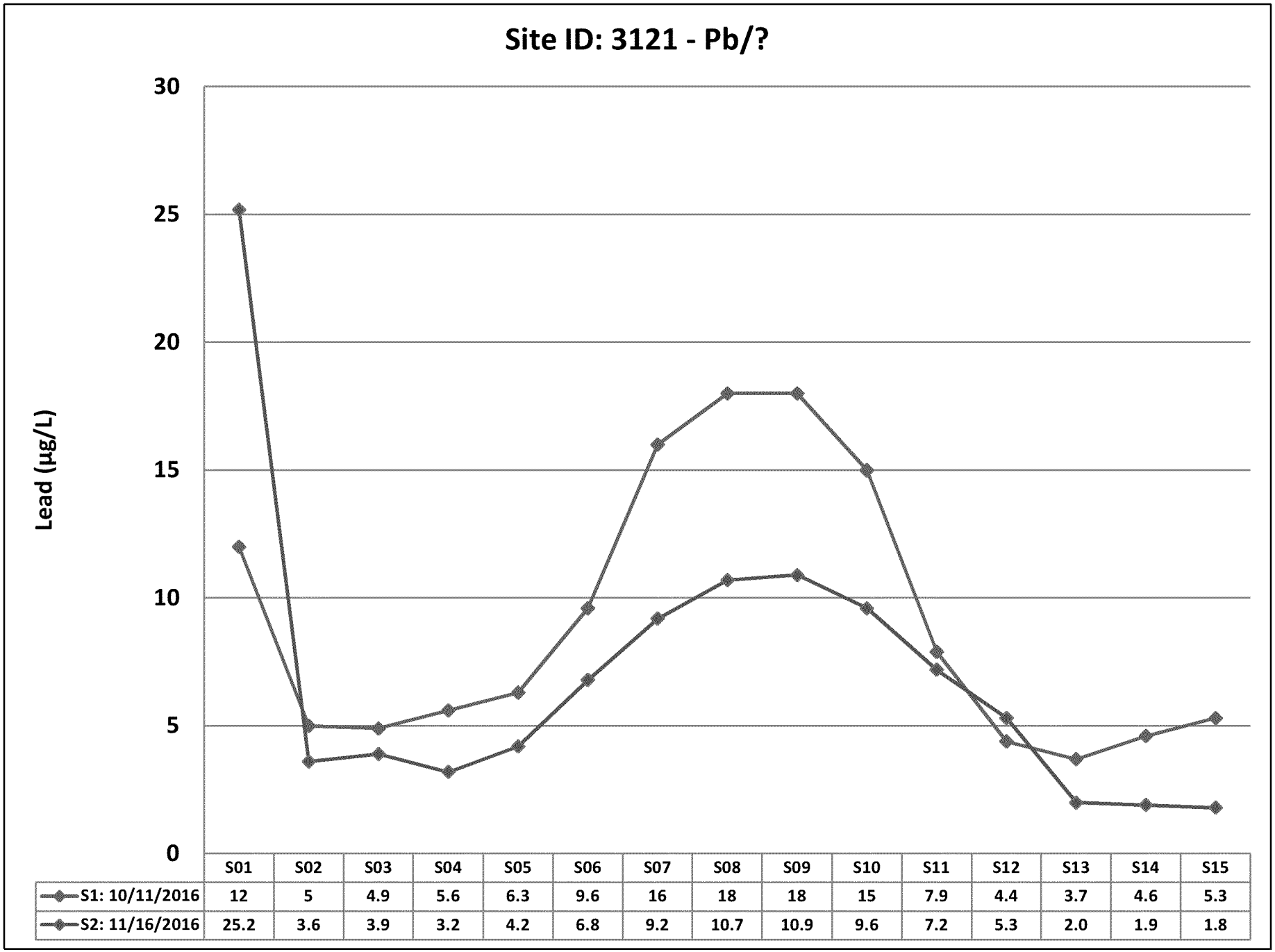

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/29/2016 | 6.8 | 6.5 | 14.3 | 10.7 | 12.1 | 14.9 | 16.8 | 16.6 | 15.9 | 13 | 11.2 | 9.6 | 6.5 | 6 | 5.8 | 5.7 | 5.5 | 5.7 |
| S2: 12/02/2016 | 5.4 | 4.8 | 6 | 4.7 | 3.9 | 4 | 3.9 | 4.1 | 4 | 3.7 | 3.5 | 3.2 | 2.7 | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 |



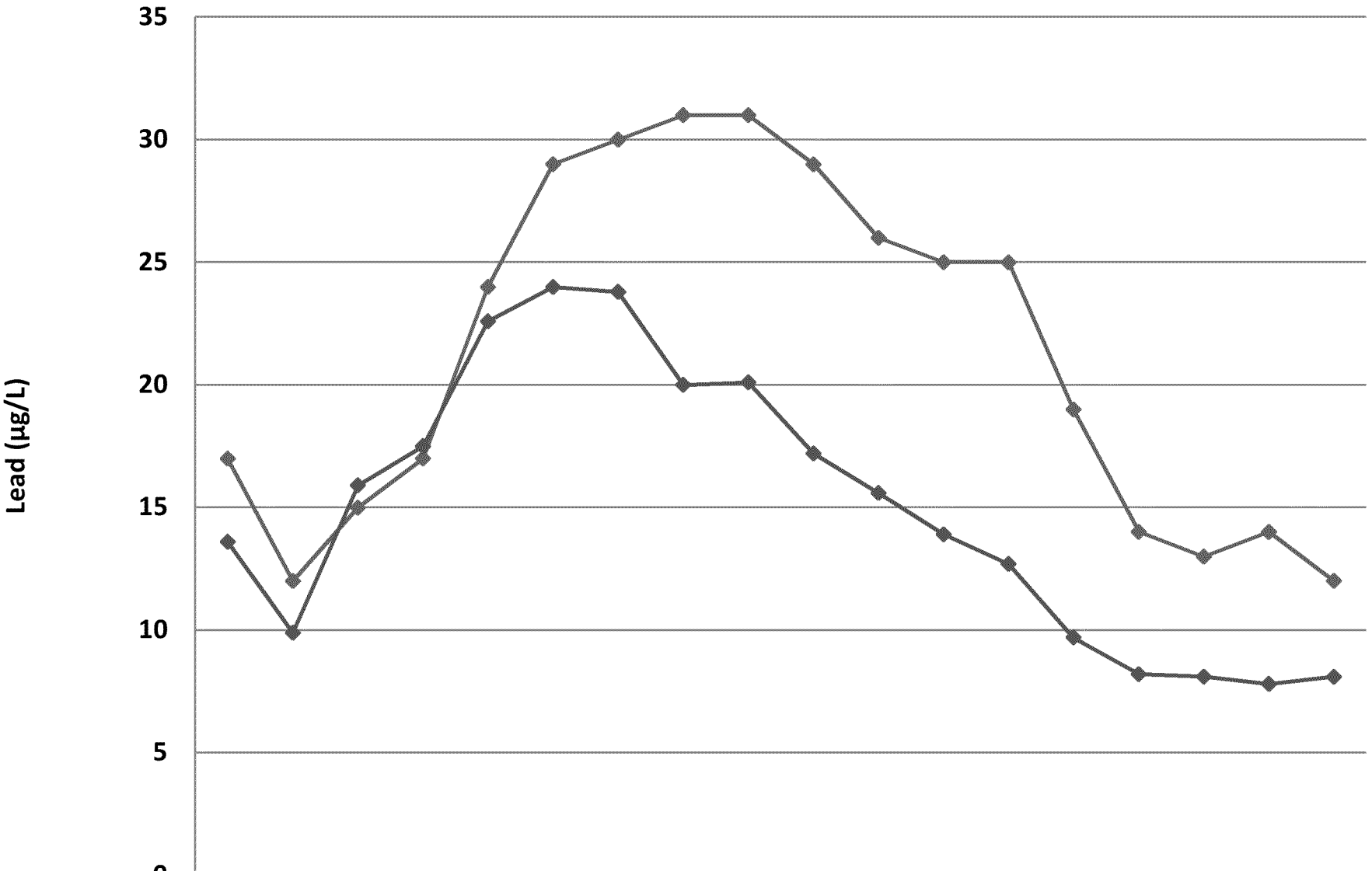

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 11/10/2016 | 22.8 | 8.4 | 11.0 | 11.3 | 13.9 | 12.8 | 11.3 | 15.6 | 52.5 | 58.5 | 50.3 | 36.1 | 16.2 | 7.6 | 6.3 |



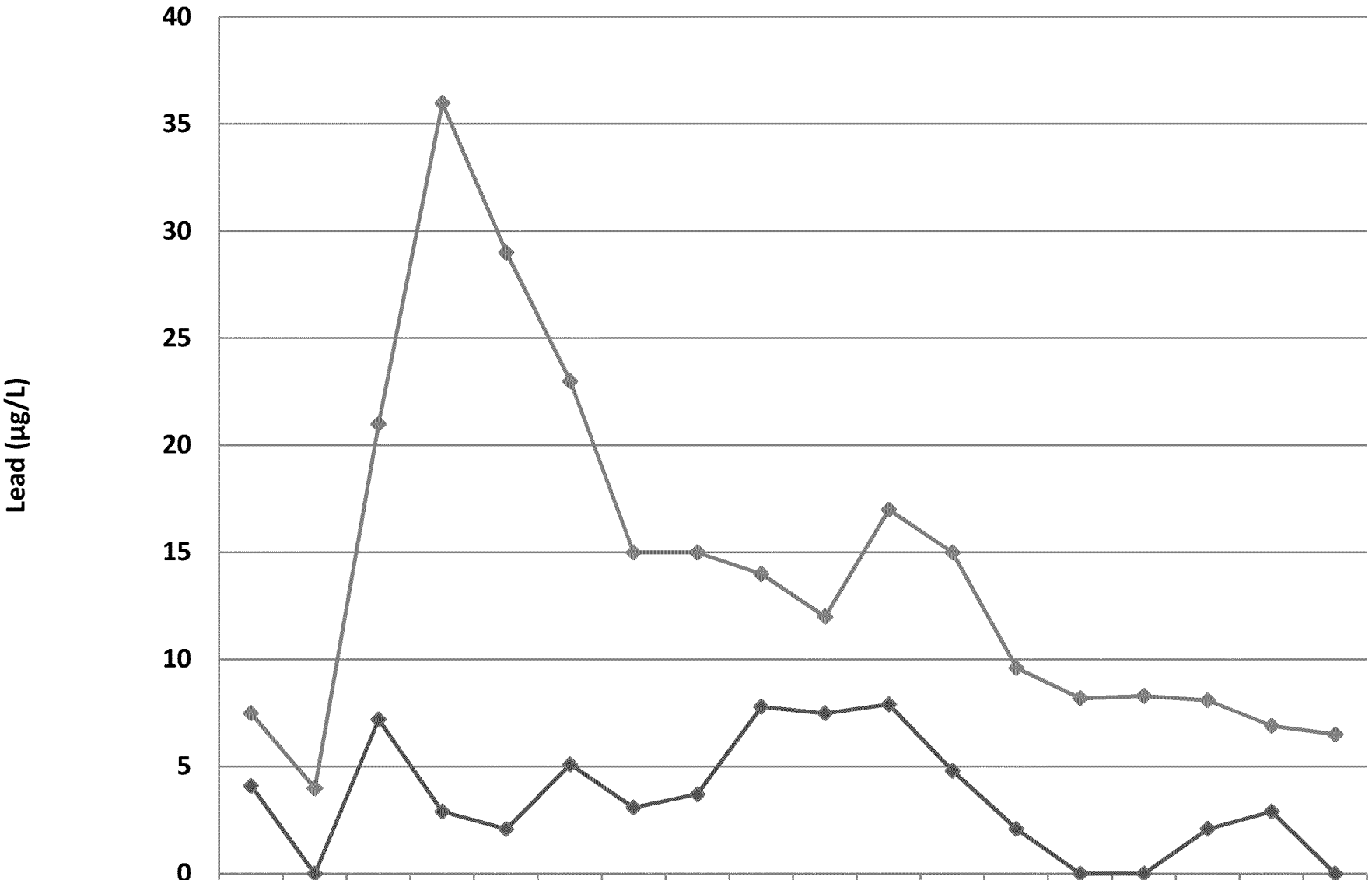

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/14/2016 | 3.5 | 4 | 2 | 2 | 2.9 | 2.7 | 2.1 | 2.1 | 3 | 2 | 5.5 | 5 | 2 | 2 | 2 |



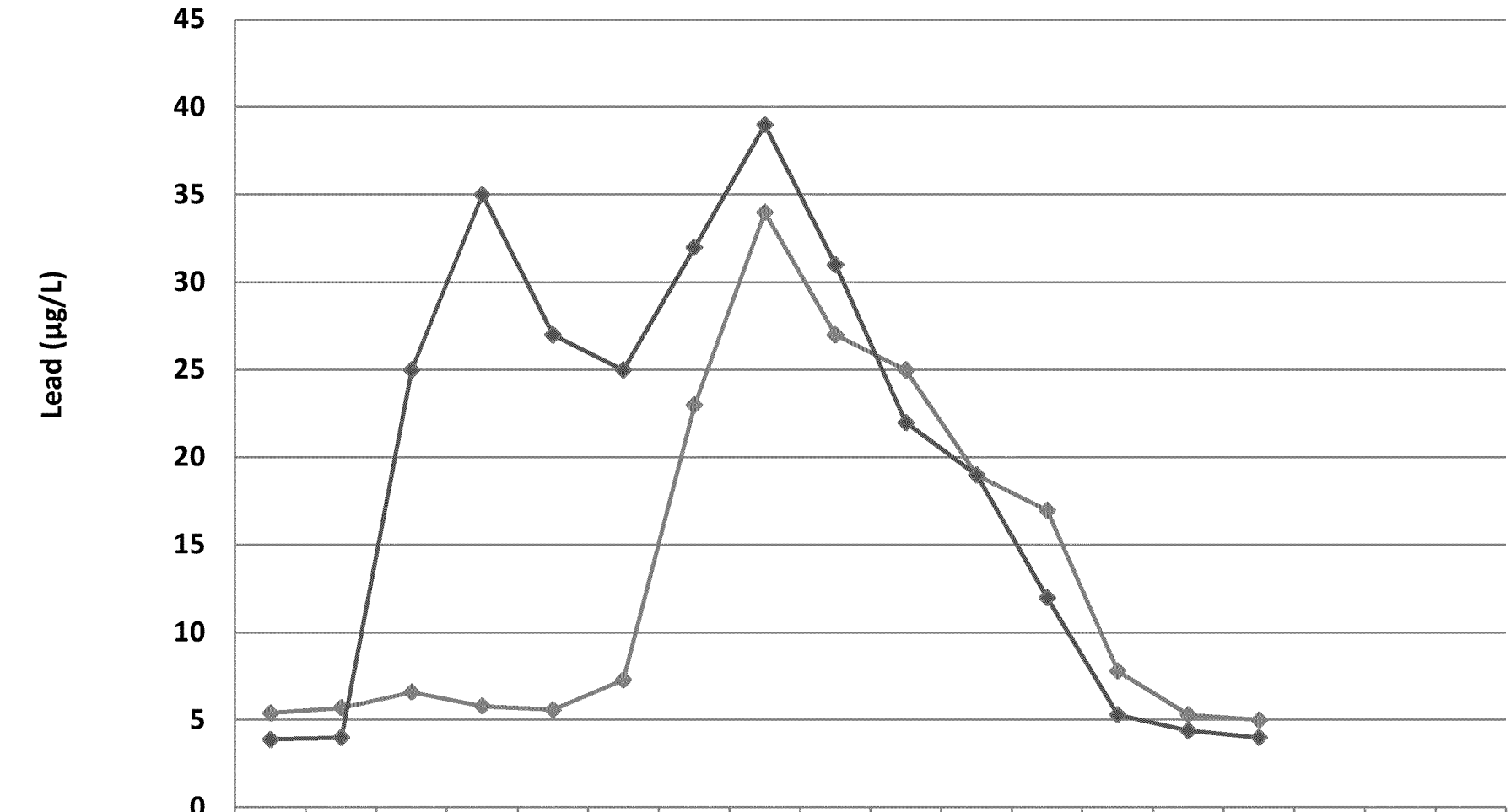

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/11/2016 | 12 | 5 | 4.9 | 5.6 | 6.3 | 9.6 | 16 | 18 | 18 | 15 | 7.9 | 4.4 | 3.7 | 4.6 | 5.3 |
| S2: 11/16/2016 | 25.2 | 3.6 | 3.9 | 3.2 | 4.2 | 6.8 | 9.2 | 10.7 | 10.9 | 9.6 | 7.2 | 5.3 | 2.0 | 1.9 | 1.8 |



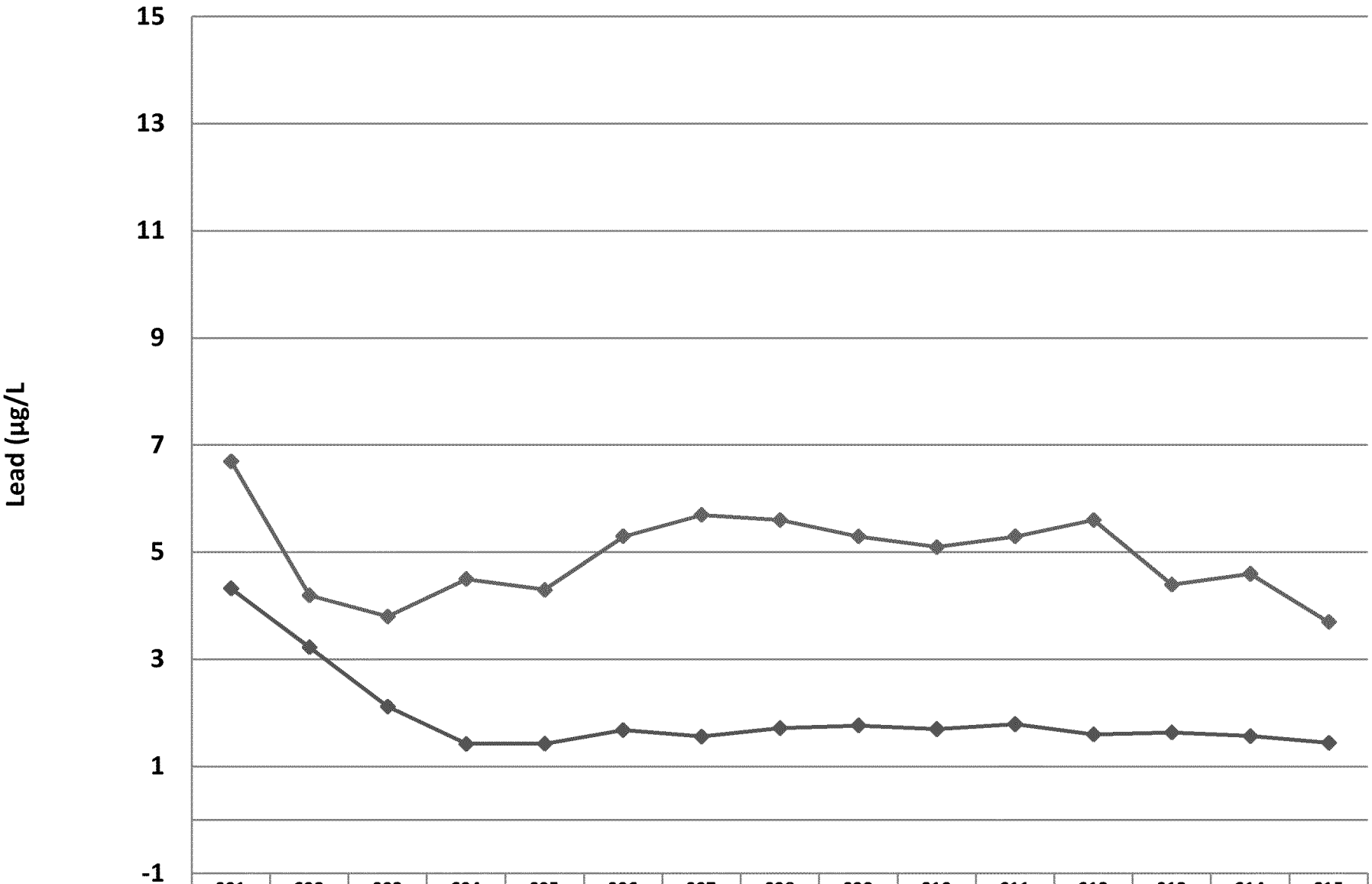

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/12/2016 | 17 | 12 | 15 | 17 | 24 | 29 | 30 | 31 | 31 | 29 | 26 | 25 | 25 | 19 | 14 | 13 | 14 | 12 |
| S2: 11/3/2016 | 13.6 | 9.9 | 15.9 | 17.5 | 22.6 | 24 | 23.8 | 20 | 20.1 | 17.2 | 15.6 | 13.9 | 12.7 | 9.7 | 8.2 | 8.1 | 7.8 | 8.1 |



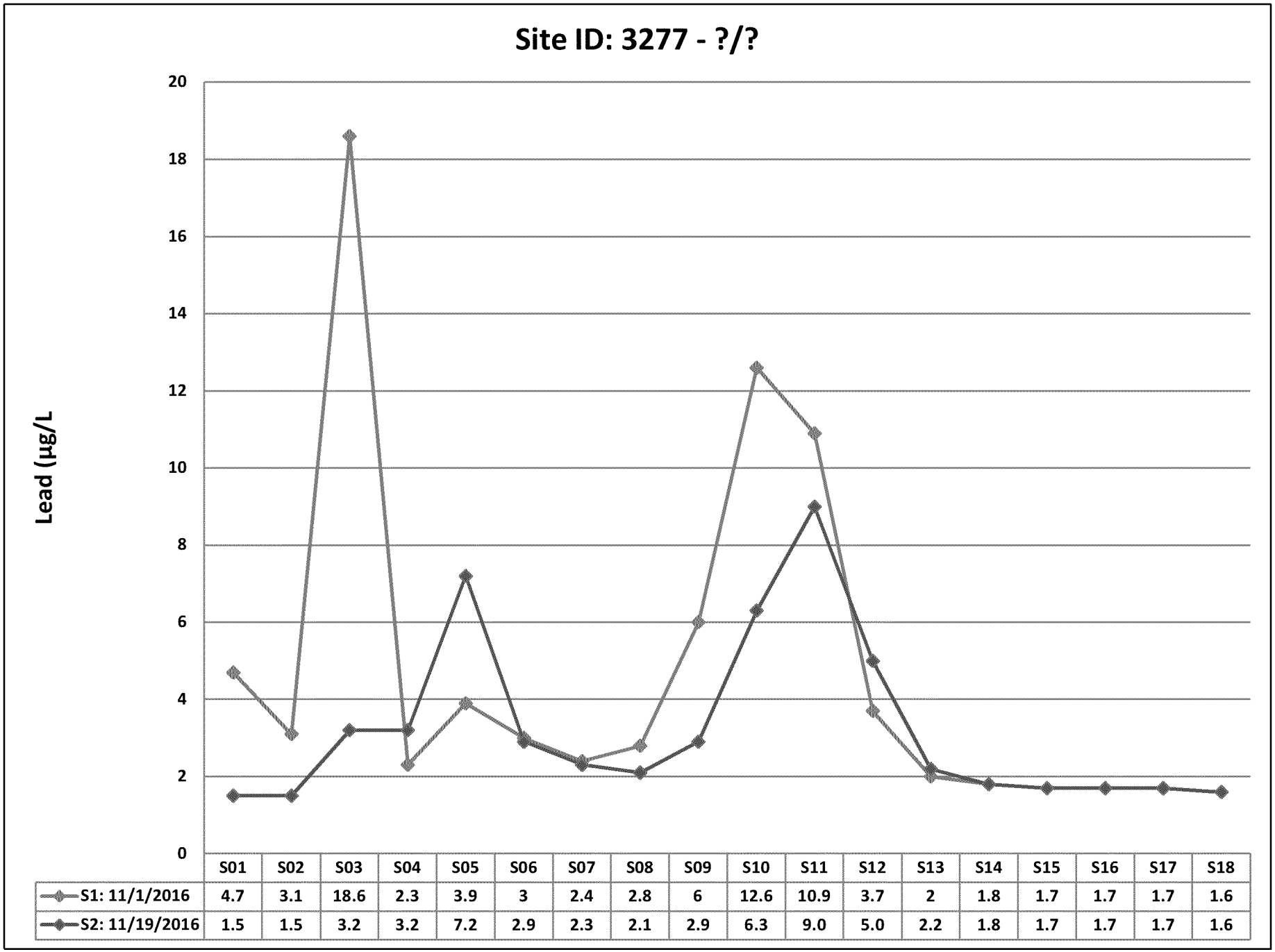

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/6/2016 | 7.5 | 4 | 21 | 36 | 29 | 23 | 15 | 15 | 14 | 12 | 17 | 15 | 9.6 | 8.2 | 8.3 | 8.1 | 6.9 | 6.5 |
| S2: 10/18/2016 | 4.1 | 0 | 7.2 | 2.9 | 2.1 | 5.1 | 3.1 | 3.7 | 7.8 | 7.5 | 7.9 | 4.8 | 2.1 | 0 | 0 | 2.1 | 2.9 | 0 |




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 9/28/2016 | 5.4 | 5.7 | 6.6 | 5.8 | 5.6 | 7.3 | 23.0 | 34.0 | 27.0 | 25.0 | 19.0 | 17.0 | 7.8 | 5.3 | 5.0 | | | |
| S2: 10/10/2016 | 3.9 | 4 | 25 | 35 | 27 | 25 | 32 | 39 | 31 | 22 | 19 | 12 | 5.3 | 4.4 | 4 | | | |



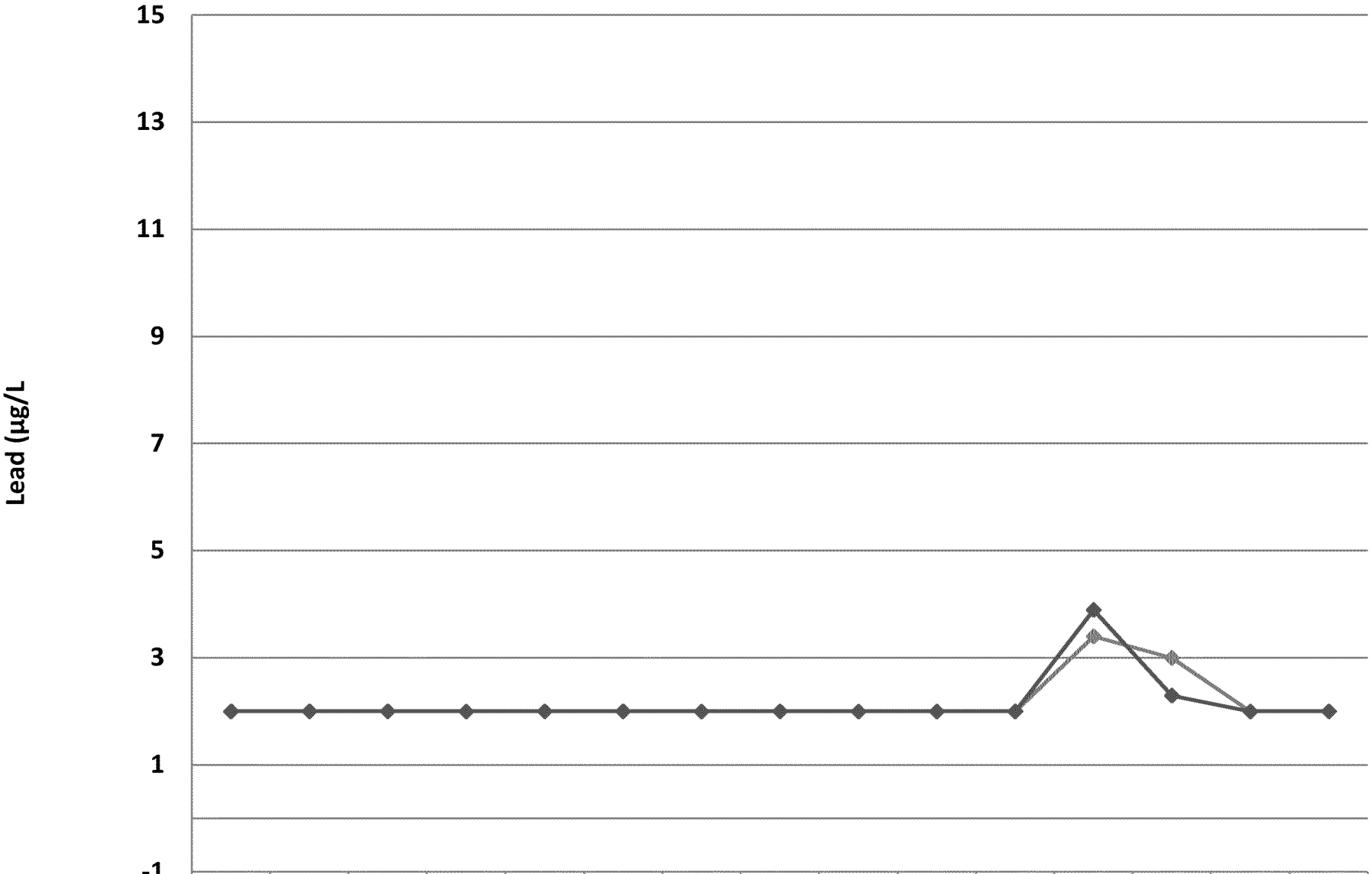

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/17/2016 | 6.7 | 4.2 | 3.8 | 4.5 | 4.3 | 5.3 | 5.7 | 5.6 | 5.3 | 5.1 | 5.3 | 5.6 | 4.4 | 4.6 | 3.7 |
| S2: 12/17/2016 | 4.33 | 3.23 | 2.12 | 1.42 | 1.43 | 1.68 | 1.56 | 1.72 | 1.77 | 1.7 | 1.79 | 1.6 | 1.64 | 1.57 | 1.44 |



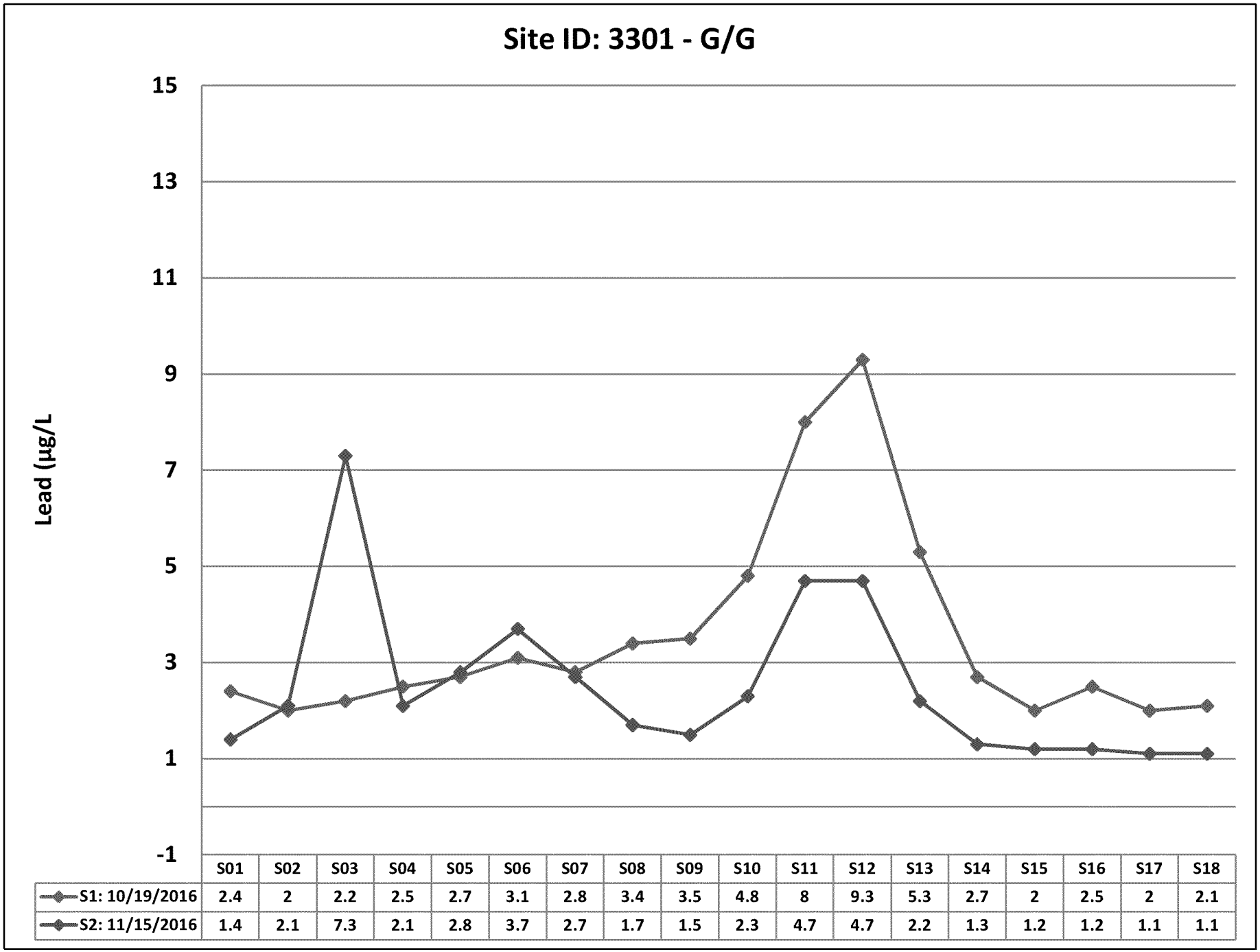

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 11/1/2016 | 4.7 | 3.1 | 18.6 | 2.3 | 3.9 | 3 | 2.4 | 2.8 | 6 | 12.6 | 10.9 | 3.7 | 2 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 |
| S2: 11/19/2016 | 1.5 | 1.5 | 3.2 | 3.2 | 7.2 | 2.9 | 2.3 | 2.1 | 2.9 | 6.3 | 9.0 | 5.0 | 2.2 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 |

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/15/2016 | 3.0 | 2 | 10 | 9.4 | 5.3 | 5.8 | 9.2 | 8.5 | 8.6 | 6.7 | 4.2 | 2.6 | 2 | 2 | 2 |
| S2: 11/29/2016 | 2.3 | 2.4 | 2.6 | 2.7 | 2.7 | 3.6 | 3.5 | 3.4 | 3.4 | 3.2 | 2.6 | 1.9 | 1.3 | 1.2 | 1.1 |

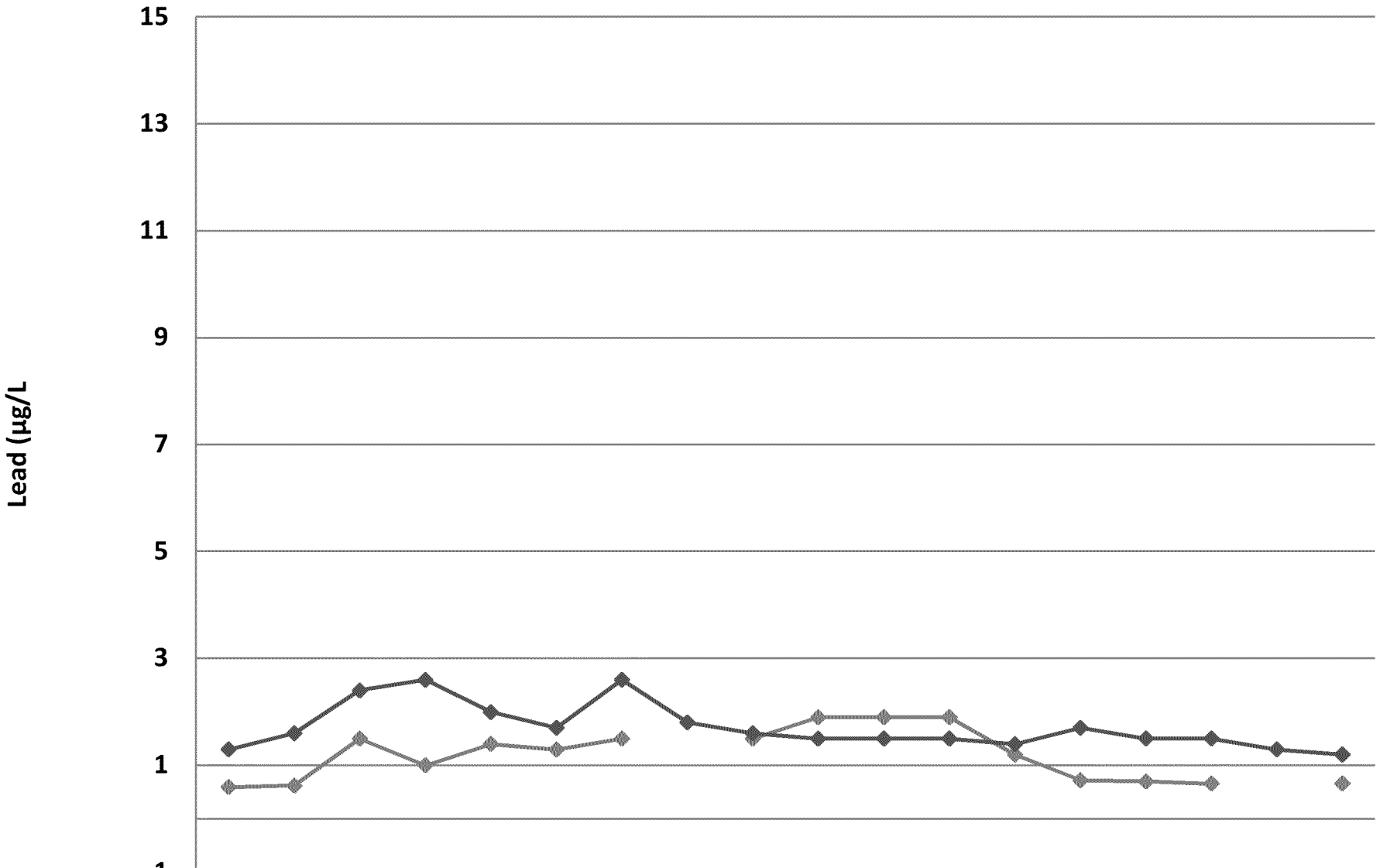
# Site ID: 3300 - Cu/G



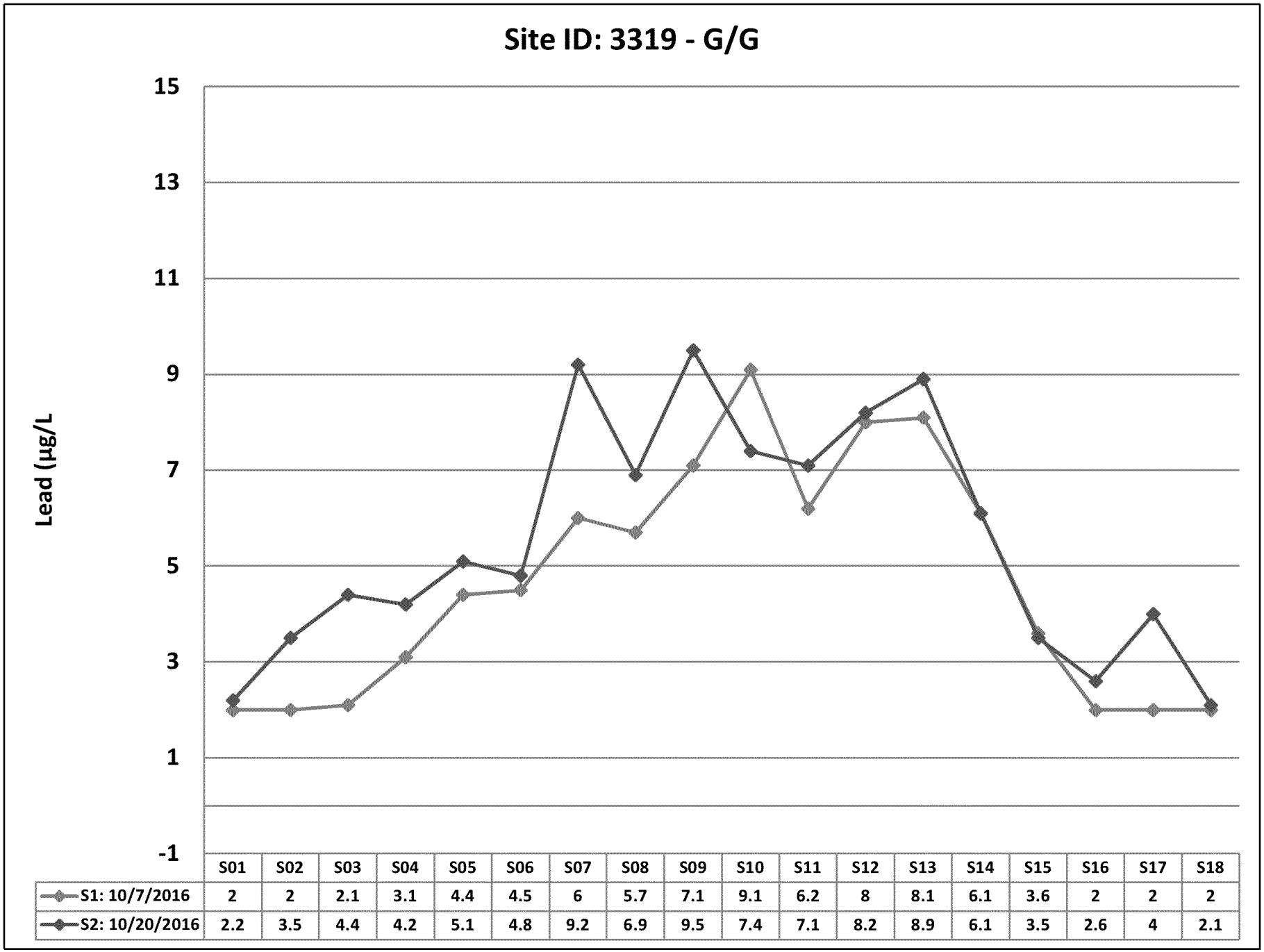

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/08/2016 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3.4 | 3.0 | 2 | 2 |
| S2: 10/22/2016 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3.9 | 2.3 | 2 | 2 |



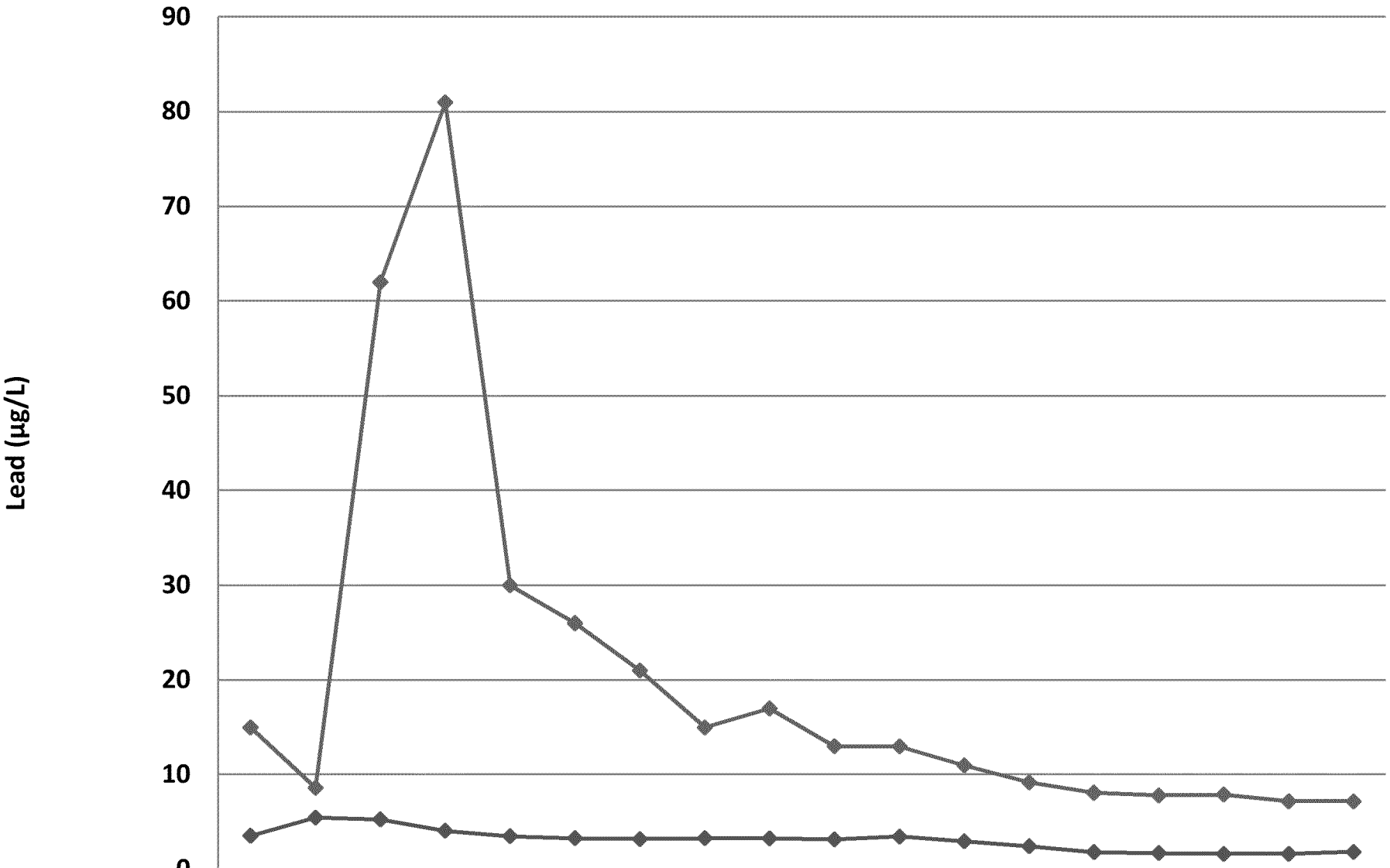

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/19/2016 | 2.4 | 2 | 2.2 | 2.5 | 2.7 | 3.1 | 2.8 | 3.4 | 3.5 | 4.8 | 8 | 9.3 | 5.3 | 2.7 | 2 | 2.5 | 2 | 2.1 |
| S2: 11/15/2016 | 1.4 | 2.1 | 7.3 | 2.1 | 2.8 | 3.7 | 2.7 | 1.7 | 1.5 | 2.3 | 4.7 | 4.7 | 2.2 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 |



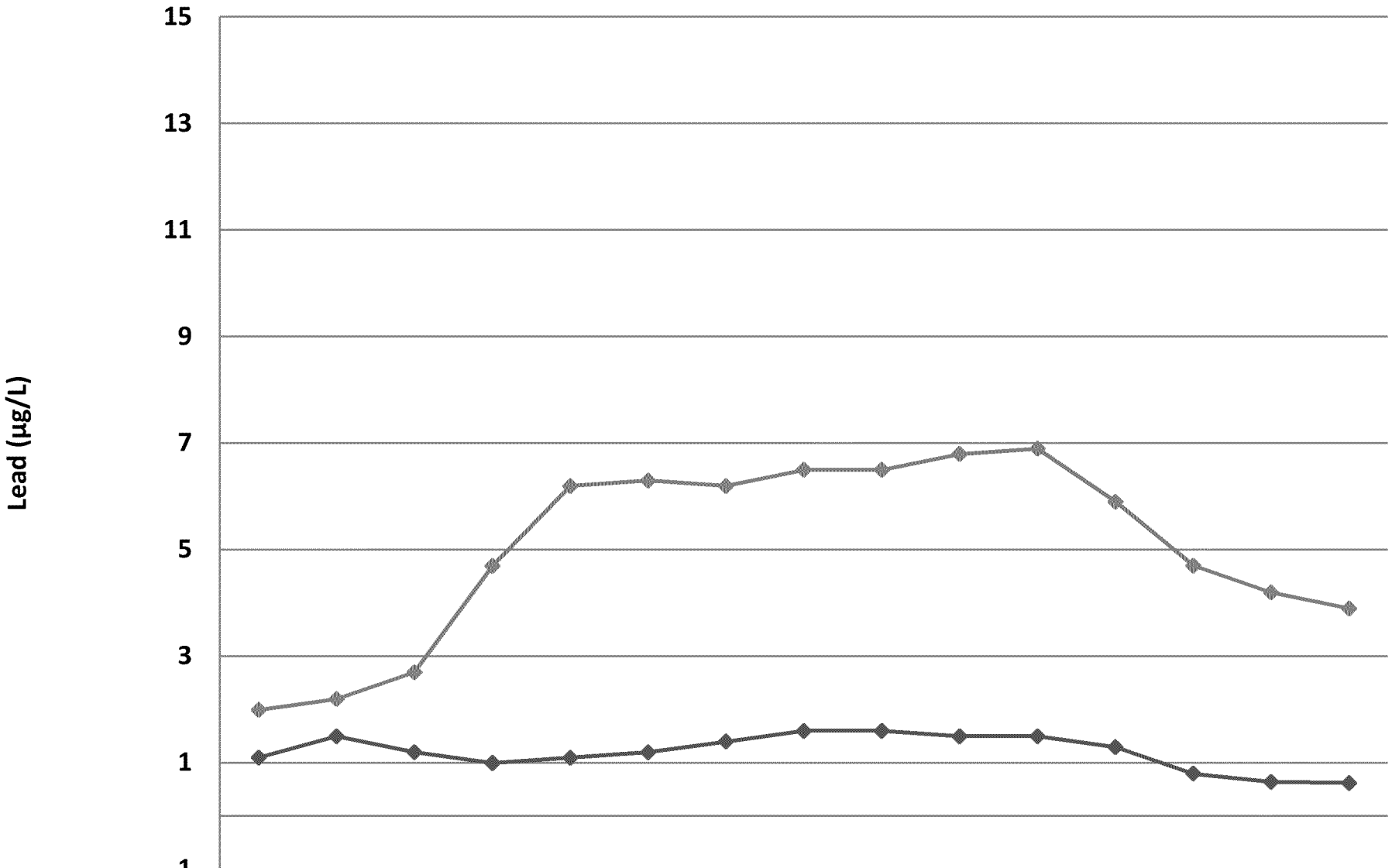

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1:10/25/2016 | 0.59 | 0.62 | 1.5 | 1 | 1.4 | 1.3 | 1.5 | | 1.5 | 1.9 | 1.9 | 1.9 | 1.2 | 0.72 | 0.7 | 0.66 | | 0.66 |
| S2: 11/13/2016 | 1.3 | 1.6 | 2.4 | 2.6 | 2.0 | 1.7 | 2.6 | 1.8 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.7 | 1.5 | 1.5 | 1.3 | 1.2 |




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/7/2016 | 2 | 2 | 2.1 | 3.1 | 4.4 | 4.5 | 6 | 5.7 | 7.1 | 9.1 | 6.2 | 8 | 8.1 | 6.1 | 3.6 | 2 | 2 | 2 |
| S2: 10/20/2016 | 2.2 | 3.5 | 4.4 | 4.2 | 5.1 | 4.8 | 9.2 | 6.9 | 9.5 | 7.4 | 7.1 | 8.2 | 8.9 | 6.1 | 3.5 | 2.6 | 4 | 2.1 |

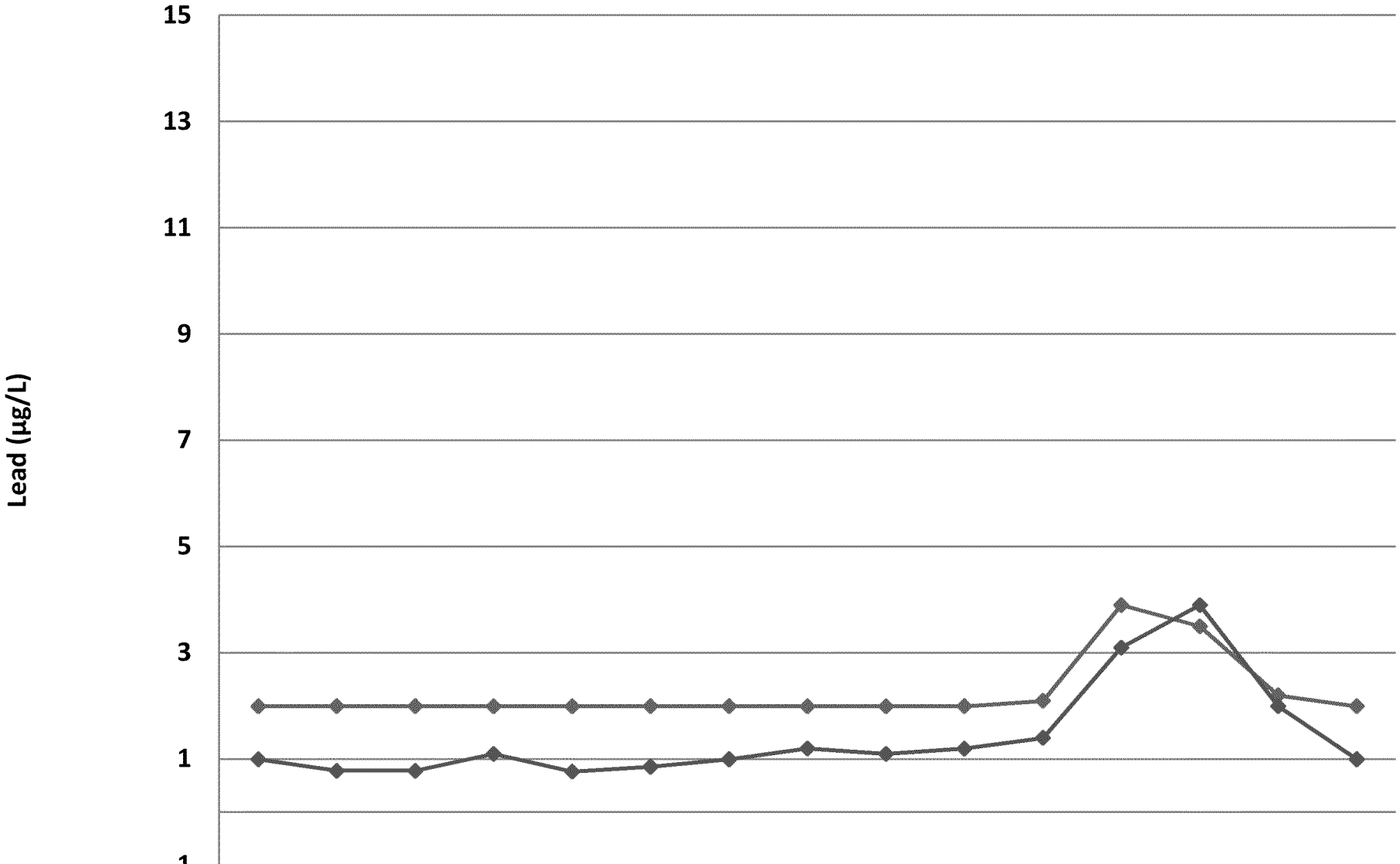



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/10/2016 | 15 | 8.6 | 62 | 81 | 30 | 26 | 21 | 15 | 17 | 13 | 13 | 11 | 9.2 | 8.1 | 7.8 | 7.9 | 7.2 | 7.2 |
| S2: 12/13/2016 | 3.56 | 5.45 | 5.28 | 4.08 | 3.53 | 3.32 | 3.2 | 3.3 | 3.28 | 3.17 | 3.47 | 3 | 2.48 | 1.84 | 1.72 | 1.65 | 1.65 | 1.86 |

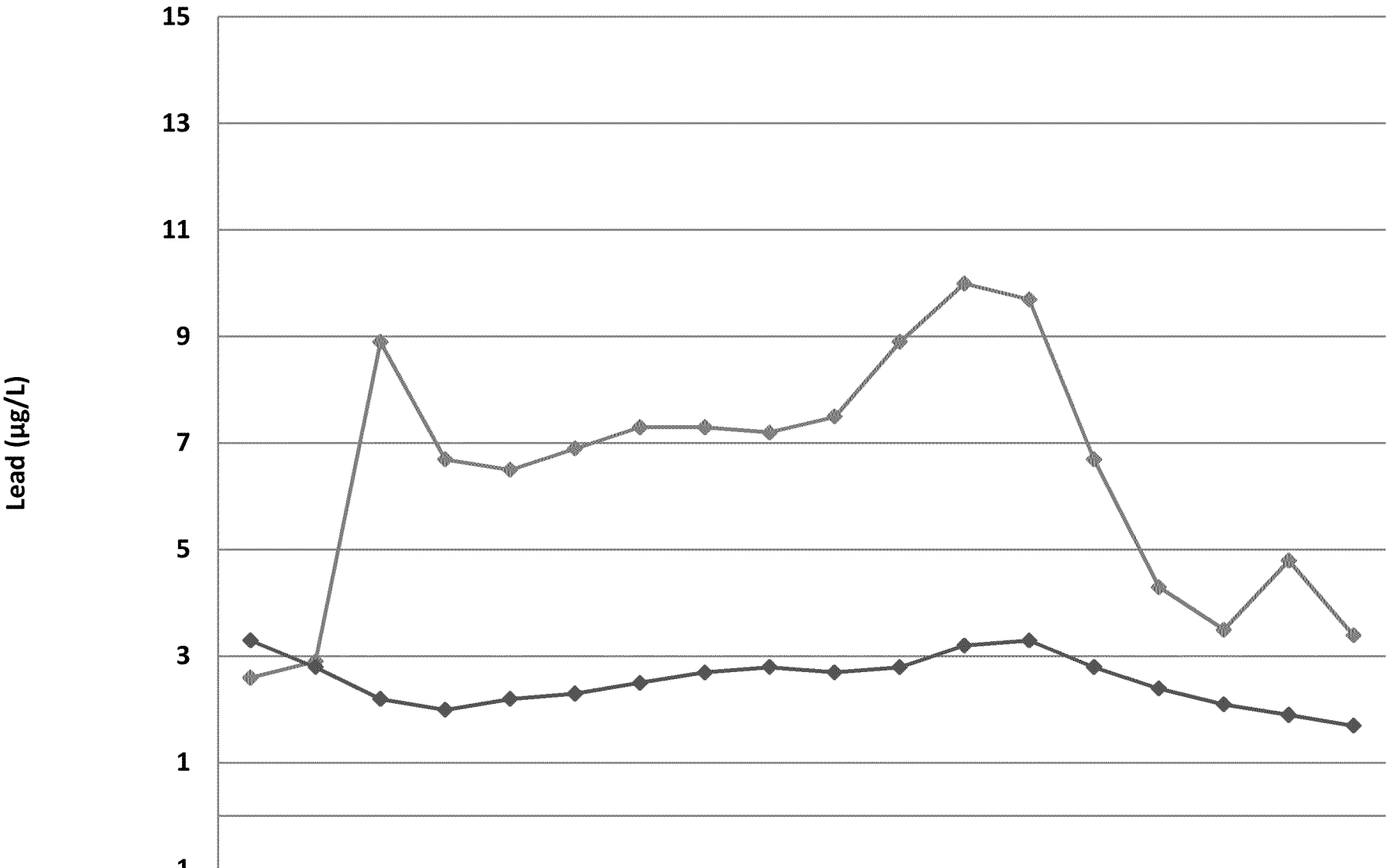



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/13/2016 | 2 | 2.2 | 2.7 | 4.7 | 6.2 | 6.3 | 6.2 | 6.5 | 6.5 | 6.8 | 6.9 | 5.9 | 4.7 | 4.2 | 3.9 |
| S2: 12/01/2016 | 1.1 | 1.5 | 1.2 | 1 | 1.1 | 1.2 | 1.4 | 1.6 | 1.6 | 1.5 | 1.5 | 1.3 | 0.8 | 0.64 | 0.62 |

# Site ID: 3368 - G/G

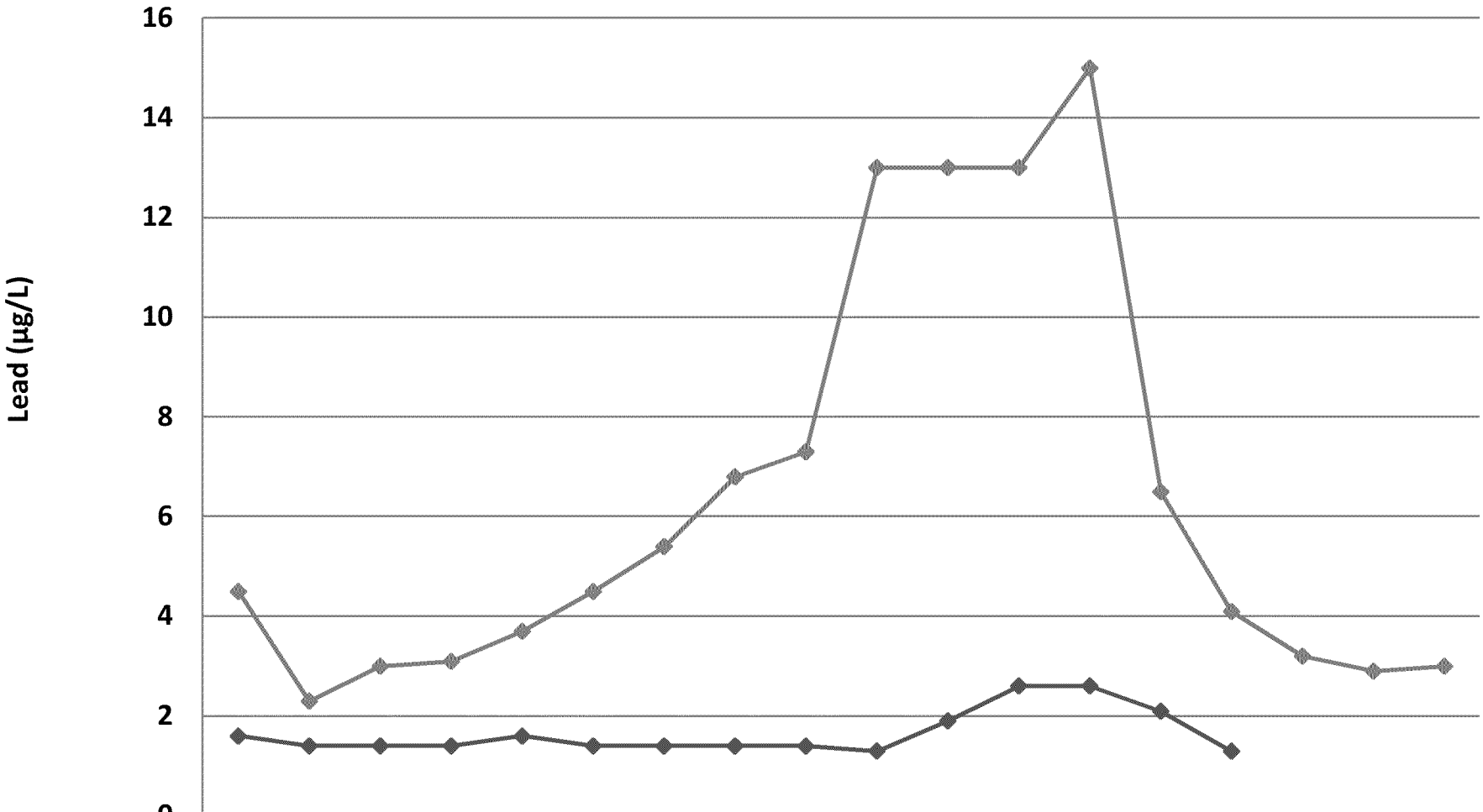



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/13/2016 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | 3.9 | 3.5 | 2.2 | 2 |
| S2: 12/07/2016 | 1 | 0.78 | 0.78 | 1.1 | 0.77 | 0.86 | 1 | 1.2 | 1.1 | 1.2 | 1.4 | 3.1 | 3.9 | 2 | 1 |



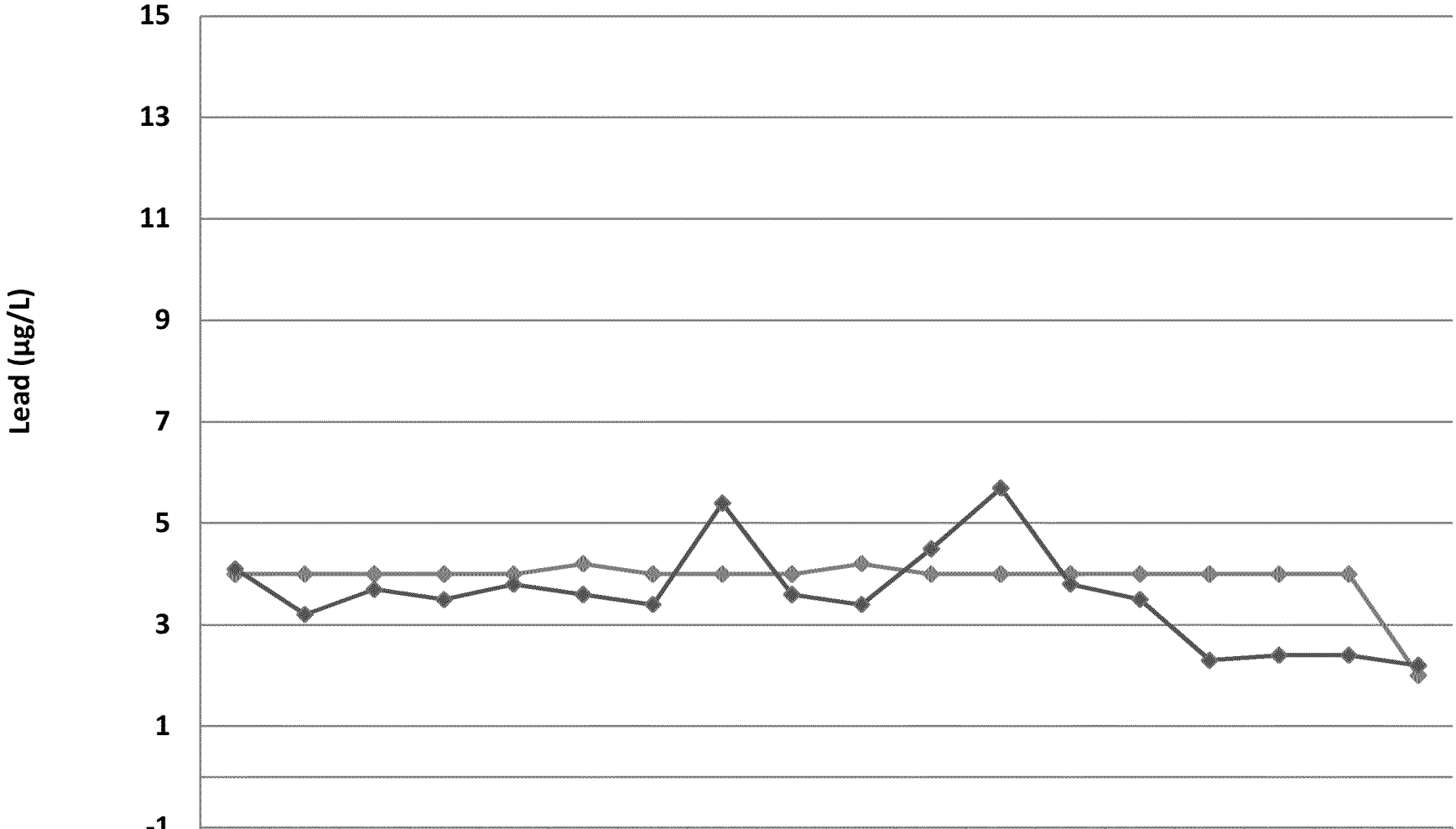

| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/17/2016 | 2.6 | 2.9 | 8.9 | 6.7 | 6.5 | 6.9 | 7.3 | 7.3 | 7.2 | 7.5 | 8.9 | 10 | 9.7 | 6.7 | 4.3 | 3.5 | 4.8 | 3.4 |
| S2: 12/06/2016 | 3.3 | 2.8 | 2.2 | 2 | 2.2 | 2.3 | 2.5 | 2.7 | 2.8 | 2.7 | 2.8 | 3.2 | 3.3 | 2.8 | 2.4 | 2.1 | 1.9 | 1.7 |

# Site ID: 3406 - G/?

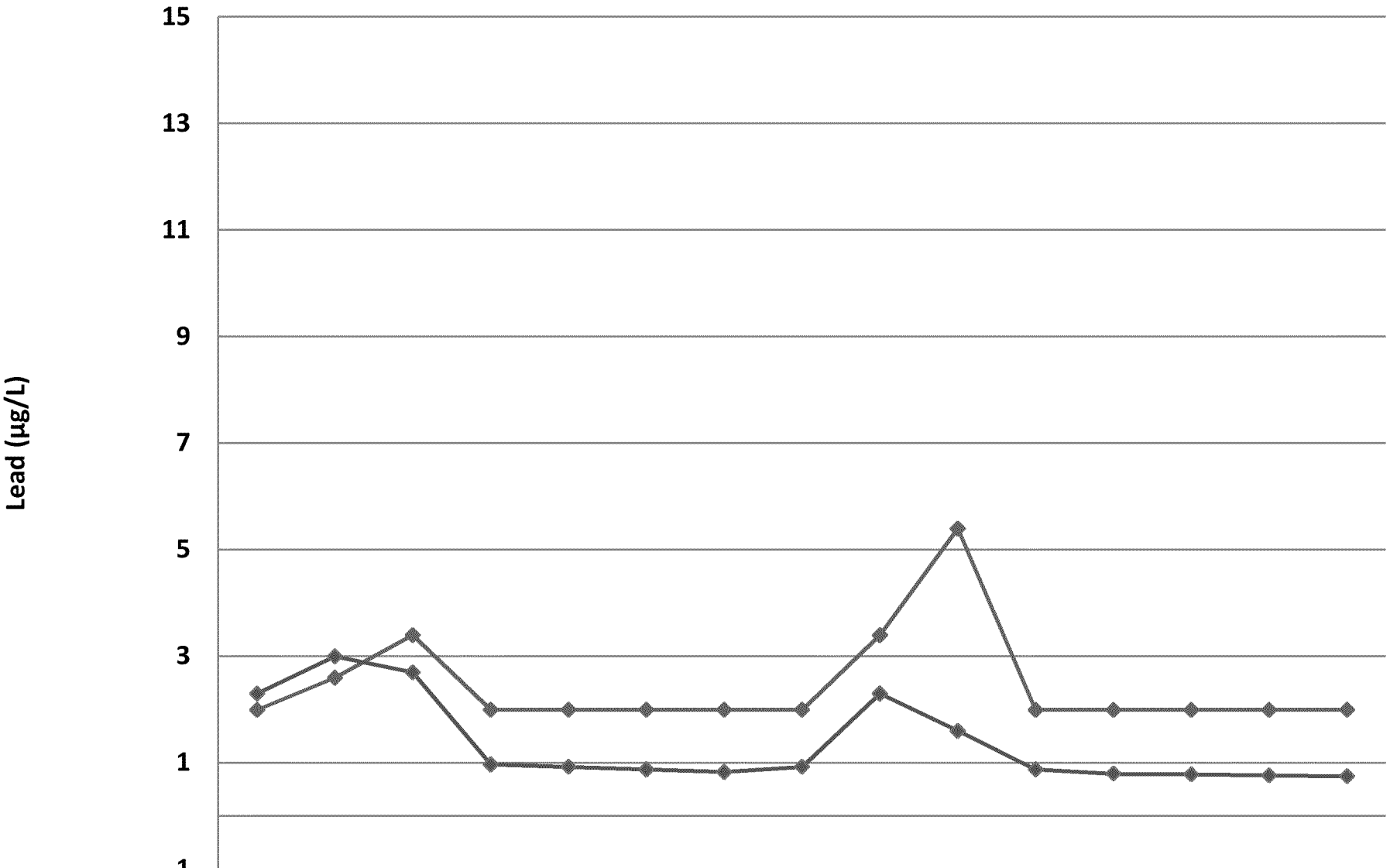



| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/7/2016 | 4.5 | 2.3 | 3 | 3.1 | 3.7 | 4.5 | 5.4 | 6.8 | 7.3 | 13 | 13 | 13 | 15 | 6.5 | 4.1 | 3.2 | 2.9 | 3 |
| S2: 12/02/2016 | 1.6 | 1.4 | 1.4 | 1.4 | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.9 | 2.6 | 2.6 | 2.1 | 1.3 | | | |

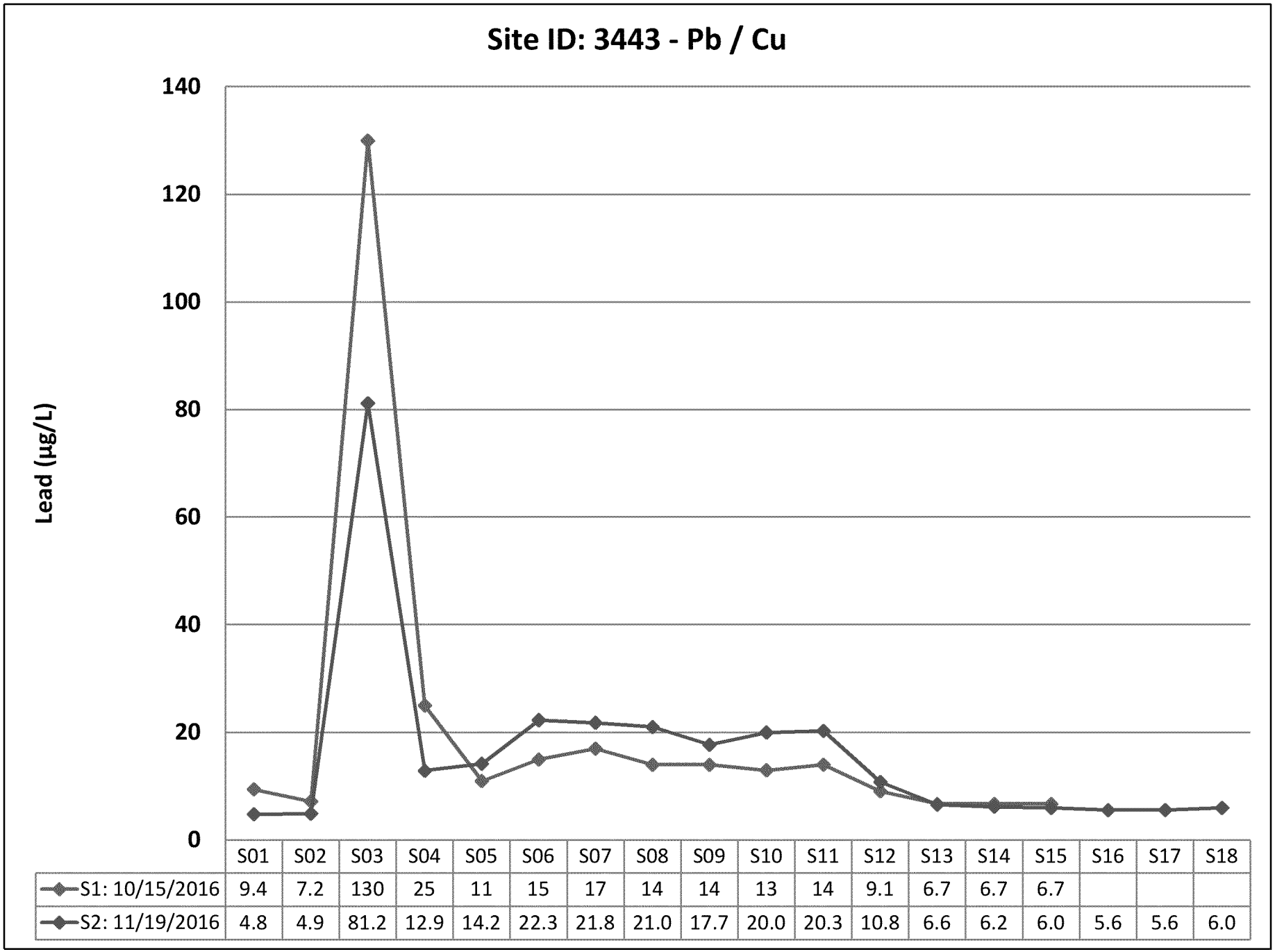
# Site ID: 3434 - G/G




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/6/2016 | 4 | 4 | 4 | 4 | 4 | 4.2 | 4 | 4 | 4 | 4.2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 |
| S2: 10/18/2016 | 4.1 | 3.2 | 3.7 | 3.5 | 3.8 | 3.6 | 3.4 | 5.4 | 3.6 | 3.4 | 4.5 | 5.7 | 3.8 | 3.5 | 2.3 | 2.4 | 2.4 | 2.2 |




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/14/2016 | 2 | 2.6 | 3.4 | 2 | 2 | 2 | 2 | 2 | 3.4 | 5.4 | 2 | 2 | 2 | 2 | 2 |
| S2: 11/3/2016 | 2.3 | 3 | 2.7 | 0.97 | 0.93 | 0.88 | 0.83 | 0.93 | 2.3 | 1.6 | 0.88 | 0.8 | 0.79 | 0.77 | 0.75 |




| | S01 | S02 | S03 | S04 | S05 | S06 | S07 | S08 | S09 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1: 10/15/2016 | 9.4 | 7.2 | 130 | 25 | 11 | 15 | 17 | 14 | 14 | 13 | 14 | 9.1 | 6.7 | 6.7 | 6.7 | | | |
| S2: 11/19/2016 | 4.8 | 4.9 | 81.2 | 12.9 | 14.2 | 22.3 | 21.8 | 21.0 | 17.7 | 20.0 | 20.3 | 10.8 | 6.6 | 6.2 | 6.0 | 5.6 | 5.6 | 6.0 |