# BUZZI UNICEM USA

**Independence Plant**

COPY

February 26, 2016

Mr. Kenneth Herstowski
Project Manager
RCRA Corrective Action & Permits Branch
EPA Region 7
11201 Renner Blvd.
Lenexa, KS 66219

Subject: Heartland Cement Company, dba Buzzi Unicem USA, Independence, Kansas
RCRA ID #KSD98073999, RCRA HSWA Permit
Correctives Measures Implementation Annual Report, 2015

Mr. Herstowski:

Enclosed is a Correctives Measures Implementation Annual Report per section III.L.4 of the RCRA HSWA Permit. The report covers the period of January 1, 2015 through December 31, 2015.

Please contact me at 636-931-2511 if you need additional information or have any questions.

Tom Rader
Corporate Environmental Manager
Buzzi Unicem USA, Inc.
thomas.rader@buzziunicemusa.com

cc
Mostafa Kamal, KDHE

RCRA
548514

February 25, 2016

Corrective Measure Implementation Annual Report
Heartland Cement Company dba Buzzi Unicem USA
RCRA HSWA Permit, ID, KSD980739999

Heartland Cement Company dba Buzzi Unicem USA (Heartland) formerly operated a portland cement manufacturing facility in Independence, Kansas. In the cement manufacturing operations, hazardous waste fuels were burned in the cement kilns. To facilitate the use of the waste fuels, hazardous waste was received, stored and blended prior to use in the kilns as a fuel. A permit to store and handle the waste was issued in 1989. As a condition for the permit a RCRA Facility Assessment (RFA) was completed. As a result of the RFA a number of Solid Waste Management Units (SWMUs) were identified. The permit required that a RCRA Facility Investigation (RFI) be conducted and additional SWMUs were identified. In July 2013, EPA renewed the RCRA HSWA Permit for the purpose of continuing corrective actions that were still in progress. The permit requires an Annual Corrective Measures Implementation Report be submitted each year by March 1. This report covers the reporting period of January 1, 2015 to December 31, 2015

Corrective measures have been completed on all of the SWMUs and AOCs. Engineering controls and groundwater monitoring programs are required for the CKD landfill (SWMU 11) and the industrial landfill (SWMU 10). Under the renewed RCRA permit, EPA maintains oversight for SWMU 11 but KDHE will maintain oversight for SWMU 10.

## Engineering Control

### SWMU 11 (CKD Landfill)

Capping of the CKD landfill was completed in March 2013 and the final closure report was approved by KDHE in July 2013. Periodic inspections of the cap is performed at least twice a year.
Maintenance performed in 2015 included replacement of about 1800 cubic yards of soil on an eroded area located on the north-west edge of the landfill. The area was re-seeded and vegetation re-established.

### SWMU 10 (Industrial Landfill)

Capping of the industrial landfill was completed in March 2014 and a final closure report was approved by KDHE in September 2014. Periodic inspection is performed at least twice a year and no maintenance was required.

## Institutional Control for SWMU 10 and SWMU 11

Restrictive covenants were filed with Montgomery County, Kansas Register of Deeds in September 2011 identifying the parcels of land containing the landfills. The land use restrictions in the covenant require any use of the identified property must be approved by KDHE and that no use can disturb the clay and vegetative soil covers that have been placed over the landfills.

## Monitoring and Performance Evaluation

SWMU 11 is comprised of two CKD landfills known as the Old CKD landfill and the New CKD landfill. A ground water monitoring plan for SWMU 11 was submitted to EPA in September 2013. In October 2015, EPA provided comments to the monitoring plan and requested some revisions to the plan including addition of another groundwater monitoring well to the area designated as New CKD landfill. A Landfill Cap Maintenance Plan was also requested.

The new well, designated as NLGW-4 was drilled on December 11, 2015. A Landfill Cap Maintenance Plan (SWMU 11) was developed and the requested revisions were made to the Groundwater Monitoring Plan (SWMU

**1765 Limestone Rd • P. O. Box 428 • Independence, KS 67301 • Telephone: 620.331.0200 • Fax: 620.331.3890**

11). The Plans were submitted to EPA and KDHE on December 3, 2015 along with estimated post closure cost for the SWMU 11.

Groundwater samples for the New Kiln Dust Landfill and the Industrial Landfill were collected and analyzed in February and in August 2015. The February sample still indicated high levels of arsenic attributed to the disturbed landfill but the August samples indicated the arsenic was back to below the MCL of 10 μg/l. Ground water sampling of five monitoring wells in the "Old CKD landfill portion of SWMU 11 will begin in 2016.

**Next Actions**

Finalize financial assurance instrument for post closure costs.
Finalize any revisions to Ground Water Monitoring Plan.
Complete Groundwater monitoring activity.
Complete Landfill inspections and any needed maintenance.

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp ° C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **New Kiln Dust Landfill Well 1** | | | | (NLGW-1) | | | | | | | | | | | | | | | | | | | | | | | |
| 12/17/2004 | 11.71 | | 6.6 | 2400 | 16 | ND | ND | 181 | ND | ND | 362000 | 9.2 | ND | ND | ND | 8.19 | 1860 | ND | ND | 106000 | 16.4 | ND | ND | 1340 | 390 | 165 | 421 |
| 1/21/2005 | 10.35 | | 6.8 | 2700 | 13 | ND | ND | 253 | ND | ND | 382000 | 17 | ND | ND | 13.9 | 17.2 | 2860 | ND | ND | 99400 | ND | 14.0 | ND | 1590 | 377 | 148 | 478 |
| 2/11/2005 | 10.71 | 27.25 | 6.7 | 2500 | 14 | ND | 104 | 260 | ND | ND | 391000 | 15 | ND | ND | ND | 28.1 | 1800 | ND | ND | 103000 | 11.5 | ND | ND | 1740 | 469 | 171 | 413 |
| 2/25/2005 | 10.5 | 27.25 | 6.4 | 2400 | 14 | ND | ND | 227 | ND | ND | 389000 | 12 | ND | ND | 7.42 | 25.5 | 1930 | ND | ND | 107000 | ND | ND | ND | 1700 | 559 | 190 | 456 |
| 3/29/2005 | 10.34 | 27.26 | 6.6 | 2200 | 14 | ND | 30 | 216 | ND | ND | 382000 | 17 | ND | ND | ND | 22.4 | 2270 | ND | ND | 117000 | ND | ND | ND | 1610 | 541 | 206 | 473 |
| 6/24/2005 | 9.91 | 27.2 | 6.5 | 2320 | 16 | ND | ND | 179 | ND | ND | 405000 | 7.2 | ND | ND | ND | 10.3 | 1720 | ND | ND | 11300 | ND | ND | ND | 2340 | 407 | 144 | 433 |
| 8/15/2005 | 17.56 | 27.24 | 6.5 | 2490 | 17 | ND | ND | 296 | ND | ND | 450000 | 41 | 6.1 | 19 | 7.7 | 25.6 | 3550 | ND | ND | 104000 | ND | 22.7 | ND | 1840 | 467 | 150 | 427 |
| 11/18/2005 | 16.96 | | 6.7 | 516 | 17 | ND | ND | 215 | ND | ND | 338000 | 16 | ND | ND | 5.7 | 16.1 | 2440 | ND | ND | 87600 | ND | 11.6 | ND | 1410 | 410 | 136 | 393 |
| 5/26/2006 | 15.87 | | 6.6 | 1874 | 16 | ND | ND | 229 | ND | ND | 341000 | 19 | 5.6 | 10 | 8 | 26 | 3370 | ND | ND | 85100 | ND | 13.6 | ND | 1560 | 346 | 127 | 395 |
| 2/10/2006 | 17.36 | | 6.7 | 2360 | 14 | ND | ND | 181 | ND | ND | 296000 | 10 | ND | ND | ND | 11 | 1660 | ND | ND | 77800 | ND | ND | ND | 1350 | 346 | 126 | 5[illegible] |
| 5/26/2006 | 15.87 | | 6.6 | 1874 | 16 | ND | ND | 229 | ND | ND | 341000 | 19 | 5.6 | 10 | 8 | 26 | 3370 | ND | ND | 85100 | ND | 13.6 | ND | 1560 | 346 | 127 | 395 |
| 8/18/2006 | 19.56 | | 6.6 | 2040 | 18 | ND | ND | 163 | ND | ND | 317000 | 9 | ND | ND | ND | 11 | 1600 | ND | ND | 85300 | ND | ND | ND | 1790 | 356 | 93.9 | 445 |
| 11/17/2006 | 20.65 | | 6.6 | 1934 | 17 | ND | 3.0 | 181 | ND | ND | 307000 | 8 | 3 | 7.1 | 3 | 22 | 1760 | 3.6 | ND | 89400 | ND | 6.3 | 12.7 | 1460 | 294 | 112 | 432 |
| 2/9/2007 | 15.79 | | 6.5 | 1472 | 15 | ND | 15 | 758 | 1.9 | ND | 625000 | 128 | 18 | 51 | 37 | 100 | 6340 | ND | ND | 79300 | ND | 57.9 | 129 | 1110 | 274 | 129 | 430 |
| 6/1/2007 | 9.85 | | 6.2 | 7620 | 16 | ND | ND | 198 | ND | ND | 462000 | 8 | ND | 13 | ND | 18 | 1550 | ND | ND | 146000 | ND | ND | ND | 2890 | 659 | 219 | 395 |
| 8/10/2007 | 15.03 | | 6.6 | 3700 | 19 | ND | ND | 184 | ND | ND | 572000 | 10 | ND | 10 | 7 | 14 | 1800 | ND | ND | 160000 | ND | ND | ND | 2900 | 792 | 249 | 410 |
| 11/30/2007 | 12.41 | 27.4 | 6.6 | 2910 | 17.5 | ND | ND | 137 | ND | ND | 421000 | 10.7 | ND | 22.0 | ND | 11.1 | 1290 | ND | ND | 131000 | ND | ND | ND | 1860 | 581 | 189 | 431 |
| 3/1/2008 | 11.03 | 27.24 | 6.6 | 3370 | 14.5 | ND | ND | 155 | ND | ND | 446000 | 21.2 | ND | 17.4 | ND | | 1120 | ND | | | | ND | ND | 2020 | 661 | 284 | 399 |
| 5/23/2008 | 12.13 | | 6.6 | 2600 | 15.4 | ND | ND | 144 | ND | ND | 474000 | 19.4 | ND | ND | ND | 9.6 | 1500 | ND | ND | 155000 | ND | ND | ND | 3340 | 651 | 293 | 407 |
| 8/15/2008 | 11.18 | | 6.4 | 3550 | 18.8 | ND | ND | 142 | ND | ND | 478000 | 8.4 | ND | ND | 5 | 7.0 | 1200 | ND | ND | 144000 | ND | ND | ND | 6420 | 600 | 358 | 411 |
| 11/24/2008 | 12.91 | | 6.6 | 2970 | 16.5 | ND | ND | 107 | ND | ND | 475000 | 6.2 | ND | ND | ND | ND | 1120 | ND | ND | 137000 | ND | ND | ND | 1700 | 536 | 337 | 403 |
| 2/27/09 | 10.27 | 27.26 | 6.6 | 2580 | 12.6 | ND | ND | 118 | ND | ND | 498000 | 24 | ND | ND | ND | 11.2 | 1150 | ND | ND | 157000 | ND | ND | ND | 2440 | 754 | 445 | 422 |
| 5/22/2009 | 12.06 | 27.26 | 6.6 | 2900 | 15.3 | ND | ND | 117 | ND | ND | 481000 | 12 | ND | ND | ND | 10.1 | 1070 | ND | ND | 167000 | ND | ND | ND | 2830 | 600 | 423 | 398 |
| 8/21/2009 | 12.31 | 27.22 | 6.5 | 2500 | 16.5 | ND | ND | 97.2 | ND | ND | 465000 | 10.6 | ND | ND | ND | 8.2 | 1380 | ND | ND | 143000 | ND | ND | ND | 2910 | 549 | 394 | 403 |
| 11/20/2009 | 12.51 | 27.26 | 6.6 | 2700 | 16.6 | ND | ND | 104 | ND | ND | 473000 | 11 | ND | ND | 5.0 | 5.7 | 1090 | ND | ND | 136000 | ND | ND | ND | 2250 | 519 | 361 | 358 |
| 2/12/2010 | 11.12 | 27.26 | 6.7 | 3400 | 12.4 | ND | ND | 99.9 | ND | ND | 485000 | 10 | ND | 41 | ND | 6.8 | 1060 | ND | ND | 164000 | ND | ND | ND | 2070 | 681 | 475 | 368 |
| 5/25/2010 | 14.15 | | 6.6 | 3100 | 14 | ND | ND | 95 | ND | ND | 539000 | 16.1 | ND | ND | ND | 5.1 | 947 | ND | ND | 162000 | ND | ND | ND | 2980 | 738 | 460 | 375 |
| 8/20/2010 | 14.34 | | 6.6 | 2880 | 18 | ND | ND | 88.4 | ND | ND | 611000 | ND | ND | ND | ND | ND | ND | ND | ND | 168000 | ND | ND | ND | 3460 | 792 | 453 | 359 |
| 10/22/2010 | 14.86 | | 6.6 | 2900 | 17.8 | ND | ND | 89 | ND | ND | 470000 | 16 | ND | ND | ND | 6 | 1420 | ND | ND | 155000 | ND | ND | ND | 2710 | 736 | 415 | 3[illegible] |
| 2/18/2011 | 11.62 | | 6.6 | 2800 | 14.8 | ND | ND | 102 | ND | ND | 560000 | 14 | ND | ND | ND | 12 | 1200 | ND | ND | 159000 | ND | ND | ND | 2360 | 775 | 540 | 35[illegible] |
| 4/29/2011 | 9.7 | | 6.4 | 2850 | 15 | ND | ND | 96.4 | ND | ND | 566000 | 6 | ND | ND | ND | 8 | 1280 | ND | ND | 176000 | ND | ND | ND | 2890 | 876 | 518 | 376 |
| 8/23/11 | 17.57 | | 6.4 | 3000 | 17 | ND | ND | 82.5 | ND | ND | 1240000 | 9 | ND | ND | 5.7 | 8.5 | 867 | ND | ND | 175000 | ND | ND | ND | 3620 | 796 | 439 | 386 |
| 10/21/11 | 15.98 | | 6.7 | 2700 | 15.5 | ND | ND | 76.6 | ND | ND | 551000 | 9 | ND | ND | ND | 9 | 787 | ND | ND | 159000 | ND | ND | ND | 2110 | 777 | 390 | 376 |
| 1/31/12 | 13.35 | 27.23 | 6.6 | 2750 | 14.7 | ND | ND | 108 | ND | ND | 477000 | 6.7 | ND | ND | 5.1 | 9 | 854 | ND | ND | 145000 | ND | ND | ND | 2350 | 678 | 367 | 332 |
| 5/4/2012 | 13.19 | | 6.5 | 2900 | 15.5 | ND | ND | 94.7 | ND | ND | 555000 | 11 | ND | ND | 7 | 11 | 1050 | ND | ND | 183000 | ND | ND | ND | 2720 | 775 | 395 | 359 |
| 8/17/12 | 16.31 | | 6.5 | 2900 | 16.2 | ND | ND | 69.7 | ND | ND | 298000 | ND | ND | ND | ND | 7.3 | 986 | ND | ND | 170000 | ND | ND | ND | 3000 | 973 | 428 | 360 |
| 10/19/12 | 15.65 | | 6.6 | 2500 | 15.7 | ND | ND | 247 | ND | ND | 523000 | 121 | 5.2 | 22 | 9.5 | 35.3 | 3050 | ND | ND | 159000 | ND | 14.5 | ND | 2940 | 789 | 316 | 342 |
| 2/8/2013 | 16 | | 6.4 | 2450 | 14.1 | ND | ND | 134 | ND | ND | 511000 | 19 | ND | ND | ND | 8 | 1440 | ND | ND | 134000 | ND | ND | ND | 2180 | 795 | 283 | 354 |
| 5/17/2013 | 10.1 | | 6.6 | 3300 | 15.3 | ND | 117 | 130 | ND | ND | 607000 | 46 | ND | ND | 3 | 34 | 1060 | ND | ND | 156000 | ND | ND | ND | 3350 | 761 | 433 | 329 |
| 8/16/2013 | 7.45 | | 6.6 | 3500 | 20.5 | ND | 158 | 143 | ND | ND | 498000 | 6 | ND | ND | ND | 5 | 842 | ND | ND | 168000 | ND | ND | ND | 3310 | 781 | 380 | 355 |
| 10/18/2013 | 10.43 | | 6.5 | 4100 | 16.5 | ND | 141 | 98.8 | ND | ND | 631000 | ND | ND | ND | ND | 6 | 637 | ND | ND | 203000 | ND | ND | ND | 3460 | 952 | 492 | 360 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp °C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/21/2014 | 11.57 | | 6.4 | 4500 | 13.6 | ND | 210 | 85.2 | ND | ND | 687000 | 5 | ND | ND | ND | 25 | 989 | ND | ND | 214000 | ND | ND | ND | 3200 | 1010 | 471 | 372 |
| 8/22/2014 | 13.87 | | 6.5 | 4000 | 18.5 | ND | 131 | 64.8 | ND | ND | 551000 | ND | ND | ND | ND | 10 | 613 | ND | ND | 170000 | ND | ND | ND | 725 | 977 | 373 | 373 |
| 2/13/2015 | | | 6.5 | 4150 | 13.4 | ND | 137 | 74.4 | ND | ND | 552000 | ND | ND | ND | ND | 7.0 | 797 | ND | ND | 196000 | ND | ND | ND | 2650 | 982 | 441 | 340 |
| 8/21/2015 | 10.51 | | 6.6 | 3580 | 17.4 | ND | 3.3 | 69.5 | ND | ND | 555000 | ND | ND | ND | ND | 12.5 | 717 | ND | ND | 161000 | ND | ND | ND | 3630 | 820 | 399 | 345 |
| **New Kiln Dust Landfill Well 2** | | | | (NLGW-2) | | | | | | | | | | | | | | | | | | | | | | | |
| 12/17/2004 | 21.17 | | 6.9 | 3100 | 17 | ND | ND | 80 | ND | ND | 589000 | 12 | ND | ND | ND | 10.8 | 2050 | ND | ND | 105000 | 15 | ND | ND | 2240 | 245 | 992 | 533 |
| 1/21/2005 | 19.44 | | 7 | 3350 | 15 | ND | ND | 80 | ND | ND | 621000 | 7.2 | ND | ND | 19.2 | 9.8 | 2260 | 93 | ND | 105000 | 15.7 | ND | ND | 2520 | 253 | 946 | 494 |
| 2/11/2005 | 20.09 | 33.9 | 6.8 | 3000 | 17 | ND | 118 | 107 | ND | ND | 622000 | 11 | ND | 15 | ND | 12.5 | 2390 | ND | ND | 97900 | ND | ND | ND | 2140 | 257 | 1050 | 523 |
| 2/25/2005 | 19.98 | 33.9 | 6.6 | 3100 | 17 | ND | ND | 78.6 | ND | ND | 628000 | 5.4 | ND | ND | 12.3 | 8.4 | 1670 | ND | ND | 118000 | 14.4 | ND | ND | 2390 | 295 | 944 | 5[illegible] |
| 3/29/2005 | 19.44 | 33.88 | 6.7 | 2600 | 18 | ND | 46 | 63.2 | ND | ND | 568000 | ND | ND | ND | ND | 7 | 1489 | ND | ND | 110000 | ND | ND | ND | 2440 | 342 | 1190 | 502 |
| 6/24/2005 | 16.98 | 33.88 | 6.7 | 2970 | 18 | ND | ND | 58.2 | ND | ND | 667000 | ND | ND | ND | ND | ND | 1200 | ND | ND | 120000 | ND | ND | ND | 2460 | 229 | 859 | 538 |
| 8/19/2005 | 26.15 | 33.88 | 6.6 | 2890 | 19 | ND | ND | 96.9 | ND | ND | 583000 | 16 | ND | 14 | ND | 15.5 | 2660 | ND | ND | 110000 | ND | 10 | ND | 2460 | 232 | 882 | 621 |
| 11/15/2005 | 24.63 | | 6.8 | 1056 | 17 | ND | ND | 97.1 | ND | ND | 666000 | 17 | ND | 13 | 10 | 17.8 | 2760 | ND | ND | 108000 | ND | 16.5 | ND | 2370 | 278 | 1060 | 606 |
| 2/10/2006 | 22.6 | | 6.7 | 2880 | 16 | ND | ND | 99.3 | ND | ND | 551000 | 17 | ND | 14 | ND | 13.7 | 2960 | ND | ND | 102000 | ND | ND | ND | 2450 | 270 | 960 | 969 |
| 5/26/2006 | 24.04 | | 6.8 | 2770 | 18 | ND | ND | 73.9 | ND | ND | 573000 | 12 | ND | 11 | 10.7 | 8.7 | 2000 | ND | ND | 105000 | ND | ND | 60.3 | 2170 | 236 | 853 | 530 |
| 8/18/2006 | 26.95 | | 6.8 | 2990 | 19 | ND | ND | 147 | 1.1 | ND | 540000 | 34 | 6.9 | 28 | 16.8 | 26.2 | 4670 | ND | ND | 106000 | ND | 22.6 | 92.3 | 2460 | 216 | 645 | 710 |
| 11/17/2006 | 28.07 | | 6.8 | 2970 | 17 | 0.2 | 4.3 | 148 | 1.5 | 1.6 | 570000 | 24 | 12 | 38 | 25 | 40.8 | 4140 | 3.9 | ND | 110000 | 0.18 | 39.7 | 85.8 | 2740 | 227 | 847 | 600 |
| 2/9/2007 | 23.99 | | 6.7 | 2500 | 16 | ND | ND | 196 | 1.7 | ND | 671000 | 48 | 7.5 | 39 | 29 | 41 | 5700 | ND | ND | 117000 | ND | 52.4 | 106 | 2290 | 280 | 950 | 550 |
| 6/1/2007 | 19.22 | | 6.4 | 7250 | 18 | ND | ND | 73.8 | ND | ND | 623000 | 9.4 | ND | ND | ND | 10.6 | 1480 | ND | ND | 116000 | ND | ND | ND | 2360 | 225 | 860 | 603 |
| 8/10/2007 | 22.34 | | 6.7 | 2600 | 19 | ND | ND | 451 | 1.4 | ND | 438000 | 36.0 | 8.8 | 29.4 | 21.9 | 36.2 | 5950 | ND | ND | 82700 | ND | 39.2 | 116.0 | 2000 | 198 | 784 | 335 |
| 11/30/2007 | 25.32 | 33.88 | 6.7 | 2930 | 16.9 | ND | ND | 244 | ND | ND | 496000 | 7.3 | 6.0 | ND | ND | 13.9 | 2060 | ND | ND | 96500 | ND | ND | ND | 2060 | 237 | 813 | 490 |
| 3/1/2008 | 21.76 | 33.86 | 6.8 | 3620 | 17.3 | ND | ND | 241 | ND | ND | 549000 | 20 | 7.7 | 18 | 12.7 | | 3070 | ND | | 107000 | ND | | | 2590 | 311 | 1050 | 454 |
| 5/23/2008 | 21.79 | | 6.8 | 2550 | 17.9 | ND | ND | 183 | ND | ND | 590000 | 50 | 6.8 | 13 | 8.6 | 56.4 | 3090 | ND | ND | 108000 | ND | 17 | 58.9 | 2440 | 257 | 831 | 508 |
| 8/15/2008 | 19.79 | | 6.6 | 3260 | 19.4 | ND | ND | 114 | ND | ND | 596000 | ND | ND | ND | ND | 10.6 | 1460 | ND | ND | 109000 | ND | ND | ND | 2480 | 218 | 888 | 662 |
| 11/24/2008 | 21.65 | | 6.6 | 2970 | 17.9 | ND | ND | 85.6 | ND | ND | 568000 | ND | ND | ND | ND | 6.4 | 953 | ND | ND | 106000 | ND | ND | ND | 1980 | 216 | 760 | 677 |
| 2/27/2009 | 22.76 | 33.87 | 6.9 | 2400 | 12.3 | ND | ND | 94.2 | ND | ND | 534000 | ND | ND | ND | ND | 10 | 984 | ND | ND | 116000 | ND | ND | ND | 2380 | 309 | 916 | 648 |
| 5/22/2009 | 15.3 | 33.85 | 6.8 | 2500 | 18.4 | ND | ND | 90.1 | ND | ND | 530000 | ND | ND | ND | ND | 7.7 | 1390 | ND | ND | 116000 | ND | ND | ND | 2330 | 223 | 879 | 551 |
| 11/20/2009 | 17.74 | 33.89 | 6.7 | 2800 | 17.9 | ND | ND | 78.4 | ND | ND | 627000 | ND | ND | ND | 7.0 | 7.7 | 1050 | ND | ND | 116000 | ND | ND | ND | 2420 | 201 | 903 | 5[illegible] |
| 2/12/2010 | 17.98 | 33.86 | 6.9 | 2700 | 15.4 | ND | ND | 69 | ND | ND | 575000 | ND | ND | ND | ND | 7.0 | 878 | ND | ND | 111000 | ND | ND | ND | 2160 | 205 | 1010 | 5[illegible] |
| 5/25/2010 | 17.91 | | 6.7 | 2500 | 18.1 | ND | ND | 69.1 | ND | ND | 496000 | ND | ND | ND | ND | 6.1 | 908 | ND | ND | 113000 | ND | ND | ND | 2380 | 191 | 845 | 686 |
| 8/20/2010 | 20.61 | | 6.7 | 2500 | 18.7 | ND | ND | 96.9 | ND | ND | 600000 | 13 | ND | 16 | 9.8 | 14.9 | 1660 | ND | ND | 118000 | ND | ND | ND | 2490 | 200 | 963 | 596 |
| 10/22/2010 | 21.27 | | 6.7 | 2500 | 17.9 | ND | ND | 82.9 | ND | ND | 538000 | 7.6 | ND | 16 | 5.8 | 9.4 | 1820 | ND | ND | 121000 | ND | ND | ND | 2490 | 201 | 1100 | 484 |
| 2/18/2011 | 21.52 | | 6.8 | 2500 | 16.6 | ND | ND | 101 | ND | ND | 600000 | 13 | ND | 14 | ND | 13.3 | 2270 | ND | ND | 116000 | ND | ND | ND | 2420 | 188 | 1120 | 543 |
| 4/29/2011 | 14.13 | | 6.7 | 2200 | 17.5 | ND | ND | 64.6 | ND | ND | 526000 | 6.6 | ND | ND | ND | 6.2 | 1450 | ND | ND | 113000 | ND | ND | ND | 2480 | 186 | 958 | 669 |
| 8/23/2011 | 22.45 | | 6.6 | 2450 | 18.5 | ND | ND | 70.7 | ND | ND | 1220000 | 8.6 | ND | ND | 7.4 | 12 | 1550 | ND | ND | 114000 | ND | ND | ND | 2540 | 162 | 862 | 646 |
| 10/21/2011 | 23.99 | | 6.7 | 2300 | 16.3 | ND | ND | 102 | ND | ND | 578000 | 19 | ND | 12 | 12.8 | 17.7 | 2530 | ND | ND | 110000 | ND | 15.1 | ND | 2230 | 189 | 1160 | 552 |
| 1/31/2012 | 22.71 | 33.89 | 7.7 | 2500 | 16.5 | ND | ND | 61.9 | ND | ND | 557000 | 6 | ND | ND | 7.1 | 9.6 | 1200 | ND | n | 114000 | ND | ND | ND | 2470 | 185 | 1100 | 540 |
| 5/4/2012 | 18.47 | | 6.6 | 2500 | 17.5 | ND | ND | 69.9 | ND | ND | 581000 | 10 | ND | ND | 8 | 10.5 | 1650 | ND | n | 123000 | ND | ND | ND | 2340 | 174 | 875 | 703 |
| 8/17/2012 | 24.34 | | 6.6 | 2350 | 17.2 | ND | ND | 50.3 | ND | ND | 589000 | ND | ND | 10 | 6.3 | 7.4 | 890 | ND | ND | 114000 | ND | ND | ND | 2480 | 179 | | 581 |
| 10/19/2012 | 23.46 | | 6.7 | 2300 | 15.5 | ND | ND | 90.8 | ND | ND | 565000 | 16 | ND | 12 | 10 | 15.6 | 2570 | ND | ND | 131000 | ND | 10.5 | ND | 2200 | 192 | 1110 | 499 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp ° C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/8/2013 | 23.78 | | 6.7 | 2900 | 15.7 | ND | ND | 119 | ND | ND | 588000 | 28 | 5.4 | 25 | 23 | 29.2 | 3020 | ND | n | 107000 | ND | 22.3 | 59.4 | 2210 | 179 | 1140 | 478 |
| 5/17/2013 | 20.88 | | 6.6 | 2800 | 18.5 | ND | 36 | 63.7 | ND | ND | 616000 | 9.1 | ND | ND | 5.2 | 11.9 | 1320 | ND | ND | 114000 | ND | ND | ND | 2400 | 183 | 1070 | 509 |
| 8/16/2013 | 17.78 | | 6.7 | 3000 | 21.1 | ND | 21 | 48 | ND | ND | 570000 | ND | ND | ND | 2.4 | ND | ND | ND | ND | 121000 | ND | ND | ND | 2420 | 187 | 1000 | 684 |
| 10/18/2013 | 21.25 | | 6.7 | 2900 | 16.6 | ND | 30 | 48.6 | ND | ND | 578000 | ND | ND | ND | ND | 7.2 | 526 | ND | ND | 124000 | ND | ND | ND | 2180 | 171 | 936 | 687 |
| 2/21/2014 | 21.52 | | 6.6 | 2900 | 16.6 | ND | 36 | 48 | ND | 0.6 | 563000 | ND | ND | ND | ND | 6.4 | 771 | ND | ND | 127000 | ND | ND | ND | 2460 | 175 | 977 | 693 |
| 8/22/2014 | 23.5 | | 6.6 | 2750 | 20.3 | ND | 23 | 46.6 | ND | ND | 549000 | ND | ND | ND | ND | 6.4 | 507 | ND | ND | 120000 | ND | ND | ND | 2600 | 183 | 1020 | 647 |
| 2/13/2015 | | | 6.7 | 3000 | 14.9 | ND | 22 | 46.8 | ND | ND | 503000 | ND | ND | ND | ND | 5.9 | 619 | ND | ND | 120000 | ND | ND | ND | 2320 | 177 | 969 | 643 |
| 8/21/2015 | 21.81 | | 6.7 | 2800 | 17.5 | ND | 1.4 | 43.1 | ND | ND | 532000 | ND | ND | ND | ND | 5.3 | 523 | ND | ND | 116000 | ND | ND | ND | 2420 | 175 | 1000 | 567 |
| **New Kiln Dust Landfill Well 3** | | | | (NLGW-3 | | | | | | | | | | | | | | | | | | | | | | | |
| 12/17/2004 | 19.64 | | 7.4 | 900 | 17 | ND | ND | 86.9 | ND | ND | 68100 | ND | ND | ND | ND | ND | 741 | ND | ND | 112000 | ND | ND | ND | 524 | 21.6 | 102 | 293 |
| 1/21/2005 | 18.05 | | 7.3 | 900 | 16 | ND | ND | 105 | ND | ND | 71100 | 5.5 | ND | ND | 5.6 | 7.7 | 1170 | ND | ND | 109000 | ND | ND | ND | 496 | 22 | 97.9 | 298 |
| 2/11/2005 | 18.66 | 29.78 | 7.4 | 850 | 18 | ND | 78 | 104 | ND | ND | 72000 | ND | ND | 11 | ND | ND | 699 | ND | ND | 101000 | ND | ND | ND | 576 | 29.4 | 106 | 292 |
| 2/25/2005 | 18.62 | 29.76 | 7.3 | 850 | 17 | ND | ND | 89 | ND | ND | 71500 | ND | ND | ND | ND | ND | 569 | ND | ND | 119000 | ND | ND | ND | 14 | 27.2 | 124 | 310 |
| 3/29/2005 | 18.2 | | 7.2 | 800 | 17 | ND | ND | 86.9 | ND | ND | 67300 | ND | ND | ND | ND | 5.21 | 773 | ND | ND | 121000 | ND | ND | ND | 544 | 29.7 | 134 | 302 |
| 6/24/2005 | 15.92 | 29.75 | 7.2 | 831 | 18 | ND | ND | 74.1 | ND | ND | 75300 | ND | ND | ND | ND | ND | 512 | ND | ND | 120000 | ND | ND | ND | 570 | 21 | 102 | 294 |
| 8/15/2005 | 19.77 | 29.76 | 7.1 | 832 | 19 | | | | | | 66300 | | | | | | 1080 | ND | | 110000 | | | | 540 | 28.6 | 107 | 287 |
| 11/15/2005 | 22.8 | | 7.3 | 870 | 18 | ND | ND | 80 | ND | ND | 71200 | ND | ND | ND | ND | ND | 558 | ND | ND | 113000 | ND | ND | ND | 2470 | 28.6 | 123 | 336 |
| 2/10/2006 | 25.26 | | 6.9 | 829 | 16 | ND | ND | 72.1 | ND | ND | 63400 | ND | ND | ND | ND | ND | 524 | ND | ND | 104000 | ND | ND | ND | 541 | 28.5 | 113 | 389 |
| 5/26/2006 | 22.18 | | 7.2 | 811 | 18 | ND | ND | 84.8 | ND | ND | 66300 | ND | ND | ND | ND | ND | ND | ND | ND | 108000 | ND | ND | ND | 544 | 24.8 | 105 | 276 |
| 8/18/2006 | 25.02 | | 7.2 | 978 | 19 | ND | ND | 87.1 | ND | ND | 65500 | ND | ND | ND | ND | ND | 712 | ND | ND | 106000 | ND | ND | ND | 604 | 52.4 | 85.5 | 307 |
| 11/17/2006 | 27.99 | | 7.3 | 855 | 17 | 0.16 | 2.0 | 87.1 | ND | ND | 68400 | 2.6 | 1.1 | 4.3 | 3.2 | 6.3 | 546 | 3.0 | ND | 115000 | ND | 6.5 | 14.1 | 608 | 20.4 | 99.2 | 304 |
| 2/9/2007 | 22.36 | | 7.2 | 647 | 15 | ND | ND | 92.4 | ND | ND | 69600 | 10 | ND | ND | ND | 6.3 | 926 | ND | ND | 112000 | ND | ND | ND | 509 | 22.6 | 98.6 | 300 |
| 6/1/2007 | 17.62 | | 6.6 | 272 | 19 | ND | ND | 73.9 | ND | ND | 66800 | ND | ND | ND | ND | 5.6 | ND | ND | ND | 104000 | ND | ND | ND | 521 | 22.6 | 99.6 | 298 |
| 8/10/2007 | 20.81 | | 7.2 | 876 | 19 | ND | ND | 98.9 | ND | ND | 64300 | 5.2 | ND | ND | ND | 6.8 | 1350 | ND | ND | 95400 | ND | ND | ND | 505 | 21.2 | 96.6 | 285 |
| 11/30/2007 | 19.25 | 29.76 | 7.4 | 859 | 17.7 | ND | ND | 71.0 | ND | ND | 62600 | ND | ND | ND | ND | ND | ND | ND | ND | 97500 | ND | ND | ND | 512 | 22.0 | 92.5 | 301 |
| 3/1/2008 | 20.22 | 29.77 | 7.3 | 995 | 17.7 | ND | ND | 79.6 | ND | ND | 68200 | ND | ND | ND | ND | | ND | ND | | 104000 | | | | 532 | 16.7 | 43.6 | 279 |
| 5/23/2008 | 20.26 | | 7.2 | 802 | 19.1 | ND | ND | 77.8 | ND | ND | 70400 | ND | ND | ND | ND | ND | ND | ND | ND | 112000 | ND | ND | ND | 532 | 29.6 | 97.1 | 2[illegible] |
| 8/15/2008 | 17.92 | | 7 | 974 | 17.1 | ND | ND | 72.6 | ND | ND | 69400 | ND | ND | ND | ND | ND | ND | ND | ND | 99600 | ND | ND | ND | 514 | 23.4 | 111 | 28[illegible] |
| 11/24/2008 | 20 | | 7.2 | 902 | 17.8 | ND | ND | 69.8 | ND | ND | 67700 | ND | ND | 11 | ND | ND | ND | ND | ND | 98600 | ND | ND | ND | 499 | 24.6 | 101 | 284 |
| 2/27/2009 | 19.68 | 29.76 | 7.4 | 720 | 16.3 | ND | ND | 75.4 | ND | ND | 62700 | ND | ND | ND | ND | ND | ND | ND | ND | 101000 | ND | ND | ND | 523 | 67.6 | 131 | 289 |
| 5/22/2009 | 18.0 | 29.80 | 7.2 | 800 | 18.5 | ND | ND | 77.5 | ND | ND | 61700 | ND | ND | ND | ND | ND | ND | ND | ND | 104000 | ND | ND | ND | 513 | 24.7 | 106 | 277 |
| 8/21/2009 | 18.5 | 29.77 | 7 | 775 | 18.5 | ND | ND | 84.4 | ND | ND | 74600 | ND | ND | ND | ND | ND | ND | ND | ND | 111000 | ND | ND | ND | 548 | 33 | 110 | 292 |
| 11/20/2009 | 19.9 | 29.78 | 7.3 | 950 | 17.8 | ND | ND | 83.9 | ND | ND | 81000 | ND | ND | ND | ND | ND | ND | ND | ND | 106000 | ND | ND | ND | 569 | 61.7 | 97.8 | 261 |
| 2/12/2010 | 16.6 | 29.76 | 7.4 | 1200 | 16.3 | ND | ND | 106.0 | ND | ND | 91300 | ND | ND | 17.5 | ND | ND | ND | ND | ND | 120000 | ND | ND | ND | 657 | 128 | 111 | 253 |
| 5/25/2010 | 18.57 | | 7.2 | 1200 | 18.4 | ND | ND | 124 | ND | ND | 114000 | ND | ND | ND | ND | ND | ND | ND | ND | 124000 | ND | ND | ND | 856 | 193 | 161 | 243 |
| 8/20/2010 | 18.89 | | 7 | 1320 | 17.8 | ND | ND | 151 | ND | ND | 129000 | ND | ND | ND | ND | ND | ND | ND | ND | 137000 | ND | ND | ND | 923 | 216 | 154 | 216 |
| 10/22/2010 | 19.57 | | 7.1 | 1450 | 17.1 | ND | ND | 151 | ND | ND | 129000 | ND | ND | ND | ND | ND | 619 | ND | ND | 139000 | ND | ND | ND | 913 | 247 | 173 | 205 |
| 2/18/2011 | 21.52 | | 6.8 | 2500 | 16.6 | ND | ND | 101.0 | ND | ND | 600000 | 13 | ND | 14 | ND | 13.3 | 2270 | ND | ND | 116000 | ND | ND | ND | 2420 | 188 | 1120 | 543 |
| 4/29/2011 | 17.71 | | 6.8 | 1350 | 17.2 | ND | ND | 158 | ND | ND | 134000 | ND | ND | ND | ND | ND | ND | ND | ND | 135000 | ND | ND | 63.2 | 1100 | 272 | 192 | 194 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp °C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8/23/2011 | 20.75 | | 7 | 1400 | 17.8 | ND | ND | 151.0 | ND | ND | 151000 | ND | ND | ND | ND | ND | ND | ND | ND | 137000 | ND | ND | ND | 1080 | 243 | 183 | 205 |
| 10/21/2011 | 23.99 | | 6.7 | 2300 | 16.3 | ND | ND | 102.0 | ND | ND | 578000 | 19 | ND | 12 | 12.8 | 17.7 | 2530 | ND | ND | 110000 | ND | 15.1 | ND | 2230 | 189 | 1160 | 552 |
| 1/31/2012 | 21.2 | 29.76 | 7 | 1600 | 16.3 | ND | ND | 174.0 | ND | ND | 151000 | ND | ND | ND | ND | ND | ND | ND | ND | 143000 | ND | ND | ND | 1050 | 293 | 210 | 176 |
| 5/4/2012 | 17.75 | | 6.9 | 1580 | 17.3 | ND | ND | 172 | ND | ND | 152000 | ND | ND | ND | ND | ND | ND | ND | ND | 150000 | ND | ND | ND | 1070 | 280 | 205 | 192 |
| 8/17/2012 | 22.26 | | 6.9 | 1420 | 16.5 | ND | ND | 152.0 | ND | ND | 162000 | ND | ND | ND | ND | ND | ND | ND | ND | 137000 | ND | ND | ND | 1090 | 296 | 206 | 193 |
| 10/19/2012 | 21.82 | | 6.9 | 1620 | 15.4 | ND | ND | 188.0 | ND | ND | 152000 | ND | ND | ND | ND | ND | 766 | ND | ND | 166000 | ND | ND | ND | 968 | 310 | 215 | 188 |
| 2/8/2013 | 22.28 | | 7.1 | 1650 | 16.1 | ND | ND | 185 | ND | ND | 162000 | ND | ND | 12 | 7.4 | ND | 952 | ND | ND | 147000 | ND | ND | ND | 1090 | 319 | 217 | 178 |
| 5/17/2013 | 19.55 | | 7.1 | 1620 | 18.2 | ND | 175 | 171 | ND | ND | 166000 | ND | ND | ND | 1.3 | ND | ND | 1.6 | ND | 149000 | ND | ND | ND | 1100 | 285 | 203 | 183 |
| 8/16/2013 | 16.72 | | 7.1 | 1620 | 18.9 | ND | 234 | 170 | ND | ND | 152000 | ND | ND | ND | ND | ND | ND | ND | ND | 146000 | ND | ND | ND | 1130 | 305 | 198 | 223 |
| 10/18/2013 | 19.41 | | 7 | 1700 | 15.9 | ND | 169 | 180 | ND | ND | 161000 | ND | ND | ND | ND | ND | ND | ND | ND | 154000 | ND | ND | ND | 1070 | 293 | 198 | 20[illegible] |
| 2/21/2014 | 20.21 | | 7 | 1780 | 16.7 | ND | 235 | 169 | ND | ND | 161000 | ND | ND | ND | ND | ND | ND | ND | ND | 150000 | ND | ND | ND | 1080 | 301 | 195 | 2[illegible] |
| 8/22/2014 | 22.03 | | 7 | 1550 | 18.4 | ND | 166 | 153 | ND | ND | 153000 | ND | ND | ND | ND | ND | ND | 1.3 | ND | 149000 | ND | ND | ND | 1120 | 295 | 191 | 214 |
| 2/13/2015 | | | 7.1 | 1800 | 15 | ND | 161 | 152 | ND | ND | 134000 | ND | ND | ND | ND | ND | ND | ND | ND | 139000 | ND | ND | ND | 922 | 278 | 183 | 210 |
| 8/21/2015 | 20.37 | | 7.1 | 1500 | 16.8 | ND | 3.6 | 133 | ND | ND | 138000 | ND | ND | ND | ND | ND | ND | ND | ND | 131000 | ND | ND | ND | 915 | 231 | 169 | 222 |
| **Industrial Landfill Well 1** | | | | (ILGW-1) | | | | | | | | | | | | | | | | | | | | | | | |
| 12/17/2004 | 11.6 | | 7 | 800 | 15 | ND | ND | 106 | ND | ND | 128000 | ND | ND | ND | ND | ND | 647 | ND | ND | 27800 | ND | ND | ND | 449 | 8.2 | 54 | 339 |
| 1/21/2005 | 10.51 | | 7 | 850 | 13 | ND | ND | 104 | ND | ND | 127000 | 5.5 | ND | ND | ND | ND | ND | ND | ND | 27600 | ND | ND | ND | 491 | 7.88 | 52 | 345 |
| 2/11/2005 | 10.35 | 26.9 | 6.9 | 800 | 13 | ND | 15 | 128 | ND | ND | 132000 | 9.7 | ND | ND | ND | ND | 650 | 19 | ND | 27000 | ND | ND | ND | 1410 | 8.1 | 87 | 334 |
| 2/25/2005 | 9.87 | 27 | 6.7 | 800 | 13 | ND | ND | 111 | ND | ND | 134000 | 5.6 | ND | ND | ND | ND | 656 | ND | ND | 30900 | ND | ND | ND | 534 | 11.6 | 53 | 350 |
| 3/29/2005 | 9.28 | 26.99 | 6.0 | 800 | 13 | ND | ND | 113 | ND | ND | 121000 | 5.7 | ND | ND | ND | ND | 761 | ND | ND | 28900 | ND | ND | ND | 480 | 9.9 | 63 | 336 |
| 6/24/2005 | 9.2 | 26.98 | 6.8 | 746 | 16 | ND | ND | 111 | ND | ND | 146000 | ND | ND | ND | ND | ND | 504 | ND | ND | 31700 | ND | ND | ND | 478 | 9.5 | 45 | 340 |
| 8/15/2005 | 11.91 | 26.95 | 6.7 | 746 | 18 | ND | ND | 104 | ND | ND | 128000 | ND | ND | ND | ND | ND | 624 | ND | ND | 28700 | ND | ND | ND | 481 | 8.5 | 51 | 358 |
| 11/15/2005 | 11.15 | | 6.9 | 776 | 16 | ND | ND | 106 | ND | ND | 140000 | 7.1 | ND | ND | ND | | 821 | ND | ND | 29000 | ND | ND | ND | 528 | 34.4 | 48 | 307 |
| 2/10/2006 | 16.16 | | 6.7 | 459 | 13 | ND | ND | 95.7 | ND | ND | 124000 | 9 | ND | ND | ND | ND | ND | ND | ND | 27600 | ND | ND | ND | 459 | 8.9 | 48 | 442 |
| 5/26/2006 | 9.35 | | 6.9 | 706 | 15 | ND | ND | 107 | ND | ND | 125000 | 6.2 | ND | ND | ND | ND | 519 | ND | ND | 27800 | ND | ND | 81.3 | 248 | 7.1 | 52 | 326 |
| 8/18/2006 | 15.77 | | 6.8 | 892 | 17 | ND | ND | 104 | ND | ND | 125000 | | ND | ND | ND | ND | 652 | ND | ND | 27400 | ND | ND | ND | 502 | 33.7 | 40 | 20 |
| 11/17/2006 | 18.44 | | 6.8 | 779 | 16 | ND | 1.0 | 101 | ND | ND | 117000 | 3.9 | 0.8 | 2.2 | 1.5 | 6.4 | 512 | ND | ND | 31900 | ND | 3.8 | 9.2 | 598 | 9.3 | 55 | 3[illegible] |
| 2/9/2007 | 13.39 | | 6.8 | 609 | 14 | ND | ND | 181 | ND | ND | 190000 | 31 | ND | ND | 11.9 | 15.3 | 1940.0 | ND | ND | 31000 | ND | 19.9 | ND | 434 | 10.3 | 49 | 3[illegible] |
| 6/1/2007 | 6.24 | | 6.4 | 1437 | 16 | ND | ND | 99.6 | ND | ND | 130000 | ND | ND | ND | ND | ND | 532 | ND | ND | 28500 | ND | ND | ND | 447 | 11.1 | 45 | 322 |
| 8/10/2007 | 14.71 | | 6.9 | 894 | 19 | ND | ND | 131.0 | ND | ND | 115000 | 7.7 | ND | ND | 6.8 | 5.4 | 1570 | ND | ND | 29000 | ND | ND | ND | 500 | 26.9 | 46.8 | 320 |
| 11/30/2007 | 12.06 | 26.96 | 6.9 | 853 | 15.9 | ND | ND | 98.8 | ND | ND | 123000 | ND | ND | ND | ND | ND | 624 | ND | ND | 26800 | ND | ND | ND | 485 | 12.9 | 46.6 | 351 |
| 3/1/2008 | 7.89 | 26.98 | 6.9 | 967 | 11.2 | ND | ND | 105 | ND | ND | 133000 | ND | ND | ND | ND | | 536 | ND | | 28200 | | | | 514 | 1.0 | 1.0 | 318 |
| 5/23/2008 | 10.95 | | 6.9 | 788 | 15 | ND | ND | 110 | ND | ND | 138000 | ND | ND | ND | ND | ND | 636 | ND | ND | 27900 | ND | ND | ND | 529 | 16.1 | 41.1 | 324 |
| 8/15/2009 | 7.22 | | 6.7 | 1020 | 20.5 | ND | ND | 94 | ND | ND | 132000 | ND | ND | ND | ND | ND | ND | ND | ND | 26900 | ND | ND | ND | 537 | 16.2 | 46.7 | 328 |
| 11/24/2008 | 9.1 | | 6.8 | 943 | 14.2 | ND | ND | 102 | ND | ND | 147000 | ND | ND | ND | ND | ND | ND | ND | ND | 27500 | ND | ND | ND | 512 | 17.8 | 42.1 | 331 |
| 2/27/2009 | 9.34 | 26.99 | 6.8 | 730 | 10 | ND | ND | 106 | ND | ND | 133000 | ND | ND | ND | ND | ND | ND | ND | ND | 28400 | ND | ND | ND | 554 | 19.7 | 49.1 | 340 |
| 5/22/2009 | 8.7 | 27 | 6.8 | 725 | 17.6 | ND | ND | 105 | ND | ND | 128000 | ND | ND | ND | ND | ND | ND | ND | ND | 29200 | ND | ND | ND | 556 | 18.1 | 45.0 | 323 |
| 8/21/2009 | 12.06 | 26.96 | 6.7 | 800 | 17.5 | ND | ND | 113 | ND | ND | 146000 | ND | ND | ND | ND | ND | ND | ND | ND | 31300 | ND | ND | ND | 617 | 17.4 | 46.5 | 329 |
| 11/20/2009 | 8.34 | 26.99 | 6.8 | 875 | 14.9 | ND | ND | 108 | ND | ND | 152000 | ND | ND | ND | ND | ND | ND | ND | ND | 29700 | ND | ND | ND | 564 | 28.8 | 76.2 | 320 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp ° C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/12/2010 | 5.45 | 26.99 | 6.9 | 900 | 9.9 | ND | ND | 104 | ND | ND | 135000 | ND | ND | ND | ND | ND | ND | ND | ND | 29800 | ND | ND | ND | 538 | 17.6 | 50.5 | 323 |
| 5/25/2010 | 7.82 | | 7.0 | 800 | 16 | ND | ND | 112 | ND | ND | 134000 | ND | ND | 12 | 5.4 | ND | ND | ND | ND | 26700 | ND | ND | ND | 553 | 47.4 | 18.6 | 321 |
| 8/20/2010 | 8.01 | | 6.8 | 1780 | 18.4 | ND | ND | 109 | ND | ND | 135000 | ND | ND | ND | ND | ND | ND | ND | ND | 28900 | ND | ND | ND | 555 | 19.9 | 51.6 | 328 |
| 10/22/2010 | 9.55 | | 6.9 | 1800 | 17.6 | ND | ND | 114 | ND | | 135000 | ND | ND | ND | ND | ND | ND | ND | ND | 29900 | ND | ND | ND | 557 | 20.1 | 47.7 | 310 |
| 2/18/2011 | 12.55 | | 6.9 | 850 | 13.1 | ND | ND | 109 | ND | ND | 148000 | ND | ND | ND | ND | ND | ND | ND | ND | 29400 | ND | ND | ND | 524 | 18.8 | 55 | 319 |
| 4/29/2011 | 7.69 | | 6.7 | 775 | 14 | ND | ND | 109 | ND | ND | 132000 | ND | ND | ND | ND | ND | 862.0 | ND | ND | 28800 | ND | ND | ND | 517 | 18.2 | 50.2 | 308 |
| 8/23/2011 | 9.65 | | 6.8 | 800 | 16.9 | ND | ND | 101 | ND | ND | 138000 | ND | ND | ND | 708 | 10.9 | 1490 | ND | ND | 27500 | ND | ND | ND | 548 | 17.6 | 51.6 | |
| 10/21/2011 | 11.98 | | 6.8 | 800 | 15.2 | ND | ND | 110 | ND | ND | 140000 | ND | ND | 11 | ND | ND | ND | ND | ND | 28200 | ND | ND | ND | 509 | 17.5 | 51 | 324 |
| 1/31/2012 | 10.88 | 26.97 | 6.8 | 850 | 13.5 | ND | ND | 112 | ND | ND | 134000 | ND | ND | 13 | ND | ND | ND | ND | ND | 27600 | ND | ND | ND | 529 | 18.1 | 51.2 | 348 |
| 5/4/2012 | 6.5 | | 6.8 | 850 | 16.6 | ND | ND | 102 | ND | ND | 132000 | ND | ND | ND | 5.1 | ND | 1010 | ND | ND | 27800 | ND | ND | ND | 523 | 15.1 | 46.4 | 32[illegible] |
| 8/17/2012 | 11.87 | | 6.7 | 800 | 16.7 | ND | ND | 96.4 | ND | ND | 147000 | ND | ND | ND | ND | ND | ND | ND | ND | 27200 | ND | ND | ND | 529 | 15.1 | 49 | 3[illegible] |
| 10/19/2012 | 11.16 | | 6.9 | 800 | 15.3 | ND | ND | 113 | ND | ND | 130000 | ND | ND | ND | ND | ND | 641 | ND | ND | 30500 | ND | ND | ND | 492 | 15.3 | 51.1 | 313 |
| 2/8/2013 | 11.95 | | 6.8 | 800 | 13.4 | ND | ND | 108 | ND | ND | 133000 | ND | ND | n | 5.4 | ND | ND | ND | ND | 26400 | ND | ND | ND | 534 | 15.8 | 51.9 | 293 |
| 5/17/2013 | 5.83 | | 6.7 | 800 | 15.2 | ND | ND | 106 | ND | ND | 145000 | ND | ND | ND | 2.4 | ND | ND | ND | ND | 27200 | ND | ND | ND | 522 | 14.5 | 45.9 | 320 |
| 8/16/2013 | 4.03 | | 6.9 | 875 | 20.7 | ND | ND | 94.9 | ND | ND | 129000 | ND | ND | ND | ND | ND | ND | ND | ND | 25800 | ND | ND | ND | 538 | 15.2 | 46.8 | 348 |
| 10/18/2013 | 6.61 | | 6.8 | 800 | 16.3 | ND | 1.5 | 102 | ND | ND | 134000 | ND | ND | ND | 1.6 | ND | ND | ND | ND | 27100 | ND | ND | ND | 507 | 13.6 | 46.2 | 332 |
| 2/21/2014 | 7.68 | | 6.7 | 875 | 12.5 | ND | 1.8 | 100 | ND | ND | 137000 | ND | ND | ND | ND | ND | ND | ND | ND | 27000 | ND | ND | ND | 548 | 13.4 | 49.3 | 338 |
| 8/22/2014 | 8.04 | | 6.9 | 850 | 18.2 | ND | ND | 98.3 | ND | ND | 134000 | ND | ND | ND | ND | ND | ND | ND | ND | 28500 | ND | ND | ND | 533 | 13.4 | 51.8 | 336 |
| 2/13/2015 | | | 6.8 | 850 | 11.8 | ND | 1.4 | 92 | ND | ND | 116000 | ND | ND | ND | ND | ND | ND | ND | ND | 25700 | ND | ND | ND | 509 | 13 | 51.4 | 338 |
| 8/21/2015 | 5.58 | | 6.9 | 800 | 17.8 | ND | ND | 89.6 | ND | ND | 126000 | ND | ND | ND | ND | ND | ND | ND | ND | 25100 | ND | ND | ND | 492 | 13.4 | 51.3 | 314 |

**Industrial Landfill Well 2** (ILGW-2)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/17/2005 | 2.6 | | 7.2 | 3400 | 12 | ND | ND | 206 | ND | ND | 157000 | ND | ND | ND | ND | 7.6 | 590000 | ND | ND | 197000 | 16.4 | ND | ND | 2090 | 134 | 268 | 1100 |
| 1/21/2005 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2/11/2005 | 1.71 | 20.4 | 7.0 | 3100 | 11 | ND | 113 | 136 | ND | ND | 128000 | ND | ND | ND | ND | 5.2 | 487000 | 57 | ND | 162000 | ND | ND | ND | 1700 | 157 | 343 | 981 |
| 2/25/2005 | 0.99 | 20.4 | 6.9 | 3000 | 11 | ND | ND | 122 | ND | ND | 143000 | ND | ND | ND | ND | 6.4 | 524000 | 44 | ND | 161000 | 19.3 | ND | ND | 1920 | 152 | 316 | 1010 |
| 3/29/2005 | 1.14 | 20.4 | 7.0 | 2800 | 14 | ND | ND | 111 | ND | ND | 130000 | ND | ND | ND | ND | 6.8 | 509000 | 21 | ND | 181000 | ND | ND | ND | 1940 | 156 | 408 | 8[illegible] |
| 6/24/2005 | 0.68 | 20.4 | 7.0 | 2370 | 25 | ND | 12 | 183 | ND | ND | 151000 | ND | ND | ND | ND | 5.6 | 525000 | ND | ND | 195000 | ND | ND | ND | 2330 | 121 | 327 | 88[illegible] |
| 8/15/2005 | 1.44 | 20.4 | 7.1 | 2600 | 24 | ND | 13 | 135 | ND | ND | 153000 | ND | ND | ND | ND | 19.9 | 375000 | ND | ND | 193000 | ND | ND | ND | 1800 | 128 | 334 | 824 |
| 11/15/2005 | 1.56 | | 7.1 | 855 | 15 | ND | 19 | 150 | ND | ND | 193000 | 9.9 | 5.6 | 19 | 10.6 | 17.8 | 39500 | ND | ND | 205000 | ND | ND | 70 | 1930 | 120 | 284 | 887 |
| 2/10/2006 | 1.85 | | 7.2 | 2580 | 9 | ND | 11 | 111 | ND | ND | 153000 | ND | ND | ND | ND | 8.3 | 472000 | ND | ND | 164000 | ND | ND | ND | 1800 | 116 | 212 | 1370 |
| 5/26/2006 | 1.1 | | 7.1 | 2500 | 20 | ND | 10 | 111 | ND | ND | 130000 | ND | ND | ND | ND | 9.9 | 549000 | ND | ND | 162000 | ND | ND | ND | 1310 | 95.2 | 197 | 962 |
| 8/18/2006 | 1.77 | | 7.1 | 2910 | 25 | ND | 13 | 132 | ND | ND | 118000 | ND | ND | ND | ND | 12.6 | 495000 | ND | ND | 146000 | ND | ND | ND | 2200 | 113 | 87.3 | 1150 |
| 11/17/2006 | 2.05 | | 7.1 | 2820 | 15 | 0.19 | 15 | 221 | ND | 0.11 | 140000 | 2.1 | 3.0 | 2.5 | 2.1 | 15.1 | 589000 | 28 | ND | 166000 | ND | 2.3 | 7.9 | 1890 | 95.5 | 60.2 | 1200 |
| 2/9/2007 | 1.89 | | 7.2 | 2240 | 9 | ND | ND | 226 | ND | ND | 142000 | ND | ND | ND | ND | 10.1 | 515000 | ND | ND | 163000 | ND | ND | ND | 1720 | 108 | 64.9 | 1240 |
| 6/1/2007 | 0.5 | | 6.4 | 2390 | 18 | ND | ND | 244 | ND | ND | 102000 | ND | ND | ND | ND | 8.6 | 518000 | ND | ND | 169000 | ND | ND | ND | 1810 | 107 | 89.9 | 999 |
| 8/10/2007 | 0.92 | | 7.1 | 2720 | 26 | ND | 11.5 | 213 | ND | ND | 77600 | ND | ND | ND | ND | 7.5 | 410000 | ND | ND | 154000 | ND | ND | ND | 1800 | 112 | 156 | 804 |
| 11/30/2007 | 1.53 | 20.4 | 7.2 | 2580 | 13.1 | ND | 14.6 | 250 | ND | ND | 98800 | 5.0 | ND | ND | ND | 9.7 | 473000 | ND | ND | 175000 | ND | ND | ND | 1570 | 95.9 | 63.4 | 1070 |
| 3/1/2008 | 1.38 | 20.41 | 7.2 | 2700 | 11.1 | ND | ND | 242 | ND | ND | 98700 | ND | ND | ND | ND | | 47300 | ND | | 158000 | | | | 1600 | 89.7 | 73.0 | 1020 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp ° C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/23/2008 | 0.91 | | 7.2 | 2230 | 18.2 | ND | 11 | 219 | ND | ND | 97200 | ND | ND | ND | ND | 8.0 | 386000 | ND | ND | 151000 | ND | ND | ND | 2090 | 86.8 | 113 | 935 |
| 8/15/2009 | 0.69 | | 7.0 | 2670 | 24 | ND | ND | 201 | ND | ND | 83800 | ND | ND | ND | ND | ND | 416000 | ND | ND | 170000 | ND | ND | ND | 1670 | 88 | 146 | 876 |
| 11/24/2008 | 1.03 | | 7.2 | 2520 | 12.6 | ND | 12 | 226 | ND | ND | 102000 | ND | ND | ND | ND | ND | 407000 | ND | ND | 143000 | ND | ND | ND | 1440 | 100 | 61.7 | 1060 |
| 2/27/2009 | 1.46 | 20.4 | 7.3 | 2040 | 10.5 | ND | 11 | 271 | ND | ND | 93100 | ND | ND | 12.3 | ND | 7.2 | 426000 | ND | ND | 156000 | ND | ND | ND | 1560 | 81 | 39.2 | 1150 |
| 5/22/2009 | 0.98 | 20.4 | 7.2 | 2100 | 21.1 | ND | ND | 269 | ND | ND | 85300 | ND | ND | ND | 5.1 | 8.4 | 408000 | ND | ND | 173000 | ND | ND | ND | 1490 | 81.9 | 93.1 | 937 |
| 8/21/2009 | 11.31 | 20.4 | 7.1 | 2100 | 23.7 | ND | 14.4 | 269 | ND | ND | 82500 | ND | ND | ND | ND | 7.3 | 439000 | ND | ND | 177000 | ND | ND | ND | 2190 | 81.1 | 56.6 | 1160 |
| 11/20/2009 | 0.83 | 20.40 | 7.3 | 1650 | 15.1 | ND | 10 | 329 | ND | ND | 70000 | ND | ND | ND | 6.9 | 9.4 | 281000 | ND | ND | 101000 | ND | ND | ND | 1030 | 48.1 | 50.5 | 586 |
| 2/12/2010 | 0.75 | 20.38 | 7.4 | 2100 | 9.9 | ND | 21 | 496 | ND | ND | 88800 | ND | ND | ND | ND | 8.3 | 373000 | ND | ND | 139000 | ND | ND | ND | 1280 | 65.4 | 26.7 | 959 |
| 5/25/2010 | 0.81 | | 7.3 | 1950 | 20.8 | ND | 11 | 421 | ND | ND | 82800 | ND | ND | ND | ND | 6.7 | 389000 | ND | ND | 132000 | ND | ND | ND | 1490 | 27.4 | 66.1 | 1020 |
| 8/20/2010 | 0.8 | | 7.2 | 1800 | 25.7 | ND | 15 | 411 | ND | ND | 66100 | ND | ND | ND | ND | 7.3 | 327000 | ND | ND | 137000 | ND | ND | ND | 1380 | 61 | 89.6 | 741 |
| 10/22/2010 | 0.75 | | 7.2 | 2250 | 18.4 | ND | 13 | 504 | ND | ND | 91000 | ND | ND | ND | 6.6 | 7.8 | 437000 | ND | ND | 152000 | ND | ND | ND | 1440 | 69.3 | 29.2 | 9 |
| 2/18/2011 | 0.77 | | 7.2 | 2150 | 11.6 | ND | 73 | 1130 | ND | ND | 102000 | ND | ND | 12.9 | ND | 6.5 | 393000 | ND | ND | 132000 | ND | ND | ND | 1400 | 83 | 14.7 | 916 |
| 4/29/2011 | 0.79 | | 7.1 | 2100 | 15.3 | ND | 11 | 570 | ND | ND | 89900 | ND | ND | ND | ND | 6.8 | 438000 | ND | ND | 133000 | ND | ND | ND | 1630 | 68.4 | 24.9 | 1090 |
| 8/23/2011 | 2.01 | | 7.1 | 2220 | 23 | ND | 19 | 524 | | | 82200 | 8.3 | ND | ND | 10.4 | 10.8 | 460000 | ND | ND | 129000 | ND | ND | ND | 1730 | 66.7 | 34.3 | 1080 |
| 10/21/2011 | 2.47 | | 7.1 | 2100 | | ND | 21 | 646 | ND | ND | 88600 | ND | ND | ND | ND | 7.1 | 492000 | ND | ND | 136000 | ND | ND | ND | 1260 | 61.4 | 19.8 | 1140 |
| 1/31/2012 | 1.37 | 20.39 | 7.2 | 2200 | 12.2 | ND | 36 | 1040 | ND | ND | 85100 | 6.7 | ND | ND | 5.4 | 7.4 | 404000 | ND | ND | 122000 | ND | ND | ND | 1360 | 56.9 | 19.4 | 1100 |
| 5/4/2012 | 0.92 | | 7.2 | 2100 | 17.6 | ND | 19 | 611 | ND | ND | 88200 | ND | ND | ND | 5.9 | 6.5 | 392000 | ND | ND | 128000 | ND | ND | ND | 1310 | 55.2 | 76.4 | 363 |
| 8/17/2012 | 2.68 | | 7.3 | 1800 | 23.1 | ND | 12 | 424 | ND | ND | 62200 | ND | ND | ND | 5.1 | 5.8 | 359000 | ND | ND | 124000 | ND | ND | ND | 1300 | 64.8 | 96.5 | 800 |
| 10/19/2012 | 2.16 | | 7.4 | 1900 | 19.7 | ND | 18 | 498 | ND | ND | 59700 | ND | ND | ND | ND | 7.6 | 453000 | ND | ND | 118000 | ND | ND | ND | 1250 | 53.5 | 95.2 | 760 |
| 2/8/2013 | 1.72 | | 7.4 | 1900 | 12.6 | ND | 18 | 584 | ND | ND | 67700 | ND | ND | ND | 7.6 | 6.1 | 385000 | ND | ND | 109000 | ND | ND | ND | 1250 | 63.7 | 17.3 | 868 |
| 5/17/2013 | 1.31 | | 7.3 | 1780 | 17.5 | ND | 38 | 502 | ND | ND | 72200 | 9.9 | ND | ND | 6.3 | 7.8 | 387000 | ND | ND | 130000 | ND | ND | ND | 1360 | 58.5 | 64.2 | 774 |
| 8/16/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/18/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2/21/2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8/22/2014 | 5.84 | | 7.4 | 1400 | 21.9 | ND | 19 | 289 | ND | ND | 52000 | ND | ND | ND | ND | 5.9 | 221000 | ND | ND | 135000 | ND | ND | ND | 1030 | 46.6 | 78.8 | 632 |
| 2/13/2015 | | | 7.5 | 1400 | 12.2 | ND | 16 | 226 | ND | ND | 50500 | ND | ND | ND | ND | ND | 204000 | ND | ND | 121000 | ND | ND | ND | 830 | 40.5 | 60.6 | 589 |
| 8/21/2015 | 4.38 | | 7.3 | 1400 | 20.9 | ND | 6.6 | 219 | ND | ND | 47100 | ND | ND | 11 | ND | 5.2 | 207000 | ND | ND | 120000 | ND | ND | ND | 876 | 36.5 | 77.8 | 585 |
| **Industrial Landfill Well 3** | | | | (ILGW-3) | | | | | | | | | | | | | | | | | | | | | | | |
| 12/17/2005 | 12.1 | | 6.8 | 2600 | 16 | ND | ND | 73.6 | ND | ND | 314000 | 7.6 | ND | ND | ND | 10.0 | 1860 | ND | ND | 186000 | ND | ND | ND | 1700 | 112 | 619 | 609 |
| 1/21/2005 | 11.1 | | 7 | 2650 | 13 | ND | ND | 81 | ND | ND | 336000 | 14.6 | ND | ND | 11.2 | 10.1 | 2480 | ND | ND | 186000 | 16.1 | ND | ND | 1950 | 120 | 660 | 580 |
| 2/11/2005 | 11.6 | 24.1 | 6.8 | 2500 | 14 | ND | 143 | 127 | ND | ND | 316000 | 20.3 | 5.7 | 15 | ND | 18.4 | 2590 | 27 | ND | 123000 | ND | 16.3 | ND | 1970 | 142 | 730 | 566 |
| 2/25/2005 | 11.2 | 24.1 | 6.6 | 2500 | 14 | ND | ND | 92.3 | ND | ND | 338000 | 15.5 | ND | 13 | 7.39 | 13.9 | 2350 | 89 | ND | 190000 | 10 | ND | ND | 1830 | 163 | 736 | 595 |
| 3/29/2005 | 11.4 | 24.1 | 6.7 | 2400 | 15 | ND | 22 | 88.5 | ND | ND | 313000 | 15.9 | ND | 12 | ND | 13.4 | 2160 | 18 | ND | 192000 | ND | ND | ND | 1860 | 175 | 739 | 591 |
| 6/24/2005 | 9.2 | 24.1 | 6.6 | 2390 | 18 | ND | ND | 96.5 | ND | ND | 317000 | 11.5 | ND | 12 | ND | 13.9 | 2590 | ND | ND | 179000 | ND | ND | ND | 2050 | 150 | 572 | 595 |
| 8/15/2005 | 12.7 | 24.1 | 6.6 | 2410 | 20 | ND | 12 | 122 | ND | ND | 326000 | 20.8 | ND | 14 | 6.14 | 19.9 | 3920 | ND | ND | 189000 | ND | 18.1 | ND | 1940 | 152 | 524 | 660 |
| 11/15/2005 | 14.6 | | 6.7 | 710 | 18 | ND | ND | 95.8 | ND | ND | 321000 | 12.7 | ND | ND | 5.1 | 17.6 | 2450 | ND | ND | 196000 | ND | 14.6 | ND | 1850 | 173 | 590 | 725 |
| 2/10/2006 | 12.3 | | 6.7 | 2300 | 13 | ND | 14 | 111 | ND | ND | 302000 | 18.9 | ND | 10 | ND | 12.8 | 3920 | ND | ND | 189000 | ND | ND | ND | 1690 | 171 | 508 | 830 |
| 5/26/2006 | 12.5 | | 6.7 | 2090 | 16 | ND | ND | 187 | ND | ND | 315000 | 34.0 | 6.1 | 19 | 13.1 | 23.0 | 7010 | ND | ND | 189000 | ND | 28.6 | 74 | 1440 | 147 | 526 | 617 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp °C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8/18/2006 | 17.1 | | 6.8 | 2470 | 19 | ND | 15 | 125 | ND | ND | 293000 | 20.3 | 5.3 | 17 | ND | 22.4 | 3450 | ND | ND | 190000 | ND | ND | 60.9 | 1790 | 169 | 415 | 541 |
| 11/17/2006 | 17.0 | | 6.8 | 2410 | 19 | 0.11 | 6.3 | 81 | 0.23 | 0.1 | 296000 | 8.6 | 2.8 | 7.4 | 3.5 | 20.1 | 1290 | 10 | ND | 216000 | ND | 8.7 | 20.3 | 1790 | 134 | 516 | 636 |
| 2/9/2007 | 13.5 | | 6.8 | 1760 | 14 | ND | 16 | 229 | 1.5 | ND | 356000 | 44.6 | 11 | 31 | 23.4 | 48.1 | 4840 | ND | ND | 195000 | ND | 43.3 | 103 | 1740 | 161 | 591 | 580 |
| 6/1/2007 | 11.3 | | 6.4 | 4260 | 17 | ND | ND | 95.5 | ND | ND | 299000 | 12.8 | ND | 28 | 7.1 | 19.2 | 2260 | ND | ND | 201000 | ND | 15.8 | ND | 1780 | 162 | 578 | 517 |
| 8/10/2007 | 16.1 | | 6.7 | 2490 | 19 | ND | ND | 128 | ND | ND | 288000 | 13.7 | ND | 27.8 | 10.6 | 19.1 | 3350 | ND | ND | 179000 | ND | 16.1 | ND | 1760 | 154 | 591 | 530 |
| 11/30/2007 | 15.7 | 24.08 | 6.8 | 2480 | 17.1 | ND | 12.2 | 259 | 1.0 | ND | 340000 | 27.8 | 7.9 | 49.5 | 18.6 | 40.1 | 3970 | ND | ND | 204000 | ND | 29.6 | 90.5 | 1620 | 137 | 499 | 642 |
| 3/1/2008 | 14.66 | 24.07 | 6.8 | 2670 | 14.7 | ND | ND | 157 | ND | ND | 330000 | 19.6 | 5.5 | 21.9 | 14.2 | | 2330 | ND | | 188000 | | | | 1780 | 141 | 505 | 596 |
| 5/23/2008 | 15.0 | | 6.8 | 2050 | 16.1 | ND | ND | 155 | ND | ND | 300000 | 18 | ND | 20 | 9.0 | 17.6 | 2500 | ND | ND | 182000 | ND | 16.7 | ND | 1930 | 152 | 484 | 598 |
| 8/15/2009 | 13.3 | | 6.6 | 2290 | 19.5 | ND | ND | 192 | ND | ND | 250000 | 6.5 | ND | ND | 7.2 | 12.7 | 1650 | ND | ND | 158000 | ND | ND | ND | 1450 | 117 | 409 | 606 |
| 11/24/2008 | 16.3 | | 6.7 | 2370 | 16.8 | ND | ND | 115 | ND | ND | 284000 | ND | ND | ND | ND | 10.9 | 1450 | ND | ND | 168000 | ND | ND | ND | 1520 | 167 | 449 | 598 |
| 2/27/2009 | 15.78 | 24.12 | 6.9 | 1860 | 12.1 | ND | ND | 97 | ND | ND | 284000 | 14 | ND | ND | 6.4 | 13.9 | 1600 | ND | ND | 185000 | ND | ND | ND | 1510 | 153 | 490 | 6[illegible] |
| 5/22/2009 | 14.90 | 24.10 | 6.8 | 1850 | 17.4 | ND | ND | 88.7 | ND | ND | 272000 | 6.2 | ND | ND | ND | 7.0 | 1170 | ND | ND | 186000 | ND | ND | ND | 1580 | 136 | 428 | 586 |
| 8/21/2009 | 12.86 | 24.08 | 6.7 | 1980 | 18.5 | ND | ND | 66.5 | ND | ND | 282000 | ND | ND | ND | ND | 8.2 | 1480 | ND | ND | 196000 | ND | ND | ND | 1900 | 157 | 500 | 577 |
| 11/20/2009 | 12.55 | 14.07 | 6.7 | 2200 | 16.5 | ND | ND | 87.9 | ND | ND | 300000 | 5.0 | ND | ND | ND | 9.1 | 1490 | ND | ND | 186000 | ND | ND | ND | 1610 | 154 | 447 | 561 |
| 2/12/2010 | 12.45 | 24.08 | 6.9 | 2100 | 13.2 | ND | ND | 70.4 | ND | ND | 275000 | 7.7 | ND | ND | ND | 8.2 | 1240 | ND | ND | 185000 | ND | ND | ND | 1550 | 160 | 489 | 561 |
| 5/25/2010 | 12.99 | | 6.9 | 1850 | 16.2 | ND | ND | 64.3 | ND | ND | 254000 | 8.1 | ND | ND | ND | 7.8 | 1640 | ND | ND | 170000 | ND | ND | ND | 1660 | 464 | 165 | 584 |
| 8/20/2010 | 17.66 | | 6.8 | 1500 | 18.7 | ND | ND | 232 | ND | ND | 191000 | 6.1 | ND | ND | 7.2 | 12.9 | 1780 | ND | ND | 137000 | ND | ND | ND | 1170 | 105 | 300 | 483 |
| 10/22/2010 | 13.78 | | 6.8 | 1900 | 17.4 | ND | ND | 119 | ND | ND | 259000 | 6 | ND | ND | ND | 10.3 | 2240 | ND | ND | 190000 | ND | ND | ND | 1510 | 179 | 438 | 503 |
| 2/18/2011 | 13.37 | | 6.8 | 1900 | 14.6 | ND | 16 | 168 | ND | ND | 299000 | 25 | 5.7 | 20 | 15.3 | 29.8 | 3600 | ND | ND | 176000 | ND | 26.8 | 79.1 | 1580 | 170 | 572 | 536 |
| 4/29/2011 | 12.70 | | 6.6 | 800 | 15.1 | ND | ND | 91.3 | ND | ND | 253000 | 16 | ND | ND | 5.2 | 12.0 | 2400 | ND | ND | 169000 | ND | ND | ND | 1600 | 182 | 504 | 559 |
| 8/23/2011 | 14.80 | | 6.6 | 1880 | 17.8 | ND | ND | 66.9 | ND | ND | 263000 | 7 | ND | ND | 7.3 | 10.4 | 1600 | ND | ND | 175000 | ND | ND | ND | 1090 | 158 | 447 | 551 |
| 10/21/2011 | 15.88 | | 6.8 | 1880 | 15.8 | ND | ND | 67.9 | ND | ND | 271000 | 9.3 | ND | ND | ND | 9.6 | 2020 | ND | ND | 191000 | ND | ND | ND | 1340 | 161 | 488 | 564 |
| 1/31/2012 | 14.32 | 24.06 | 6.8 | 2050 | 15.1 | ND | 12 | 133 | ND | ND | 280000 | 26 | 6.8 | 16 | 16.8 | 28 | 3120 | ND | ND | 173000 | ND | 27 | 63.8 | 1570 | 164 | 536 | 630 |
| 5/4/2012 | 14.39 | | 6.8 | 1450 | 16.4 | ND | ND | 138 | ND | ND | 180000 | 8.2 | ND | 12 | 7.9 | 9.3 | 2710 | ND | ND | 121000 | ND | ND | ND | 1080 | 93 | 348 | 355 |
| 8/17/2012 | 15.95 | | 6.7 | 1700 | 17 | ND | ND | 55.4 | ND | ND | 277000 | ND | ND | ND | 8.1 | 7.3 | 2390 | ND | ND | 175000 | ND | ND | ND | 1500 | 136 | 505 | 525 |
| 10/19/2012 | 14.43 | | 6.7 | 1950 | 15.5 | ND | 25 | 200 | 1.1 | ND | 282000 | 41 | 12 | 28 | 24.6 | 44.7 | 4910 | ND | 39 | 196000 | ND | 39.2 | 98.4 | 1520 | 150 | 486 | 512 |
| 2/8/2013 | 13.95 | | 6.8 | 2100 | 13.9 | ND | ND | 115 | ND | ND | 280000 | 18 | 5.7 | 14 | 15.5 | 23.5 | 2740 | ND | ND | 172000 | m | 15.5 | ND | 1470 | 159 | 505 | 494 |
| 5/17/2013 | 13.01 | | 6.8 | 2080 | 15.9 | ND | 95 | 145 | ND | ND | 324000 | 29 | 6.8 | 20 | 11.8 | 31.4 | 2860 | ND | ND | 188000 | ND | 28.6 | 67.8 | 1650 | 152 | 502 | 502 |
| 8/16/2013 | 10.58 | | 7.1 | 875 | 19.9 | ND | ND | 145 | ND | ND | 122000 | ND | ND | ND | ND | 5.9 | 1950 | ND | ND | 72200 | ND | ND | ND | 750 | 56.1 | 192 | 322 |
| 10/18/2013 | 11.79 | | 6.7 | 850 | 15.6 | ND | 66 | 148 | ND | ND | 223000 | ND | ND | ND | ND | 19.2 | 816 | ND | ND | 165000 | ND | ND | ND | 1210 | 106 | 378 | 5[illegible] |
| 2/21/2014 | 13.05 | | 6.6 | 2000 | 14.4 | ND | 93 | 67.4 | ND | ND | 246000 | ND | ND | ND | ND | 5 | 633 | ND | ND | 182000 | ND | ND | ND | 1470 | 131 | 409 | 5[illegible] |
| 8/22/2014 | 14.57 | | 6.7 | 1900 | 17.6 | ND | 69 | 52.4 | ND | ND | 230000 | ND | ND | ND | ND | 6.6 | 747 | ND | ND | 177000 | ND | ND | ND | 1460 | 136 | 409 | 564 |
| 2/13/2015 | | | 6.6 | 2100 | 13.5 | ND | 76 | 56.7 | ND | ND | 244000 | ND | ND | ND | ND | 5.2 | 720 | ND | ND | 185000 | ND | ND | ND | 1390 | 137 | 458 | 543 |
| 8/21/2015 | 11.74 | | 6.7 | 2020 | 17.4 | ND | 2.1 | 63.5 | ND | ND | 238000 | ND | ND | 10 | ND | 5.6 | 570 | ND | ND | 161000 | ND | ND | ND | 1490 | 130 | 489 | 549 |

**Industrial Landfill Well 4** (ILGW-4)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/17/2004 | 10.68 | | 6.9 | 2200 | 19 | ND | ND | 75.7 | ND | ND | 291000 | ND | ND | ND | ND | 5.53 | 2200 | ND | ND | 146000 | ND | ND | ND | 1460 | 177 | 453 | 415 |
| 1/21/2005 | 10.3 | | 6.9 | 2350 | 16 | ND | ND | 79 | ND | ND | 287000 | ND | ND | ND | 9.08 | ND | 2810 | 25 | ND | 144000 | 10.2 | ND | ND | 1500 | 177 | 449 | 435 |
| 2/11/2005 | 18.4 | 29.76 | 6.8 | 2150 | 18 | ND | 119 | 85.9 | ND | ND | 285000 | ND | ND | ND | ND | ND | 2630 | 35 | ND | 137000 | ND | ND | ND | 510 | 194 | 451 | 437 |
| 2/25/2005 | 10.61 | 29.77 | 6.6 | 2100 | 17 | ND | ND | 72.8 | ND | ND | 304000 | ND | ND | ND | 5.17 | 5.67 | 2700 | 81 | ND | 145000 | ND | ND | ND | 1410 | 219 | 469 | 458 |

| Sample Date | Static Level ft | Total Depth ft | pH SU | Conductivity µmho/cm | Temp ° C | Sb µg/l | As µg/l | Ba µg/l | Be µg/l | Cd µg/l | Ca µg/l | Cr µg/l | Co µg/l | Cu µg/l | Pb µg/l | Ni µg/l | K µg/l | Se µg/l | Ag µg/l | Na µg/l | Th µg/l | Vn µg/l | Zn µg/l | TDS µg/l | Chloride mg/l | Sulfate mg/l | Alkalinity mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/29/2005 | 10.65 | 29.76 | 6.7 | 2000 | 17 | ND | 17 | 74.2 | ND | ND | 268000 | ND | ND | ND | ND | 5.69 | 2780 | ND | ND | 154000 | ND | ND | ND | 1490 | 203 | 505 | 446 |
| 6/24/2005 | 9.06 | 29.76 | 6.7 | 2030 | 19 | ND | ND | 74 | ND | ND | 325000 | ND | ND | ND | ND | ND | 2120 | ND | ND | 158000 | ND | ND | ND | 1630 | 154 | 424 | 430 |
| 8/15/2005 | 11.11 | 29.76 | 6.6 | 2110 | 20 | ND | ND | 79.5 | ND | ND | 293000 | ND | ND | ND | ND | 6.38 | 3510 | ND | ND | 151000 | ND | ND | ND | 1590 | 204 | 392 | 491 |
| 11/15/2005 | 10.9 | | 6.7 | 590 | 19 | ND | ND | 80.4 | ND | ND | 309000 | ND | ND | ND | ND | 9.4 | 3820 | ND | ND | 160000 | ND | ND | ND | 1510 | 212 | 476 | 544 |
| 2/10/2006 | 11.52 | | 6.6 | 2090 | 16 | ND | ND | 75.4 | ND | ND | 275000 | ND | ND | ND | ND | 5.7 | 3740 | ND | ND | 145000 | ND | ND | ND | 1530 | 216 | 412 | 622 |
| 5/26/2006 | 11.29 | | 6.7 | 2070 | 18 | ND | ND | 88.9 | ND | ND | 294000 | ND | ND | ND | ND | 6.5 | 5130 | ND | ND | 163000 | ND | ND | ND | 1440 | 200 | 397 | 484 |
| 2/9/2007 | 12.6 | | 6.7 | 1897 | 16 | ND | ND | 110 | ND | ND | 305000 | 5.0 | ND | ND | ND | 11.5 | 11700 | ND | ND | 173000 | ND | ND | ND | 1520 | 219 | 339 | 598 |
| 6/1/2007 | 10.2 | | 6.6 | 3940 | 18 | ND | ND | 84.6 | ND | ND | 280000 | ND | ND | ND | ND | 9.7 | 15100 | ND | ND | 168000 | ND | ND | ND | 1460 | 160 | 425 | 488 |
| 8/10/2007 | 14.88 | | 6.8 | 2380 | 20 | ND | ND | 100 | ND | ND | 270000 | 5.2 | ND | ND | 7.2 | 10.8 | 13500 | ND | ND | 150000 | ND | ND | ND | 1580 | 183 | 459 | 479 |
| 11/30/2007 | 15.85 | 29.75 | 6.9 | 2280 | 17.8 | ND | ND | 109 | ND | ND | 291000 | 5.5 | ND | ND | 7.9 | 14.8 | 12500 | ND | ND | 176000 | ND | ND | ND | 1290 | 195 | 298 | 62[illegible] |
| 3/1/2008 | 13.9 | 29.78 | 6.8 | 2650 | 17.3 | ND | ND | 104 | ND | ND | 296000 | ND | ND | ND | 5.7 | | 18500 | ND | | 163000 | | | | 1590 | 202 | 367 | 5[illegible] |
| 5/23/2008 | 13.82 | | 6.8 | 2010 | 17.7 | ND | ND | 105 | ND | ND | 282000 | ND | ND | ND | ND | 12.3 | 14900 | ND | ND | 170000 | ND | ND | ND | 1700 | 186 | 304 | 572 |
| 8/15/2009 | 13.03 | | 6.6 | 2360 | 20 | ND | ND | 103 | ND | ND | 288000 | ND | ND | ND | 9.1 | 10.0 | 9790 | ND | ND | 157000 | ND | ND | ND | 1490 | 206 | 432 | 535 |
| 11/24/2008 | 11.99 | | 6.7 | 2190 | 18.1 | ND | ND | 83 | ND | ND | 277000 | ND | ND | ND | ND | 6.9 | 9010 | ND | ND | 154000 | ND | ND | ND | 2190 | 187 | 342 | 536 |
| 2/27/2009 | 15.69 | 29.76 | 6.9 | 1940 | 15.8 | ND | ND | 104 | ND | ND | 281000 | ND | ND | ND | ND | 11.7 | 10600 | ND | ND | 164000 | ND | ND | ND | 1440 | 193 | 327 | 619 |
| 5/22/2009 | 14.7 | 29.77 | 6.7 | 1800 | 17.6 | ND | ND | 90.6 | ND | ND | 276000 | ND | ND | ND | ND | 8.7 | 8480 | ND | ND | 163000 | ND | ND | ND | 1440 | 167 | 366 | 524 |
| 8/21/2009 | 12.3 | 29.78 | 6.6 | 1900 | 18.0 | ND | ND | 110 | ND | ND | 297000 | ND | ND | ND | ND | 11.9 | 11300 | ND | ND | 179000 | ND | ND | ND | 1680 | 189 | 349 | 579 |
| 11/20/2009 | 14.13 | 29.77 | 6.7 | 2000 | 18.0 | ND | ND | 125 | ND | ND | 290000 | 6.1 | ND | ND | 9.5 | 12.7 | 14400 | ND | ND | 156000 | ND | ND | ND | 1400 | 163 | 299 | 544 |
| 2/12/2010 | 14.18 | 29.77 | 6.8 | 2000 | 16.1 | ND | ND | 117 | ND | ND | 266000 | ND | ND | ND | ND | 13.2 | 14300 | ND | ND | 164000 | ND | ND | ND | 1500 | 190 | 321 | 603 |
| 5/25/2010 | 12.25 | | 7 | 1820 | 18.6 | ND | ND | 104 | ND | ND | 269000 | ND | ND | ND | ND | 9.5 | 9580 | ND | ND | 154000 | ND | ND | ND | 1510 | 198 | 359 | 524 |
| 8/20/2010 | 12.62 | | 6.8 | 1800 | 18.3 | ND | ND | 115 | ND | ND | 256000 | ND | ND | ND | 5.7 | 11.5 | 14400 | ND | ND | 149000 | ND | ND | ND | 1360 | 171 | 342 | 516 |
| 10/22/2010 | 12.82 | | 6.8 | 1950 | 17.2 | ND | ND | 110 | ND | ND | 271000 | ND | ND | ND | ND | 10.6 | 12200 | ND | ND | 167000 | ND | ND | ND | 1420 | 197 | 334 | 516 |
| 2/18/2011 | 13.05 | | 6.8 | 1800 | 16.9 | ND | ND | 108 | ND | ND | 282000 | ND | ND | ND | ND | 10.9 | 10700 | ND | ND | 158000 | ND | ND | ND | 1460 | 208 | 384 | 498 |
| 4/29/2011 | 12.49 | | 6.7 | 1720 | 16.6 | ND | ND | 110 | ND | ND | 255000 | ND | ND | ND | ND | 11.5 | 10900 | ND | ND | 153000 | ND | ND | ND | 1550 | 200 | 349 | 536 |
| 8/23/2011 | 13.43 | | 6.7 | 1900 | 17.6 | ND | ND | 99.3 | ND | ND | 280000 | ND | ND | ND | ND | 10.1 | 8330 | ND | ND | 159000 | ND | ND | ND | 1510 | 186 | 338 | 532 |
| 10/21/2011 | 14.31 | | 6.7 | 1800 | 16.7 | ND | ND | 109 | ND | ND | 290000 | ND | ND | ND | ND | 11.7 | 9440 | ND | ND | 170000 | ND | ND | ND | 1340 | 192 | 342 | 580 |
| 1/31/2012 | 13.24 | 29.74 | 6.7 | 2000 | 16.5 | ND | ND | 97.6 | ND | ND | 261000 | ND | ND | ND | ND | 9.8 | 8310 | ND | ND | 160000 | ND | ND | ND | 1420 | 194 | 367 | 610 |
| 5/4/2012 | 9.78 | | 6.7 | 1900 | 16.5 | ND | ND | 95.4 | ND | ND | 261000 | ND | ND | ND | 6.9 | 9.9 | 8150 | ND | ND | 167000 | ND | ND | ND | 1390 | 193 | 334 | 521 |
| 8/17/2012 | 15.53 | | 6.8 | 1720 | 17.8 | ND | ND | 85.4 | ND | ND | 278000 | ND | ND | ND | 6.6 | 9.0 | 7980 | ND | ND | 151000 | ND | ND | ND | 1420 | 193 | 361 | 536 |
| 10/19/2012 | 13.47 | | 6.8 | 1800 | 16.2 | ND | ND | 108 | ND | ND | 250000 | ND | ND | 11 | 6.6 | 11.0 | 8660 | ND | ND | 170000 | ND | ND | ND | 1400 | 181 | 344 | 5[illegible] |
| 2/8/2013 | 12.82 | | 6.7 | 1900 | 15.9 | ND | ND | 95.5 | ND | ND | 258000 | ND | ND | ND | 7.8 | 10.4 | 6840 | ND | ND | 157000 | ND | ND | ND | 1280 | 179 | 356 | 50[illegible] |
| 5/17/2013 | 11.93 | | 6.7 | 1800 | 18.1 | ND | 124 | 94.2 | ND | ND | 281000 | ND | ND | 12 | 4.1 | 10.8 | 8090 | ND | ND | 165000 | ND | ND | ND | 1340 | 165 | 324 | 490 |
| 8/16/2013 | 9.61 | | 6.9 | 1500 | 20.6 | ND | ND | 147 | ND | ND | 183000 | ND | ND | ND | ND | 7.7 | 14300 | ND | ND | 113000 | ND | ND | ND | 1040 | 103 | 242 | 446 |