

SCS ENGINEERS



2014 Annual Report

Closed Leichner Landfill Vancouver, Washington Consent Decree 96-2-03081-7 Facility ID No. 1017

Prepared for:



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February 25, 2015
File No. 04215030.06/.17

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Appendix C	2014 Laboratory Analytical Data Reports (provided on the attached CD only)
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Appendix F:	Summary of 2014 Groundwater Statistical Calculations
Appendix G:	Groundwater Time-Concentration Graphs
Appendix H:	2014 Landfill Gas Probe Monitoring Data

A complete copy of this report is provided on the attached CD

1.0 INTRODUCTION

This annual report presents the results of groundwater, stormwater, and landfill gas (LFG) compliance monitoring performed during 2014 at the closed Leichner Landfill located in Vancouver, Washington (Figure 1-1). The report also summarizes landfill maintenance and repairs activities performed during 2014. SCS Engineers (SCS) performed the monitoring, maintenance, and repair activities and prepared this report on behalf of Clark County Bureau of Environmental Services (County) and the Leichner Landfill Oversight Committee (LLOC), whose members include the City of Vancouver and Leichner Brothers Land Reclamation Corporation (LBLRC).

Compliance monitoring of groundwater, stormwater (i.e., surface water), and LFG is performed at Leichner Landfill to fulfill certain requirements of the 1996 Consent Decree and associated Cleanup Action Plan (CAP), as well as to concurrently fulfill the requirements of Leichner Landfill's post-closure monitoring under Minimum Functional Standards (MFS), Chapter 173-304 of the Washington Administrative Code (WAC).

Compliance monitoring is performed in accordance with the methods and procedures described in the site's Compliance Monitoring Plan (CMP) submitted to the Washington Department of Ecology (Ecology) and Clark County Public Health (CCPH) in July 2013 (SCS, 2013a). The July 2013 CMP includes modifications to Leichner Landfill's monitoring programs approved by Ecology, as described in the 2013 annual report (SCS, 2014a).

One modification to the Leichner Landfill compliance reporting program was implemented in 2014. In April 2014, SCS prepared a letter (with technical justification) requesting approval from Ecology and CCPH to modify the frequency of reporting compliance monitoring and post-closure system performance information from quarterly to annually for the closed Leichner Landfill (SCS 2014b). Ecology approved eliminating quarterly progress reports in an email communication dated May 2, 2014.

1.1 SITE DESCRIPTION

The Leichner Landfill is a closed, 70-acre municipal solid waste landfill located in Clark County, Washington, about 5 miles northeast of downtown Vancouver (see Figure 1-1). The landfill operated from the late 1930s until 1991. Landfill closure occurred in phases during the summer seasons of 1989, 1990, 1991, and 1992, and included an engineered composite cap, a landfill gas collection and control system (GCCS), and a stormwater collection and control system.

1.2 HYDROGEOLOGY

The geology beneath the landfill site includes about 70 to 100 feet of alluvium, underlain by the upper member of the Troutdale Formation. The site hydrogeology consists of an approximately 10- to 40-foot thick unsaturated (vadose) zone, and an unconfined alluvial water-bearing zone (WBZ) which ranges in thickness from 35 to 45 feet. The alluvium generally consists of sand, and gravelly to silty sand. Underlying the alluvial WBZ is the upper member of the Troutdale Formation aquifer. The Troutdale Formation aquifer generally consists of sandy to cobbly gravel with minor amounts of silt

and clay. The alluvial WBZ and Troutdale Formation aquifer are separated by a silt aquitard (sandy silt and clayey silt) east and south of the landfill. Southwest of the landfill, the silt aquitard is absent and the two aquifers are locally in hydraulic communication. The Troutdale Formation aquifer and overlying aquitard have not been evaluated in the northern and western portions of the site.

2.0 GROUNDWATER MONITORING

2.1 GROUNDWATER MONITORING NETWORK AND SCHEDULE

The groundwater monitoring network at the Leichner Landfill is comprised monitoring wells screened in different depth-discrete zones in the alluvial WBZ and in the Troutdale Formation aquifer. The monitoring well locations are shown in Figure 2-1. The following describes the nomenclature used for monitoring well network components:

- Wells monitoring groundwater elevation and quality in the upper portion of the alluvial WBZ are denoted with an “S” in the well number (e.g., well LB-1S).
- Wells monitoring groundwater elevation and quality in the middle (or intermediate) portion of the alluvial WBZ are denoted with an “I” in the well number (e.g., LB-27I).
- Wells monitoring groundwater elevation and quality in the deeper Troutdale Formation aquifer are denoted with a “D” in the well number (e.g., well LB-1D).

The site groundwater monitoring wells are sampled annually or semiannually in accordance with the schedule specified in the 2013 CMP (SCS, 2013a). Groundwater samples collected during the annual monitoring event in conducted February 2014 included the following 20 monitoring wells: LB-1S, LB-1D, LB-3S, LB-3D, LB-4SR¹, LB-4D¹, LB-5S, LB-5D, LB-6S, LB-10SR, LB-10DR, LB-13I, LB-13D, LB-17I, LB-17D, LB-20S, LB-26I, LB-26D, LB-27I, and LB-27D. Groundwater samples collected during the semiannual monitoring event conducted in August 2014 included the following seven monitoring wells: LB-1S, LB-5S, LB-6S, LB-10SR, LB-13I, LB-26I, and LB-27I.

The first quarter (February) and third quarter (August) groundwater monitoring activities were performed in accordance with the procedures and methods described in the July 2013 CMP (SCS, 2013a). Field water-quality parameters (temperature, pH, specific conductance, dissolved oxygen) were monitored during sampling and recorded on field sampling data sheets (FSDSs; see Appendix A). Historical field parameter monitoring results are provided in Appendix B (see Table B-1).

Groundwater samples collected from the site monitoring wells were analyzed by Test America Laboratories, Inc., (TAL) in Beaverton, Oregon for the following parameters according to test methods specified in the CMP (SCS, 2013a): nitrate as nitrogen (nitrate), total dissolved solids (TDS), chloride (Cl), dissolved iron (Fe), dissolved manganese (Mn), and volatile organic compounds (VOCs). Laboratory analytical reports are provided in Appendix C (included on the attached compact disk [CD]).

¹ Background (upgradient) monitoring wells LB-SRD and LB-4D, along with well LB-4I, were decommissioned in August 2014 (after the third quarter monitoring event) in accordance with a work plan to decommission the monitoring wells submitted to Ecology and CCPH in May 2014 (SCS, 2014c). Decommissioning of these wells was approved by Ecology via email in July 2014 (Ecology, 2014).

2.2 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

Static groundwater levels measured on February 17 and August 12, 2014, were converted to groundwater elevations and are presented in Appendix D. Groundwater potentiometric surface contours depicting horizontal groundwater flow in the alluvial WBZ and the Troutdale Formation aquifer were interpreted using groundwater elevation data collected in February and August (see Figures 2-2 through 2-5). Groundwater flow in the alluvial WBZ was generally towards the west to southwest (see Figures 2-2 and 2-4). Groundwater flow in the Troutdale Formation aquifer was generally towards the south to southeast (see Figures 2-3 and 2-5). The 2014 groundwater flow directions are consistent with historical interpretations of groundwater flow conditions at Leichner Landfill.

Groundwater elevation hydrographs are provided in Appendix D. The 2014 groundwater elevation data are generally within the range of elevations measured historically and continued to show minor seasonal variations in some site wells. Between 1996 and 1999, water levels measured in the site monitoring wells screened in both the alluvial WBZ and Troutdale Formation aquifer were significantly higher, likely in response to increased precipitation during this period.

Differences in groundwater elevations in adjacent well pairs screened in the upper-most alluvial WBZ and Troutdale Formation aquifer appear to be influenced by the presence of the silt aquitard (sandy silt and clayey silt). Where the silt aquitard is present east and south of the landfill, groundwater elevations are about 20 to 30 feet higher in the alluvial WBZ (e.g., at wells LB-4¹ and LB-5) indicating hydraulic separation exists between the two groundwater zones. Monitoring well pairs located southwest of the landfill (i.e., at wells LB-1, LB-13 and LB-26), where the silt aquitard is absent, exhibited much smaller differences in groundwater elevations indicating that some degree of hydraulic connection between the two groundwater zones may exist.

2.3 GROUNDWATER QUALITY RESULTS

2.3.1 Data Quality Review

Groundwater monitoring field quality control/quality assurance (QA/QC) procedures included collecting field duplicate samples, field blanks, equipment blanks, and carrying trip blanks into the field. Laboratory QA/QC procedures included analyzing surrogate spikes, method blanks, matrix spikes, and matrix spike duplicates. The laboratory QA/QC results are included with the laboratory reports. TAL incorporated its laboratory data quality review comments in the QA/QC narrative of each laboratory report (see Appendix C).

Field and laboratory data and QA/QC procedures were reviewed by SCS to evaluate whether the data met U.S. Environmental Protection Agency (EPA) quality control requirements (see Appendix E). The QA/QC reviews indicated that the groundwater analytical data were acceptable for their intended use.

2.3.2 Volatile Organic Compounds

A summary table of historical VOC analytical results for groundwater samples collected from the site monitoring wells, including samples collected in 2014, is provided in Appendix B (see Table B-2). No confirmed detections of VOCs were identified in the groundwater samples collected in the first and third quarter 2014, including VOCs for which compliance levels have been established for Leichner Landfill (i.e., 1,4-dichlorobenzene, tetrachloroethene, and trichloroethene) (see Table B-2). The following VOCs were reported as estimated concentrations because they were detected below the method reporting limit (MRL) but above the method detection limit (MDL):

- 1,4-dichlorobenzene was detected at 0.23 micrograms per liter ($\mu\text{g/L}$) in the February 2014 groundwater from LB-20s, significantly below the 1.8 $\mu\text{g/L}$ compliance level.
- Chloroform was detected at concentrations from 0.19 to 0.37 $\mu\text{g/L}$ in groundwater samples collected from two wells (LB-3S and LB-5S in February) and in one field blank sample collected during the August 2014 monitoring event. Chloroform is a common laboratory contaminant and the detected concentrations are likely the result of laboratory contamination.

The 2014 VOC analytical data continue to demonstrate that the post-closure, remedial action measures implemented at LBLF (i.e., maintenance of the engineered landfill cap, operation of the GCCS, and stormwater controls) continue to be effective at reducing VOC concentrations to either below method reporting limits or substantially lower than compliance levels.

2.3.3 Inorganic Parameters and Dissolved Metals

A summary table of historical analytical results for the inorganic parameters (nitrate, Cl, and TDS) and dissolved metals (Mn and Fe) is provided in Appendix B (see Table B-3). Results of statistical analysis (using the methodology described below) of laboratory data for these parameters in groundwater samples collected from the monitoring wells is presented in Appendix F. Time-concentration diagrams for these parameters are provided in Appendix G.

In general, the 2014 groundwater analytical results for inorganic parameters and dissolved metals were consistent with historical data, as discussed in the sections below.

2.3.3.1 Statistical Method for Evaluating Groundwater Analytical Data

Leichner Landfill groundwater quality data from 2010 through 2014 for inorganic parameters (nitrate, Cl, and TDS) and dissolved metals (Mn and Fe) were statistically evaluated using the MTCA Stat 97 program.² The program identifies if the data show a normal, lognormal, or non-parametric distribution. For normally and lognormally distributed data, the 95th percent upper confidence limit (UCL-95) of the mean was calculated. For distributions that were non-parametric (i.e., data not distributed normally or lognormally), data values were ranked and an estimate of the UCL-95 was determined using the Van der Parren method, as described in Statistical Guidance for Ecology Site Managers (Ecology, 1992). For non-parametric data, the Van der Parren method defaults to the highest reported value.

² MTCA Stat97 was obtained from Ecology's website: <http://www.ecy.wa.gov/programs/tcp/tools/Mtca.exe>.

The MTCA Stat97 program utilizes the Land Method for calculating the UCL-95 of the mean for lognormally distributed data. The Land Method is known to be sensitive to data distributions that deviate from lognormal. The method may commonly yield estimated UCL-95 values substantially larger than anticipated when data distributions are not truly lognormal, if variance or skewness is large (U.S. Environmental Protection Agency [EPA], 2002). When sample sizes are small and the variance is large, the method can be impractical. This resulted in UCL-95 values that exceeded the range of concentrations for the following inorganic parameters and monitoring wells:

- Fe data for wells LB-6S, and LB-20S.
- Mn data for well LB-17I.

In these cases, the highest reported values from the last 5 monitoring years were selected (see Table 2-2). Table 2-2 provides a summary of calculated UCL-95 of the mean values, along with groundwater compliance levels established in the Consent Decree and CAP. Calculated UCL-95 values exceeded compliance levels in some monitoring wells for dissolved Fe and Mn, as discussed in the following section

2.3.3.2 Dissolved Fe and Mn

The UCL-95 values for dissolved Fe and/or Mn exceeded their respective compliance levels (0.3 and 0.05 mg/L, respectively) in groundwater samples collected from the following monitoring wells: LB-6S (Fe only), LB-17I (Fe and Mn), LB-17D (Mn only), LB-20S (Fe and Mn), and LB-27I (Mn only) (see Table 2-2). These exceedances are consistent with historical evaluations.

Historical groundwater data (see Appendix B, Table B-3) indicates that Fe and/or Mn concentrations in groundwater collected from a few wells located downgradient and in close proximity to the landfill (i.e., LB-17I, LB-17D, and LB-20S) have exceeded the compliance levels in 2014. However, exceedances of the compliance levels for Fe and/or Mn in groundwater collected from these wells may be reflective, in part, of natural variations in groundwater chemistry, as previously reported to Ecology, based on the following:

- Historical Fe and Mn concentrations in former upgradient monitoring well LB-4SR¹ and cross-gradient wells LB-3S, LB-5S, and LB-10SR screened in the shallow alluvium WBZ have shown sporadic concentrations above the compliance levels.
- Concentrations of Fe in groundwater from well LB-20S in 2014 were below the compliance level, and over the last 5 years have fluctuated above and below the compliance level. Generally, the Fe concentrations in groundwater collected from LB-20S have been below the compliance level of 0.3 mg/L since 2006.

2.3.3.3 Groundwater Concentration Trends

In addition to the statistical evaluation, time-series concentration plots were generated for each of the inorganic parameters tested (see Appendix G). The time-concentration plots were evaluated visually to assess whether parameter concentrations have increased, decreased or remained stable. Inorganic parameter concentrations in groundwater collected from alluvial WBZ wells and Troutdale Formation

wells show either stable or decreasing trends, except for nitrate concentrations in groundwater samples collected from wells LB-4D¹, LB-10DR, and LB-27D and Cl concentrations in well LB-1D and LB-4D¹. These increases in concentrations are believed to be reflective of regional groundwater conditions considering that LB-4D is a former upgradient (background) monitoring well.

It is noteworthy that Cl, TDS, Fe, and Mn in groundwater collected from wells located downgradient and in close proximity to the landfill (including LB-17I, LB-17D, and LB-20S) exhibit pronounced decreasing concentration trends from 1996 and 2000 (see time-concentration plots in Appendix G). These decreasing concentration trends were likely in response to the construction, operation, and maintenance of Leichner Landfill's post-closure systems, including the landfill cover system and the stormwater control and collection system, which significantly reduced the potential for leachate to be generated. The concentrations of these inorganic parameters in groundwater samples collected from these wells have remained relatively constant since about 2000.

2.4 SUMMARY OF GROUNDWATER QUALITY RESULTS

Laboratory analytical results of groundwater samples collected from site monitoring wells in 2014 indicate that groundwater quality is not being affected by the closed Leichner Landfill as evidenced by the following:

- Laboratory results continue to show that VOCs are predominantly absent or are present concentrations well below compliance levels.
- The concentrations of most inorganic indicator parameters in groundwater samples collected from monitoring wells located downgradient of the former waste cells have either remained generally stable or show decreasing trends.

Pronounced decreases in the concentrations of Cl, TDS, Fe, and Mn in groundwater collected from wells located downgradient and in close proximity to the landfill (i.e., LB-17I, LB-17D, and LB-20S) starting in 1996 indicate that institutional controls, including capping the landfill surface, actively collecting and flaring LFG, and implementing stormwater control and collection, have been effective at mitigating leachate generation and improving groundwater quality.

3.0 STORMWATER MONITORING

In 2009, Ecology issued a renewed General Permit effective January 1, 2010, for industrial facilities. The General Permit (No. WAR005572B) allows Leichner Landfill to discharge stormwater from the facility to nearby Curtin Creek. In accordance with the General Permit, SCS (on behalf of the County) prepared an updated Storm Water Pollution and Prevention Plan (SWPPP) (SCS, 2013b).

3.1 STORMWATER MONITORING NETWORK AND SCHEDULE

3.1.1 Quarterly Stormwater Monitoring Station

One stormwater discharge location has been identified for the Leichner Landfill and is designated as Outfall 1. Outfall 1 is located at the pump station at the northern end of the North Detention Pond (see Figure 3-1). Outfall 1 receives stormwater runoff from the landfill surface area.

Stormwater samples were collected at Outfall 1 quarterly in 2014 in accordance with the methods and schedule described in the General Permit and SWPPP (SCS, 2013b). The quarterly samples were collected on February 18, May 8, July 23, and October 14, 2014. The quarterly stormwater samples were analyzed by TAL for the General Permit-required parameters including turbidity, pH, total copper and zinc.

3.1.2 Monthly Visual Inspection

SCS performed monthly visual inspections in 2014 during storm events, if any occurred in a given month that could result in stormwater being potentially discharged at Outfall 1. The inspections included examining stormwater discharge at Outfall 1 (if observed) and inspecting the stormwater conveyance system (drainage ditches and culverts) and areas where equipment and materials are stored (e.g. blower-flare station). Observations were documented on a SWPPP monthly inspection form.

Stormwater discharge at the North Detention Pond pumps (i.e., Outfall 1) are water-level float activated or can be manually activated at the pump control box. If the Outfall 1 pumps are not activated by the water-level in the North Detention Pond during a monthly inspection, then SCS would manually turn on the pumps to create discharge at the facility.

3.1.3 Stormwater Monitoring Results

Stormwater discharge monitoring reports (DMRs) describing the results of stormwater analytical results obtained in 2014 were submitted to Ecology on a quarterly basis in accordance with the 2009 General Permit, using the Ecology WebDMR submittal system. The quarterly DMR reports were submitted via WEB DMR on April 14, June 3, August 8, and December 4, 2014. The analytical results of stormwater samples collected in 2014 indicated that stormwater quality benchmark concentrations specified in the General Permit were not exceeded.

3.1.4 Modifications to Stormwater Control and Collection System

A backup pneumatic, 2-inch, dual diaphragm pump was installed in 2014 inside the vault of the Module 2 stormwater collection system (constructed in 2013). The purpose of the backup pump is to supply additional pumping capacity during seasonal high flow storm events. The pump is capable of pumping up to 80 gallons per minute at 100 pounds per square inch pressure.

Additionally, re-grading of the drainage area around the Module 2 stormwater improvement collection trench was completed in 2014 as part of the extension of the geomembrane cover system in the northwest corner of Module 2. Work consisted of regrading and installing 8,000 square feet of geomembrane covering the existing extent of refuse identified outside the Module 2 footprint during construction of improvements to the stormwater collection system in 2013. The construction activities were accomplished in substantial conformance with the design intent, permit conditions, and construction drawings dated June 20, 2014, and with technical specifications dated July 1, 2014 that were prepared by SCS and submitted to and approved by the County. A report documenting the stormwater improvement construction activities, including record drawings of the construction and existing site conditions, was submitted to the County under separate cover (SCS, 2014d).

4.0 LANDFILL GAS MONITORING

LFG monitoring at Leichner Landfill is performed to (1) fulfill compliance monitoring requirements in LFG monitoring probes along the perimeter of the landfill, (2) evaluate and adjust (i.e., balance) the LFG extraction well network, and (3) assess the performance and efficiency of the GCCS, including the LFG flare and blower.

4.1 COMPLIANCE LFG MONITORING PROBE NETWORK AND SCHEDULE

A GCCS was initially installed at the Leichner Landfill in 1978 in response to offsite migration of LFG. The system has been modified several times over the years, including installation of a single, smaller enclosed flare station in 2007 in response to decreasing methane production. The current GCCS includes a LFG extraction well field with over 90 gas extraction wells, a condensate collection system, and a LFG blower and flare station. Additionally, there are 50 compliance LFG monitoring probes. The GCCS components and monitoring probes are show in Figure 4-1.

The compliance LFG monitoring probes are located along the perimeter of the landfill property boundary to monitor subsurface LFG migration, and in areas within the property to more closely monitor the performance of the GCCS. Compliance LFG monitoring probes constructed as dual-completion probes (i.e., a shallow and deep probe constructed within the same borehole) are designated with an “A” for the shallow probe and “B” for the deep probe. Compliance LFG monitoring probes with the same probe number but constructed in different boreholes are designated with an “S” for the shallow probe and “D” for the deep probe.

The compliance LFG monitoring was performed quarterly in 2014, as approved by Ecology (Ecology, 2011). Quarterly compliance monitoring of the LFG monitoring probes was performed on March 18, May 30, September 11, and December 19, 2014.

4.2 COMPLIANCE LFG MONITORING RESULTS

LFG monitoring probe data for 2014 are provided in Appendix H. LFG compliance monitoring performed in 2014 indicated that methane concentrations were below the MFS (Chapter 173-304 WAC) regulatory limit of 5 percent methane (by volume) in the site perimeter compliance probes, except for methane concentrations measured in LFG probes GP-7 (at 10.1 percent) and GP-9A (at 13.9 percent) on December 19, 2014. In response to these exceedances, adjustments to the GCCS LFG extractions wells were performed. GP-7 and GP-9A were re-monitored on January 8, 2015. The re-monitoring indicated that methane concentrations were below the MFS compliance level (re-measured concentrations were 0.7 and 0 percent, respectfully, in probes GP-7 and GP-9A).

4.3 LFG EXTRACTION WELLS

The LFG extraction wells (see Figure 4-1) were monitored and adjusted (balanced) semi-monthly (twice a month) during 2014 to maintain balanced and efficient LFG extraction rates. There were no significant problems or concerns noted during monitoring and adjustment of the LFG extraction wells.

4.4 LFG FLARE MONITORING

The LFG flare systems were monitored regularly (i.e., at least weekly) in 2014. The monitored parameters include LFG composition, static pressure, flow rate, and temperature measured at the flare inlet. In addition, the flare operating temperature was also measured and recorded. The flare system is equipped with a continuous monitoring system, which measures and records the flare operating temperature, inlet LFG flow rate, and inlet LFG oxygen concentration. The data are stored and periodically downloaded for permanent recordkeeping. In accordance with Southwest Clean Air Agency (SWCAA) requirements, an Annual Emissions Estimate report documenting the flare monitoring data will be submitted to the SWCAA under separate cover in accordance with the conditions under Appendix A, Section 3, Monitoring/Record Keeping Requirements, Item 3c, of Order of Approval SWCAA 94-1637.

4.5 GREENHOUSE GAS MONITORING

In November 2013, SCS completed an evaluation (and associated calculations) to determine if the Leichner Landfill is required to report greenhouse gas (GHG) monitoring results (and perform future weekly GHG monitoring) pursuant to the state of Washington GHG rule based on emissions data collected in 2013. The evaluation showed that the Leichner Landfill is exempt from GHG reporting (and from future weekly monitoring) per the Washington State's GHG Rule. Consequently, weekly GHG monitoring was suspended beginning in January 2014.

5.0 LANDFILL MAINTENANCE AND REPAIR

The repair and maintenance activities performed in 2014 are summarized in the following sections. Routine operations, maintenance, and repair of the GCCS performed in 2014 included the following:

- Performing checks and adjustments to the operational settings of the LFG flare system.
- Performing maintenance and repairs (as needed) of the LFG flare system, condensate collection system, including the condensate sumps, airlines, discharge lines, and compressors.
- Performing minor maintenance and repairs (as needed) of the LFG extraction wells and conveyance piping (e.g., repair of hoses, fittings, and valves).
- Conducting semi-monthly adjustments (i.e., balancing) to the north and south LFG extraction wells.
- Reviewing and uploading the LFG extraction well monitoring data into SCS's site-specific Data Services database for the Leichner Landfill project.
- Coordinating periodic pumping and disposal of condensate from the site condensate tank.

Other noteworthy non-routine maintenance, repair, and replacement activities related to the Leichner Landfill's post-closure systems and equipment performed monthly in 2014 are described below.

5.1 FIRST QUARTER

5.1.1 January

- Repaired various leaks from separated LFG lines and S-2 condensate trap. Replaced line coupling hose as needed.
- Performed periodic supplemental pumping of the Module 2 stormwater vault.
- Planned and performed test pitting along the southern perimeter and northwest corner of Module 2. Work performed including logging the tests pit and identifying the presence and edge of liner.

5.1.2 February

- Upgraded the site remote monitoring and control (RMC) system. Activities performed included (1) installing a new programmable logic controller (PLC) at the blower-flare station (BFS), (2) mounting transducers in pond pumping vaults and wiring them to the RMC, and (3) incorporating relays to monitor run-times of the North Detention Pond pumps. SCS also programed the recently installed variable frequency drive (VFD) to operate on flow or vacuum. The recently installed Rosemount Pressure Transducer was also wired to the master PLC.
- Repaired various leaks from separated LFG lines. Replaced line coupling hoses as needed.

- Performed periodic supplemental pumping of the Module 2 stormwater vault.
- Installed new QED[®] AP-4 bladder pump in condensate sump.

5.1.3 March

- Repaired various leaks from separated LFG lines. Replaced line coupling hoses as needed.
- Performed periodic supplemental pumping of the recently installed stormwater collection vault and of ponded stormwater along the southern and southeastern perimeter of Module 2.
- Completed upgrades to the site remote monitoring and control (RMC) system and performed testing and debugging of the new components of the RMC system, including the new PLC, remounted transducers in pond pumping vaults, and relays to monitor pump run-times of the North and South Detention Pond pumping systems.
- Installed a new 6-inch-diameter drain line along the southern perimeter of the Module 2 area to mitigate discharge of stormwater onto the Waste Connections hauling facility, and covered the area with straw to minimize erosion.
- Performed trenching and installed appropriately 300 feet of a new compressed air line as part of the installation of a backup compressor for the condensate collection and removal system and Module 2 stormwater pumping system.
- Conducted testing and inspection of the tank thickness for the backup compressor before it was incorporated in the condensate collection system.

5.2 SECOND QUARTER

5.2.1 April

- Conducted an evaluation with the Grunfos pump contractor of the float switch operations in both the North and South Detention Pond pump vaults on April 9, 2014.
- Installed pressure gauges on each discharge line of the North Detention Pond pumps on April 22, 2014. The pressure gauges will facilitate estimating gallons pumped from the North Detention Pond monitored by the RMC system.
- Coordinated purchase of a new QED pump for use in the condensate sump to replace the AP-4 pump originally purchased for use in the stormwater collection vault, and obtained quotes for replacing the lid for the Module 2 stormwater collection vault.
- Installed a new security camera in the blower-flare station and incorporated the new camera in the RMC system.

5.2.2 May

- Repaired several air leaks associated with northwest (NW) extraction wells which resulted in high oxygen shutdown of the BFS.
- Installed new Veridian Systems pneumatic and gauge in the Module 2 stormwater collection vault.
- Prepared and submitted to the County a technical memorandum comparing and evaluating sizing options for a diaphragm pump to enhance the Module 2 stormwater collection vault pumping system. The memorandum provided SCS's recommendation on the preferred option for pump size considering cost and performance criteria. With the County's approval, SCS began the process of purchasing the new diaphragm pump and float system.

5.2.3 June

- Repaired several air leaks associated with LFG extraction wellheads and associated piping, which resulted in high oxygen shutdown of the flare.
- Review requirements for removing and/replacing the perimeter fence to accommodate planned construction related to the Module 2 cover extension project.
- Removed the existing silt fence along Module 2.

5.3 THIRD QUARTER

5.3.1 July

- Installed an air drain in the condensate sump and repaired air leak in the line.
- Added confined space signage at the condensate tank, Module 2 stormwater collection vault, and South Detection Pond pump station vault.
- Repaired air leaks at LFG extraction wells NW-30, NW-33, SE-17, SE-22, and SE 01 and installed new flex hosing at the wellheads.
- Temporarily removed the compressed air discharge line to the Module 2 stormwater collection vault to accommodate construction activities related to extending the Module 2 cover system over waste material encountered outside the landfill footprint.
- Purchased a high-capacity diaphragm pump and float control system from Megator Corp. and associated fittings to be installed in the Module 2 stormwater collection vault after the Module 2 cover extension project was completed.

5.3.2 August

- Coordinated and planned installation of the diaphragm pump upgrade in the Module 2 stormwater collection system vault.
- Coordinated and oversaw surveying activities related to the planned repairs of the stormwater collection and control system along the east and south sides of Module 2.
- Performed rigging of and removed lid for Module 2 stormwater collection vault. Installed one-foot concrete extension, new vault lid, and manway in the vault
- Completed initial excavation and construction for the Module 2 cover extension project including fence removal along Hardman property, silt fence installation, coordinate existing conditions surveying, and initial soil removal and grading.
- Removed the underground air and water discharge lines from the Module 2 stormwater collection vault to accommodate exposing and repairing/extending the cover system.

5.3.3 September

- Performed initial design and purchased parts and material for installing the backup diaphragm pump in the stormwater collection vault.
- Started Module 2 stormwater grading work to resolve ponding along the southern and northwestern portions of the Module. Work included area surveying and data reduction, completing the southern drainage control berm, installing a new culvert near gas well NW-35, supporting grading work conducted by County personnel, and performing initial grading beneath the liner in the NW corner of Module 2.
- Installed new discharge and air-lines to the stormwater collection vault.

5.4 FOURTH QUARTER

5.4.1 October

- Installed the high-capacity diaphragm pump in the stormwater collection vault located on the western side of Module 2.
- Purchase and installed a new transducer for the North Detention Pond RMC water level monitoring.
- Completed Module 2 grading work to resolve ponding along the southern, eastern and northeastern portions of the module. Work performed included (1) removing and repairing the existing liner after regrading the landfill cap in the northeastern portion of the module to facilitate drainage, (2) seeding the graded areas, and (3) installing erosion blankets along northern drainage ditch and above the liner repair location.

- Installed a silt fence along the southern portion of Module 2 along the Waste Connections property.
- Regraded areas along the southwestern portion of Module 2 to minimize stormwater ponding.

5.4.2 November

- Performed maintenance of the North and South Detention Pond pumps and the air compressor for the condensate collection and Module 2 stormwater pumping system.
- Repaired plumbing and air-line to the south compressor.
- Coordinated and oversaw pumping and disposal of the condensate tank liquid by Bravo Environmental.

5.4.3 December

- Evaluated flare and GCCS system performance to assess cause(s) of flare shutdown condition and performed on-site visits/project meeting with County in support of this activity.
- Evaluated issue with increased generation rate of condensate, and performed on-site visits/project meeting with County in support of this activity.

6.0 REFERENCES

- Clark County, 2013, Letter (Re: Request to discontinue analysis of groundwater samples for vinyl chloride and 1,1-dichloroethene: Leichner Brother Landfill, Clark County, Washington), to M. Kourehdar, Ecology, Toxics Cleanup Program, Olympia, Washington, from M. Davis, Clark County Environmental Services, Vancouver, Washington, February 5.
- SCS Engineers, 2011, Technical Memorandum, Response Comments to the Draft Periodic Review Document Dated December 2010 for the Leichner Brothers Landfill (Facility ID No. 1017), Vancouver, Washington, prepared for Clark County Environmental Services, Vancouver, Washington, by SCS Engineers, Portland, Oregon, March 30. SCS Engineers, 2013a, Compliance Monitoring Plan, Leichner Landfill, Clark County, Washington, prepared by SCS, Inc., Portland, Oregon, for Clark County Department of Environmental Services, July 30.
- SCS Engineers, 2013b, Stormwater Pollution Prevention Plan, Plan Date: July 2013, State of Washington, Industrial Stormwater General Permit, Permit Number: WAR005572B, Leichner Landfill. Prepared by SCS, Portland, Oregon, for Clark County, Vancouver, WA, July.
- SCS Engineers, 2014a, 2013 Fourth Quarter and Annual Monitoring Report, Closed Leichner Landfill, Vancouver, Washington, Consent Decree 96-2-03081-7, Facility ID No. 1017, prepared by SCS, Inc., Portland, Oregon, for Clark County Department of Environmental Services, February 27.
- SCS Engineers, 2014b, Request for Approval to Modify the Reporting Frequency for the Closed Leichner Landfill, Clark County, Washington, Facility ID No. 1017, prepared by SCS, Portland, Oregon, for Clark County, Vancouver, Washington, April 7.
- SCS Engineers, 2014c, Work Plan to Decommission Monitoring Wells LB-4C, LB-4D, and LB-4SR, Closed Leichner Landfill, Clark County, Washington, prepared by SCS, Portland, Oregon, for Clark County, Vancouver, Washington, May.
- SCS Engineers, 2014d, Documentation Report, Module II Cover Extension, Leichner Landfill. Prepared by SCS, Bellevue, WA, for Clark County Department of Environmental Services, Vancouver, WA, December 4.
- Washington State Department of Ecology, 1992, Statistical guidance for Ecology site managers, Publication No. 19-54, August.
- Washington State Department of Ecology, 2010, Draft Periodic Review, Leichner Brothers Landfill, Facility Site ID#: 1017, 9411 Northeast 94th Avenue, Vancouver, Washington, 98666, prepared by Ecology, Southwest Region Office, Toxics Cleanup Program, December.
- Washington State Department of Ecology, 2011, Periodic Review under Model Toxics Control Act (MTCA), Leichner Brothers Landfill, prepared by Ecology, Southwest Region Office, Toxics Cleanup Program, April 27.
- Washington State Department of Ecology, 2013, Email (re: Letter to WDOE requesting to Discontinue GW Sampling for VC and DCE) to M. Davis, Clark County Environmental Services, and L. Caruso, SCS Engineers, from M. Kourehdar, Ecology, Toxics Cleanup Program, February 12.

Washington State Department of Ecology, 2014, Email (RE: Work Plan to Decommission Off-Site Monitoring Wells LB-4SR, -4C, 4D: Closed Leichner Landfill, Vancouver, Washington, Consent Decree 96-2-03081-7, Facility ID No. 1017 (SCS Project 04214030.08)), to M. Davis, Clark County Department of Environmental Services, Vancouver, Washington, from M. Kourehdar, Ecology, Lacey, Washington, July 7.

U.S. Environmental Protection Agency (EPA), 2002, Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites, EPA, office of Emergency and Remedial Response, December.

TABLES

**Table 2-1
Top-of-Casing Elevation Data
for Site Monitoring Wells
Leichner Landfill**

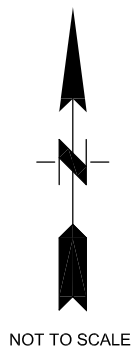
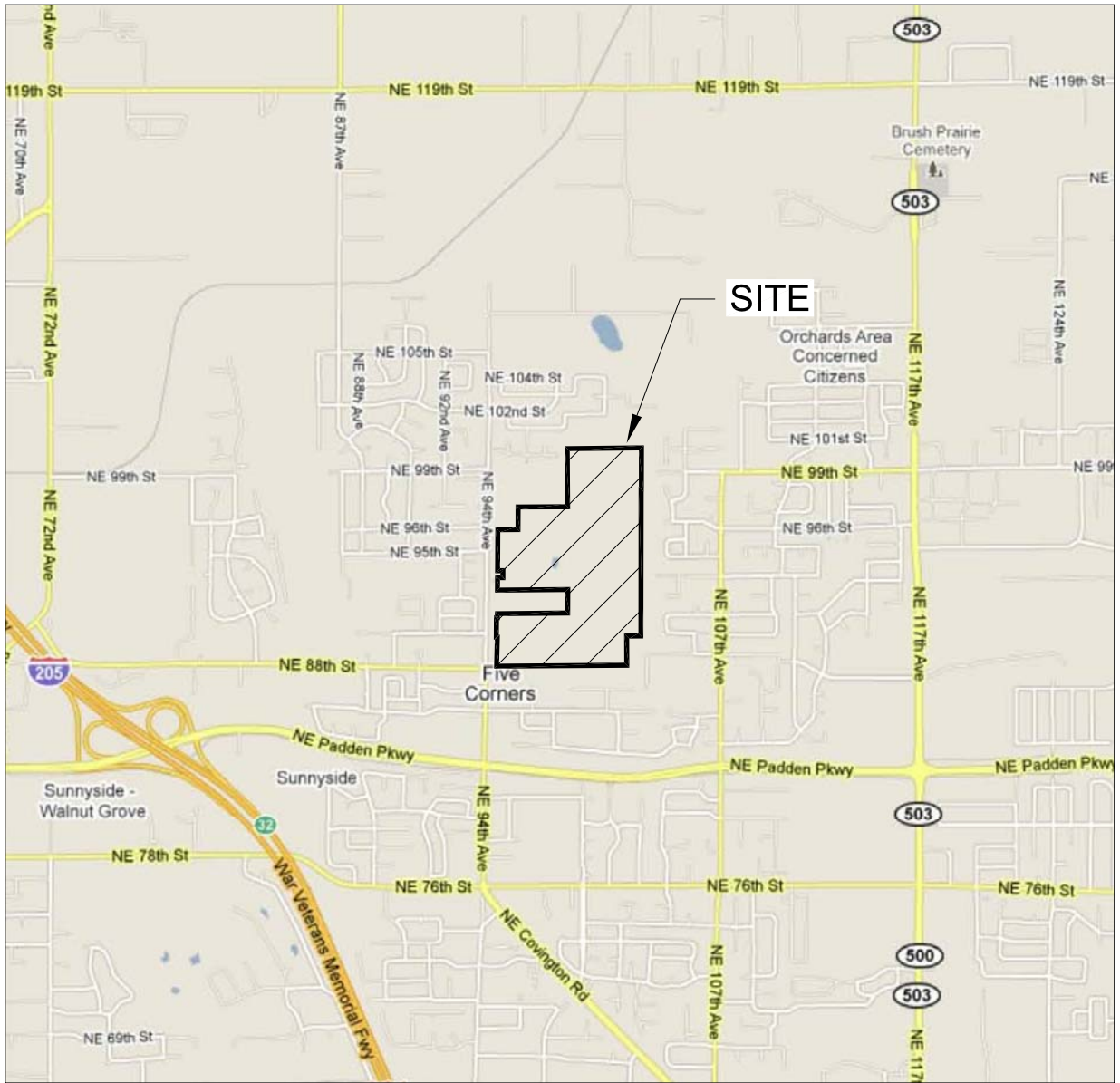
Monitoring Well	Reference Elevation (feet, Clark County Datum) ^a
LB-R2	222.27
LB-1S	210.12
LB-1D	209.74
LB-3S	218.25
LB-3D	219.29
LB-4S(R)	226.46
LB-4C	228.08
LB-4D	228.00
LB-5S	206.89
LB-5C	206.70
LB-5D	207.56
LB-6S	202.80
LB-9S(R)	217.94
LB-10SR	204.04
LB-10CR	203.05
LB-10DR	203.36
LB-13I	202.36
LB-13C	202.68
LB-13D	202.96
LB-17S	208.18
LB-17I	213.14
LB-17C	206.55
LB-17D	213.17
LB-20S	221.22
LB-21S	223.35
LB-21C	223.32
LB-21D	223.63
LB-22S	208.42
LB-23S	229.19
LB-24S	235.13
LB-26I	200.22
LB-26D	200.75
LB-27I	205.35
LB-27D	204.63
MW-1 N	216.58
MW-1 S	216.13
MW-1 E	216.45
MW-NE	220.06
Notes:	
^a Monitoring wells were resurveyed on May 30 and 31, 2012.	

Table 2-2
Statistical Summary of Groundwater Quality Data^a
95 Percent Upper Confidence Limit of the Mean^b
Leichner Landfill

Parameter	Compliance Level	Units	LB-1S	LB-1D	LB-3S	LB-3D	LB-4SR	LB-4D	LB-5S	LB-5D	LB-6S	LB-10SR	LB-10DR	LB-13I	LB-13D	LB-17I	LB-17D	LB-20S	LB-26I	LB-26D	LB-27I	LB-27D
<i>Inorganic Parameters</i>																						
Chloride	250	mg/L	M(19)	M(7.7)	M(3.7)	M(4.6)	M(5.36)	M(4.7)	M(7.3)	M(11.3)	M(9.8)	M(32)	M(26.0)	M(12)	M(4.6)	M(27.4)	M(19)	M(22.1)	M(8.52)	M(5.2)	M(51)	M(13)
Nitrate	10	mg/L	M(8.7)	M(6.14)	M(4.3)	M(5.76)	M(4.89)	M(8.7)	M(6.19)	M(1.7)	M(3.53)	M(5.97)	M(2.3)	M(5.31)	M(5.4)	All ND	All ND	M(0.1)	M(5.2)	M(6.5)	M(1.82)	M(4.2)
Total Dissolved Solids	500	mg/L	M(260)	M(200)	M(188)	M(201)	M(191)	M(180)	M(210)	M(240)	M(229)	M(330)	M(329)	M(220)	M(193)	M(306)	M(230)	M(361)	M(229)	M(194)	M(464)	M(245)
<i>Metals</i>																						
Iron (dissolved)	0.3	mg/L	All ND	M(0.036)	All ND	All ND	All ND	All ND	All ND	All ND	M(0.379)^c	All ND	M(0.047)	All ND	All ND	8.90	M(0.12)	M(0.368)^c	M(0.064)	All ND	M(0.032)	M(0.057)
Manganese (dissolved)	0.05	mg/L	M(0.002)	M(0.0058)	All ND	All ND	M(0.0034)	All ND	All ND	M(0.0026)	M(0.031)	M(0.0058)	M(0.032)	M(0.0041)	All ND	M(1.55)^c	4.52	3.26	M(0.010)	M(0.0034)	0.44	M(0.018)
<i>Volatile Organic Compounds</i>																						
1,1-Dichloroethene	0.1	µg/L	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND
1,4-Dichlorobenzene	1.8	µg/L	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	M(0.26)	All ND	M(0.25)	All ND	All ND	All ND	All ND
Tetrachloroethene	5	µg/L	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND
Trichloroethene	5	µg/L	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	All ND	M(0.81)	All ND	All ND	All ND	All ND	All ND	All ND

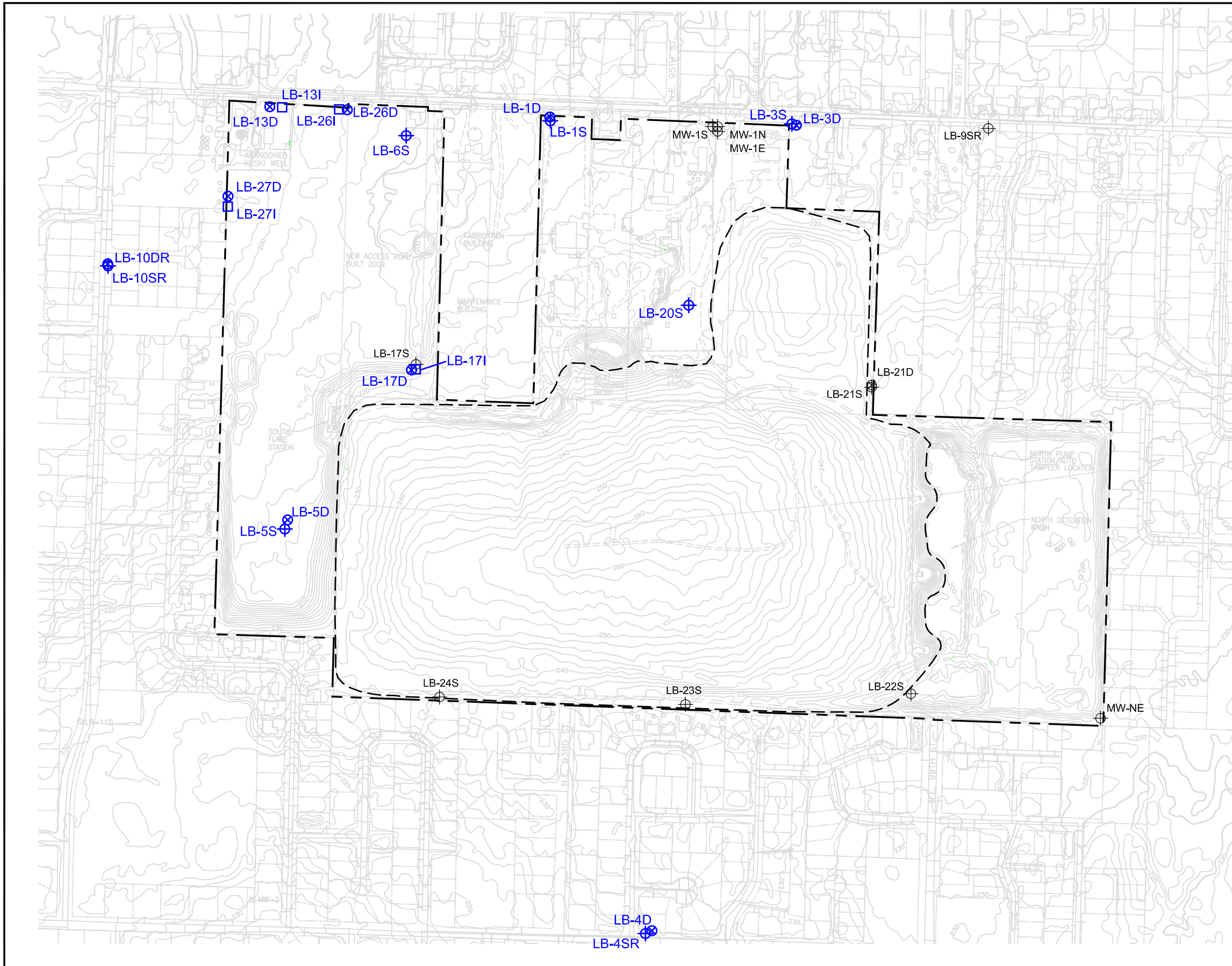
NOTE:
mg/L = milligrams per liter; µg/L = micrograms per liter; ND = indicates not detected over the past five years; M = maximum value detected in last five years shown in parenthesis.
Values shown in **bold** are greater than the specified compliance level.
^a Data evaluated for the last five years of monitoring (2010 through 2014). Statistical reduction completed on data with at least one compliance level exceedance over the 5-year period.
^b Values shown are the 95 percent upper confidence limit on the mean (UCL-95) calculated using MTCA Stat 97 program and Statistical Guidance for Ecology Site Managers.
^c Calculated UCL-95 value of lognormally distributed data exceeded the range of concentrations from 2010 to 2014 using Land's method; value shown represents the maximum value detected in the last five years.

FIGURES



SOURCE: GOOGLE MAPS

SCS ENGINEERS Environmental Consultants and Contractors 14945 SW Sequoia Parkway, Suite 180 Portland, Oregon 97224 (503) 639-9201 FAX: (503) 684-6948	PROJECT NO. 04215030.06/17	DES BY T.B.	SITE LOCATION MAP LEICHER LANDFILL CLARK COUNTY, WASHINGTON	DATE JANUARY 2015
	SCALE AS SHOWN	CHK BY J.B.		FIGURE
	CAD FILE FIGURE 1-1	APP BY L.C.		1-1

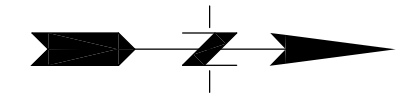


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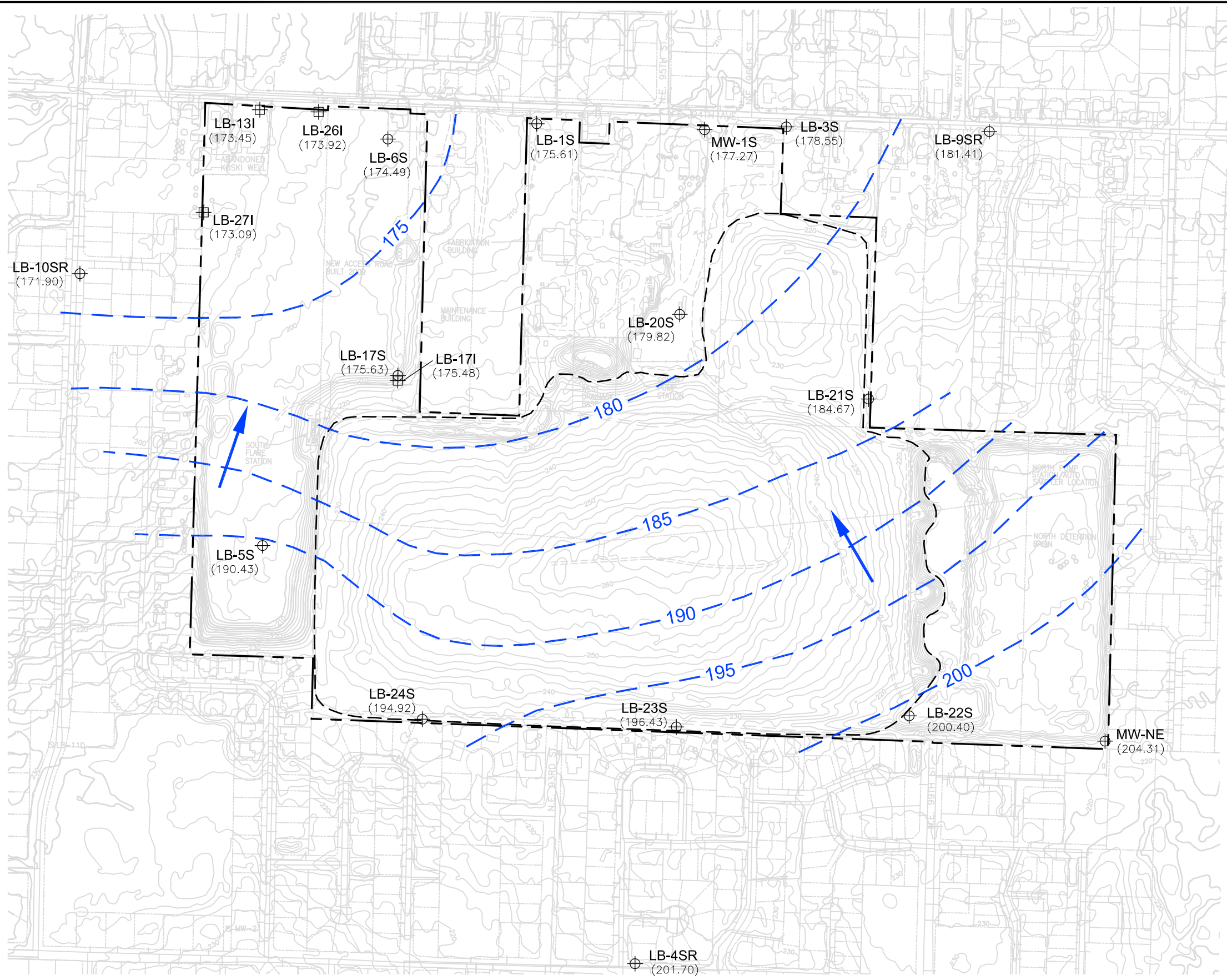
- LB-5S ⊕ Monitoring Well Location, Alluvial Water-Bearing Zone
- LB-5D ⊗ Monitoring Well Location, Troutdale Aquifer
- LB-17I □ Monitoring Well Location, Middle of Alluvial Water-Bearing Zone
- — — — — Property Boundary
- - - - - Limit of Landfill Cover and Approximate Edge of Waste

NOTES:

1. Monitoring wells designated by blue color are compliance monitoring wells.
2. Topography taken from Clark County GIS, December 2008.



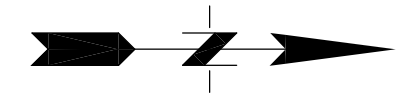
PROJECT NO. 04215030.06/17	DES BY T.B.
SCALE AS SHOWN	CHK BY T.B.
CAD FILE FIGURE 2-1	APP BY L.C.



LEGEND:

- LB-5S ⊕ Monitoring Well Location, Alluvial Water-Bearing Zone
- LB-17I ⊕ Monitoring Well Location, Middle of Alluvial Water-Bearing Zone
- Property Boundary
- - - - - Limit of Landfill Cover and Approximate Edge of Waste
- - - - -200- - - - - Groundwater Potentiometric Surface Contour
- (204.31) Groundwater Elevation Measured on February 17, 2014
- ➔ Inferred Groundwater Flow Direction

NOTE:
 Topography Taken From Clark County GIS, December 2008



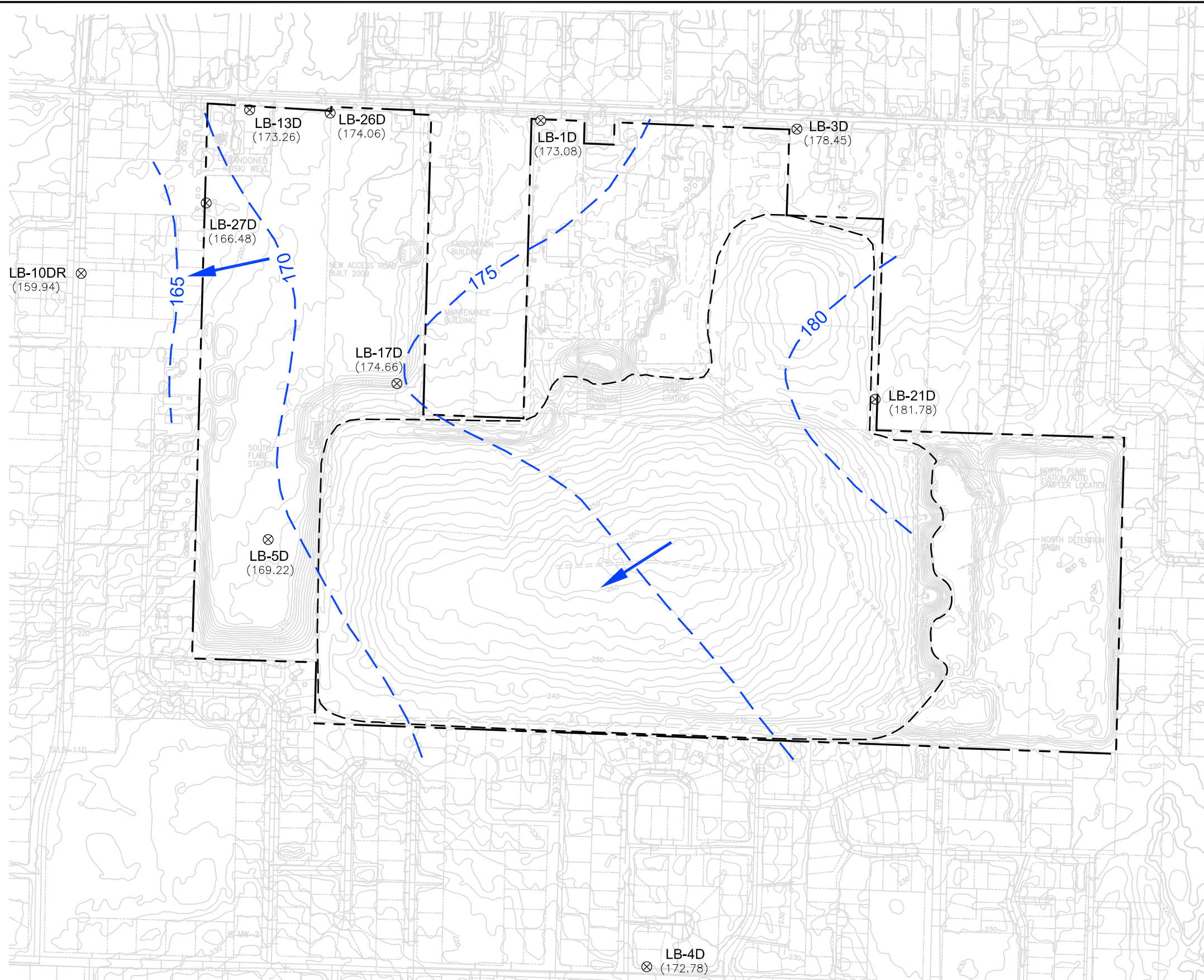
SCS ENGINEERS
 Environmental Consultants and Contractors
 14945 SW Sequoia Parkway, Suite 180
 Portland, Oregon 97224
 (503) 639-9201 FAX: (503) 684-6948



PROJECT NO.	04215030.06/17	DES BY	T.B.
SCALE	AS SHOWN	CHK BY	T.B.
CAD FILE	FIGURE 2-2	APP BY	L.C.

GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS
 ALLUVIAL WATER BEARING ZONE
 FEBRUARY 17, 2014
 LEICHTNER LANDFILL
 VANCOUVER, WASHINGTON

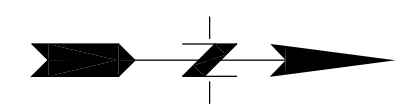
DATE
 JANUARY 2015
 FIGURE
2-2



LEGEND:

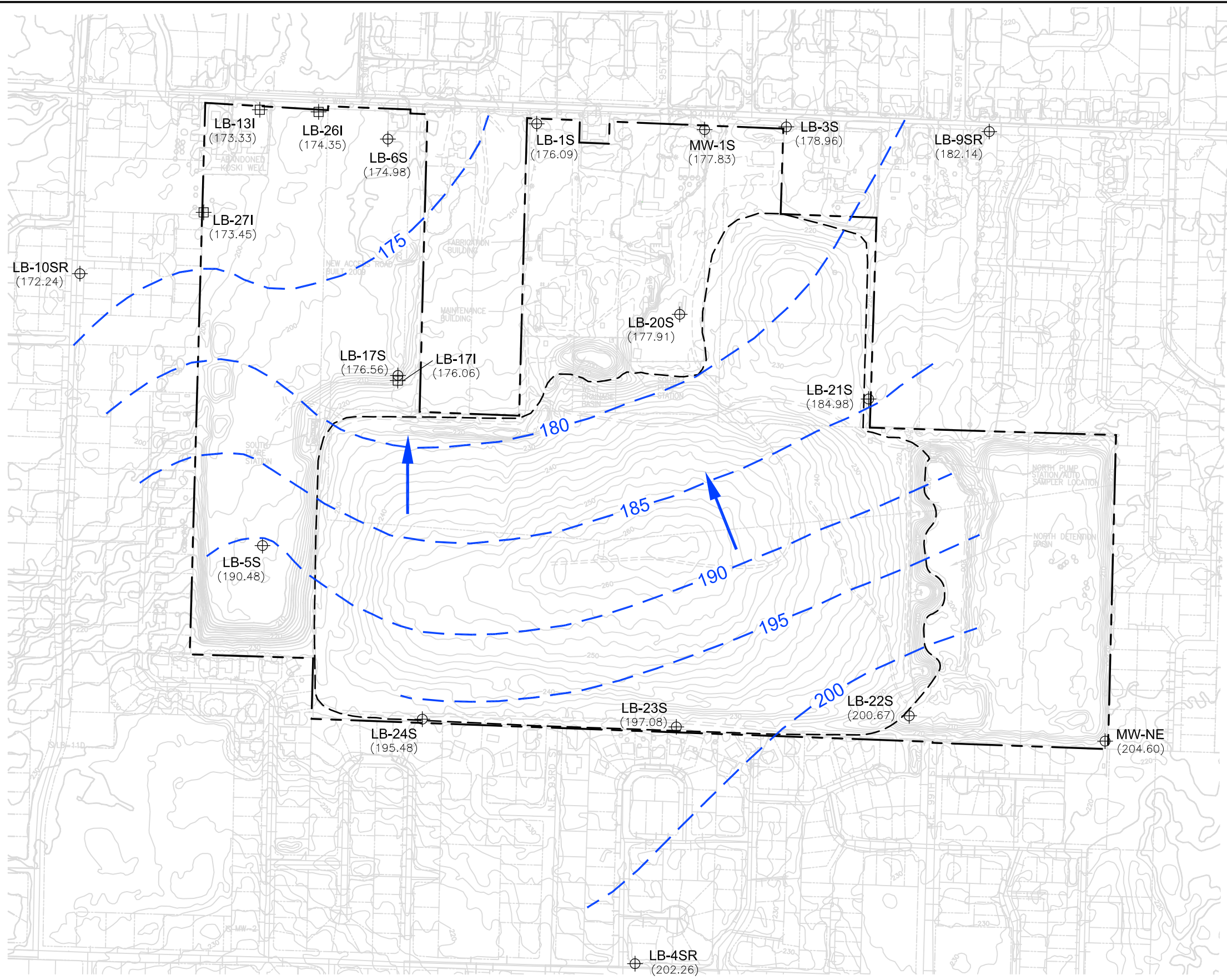
- LB-5D ⊗ Monitoring Well Location, Troutdale Aquifer
- Property Boundary
- · - · - Limit of Landfill Cover and Approximate Edge of Waste
- -180- - Groundwater Potentiometric Surface Contour
- (181.78) Groundwater Elevation Measured on February 17, 2014
- ➔ Inferred Groundwater Flow Direction

NOTE:
Topography Taken From Clark County GIS, December 2008



PROJECT NO. 04215030.06/17	DES BY T.B.
SCALE AS SHOWN	CHK BY T.B.
CAD FILE FIGURE 2-3	APP BY L.C.

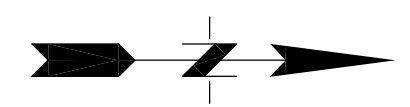
GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS
TROUTDALE FORMATION AQUIFER
FEBRUARY 17, 2014
LEICHTNER LANDFILL
VANCOUVER, WASHINGTON



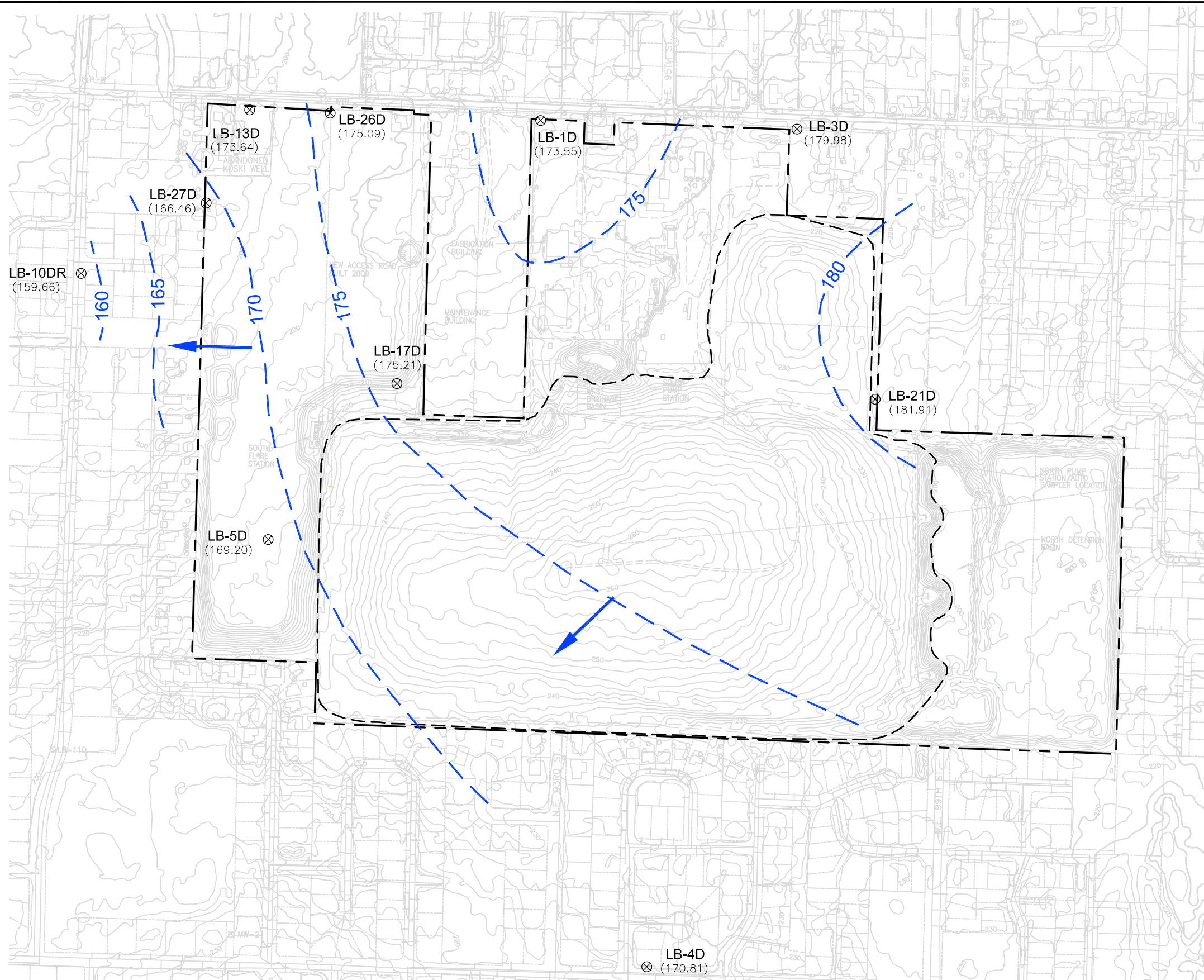
LEGEND:

- LB-5S ⊕ Monitoring Well Location, Alluvial Water-Bearing Zone
- LB-17I ⊕ Monitoring Well Location, Middle of Alluvial Water-Bearing Zone
- Property Boundary
- - - Limit of Landfill Cover and Approximate Edge of Waste
- -195- - Groundwater Potentiometric Surface Contour
- (204.60) Groundwater Elevation Measured on August 12, 2014
- ➔ Inferred Groundwater Flow Direction

NOTE:
Topography Taken From Clark County GIS, December 2008



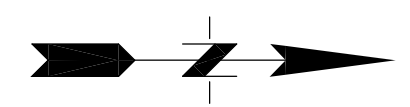
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SCALE	AS SHOWN	CHK BY	T.B.
CAD FILE	FIGURE 2-4	APP BY	L.C.



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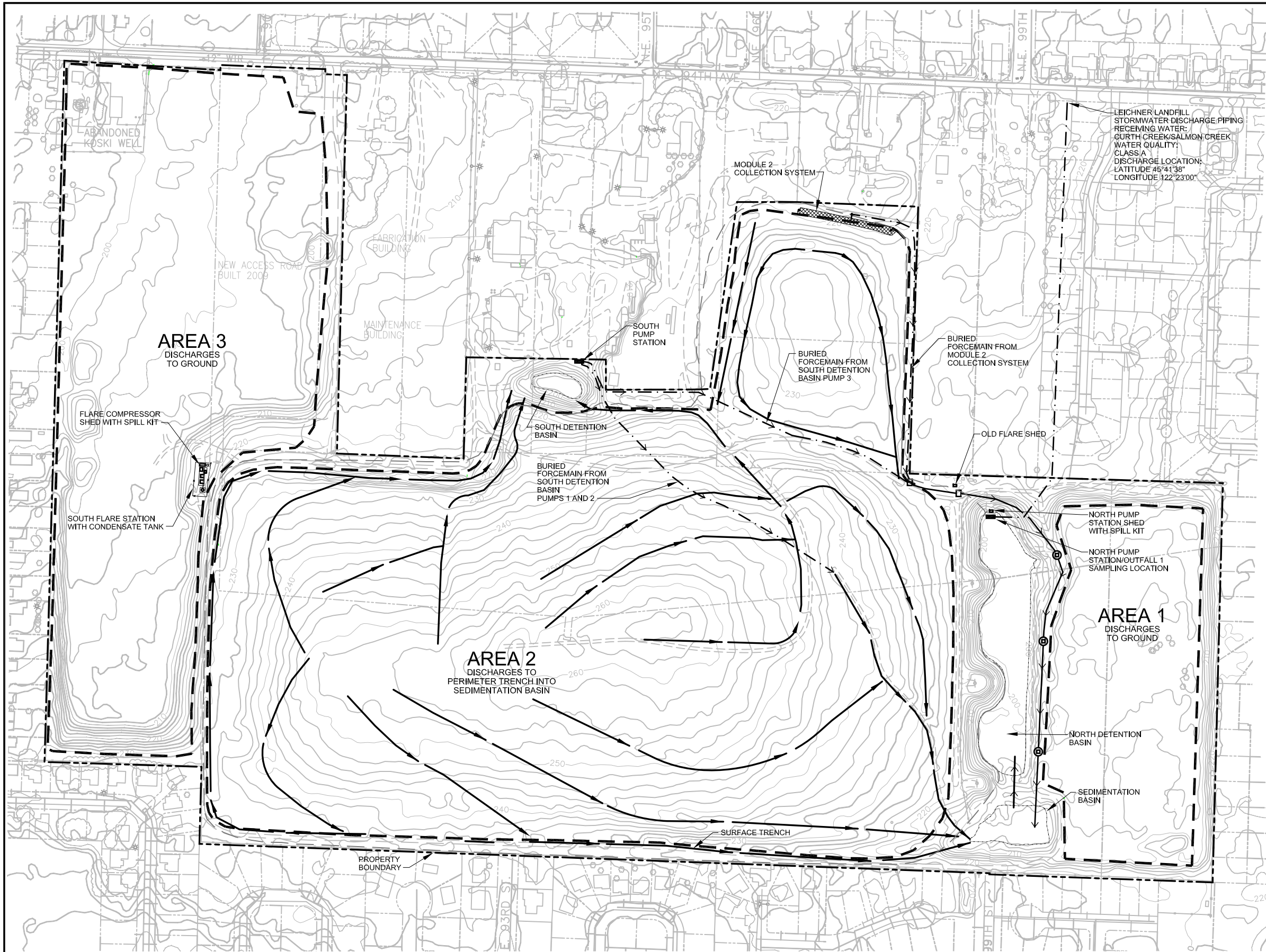
- LB-5D ⊗ Monitoring Well Location, Troutdale Aquifer
- Property Boundary
- Limit of Landfill Cover and Approximate Edge of Waste
- - -180 - - - Groundwater Potentiometric Surface Contour
- (181.91) Groundwater Elevation Measured on August 12, 2014
- ➔ Inferred Groundwater Flow Direction

NOTE:
Topography Taken From Clark County GIS, December 2008



PROJECT NO. 04215030.06/17	DES BY T.B.
SCALE AS SHOWN	CHK BY T.B.
CAD FILE FIGURE 2-5	APP BY L.C.

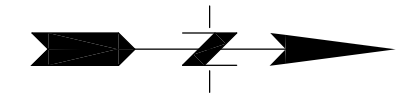
GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS
TROUTDALE FORMATION AQUIFER
AUGUST 12, 2014
LEICHER LANDFILL
VANCOUVER, WASHINGTON



LEGEND:

- Property Boundary
- Drainage Path
- Underground Stormwater Collection Piping
- Stormwater Forcemain
- Drainage Area Boundary
- Stormwater Forcemain Access Vault
- Stormwater Manhole
- Pump Station

NOTE:
Topography Taken From Clark County GIS, December 2008



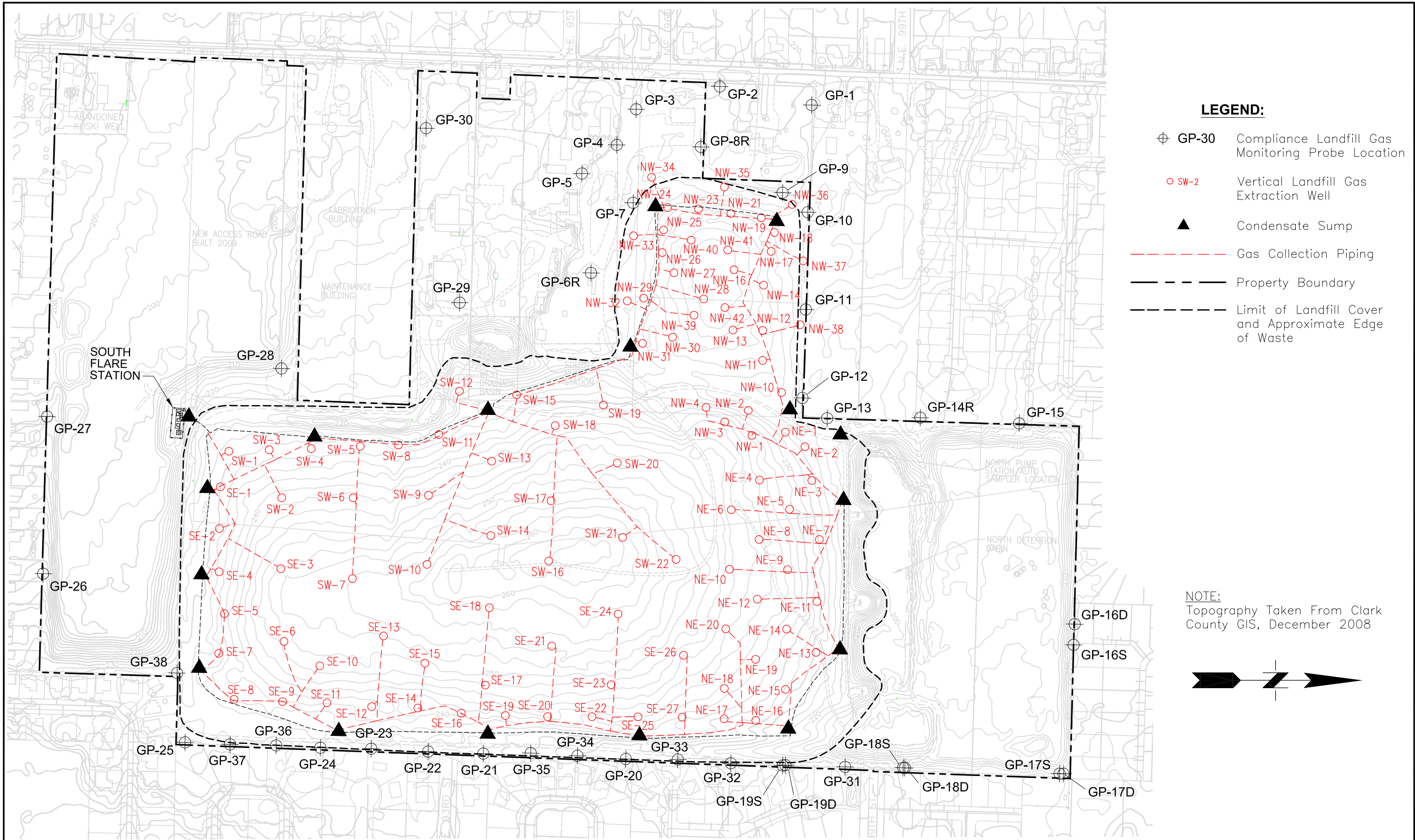
SCS ENGINEERS
Environmental Consultants and Contractors
14945 SW Sequoia Parkway, Suite 180
Portland, Oregon 97224
(503) 639-9201 FAX: (503) 684-6948



PROJECT NO. 04215030.06/17	DES BY T.B.
SCALE AS SHOWN	CHK BY T.B.
CAD FILE FIGURE 3-1	APP BY L.C.

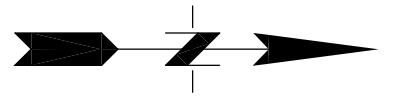
SITE MAP AND STORMWATER SYSTEM
LEICHER LANDFILL
VANCOUVER, WASHINGTON

DATE
JANUARY 2015
FIGURE
3-1



- LEGEND:**
- ⊕ GP-30 Compliance Landfill Gas Monitoring Probe Location
 - SW-2 Vertical Landfill Gas Extraction Well
 - ▲ Condensate Sump
 - - - Gas Collection Piping
 - - - Property Boundary
 - · · Limit of Landfill Cover and Approximate Edge of Waste

NOTE:
Topography Taken From Clark County GIS, December 2008



SCS ENGINEERS
Environmental Consultants and Contractors
14945 SW Sequoia Parkway, Suite 180
Portland, Oregon 97224
(503) 639-9201 FAX: (503) 684-6948



PROJECT NO.	04215030.06/17	DES BY	T.B.
SCALE	AS SHOWN	CHK BY	T.B.
CAD FILE	FIGURE 4-1	APP BY	L.C.

LANDFILL GAS PROBE AND
EXTRACTION WELL LOCATIONS
LEICHER LANDFILL
VANCOUVER, WASHINGTON

DATE
JANUARY 2015
FIGURE
4-1

APPENDIX A

2014 Field Sampling Data Sheets (FSDSs)

First Quarter (February) 2014 FSDSs

Lechner Landfill Groundwater Elevation Survey

Project #: 04214030.01.1.17

Sampler: T Andrews & McMillen

Quarter: (1) 2 3 4

Date: 2/17/14

Monitoring Point Designation	Reference Elevation (ft. msl)	DTB (ft. btoc)	DTW (ft. btoc)	Time	Comments
Monitoring Wells					
MW-1 N	216.58	15.00	NR	1217	Dry @ 15.0'
MW-1 S	216.13	44.50	38.86	1219	
MW-1 E	216.45	29.05	NR	1218	Dry @ 29.05'
MW-NE	219.83	50.34	15.75	1401	
LB-R2	222.27	77.36	46.81	1126	
LB-1S	210.12	45.00	34.51	1302	
LB-1D	209.74	137.45	36.66	1301	
LB-3S	218.25	52.50	39.70	1322	
LB-3D	219.29	117.28	40.84	1312	
LB-4SR	226.46	40.00	29.76	1150	
LB-4C	228.08	77.25	47.50	1155	
LB-4D	228.00	133.75	55.22	1300	
LB-5S	206.89	30.32	16.46	1059	
LB-5C	206.70	74.71	34.03	1057	
LB-5D	207.56	122.40	38.34	1000	
LB-6S	202.80	39.07	28.31	1031	
LB-9SR	217.94	49.60	36.53	1030	
LB-10SR	204.04	42.35	32.14	1026	
LB-10CR	203.05	71.95	31.04	1022	
LB-10DR	203.36	121.10	43.42	1024	
LB-13I	202.36	55.03	28.91	1043	
LB-13C	202.68	66.00	29.33	1042	
LB-13D	202.96	88.88	29.70	1041	
LB-17S	208.18	34.38	32.55	1131	
LB-17I	213.14	51.95	37.66	1133	
LB-17C	206.55	72.35	31.32	1129	
LB-17D	213.17	100.91	38.51	1128	
LB-20S	221.22	61.50	41.40	1211	
LB-21S	223.35	54.24	38.73	1353	
LB-21C	223.32	79.10	39.15	1355	
LB-21D	223.63	110.73	41.85	1352	
LB-22S	208.42	36.97	8.02	1408	
LB-23S	229.19	45.40	32.76	1410	
LB-24S	235.13	54.16	40.21	1412	
LB-26I	200.22	58.30	26.30	1037	
LB-26D	200.75	101.78	26.09	1035	
LB-27I	205.35	57.15	32.26	1050	
LB-27D	204.65	115.10	38.15	1048	

Notes:

Rain ~ 46°F
Probe decreased between locations

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LR-15
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LR-621914-18

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 45 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)	
2/19/14	11:55	45.00	-	34.41	-	10.59	X 1 1.73	
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [v if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	12:15	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	12:15	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	12:15	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3

5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	(8260) (8011)								OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX)								OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)								

WATER QUALITY DATA Purge Start Time: 11:56 Pump/Bailer Inlet Depth:

Meas.	Method	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1159)	0.00	6.43	56.9	373	11.32	34.41	4.83	clear/colorless
1	A(1202)	0.40	6.47	59.8	368	11.62	34.41	4.25	clear/colorless
2	A(1265)	0.75	6.48	59.6	363	11.68	34.41	4.21	clear/colorless
3	A(1208)	1.10	6.47	60.1	360	11.73	34.41	4.19	clear/colorless
4	A(1211)	1.40	6.48	60.1	358	11.74	34.41	4.18	clear/colorless
5	A(1214)	1.75	6.48	60.1	357	11.74	34.41	4.15	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method w 400mL/min (100mL/pulse) 9/6/30

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** D0P2

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021917-19

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE: °F . °C		

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
/ /	:	X 1
/ /	:	X 3
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080
							12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	12:00	A	3 40 ml	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	12:00	A	1 250, 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	12:00	A	1 250, 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	
	VOA - Glass	(8260) (8011)	OR [] WA []
	AMBER - Glass	(8080) (8150) (TOX)	OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)	
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)	
	GREEN - Poly	(Cyanide)	
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)	
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)	

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O ₂ (mg/l)	Water Quality
0		0.00	.			.	.	.
1		
2		
3		
4		
5		
6		

[Casing]

[Select A-G]

[Cumulative Totals]

[Circle units]

[Clarity, Color]

Collected at LB-15

SAMPLER:

(PRINTED NAME)

T Andrews

(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-10
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021914-17

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY					
	WEATHER: SUNNY									CLOUDY			RAIN		?	TEMPERATURE: 64.6 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/19/14	11:15	137.45	---	36.68	---	160.77	X 1: 16.43
/ /	:						X 3: .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	11:40	A	3 (40 ml)	(HCl)	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	11:40	A	1 (250) 500, 1L	(None)	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	11:40	A	1 (250) 500, 1L	(HNO ₃)	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								OR []	WA []	
	VOA - Glass	(8260) (8011)									OR []	WA [X]
	AMBER - Glass	(8080) (8150) (TOX)									OR []	WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (C) (SO ₄) (Silica, T.) (NO ₃)										
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)										
	GREEN - Poly	(Cyanide)										
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)										
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)										

WATER QUALITY DATA Purge Start Time: 11:18 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1122)	0.00	7.08	277	224	11.33	36.67	7.20	clear/colorless
1	A(1123)	0.40	6.84	53.8	218	11.53	36.67	6.98	clear/colorless
2	A(1126)	0.75	6.79	58.1	218	11.54	36.67	7.03	clear/colorless
3	A(1129)	1.10	6.75	61.3	218	11.55	36.67	7.00	clear/colorless
4	A(1132)	1.35	6.73	62.4	218	11.57	36.67	6.96	clear/colorless
5	A(1135)	1.75	6.73	62.5	218	11.58	36.67	6.94	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/17/90

SAMPLER: T Andrews (PRINTED NAME)

J Andrews (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill

WELL ID: LB-35

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-021917-22

DUP ID:

NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
	WEATHER: SUNNY			CLOUDY			RAIN			?	
										TEMPERATURE: 46.0 °C	

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness] [Water Column]

[Circle appropriate units]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/19/14	14:35	52.50	---	39.65	---	12.85	X 1 2.09
/ /	:	X 3

Gal/ft = (dia./2) ² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875
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§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	2/19/14	14:55	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	14:55	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	14:55	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	(8260) (8011)								OR [] WA []
	AMBER - Glass	(8080) (8150) (TOX)								OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)								

WATER QUALITY DATA

Purge Start Time: 14:36

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1438)	0.00	6.12	71.9	215	11.26	39.65	7.03	clear/colorless
1	A(1441)	0.30	6.22	71.0	215	11.54	39.65	6.44	clear/colorless
2	A(1444)	0.65	6.22	71.8	215	11.54	39.65	6.33	clear/colorless
3	A(1447)	0.95	6.22	71.5	215	11.55	39.65	6.36	clear/colorless
4	A(1450)	1.25	6.22	71.7	215	11.55	39.65	6.39	clear/colorless
5		.	.	.	.	.	.	.
6		.	.	.	.	.	.	.

(Casing) [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

Low Flow Purge Method @ 380 mL/min (95 mL/pulse) 8/7/30

SAMPLER:

T Andrews

(PRINTED NAME)

T Andrews

(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill

WELL ID: LB-30

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-021914-21

DUP ID:

NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE: 46.0 °C		

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/19/14	13:50	117.28	---	40.76	---	76.82	X 1 12.52
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	14:15	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	14:15	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	14:15	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	(8260) (8011)								OR [] WA [X] 1
	AMBER - Glass	(8080) (8150) (TOX)								OR [] WA [] 1
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (C) (SO ₄) (Silica, T.) (NO3)								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)								

WATER QUALITY DATA

Purge Start Time: 13:53

Pump/Bailor Inlet Depth:

Meas.	Method	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1357)	0.00	6.52	33.7	213	10.56	40.76	4.86	clear/colorless
1	A (1400)	0.40	6.42	58.7	211	11.09	40.76	5.27	clear/colorless
2	A (1403)	0.60	6.40	65.8	210	11.15	40.76	5.07	clear/colorless
3	A (1406)	0.85	6.39	63.9	209	11.21	40.76	5.14	clear/colorless
4	A (1409)	1.15	6.38	69.9	209	11.21	40.76	5.18	clear/colorless
5		.	.	.	.	.	.	.
6		.	.	.	.	.	.	.

[Casing]

[Select A-G]

[Cumulative Totals]

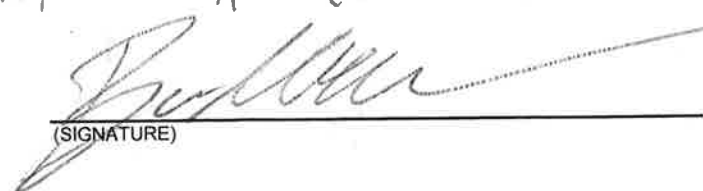
[Circle units]

[Clarity, Color]

Low Flow Purge Method 3/7/75psi 100ml/pulse (400ml/min)

SAMPLER: B McMullen
(PRINTED NAME)

(SIGNATURE)



FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill **WELL ID:** LR-45R
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LR-021814-12

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 45 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/18/14	13:10	40.00	—	24.79	—	15.21	X 1 = 2.48
/ /	:	.	.	.	.	.	X 3 = .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	✓
VOA Glass	2/18/14	13:30	A	3	40 ml	HCl	YES	NO	✓
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO	
White Poly	2/18/14	13:30	A	1	250, 500, 1L	None	YES	NO	NA ✓
Yellow Poly	/ /	:			250, 500, 1L	H ₂ SO ₄	YES	NO	
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO	
Red Total Poly	/ /	:			125, 250, 500	HNO ₃	YES	NO	
Red Diss. Poly	2/18/14	13:30	A	1	250, 500, 1L	HNO ₃	YES	YES	✓
	/ /	:			250, 500, 1L		YES		

White no acid, Yellow H₂SO₄, Red HNO₃ Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []
	VOA - Glass	(8260) (8011)		WA []
	AMBER - Glass	(8080) (8150) (TOX)		WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T) <u>(NO₃)</u>		
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)		
	GREEN - Poly	(Cyanide)		
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)		
RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)			

WATER QUALITY DATA Purge Start Time: 13:11 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1313)	0.00	6.30	87.8	188	11.38	24.79	6.87	clear/colorless
1	A(1316)	0.30	6.30	91.7	191	11.51	24.79	7.00	clear/colorless
2	A(1319)	0.55	6.29	95.0	192	11.54	24.79	7.00	clear/colorless
3	A(1322)	0.90	6.28	95.3	192	11.56	24.79	6.97	clear/colorless
4	A(1325)	1.15	6.28	95.7	192	11.57	24.79	7.01	clear/colorless
5	A(1328)	1.40	6.28	96.0	193	11.56	24.79	7.04	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Clarity, Color]

Low Flow Purge Method ~ 360 mL/min (90 mL/pulse) 8/7/20

SAMPLER: T Andrews
(PRINTED NAME)

T Andrews
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-40
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021814-11

DUP ID: NA

WIND FROM: N NE E SE 8 SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 67.5 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)							[Product Thickness]	[Water Column]	(Circle appropriate units)
Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW			[Water Column x Gal/ft]
2/18/14	12:15	133.75	---	55.32	---	78.53			X 1 12.80
/ /	:	.	.	.	.	.			X 3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875	

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/18/14	12:40	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/18/14	12:40	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/18/14	12:40	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	(8260) (8011)							OR []	WA [X]
	AMBER - Glass	(8080) (8150) (TOX)							OR []	WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)								
	YELLOW - Poly	(COD) (TOC) (NH ₄) (NO ₃ /NO ₂) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)								

WATER QUALITY DATA					Purge Start Time: 12:15			Pump/Bailer Inlet Depth:		
Meas.	Method ^s	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality	
0	A (1232)	0.00	6.60	74.5	193	10.69	55.35	5.08	clear/colorless	
1	A (1233)	0.25	6.84	70.4	194	10.78	55.35	4.97	clear/colorless	
2	A (1234)	0.60	7.01	64.3	200	10.87	55.35	4.81	clear/colorless	
3	A (1235)	0.95	7.08	61.3	203	10.91	55.35	4.71	clear/colorless	
4	A (1236)	1.25	7.19	58.5	206	10.95	55.35	4.70	clear/colorless	
5	A (1237)	1.55	7.18	58.3	207	10.94	55.35	4.72	clear/colorless	
6	A (1238)	1.90	7.19	57.7	207	10.96	55.35	4.74	clear/colorless	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/2/70

SAMPLER: T Andrews (PRINTED NAME) [Signature] (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-55
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021714-02

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 96 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)							(Product Thickness)	(Water Column)	(Water Column x Gal/ft)
Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW			Volume (gal)
2/17/14	11:18	30.32	—	16.50	—	13.82		X 1	2.25
/ /	:	.	.	.	.	.		X 3	.
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875	

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/17/14	11:40	A	3 40 ml	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/17/14	11:40	A	1 250, 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/17/14	11:40	A	1 250, 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	(8280) (8011)							OR []	WA []
	AMBER - Glass	(8080) (8150) (TOX)							OR []	WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)								


WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1120)	0.00	6.66	62.2	151	11.84	16.50	6.23	clear/colorless
1	A(1123)	0.40	6.28	83.5	159	12.01	16.50	5.29	clear/colorless
2	A(1126)	0.75	6.22	85.6	161	12.08	16.50	5.24	clear/colorless
3	A(1129)	1.10	6.17	87.1	163	12.13	16.50	5.16	clear/colorless
4	A(1132)	1.30	6.15	87.3	165	12.15	16.50	5.13	clear/colorless
5	A(1135)	1.55	6.14	87.8	166	12.16	16.50	5.11	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/17/20

SAMPLER: T Andrews
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill

WELL ID: LB-50

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-021714-01

DUP ID:

NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
	WEATHER: SUNNY		CLOUDY		RAIN			?		TEMPERATURE: °F 46 °C	

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/17/14	10:15	122.40		33.34		84.06	X 1 13.70
/ /	:						X 3

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/17/14	10:40	A	3 (40 ml)	(HCl)	(YES)	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/17/14	10:40	A	1 (250/500, 1L)	(None)	(YES)	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/17/14	10:40	A	1 (250, 500, 1L)	(HNO ₃)	(YES)	(YES)		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []
	VOA - Glass	(8260) (8011)		WA []
	AMBER - Glass	(8080) (8150) (TOX)		WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)		
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)		
	GREEN - Poly	(Cyanide)		
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)		
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)		

WATER QUALITY DATA

Purge Start Time: 10:15

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1030)	0.00	6.64	113.1	256	10.64 38.56	38.56	1.47	clear/colorless
1	A (1033)	0.25	6.53	90.5	256	10.84 38.36	38.36	1.11	clear/colorless
2	A (1026)	0.50	6.45	73.3	256	11.09 38.36	38.36	0.75	clear/colorless
3	A (1034)	0.75	6.44	71.4	256	11.08 38.36	38.36	0.70	clear/colorless
4	A (1032)	1.0	6.43	70.7	257	11.08 38.36	38.36	0.72	clear/colorless
5	A (1035)	1.25	6.42	69.3	256	11.10 38.36	38.36	0.68	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

Low Flow Purge Method ~ 75ml/pulse (300ml/min) 2/17/14

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill **WELL ID:** LB-65
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021914-23

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 48 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/19/14	15:20	39.07	—	28.15	—	10.92	X 1 1.78
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [v if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	15:40	A	3	<u>40 ml</u>	<u>HCl</u>	<u>YES</u>	NO	✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	15:40	A	1	<u>250, 500, 1L</u>	<u>None</u>	<u>YES</u>	NO	NA ✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	15:40	A	1	<u>250, 500, 1L</u>	<u>HNO₃</u>	<u>YES</u>	<u>YES</u>	✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	<u>(8260)</u> (8011)								OR [] WA <input checked="" type="checkbox"/>
	AMBER - Glass	(8080) (8150) (TOX)								OR [] WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T.) <u>(NO₃)</u>								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> (Mg) <u>(Mn)</u> (K) (Na)								

WATER QUALITY DATA Purge Start Time: 15:21 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1523)	0.00	6.32	63.2	170	11.30	28.15	4.60	clear/colorless
1	A (1526)	0.40	6.36	61.2	175	11.47	28.15	3.83	clear/colorless
2	A (1529)	0.80	6.38	59.7	178	11.50	28.15	3.46	clear/colorless
3	A (1532)	1.20	6.41	58.9	179	11.50	28.15	3.49	clear/colorless
4	A (1535)	1.60	6.40	59.2	179	11.50	28.15	3.47	clear/colorless
5	A (1538)	1.95	6.39	59.2	179	11.51	28.15	3.44	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/7/15

SAMPLER: T Andrews JM Andrews
 (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LR-10SR
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LR-021914-16

DUP ID: NA

WIND FROM: N NE E SE S (SW) W NW (LIGHT) MEDIUM HEAVY
WEATHER: SUNNY (CLOUDY) RAIN ? **TEMPERATURE:** (F) 45 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/19/14	10:30	42.35	-	32.60	-	10.35	X 1 1.69
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	10:50	A	3 (40mL)	(HCl)	(YES)	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	10:50	A	1 (250, 500, 1L)	(None)	(YES)	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	10:50	A	1 (250, 500, 1L)	(HNO ₃)	(YES)	(YES)		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)		OR []	WA []	
	VOA - Glass	(8268) (8011)				WA []
	AMBER - Glass	(8080) (8150) (TOX)				WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)				
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)				
	GREEN - Poly	(Cyanide)				
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hardness)				
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)				

WATER QUALITY DATA Purge Start Time: 10:33 Pump/Bailor Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1036)	0.00	6.44	448	319	12.53	32.00	0.96	cloudy/pale grey
1	A(1039)	0.40	6.83	42.9	340	12.66	32.01	0.51	clear/colorless
2	A(1042)	0.75	6.78	39.5	352	12.75	32.00	0.54	clear/colorless
3	A(1045)	1.10	6.78	38.9	353	12.76	32.00	0.59	clear/colorless
4	A(1048)	1.45	6.77	38.6	353	12.77	32.00	0.60	clear/colorless
5		.	.	.	.	.	.	.
6		.	.	.	.	.	.	.

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400mL/min (100mL/pulse) 9/6/27

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill **WELL ID:** LA-100R
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LR-021914-15

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 41 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/19/14	9:50	121.10		43.61		77.49	X 1 12.63
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [] [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/19/14	10:25	A	3 (40 ml)	<u>HCl</u>	<u>YES</u>	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/19/14	10:25	A	1 (250, 500, 1L)	<u>None</u>	<u>YES</u>	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/19/14	10:25	A	1 (250, 500, 1L)	<u>HNO₃</u>	<u>YES</u>	<u>YES</u>		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []	
	VOA - Glass	<u>(8260)</u> (8011)		OR []	WA []
	AMBER - Glass	(8080) (8150) (TOX)		OR []	WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T.) <u>(NO₃)</u>			
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)			
	GREEN - Poly	(Cyanide)			
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)			
RED DISSOLVED - Poly	<u>(Ca)</u> <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)				

WATER QUALITY DATA Purge Start Time: 10:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1003)	0.00	7.30	97.8	332	12.30	43.61	2.95	clear/colorless
1	A(1006)	0.35	7.07	72.2	335	12.51	43.61	1.18	clear/colorless
2	A(1009)	0.70	7.04	67.5	341	12.55	43.61	1.08	clear/colorless
3	A(1012)	1.05	7.01	64.5	344	12.51	43.61	1.19	clear/colorless
4	A(1015)	1.45	6.95	59.1	356	12.54	43.61	1.49	clear/colorless
5	A(1018)	1.75	6.94	58.8	357	12.55	43.61	1.51	clear/colorless
6	A(1021)	1.95	6.94	58.0	357	12.53	43.61	1.50	clear/colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (8/7/80) (100 mL/pulse)

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LR-13T

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LR-02814-10

DUP ID: NA

WIND FROM: N NE E SE (S) SW W NW LIGHT (MEDIUM) HEAVY
WEATHER: SUNNY CLOUDY (RAIN) ? **TEMPERATURE:** (45) °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/18/14	10:50	55.03	—	28.86	—	26.17	X 1 4.27
/ /	:	:	:	:	:	:	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 (2" = 0.163) 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/18/14	11:20	A	3	<u>(40 ml)</u>	<u>(HCl)</u>	<u>(YES)</u>	NO	✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/18/14	11:20	A	1	<u>(250)</u> 500, 1L	<u>(None)</u>	<u>(YES)</u>	NO	NA ✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/18/14	11:20	A	1	<u>(250)</u> 500, 1L	<u>(HNO₃)</u>	<u>(YES)</u>	<u>(YES)</u>	✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []
	VOA - Glass	<u>(8260)</u> (8011)		<input checked="" type="checkbox"/>
	AMBER - Glass	(8080) (8150) (TOX)		<input type="checkbox"/>
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T) <u>(NO₃)</u>		
	YELLOW - Poly	(COD) (TOC) (NH ₄) (NO ₃ /NO ₂) (Tannin/Lignin)		
	GREEN - Poly	(Cyanide)		
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)		
	RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)		

WATER QUALITY DATA Purge Start Time: 10:52 Pump/Bailor Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1057)	0.00	6.29	91.2	295	11.47	28.86	1.70	Clear/Colorless
1	A(1000)	0.60	6.39	89.5	296	11.54	28.86	1.35	Clear/Colorless
2	A(1103)	1.0	6.49	86.6	300	11.57	28.87	1.20	Clear/Colorless
3	A(1100)	1.35	6.55	83.9	302	11.61	28.87	1.07	Clear/Colorless
4	A(1109)	1.50	6.58	81.3	305	11.61	28.87	0.81	Clear/Colorless
5	A(1112)	1.75	6.61	80.1	306	11.60	28.87	0.82	Clear/Colorless
6	A(1115)	2.00	6.61	79.5	305	11.60	28.87	0.81	Clear/Colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method - 40ml/min 150ml/purge 8/7/15

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill **WELL ID:** FB1
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021814-09

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 64.5 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
/ /	:	X 1 .
/ /	:	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Transfer

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/18/14	11:00	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/18/14	11:00	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/18/14	11:00	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []
	VOA - Glass	(8260) (8011)		WA []
	AMBER - Glass	(8080) (8150) (TOX)		WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)		
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)		
	GREEN - Poly	(Cyanide)		
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)		
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)		

WATER QUALITY DATA

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O ₂ (mg/l)	Water Quality
0		0.00	.			.	.	.
1		
2		
3		
4		
5		
6		

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected near LB-13I

SAMPLER: B McMullen
(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill

WELL ID: LB-130

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-021317-08

DUP ID:

NA

WIND FROM:	N	NE	E	SE	(S)	SW	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		(RAIN)		?		TEMPERATURE: 45 °C		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/18/14	9:57	88.88	-	29.65	-	59.23	X 1 9.65
1/1	:	:	:	:	:	:	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	2/18/14	10:25	A	3 (40 ml)	(HCl)	(YES)	NO		✓
Amber Glass	1/1	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/18/14	10:25	A	1 (250, 500, 1L)	(None)	(YES)	NO	NA	✓
Yellow Poly	1/1	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	1/1	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	1/1	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/18/14	10:25	A	1 (250, 500, 1L)	(HNO ₃)	(YES)	(YES)		✓
	1/1	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [] WA []
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA							Purge Start Time: 10:04	Pump/Bailor Inlet Depth:		
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp	DTW	Diss O ₂ (mg/l)	Water Quality	
0	A(1006)	0.00	7.29	149.4	221	11.43	29.65	5.55	clear/colorless	
1	A(1009)	0.35	6.93	137.4	220	11.53	29.65	5.59	clear/colorless	
2	A(1012)	0.70	6.87	133.9	221	11.54	29.65	5.89	clear/colorless	
3	A(1015)	1.10	6.77	128.5	221	11.55	29.65	5.90	clear/colorless	
4	A(1018)	1.30	6.73	122.7	221	11.55	29.65	5.87	clear/colorless	
5	A(1031)	1.60	6.70	120.9	220	11.55	29.65	5.87	clear/colorless	
6										

[Casing]

[Select A-G]

[Cumulative Totals]

[Circle units]

[Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100mL/puls.) 8/7/60

SAMPLER:

(PRINTED NAME)

T Andrews

(SIGNATURE)

T Andrews

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill **WELL ID:** LR-17E

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LR-021714-04

DUP ID: NA

WIND FROM:	N	NE	E	SE	S	<u>SW</u>	W	NW	LIGHT	<u>MEDIUM</u>	HEAVY
	WEATHER: SUNNY			CLOUDY			<u>RAIN</u>			TEMPERATURE: <u>46</u> °C	

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/R]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/17/14	12:59	51.95	—	37.70	—	14.25	X 1 2.32
/ /	:						X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/17/14	13:20	A	3 <u>40 ml</u>	<u>HCl</u>	<u>YES</u>	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/17/14	13:20	A	1 <u>250</u> , 500, 1L	<u>None</u>	<u>YES</u>	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/17/14	13:20	A	1 <u>250</u> , 500, 1L	<u>HNO₃</u>	<u>YES</u>	<u>YES</u>		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	<u>(8260)</u> (8011) OR [] WA [H]
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(C)</u> (SO ₄) (Silica, T) <u>(NO₃)</u>
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)

WATER QUALITY DATA Purge Start Time: 13:00 Pump/Bailor Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1302)	0.00	6.92	-86.4	349	13.56	37.70	1.30	clear/colorless
1	A (1305)	0.35	6.85	-85.6	356	13.41	37.70	0.89	clear/colorless
2	A (1308)	0.70	6.80	-86.5	369	13.15	37.70	0.65	clear/colorless
3	A (1311)	1.10	6.76	-89.7	376	13.62	37.70	0.41	clear/colorless
4	A (1314)	1.50	6.77	-91.2	377	13.64	37.70	0.39	clear/colorless
5	A (1317)	1.80	6.77	-91.3	376	13.78	37.70	0.40	
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400mL/min (100mL/pulse) 8/17/14

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-170
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021714-03

DUP ID: NA

WIND FROM: N NE E SE S (SW) W NW LIGHT (MEDIUM) HEAVY
WEATHER: SUNNY CLOUDY (RAIN) ? **TEMPERATURE:** (F) 46 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/17/14	12:05	100.91	—	38.51	—	62.40	X 1 10.17
/ /	:						X 3 .

Gall/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [] [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/17/14	12:30	A	3 (40 ml)	(HCl)	(YES)	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/17/14	12:30	A	1 (250), 500, 1L	(None)	(YES)	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/17/14	12:30	A	1 (250) 500, 1L	(HNO ₃)	(YES)	(YES)		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [] WA []
AMBER - Glass	(8080) (8150) (TOX) OR [] WA []	
WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T) <u>(NO3)</u>	
YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)	
GREEN - Poly	(Cyanide)	
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)	
RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)	

WATER QUALITY DATA Purge Start Time: 12:06 Pump/Bailer Inlet Depth: []

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1209)	0.00	6.51	-10.7	296	13.42	38.52	1.83	clear/colorless
1	A(1212)	0.35	6.47	-3.1	323	13.39	38.51	0.64	clear/colorless
2	A(1215)	0.70	6.47	0.0	328	13.36	38.51	0.46	clear/colorless
3	A(1218)	1.10	6.48	2.8	330	13.21	38.51	0.41	clear/colorless
4	A(1221)	1.50	6.49	4.5	330	13.24	38.51	0.41	clear/colorless
5	A(1224)	1.80	6.48	4.0	330	13.26	38.51	0.40	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method - 400 mL/min (100 mL/pulse) 8/17/65

SAMPLER: T Andrews T Andrews
 (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill

WELL ID: LB-205

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-021914-20

DUP ID:

NA

WIND FROM:	N	NE	E	SE	S	<u>SW</u>	W	NW	<u>LIGHT</u>	MEDIUM	HEAVY
	WEATHER: SUNNY <u>CLOUDY</u> RAIN ?									TEMPERATURE: <u>67</u> °C	

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	[Product Thickness]	[Water Column]	[Water Column x Gal/ft]
2/19/14	12:45	61.50	---	41.30	---	20.20			X 1 3.29
/ /	:	.	.	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	√
VOA Glass	2/19/14	13:10	A	3	<u>40 ml</u>	<u>HCl</u>	<u>YES</u>	NO	✓
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO	
White Poly	2/19/14	13:10	A	1	<u>250</u> , 500, 1L	<u>None</u>	<u>YES</u>	NO	NA ✓
Yellow Poly	/ /	:			250, 500, 1L	H ₂ SO ₄	YES	NO	
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO	
Red Total Poly	/ /	:			125, 250, 500	HNO ₃	YES	NO	
Red Diss. Poly	2/19/14	13:10	A	1	<u>250</u> , 500, 1L	<u>HNO₃</u>	<u>YES</u>	<u>YES</u>	✓
	/ /	:			250, 500, 1L		YES		

White no acid, Yellow H2SO4, Red HNO3

5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []	
	VOA - Glass	(8280) (8011)			WA []
	AMBER - Glass	(8080) (8150) (TOX)			WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T) <u>(NO₃)</u>			
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)			
	GREEN - Poly	(Cyanide)			
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)			
RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)				

WATER QUALITY DATA

Purge Start Time: 12:49

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp <u>(C)</u>	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1251)	0.00	6.86	20.1	400	11.87	41.30	2.27	Pale Orange
1	A (1254)	0.30	6.82	-10.1	405	12.03	41.30	0.73	Pale Orange
2	A (1257)	0.60	6.81	-10.9	404	12.01	41.30	0.68	clear/colorless
3	A (1300)	0.95	6.81	-11.2	403	12.03	41.30	0.58	clear/colorless
4	A (1303)	1.20	6.80	-10.7	401	12.02	41.30	0.53	clear/colorless
5	A (1306)	1.50	6.80	-9.4	400	12.03	41.30	0.51	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/17/30

SAMPLER:

(PRINTED NAME)

T Andrews

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-267
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021714-06

DUP ID: NA **WIND FROM:** N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 46 °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)							(Product Thickness)	(Water Column)	(Circle appropriate units)
Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW			[Water Column x Gal/ft]
2/17/14	14:30	58.30	—	26.31	—	31.99			X 1
/ /	:	.	.	.	.	.			X 3
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875	

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)								Sample Depth:		[if used]
Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓	
VOA Glass	2/17/14	15:00	A	3 (40 ml)	HCl	YES	NO		✓	
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO			
White Poly	2/17/14	15:00	A	1 (250, 500, 1L)	None	YES	NO	NA	✓	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO			
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO			
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO			
Red Diss. Poly	2/17/14	15:00	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓	
	/ /	:		250, 500, 1L		YES				

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):


Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	(8260) (8011)								OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX)								OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TD) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hardness)								
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)									

WATER QUALITY DATA			Purge Start Time: 14:35				Pump/Bailer Inlet Depth:		
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1436)	0.00	6.41	57.4	239	11.35	26.14	4.38	clear/colorless
1	A(1439)	0.30	6.38	62.9	244	11.47	26.13	3.92	clear/colorless
2	A(1442)	0.50	6.34	64.4	251	11.63	26.13	3.16	clear/colorless
3	A(1445)	0.75	6.32	64.9	253	11.65	26.13	2.94	clear/colorless
4	A(1448)	1.20	6.31	65.7	254	11.67	26.13	2.80	clear/colorless
5	A(1451)	1.50	6.30	66.5	255	11.67	26.13	2.88	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 700 mL/min (100 mL/pulse) 8/7/14

SAMPLER: B McMullen
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Leichner Landfill **WELL ID:** D0P1
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021714-07

DUP ID: NA
WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 46 °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
/ /	:	X 1
/ /	:	X 3

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [] [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/17/14	14:55	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/17/14	14:55	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/17/14	14:55	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [] WA []
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₄) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O ₂ (mg/l)	Water Quality
0		0.00	.			.	.	.
1		
2		
3		
4		
5		
6		

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected at LB-26I

SAMPLER: B McMullen
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-260
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021714-05

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** °F 46 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/17/14	13:50	101.78	---	26.13	---	---	X 1
/ /	:	.	.	.	.	.	X 3

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/17/14	14:10	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/17/14	14:10	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/17/14	14:10	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []
	VOA - Glass	(8260) (8011)		WA [X]
	AMBER - Glass	(8080) (8150) (TOX)		WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)		
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)		
	GREEN - Poly	(Cyanide)		
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)		
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)		

WATER QUALITY DATA						Purge Start Time: 13:51	Pump/Bailer Inlet Depth:		
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1352)	0.00	6.99	35.5	216	11.85	26.13	5.72	Clear/Colorless
1	A(1355)	0.40	6.57	35.8	227	11.74	26.13	2.03	Clear/Colorless
2	A(1358)	0.80	6.46	44.6	227	11.84	26.13	1.98	Clear/Colorless
3	A(1401)	1.10	6.45	45.4	227	11.87	26.13	2.04	Clear/Colorless
4	A(1404)	1.45	6.43	47.5	226	11.88	26.13	2.08	Clear/Colorless
5	A(1407)	1.75	6.43	48.1	226	11.88	26.13	2.09	Clear/Colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/7/60

SAMPLER: J. Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-27E
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021814-14

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 64.5 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Circle appropriate units]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/18/14	15:05	57.15	—	32.20	—	24.95	X 1 4.07
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	2/18/14	15:30	A	3 40 ml	<u>HCl</u>	<u>YES</u>	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/18/14	15:30	A	1 250, 500, 1L	<u>None</u>	<u>YES</u>	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/18/14	15:30	A	1 250 500, 1L	<u>HNO₃</u>	<u>YES</u>	<u>YES</u>		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 ← Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	<u>(8260)</u> (8011) OR [] WA <input checked="" type="checkbox"/>
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T) <u>(NO₃)</u>
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	Ca <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)

WATER QUALITY DATA Purge Start Time: 15:07 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1510)	0.00	6.41	79.7	574	11.70	32.20	1.94	clear/colorless
1	A (1513)	0.30	6.61	79.2	568	11.77	32.20	1.16	clear/colorless
2	A (1516)	0.60	6.69	70.6	574	11.86	32.20	0.82	clear/colorless
3	A (1514)	0.85	6.78	67.9	575	11.91	32.20	0.72	clear/colorless
4	A (1522)	0.10	6.82	65.9	574	11.94	32.20	0.76	clear/colorless
5	A (1525)	1.35	6.83	65.2	574	11.94	32.20	0.80	clear/colorless
6	A (1528)	1.65	6.85	64.9	574	11.93	32.20	0.81	clear/colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) 8/17/35

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-270
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-021814-13

DUP ID: NA

WIND FROM: N NE E SE (S) SW W NW (LIGHT) MEDIUM HEAVY
WEATHER: SUNNY CLOUDY (RAIN) ? **TEMPERATURE:** (F) 45 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
2/18/14	14:15	115.10	—	37.25	—	77.85	X 1 12.69
/ /	:	.	.	.	.	.	X 3 ..

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	✓
VOA Glass	2/18/14	14:40	A	3 <u>40 ml</u>	<u>(HCl)</u>	<u>(YES)</u>	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	2/18/14	14:40	A	1 <u>250</u> 500, 1L	<u>(None)</u>	<u>(YES)</u>	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	2/18/14	14:40	A	1 <u>250</u> 500, 1L	<u>(HNO₃)</u>	<u>(YES)</u>	<u>(YES)</u>		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	<u>(8260)</u> (8011) OR [] WA <u>(X)</u>
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T.) <u>(NO3)</u>
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	<u>(Ca)</u> <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)	

WATER QUALITY DATA Purge Start Time: 14:19 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1428)	0.00	6.49	90.8	312	11.14	37.35	4.08	clear/colorless
1	A (1426)	0.15	6.58	86.8	313	11.22	37.32	3.73	clear/colorless
2	A (1429)	0.30	6.62	89.3	313	11.26	37.32	3.53	clear/colorless
3	A (1432)	0.45	6.65	82.2	313	11.28	37.30	3.38	clear/colorless
4	A (1435)	0.65	6.66	81.4	313	11.30	37.31	3.37	clear/colorless
5	A (1436)	0.80	6.66	81.2	313	11.30	37.31	3.32	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method - 200 mL/min (50 mL/pulse) 8/17/60

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

Third Quarter (August) FSDSs

**Leichner Landfill
Groundwater Elevation Survey**

Project #: 04214030.01/1.17

Sampler: T Andrews

Quarter: 1 2 3 4

Date: 8/12/14

Monitoring Point Designation	Reference Elevation (ft. msl)	DTB (ft. btoc)	DTW (ft. btoc)	Time	Comments
Monitoring Wells					
MW-1 N	216.58	15.00	NR	1155	Dry @ 15.0'
MW-1 S	216.13	44.50	38.30	1200	
MW-1 E	216.45	29.05	NR	1150	Dry @ 29.05'
MW-NE	219.83	50.34	15.46	1030	
LB-R2	222.27	77.36	46.16	1055	
LB-1S	210.12	45.00	34.03	1220	
LB-1D	209.74	137.45	36.19	1225	
LB-3S	218.25	52.50	39.29	1140	
LB-3D	219.29	117.28	39.31	1130	
LB-4SR	226.46	40.00	29.20	1320	
LB-4C	228.08	77.25	47.30	1325	
LB-4D	228.00	133.75	57.19	1330	
LB-5S	206.89	30.32	16.41	1240	
LB-5C	206.70	74.71	33.69	1245	
LB-5D	207.56	122.40	38.36	1250	
LB-6S	202.80	39.07	27.82	930	
LB-9SR	217.94	49.60	35.80	1125	
LB-10SR	204.04	42.35	31.30	910	
LB-10CR	203.05	71.95	30.73	915	
LB-10DR	203.36	121.10	43.70	920	
LB-13I	202.36	55.03	28.53	9:55	
LB-13C	202.68	66.00	28.95	9:45	
LB-13D	202.96	88.88	29.32	11:00	
LB-17S	208.18	34.38	31.62	11:05	
LB-17I	213.14	51.95	37.08	11:10	
LB-17C	206.55	72.35	30.75	11:12	
LB-17D	213.17	100.91	37.96	11:15	
LB-20S	218.62	58.90	40.71	12:10	
LB-21S	223.35	54.24	38.37	10:10	
LB-21C	223.32	79.10	38.76	10:05	
LB-21D	223.63	110.73	41.72	10:15	
LB-22S	208.42	36.97	7.75	10:35	
LB-23S	229.19	45.40	32.11	10:40	
LB-24S	235.13	54.16	39.65	10:45	
LB-26I	200.22	58.30	25.87	9:40	
LB-26D	200.75	101.78	25.66	9:35	
LB-27I	205.35	57.15	31.90	10:05	
LB-27D	204.65	115.10	38.17	10:00	

Notes:

Sunny Wind NW @ 6mph
Performed standard decan between
Locations

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-15

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-08144-09

DUP ID: NA

WIND FROM: N NE E SE **S** SW W NW **LIGHT** MEDIUM HEAVY
WEATHER: SUNNY **CLOUDY** RAIN ? **TEMPERATURE:** °F 70 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)	
8/14/14	10:15	45.00	-	34.03	-	10.97	X1 1.79	
/ /	:	.	.	.	.	.	X3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	8/14/14	10:50	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/14/14	10:50	A	1 (250) 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/14/14	10:50	A	1 (250) 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260), (8011) OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA			Purge Start Time: 10:28				Pump/Bailer Inlet Depth:		
Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1033)	0.00	7.07	175.5	281	15.01	34.03	7.63	clear/colorless
1	A(1036)	0.45	5.97	167.9	267	13.61	34.03	5.19	clear/colorless
2	A(1039)	0.70	6.12	146.4	261	13.48	34.03	4.99	clear/colorless
3	A(1042)	1.0	6.31	136.1	259	13.36	34.03	4.93	clear/colorless
4	A(1045)	1.2	6.33	133.3	257	13.32	34.03	4.90	clear/colorless
5	A(1048)	1.35	6.36	129.3	258	13.35	34.03	4.93	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

Low flow purge method ~ 400 ml/min (100 ml/pulse) (9/6/30)

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-55

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-0813/4-01

DUP ID: NA

WIND FROM:

N	NE	E	SE	S	SW	W	NW
---	----	---	----	---	----	---	----

WEATHER:

LIGHT	MEDIUM	HEAVY
-------	--------	-------

WEATHER:

SUNNY	CLOUDY	RAIN	?
-------	--------	------	---

TEMPERATURE:

°F	68	°C
----	----	----

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)	
8/13/14	9:55	30.32	---	16.41	---	13.91	X 1 2.27	
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	8/13/14	10:25	A	3 (40 mL)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	10:25	A	1 (250) 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	10:25	A	1 (250) 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)


WATER QUALITY DATA Purge Start Time: 9:59 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1002)	0.00	4.50	186.0	174	14.97	16.41	8.12	clear/colorless
1	A(1005)	0.52	5.01	167.7	173	13.59	16.41	8.00	clear/colorless
2	A(1008)	1.05	5.68	149.6	173	13.54	16.41	8.03	clear/colorless
3	A(1011)	1.60	6.10	144.8	174	13.54	16.41	8.01	clear/colorless
4	A(1014)	2.10	6.16	142.3	173	13.53	16.41	7.99	clear/colorless
5	A(1017)	2.65	6.18	141.8	173	13.52	16.41	7.97	clear/colorless
6	A(1020)	2.85	6.19	140.9	173	13.52	16.41	7.98	clear/colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low Flow Purge Method ~ 100 mL/pulse 400 mL/min (8/17/20)

SAMPLER: T Andrews
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-65

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-081314-06

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 80. °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) (Product Thickness) (Water Column) (Circle appropriate units) (Water Column x Gal/ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)	
8/13/14	15:05	39.07	-	27.82	-	11.25	X 1 1.83	
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	<input checked="" type="radio"/> 2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) **Sample Depth:** [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	8/13/14	15:30	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	15:30	A	1 (250) 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	15:30	A	1 (250) 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011)	OR [ ] WA [X]
AMBER - Glass	(8080) (8150) (TOX)	OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)	
YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)	
GREEN - Poly	(Cyanide)	
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)	
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)	

WATER QUALITY DATA Purge Start Time: 15:09 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1511)	0.00	6.96	107.7	147	14.35	27.82	8.62	clear/colorless
1	A(1514)	0.40	5.67	149.2	145	13.04	27.82	7.36	clear/colorless
2	A(1517)	0.75	6.04	121.2	150	12.63	27.82	6.72	clear/colorless
3	A(1520)	1.20	6.23	114.5	151	12.61	27.82	6.66	clear/colorless
4	A(1523)	1.60	6.32	112.5	152	12.60	27.82	6.49	clear/colorless
5	A(1526)	2.00	6.33	112.7	152	12.61	27.82	6.45	clear/colorless
6	A(1529)	2.35	6.33	112.9	152	12.63	27.82	6.43	clear/colorless


[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

Low flow purge method ~ 400mL/min (100mL/pulse) (8/13/14)

SAMPLER: T Andrews
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** Dup

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-081314-07

DUP ID: NA

WIND FROM: N NE E SE S SW W NW **WEATHER:** SUNNY CLOUDY RAIN ? **TEMPERATURE:** 80 °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
/ /	:	X 1
/ /	:	X 3

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	8/13/14	15:00	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	15:00	A	1 (250, 500, 1L)	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	15:00	A	1 (250, 500, 1L)	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260), (8011) OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0		0.00	.			.	.	.
1		
2		
3		
4		
5		
6		

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected at LB-6S

SAMPLER: T Andrews (PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201 Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-10SR

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-08144-08

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 72 °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
8/14/14	9:15	42.35	---	31.80	---	10.55	X 1 1.72
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	8/14/14	9:50	A	3 (40 mL)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/14/14	9:50	A	1 (250), 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/14/14	9:50	A	1 (250), 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	OR []	WA []
	VOA - Glass	(8260) (8011)	OR []	WA [X]
	AMBER - Glass	(8080) (8150) (TOX)	OR []	WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T.) <u>(NO₃)</u>		
	YELLOW - Poly	(COD) (TOC) (NH ₄) (NO ₃ /NO ₂) (Tannin/Lignin)		
	GREEN - Poly	(Cyanide)		
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)		
	RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> (Mg) <u>(Mn)</u> (K) (Na)		

WATER QUALITY DATA Purge Start Time: 9:28 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (930)	0.00	6.62	1641	359	15.25	31.80	1.47	cloudy/pale grey
1	A (933)	0.40	5.48	175.5	391	14.58	31.80	0.47	clear/colorless
2	A (936)	0.75	5.85	161.0	392	14.42	31.80	0.45	clear/colorless
3	A (939)	1.15	6.01	157.2	399	14.39	31.80	0.46	clear/colorless
4	A (942)	1.50	6.48	151.8	400	14.39	31.80	0.49	clear/colorless
5	A (945)	1.85	6.50	150.7	401	17.37	31.80	0.50	clear/colorless
6	A (948)	2.20	6.52	150.0	401	14.36	31.80	0.48	clear/colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow purge method ~ 400 mL/min (100 mL/pulse) (9/6/07)

SAMPLER: T Andrews
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201 Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** LB-13F
SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-081314-04

DUP ID: NA

WIND FROM: N NE E SE S SW W NW **LIGHT** MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 75. °F °C
(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
8/13/14	18:55	55.03	—	28.53	—	26.50	X1 4.32
/ /	:	.	.	.	.	.	X3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	8/13/14	13:25	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	13:25	A	1 (250) 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	13:25	A	1 (250) 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260), (8011) OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 13:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1304)	0.00	6.98	107.6	277	15.38	28.53	5.88	clear/colorless
1	A(1307)	0.50	6.19	114.7	273	13.52	28.53	2.47	clear/colorless
2	A(1310)	1.0	6.50	102.2	279	13.38	28.53	1.92	clear/colorless
3	A(1313)	1.40	6.54	100.9	279	13.37	28.53	1.87	clear/colorless
4	A(1316)	1.90	6.57	99.7	280	13.37	28.53	1.86	clear/colorless
5	A(1319)	2.25	6.60	99.0	281	13.38	28.53	1.84	clear/colorless
6	A(1322)	2.55	6.63	98.7	281	13.35	28.53	1.82	clear/colorless

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Low flow purge method ~ 400 mL/min (100 mL/pulse) (8/7/35)

SAMPLER: T Andrews (PRINTED NAME)  (SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill

WELL ID: LB-261

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-081314-05

DUP ID:

NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** °F 76 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
8/13/14	13:40	58.30	---	25.87	---	32.43	X1 5.29
/ /	:	.	.	.	.	.	X3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	8/13/14	14:20	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	14:20	A	1 (250) 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	14:20	A	1 (250) 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

S Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)									
	VOA - Glass	(8260) (8011)								OR []	WA [X]
	AMBER - Glass	(8080) (8150) (TOX)								OR []	WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)									
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)									
	GREEN - Poly	(Cyanide)									
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)									
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)									

WATER QUALITY DATA

Purge Start Time: 14:00

Pump/Bailor Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A (1402)	0.00	6.91	84.8	236	14.92	25.87	7.44	clear/colorless
1	A (1405)	0.35	6.12	108.4	233	14.15	25.87	5.27	clear/colorless
2	A (1408)	0.75	6.22	105.5	233	13.75	25.87	5.08	clear/colorless
3	A (1411)	1.10	6.48	96.6	233	13.95	25.87	4.87	clear/colorless
4	A (1414)	1.45	6.49	96.5	233	13.97	25.87	4.91	clear/colorless
5	A (1417)	1.75	6.50	96.6	234	13.91	25.87	4.93	clear/colorless
6									

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

Low Flow Purge Method ~ 400 mL/min (100 mL/pulse) (8/17/14)

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill

WELL ID: LB-27F

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662

BLIND ID: LB-081314-03

DUP ID:

NA

WIND FROM:

N	NE	E	SE	S	SW	W	NW
N							

WEATHER:

SUNNY	CLOUDY	RAIN	?
SUNNY			

TEMPERATURE:

LIGHT	MEDIUM	HEAVY
LIGHT		

°F	68	°C
----	----	----

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
8/13/14	11:10	57.15	---	31.90	---	25.25	X 1 4.12
/ /	:	.	.	.	.	.	X 3 .

Gal/ft = (dia./2)² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [v if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	8/13/14	11:40	A	3 (40 ml)	HCl	YES	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	11:40	A	1 (250) 500, 1L	None	YES	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	11:40	A	1 (250) 500, 1L	HNO ₃	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃

5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260), (8011) OR [] WA [X]
	AMBER - Glass	(8080) (8150) (TOX) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (Silica, T.) (NO ₃)
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₂ /NO ₃) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA

Purge Start Time: 11:15

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O ₂ (mg/l)	Water Quality
0	A(1118)	0.00	6.77	119.4	597	14.29	31.90	2.20	clear/colorless
1	A(1121)	0.35	6.68	107.1	569	13.93	31.90	0.95	clear/colorless
2	A(1124)	0.65	6.75	103.7	572	13.77	31.90	0.82	clear/colorless
3	A(1127)	0.90	6.79	101.2	576	13.67	31.90	0.67	clear/colorless
4	A(1130)	1.25	6.79	101.0	576	13.64	31.90	0.65	clear/colorless
5	A(1133)	1.45	6.79	100.8	576	13.63	31.90	0.68	clear/colorless
6	A(1137)	1.75	6.79	100.5	576	13.62	31.90	0.66	clear/colorless

[Casing]

[Select A-G]

[Cumulative Totals]

[Circle units]

[Clarity, Color]

Low flow purge method ~ 400 mL/min

(100 mL/pulse) (8/17/15)

SAMPLER:

(PRINTED NAME)

T Andrews

(SIGNATURE)



FIELD SAMPLING DATA SHEET

SCS ENGINEERS

14945 SW Sequoia Parkway, Suite 180,
Portland, OR 97224

Office: 503.639.9201

Fax: 503.684.6984

PROJECT NAME: Lechner Landfill **WELL ID:** FBI

SITE ADDRESS: 9411 NE 94th Avenue, Vancouver, WA 98662 **BLIND ID:** LB-081314-02

DUP ID: **NA**

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? **TEMPERATURE:** 68 °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Circle appropriate units]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)	
/ /	:	X 1	
/ /	:	X 3	
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Transfer

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [V if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	8/13/14	11:00	G	3 <u>40 ml</u>	<u>HCl</u>	<u>YES</u>	NO		✓
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	8/13/14	11:00	G	1 <u>250</u> 500, 1L	<u>None</u>	<u>YES</u>	NO	NA	✓
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO ₃	YES	NO		
Red Diss. Poly	8/13/14	11:00	G	1 <u>250</u> 500, 1L	<u>HNO₃</u>	<u>YES</u>	<u>YES</u>		✓
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H₂SO₄, Red HNO₃ 5 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)								
	VOA - Glass	<u>(8260)</u> (8011)							OR []	WA [<u>X</u>]
	AMBER - Glass	(8080) (8150) (TOX)							OR []	WA []
	WHITE - Poly	(pH) (Conductivity) <u>(TDS)</u> (TSS) (Alkalinity) (HCO ₃ /CO ₃) <u>(Cl)</u> (SO ₄) (Silica, T.) <u>(NO₃)</u>								
	YELLOW - Poly	(COD) (TOC) (NH ₃) (NO ₃ /NO ₂) (Tannin/Lignin)								
	GREEN - Poly	(Cyanide)								
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hardness)								
	RED DISSOLVED - Poly	(Ca) <u>(Fe)</u> <u>(Mg)</u> <u>(Mn)</u> (K) (Na)								

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O ₂ (mg/l)	Water Quality
0		0.00	.			.	.	.
1		
2		
3		
4		
5		
6		

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Collected near LB-27I

SAMPLER: T Andrews
(PRINTED NAME)

[Signature]
(SIGNATURE)

APPENDIX B

Historical Groundwater Analytical Data (Summary Tables)

Field Parameters

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-1D	LB-289-W04	2/28/89	6.18	225	10.0	NT
LB-1D	LB-589-W03	5/23/89	7.01	220	11.5	NT
LB-1D	LB-1089-W01	10/17/89	6.60	213	10.5	NT
LB-1D	LB-1189-W04	11/14/89	7.25	191	10.5	NT
LB-1D	LB-1289-W22	12/19/89	7.01	190	9.0	NT
LB-1D	LB-390-W09	3/14/90	6.92	188	11.0	NT
LB-1D	LB-690-W11	6/20/90	7.11	188	13.0	NT
LB-1D	LB-990-W08	9/14/90	6.79	223	12.5	NT
LB-1D	LB-1290-W06	12/11/90	6.90	199	10.7	NT
LB-1D	LB-391-W11	3/20/91	6.95	171	13.2	NT
LB-1D	LB-691-W06	6/25/91	7.05	226	11.7	NT
LB-1D	LB-991-06	9/24/91	7.05	184	10.7	NT
LB-1D	LB-1291-14	12/23/91	7.26	202	10.3	NT
LB-1D	LB-392-14	3/23/92	7.17	200	13.0	NT
LB-1D	LB-63092-2	6/30/92	6.73	217	13.0	NT
LB-1D	LB-92292-3	9/22/92	7.09	202	12.0	NT
LB-1D	LB-121192-16	12/11/92	7.03	205	12.0	NT
LB-1D	LB-031093-4	3/10/93	7.06	202	12.0	NT
LB-1D	LB-060293-6	6/2/93	7.00	196	13.5	NT
LB-1D	LB-092393-8	9/23/93	7.21	195	13.0	8.00
LB-1D	LB-121593-2	12/15/93	7.00	206	10.0	7.40
LB-1D	LB-032494-2	3/24/94	7.11	203	14.0	7.60
LB-1D	LB-062194-1	6/21/94	7.02	206	16.0	7.70
LB-1D	LB-090694-2	9/6/94	7.01	201	14.5	NT
LB-1D	LB-121494-12	12/14/94	7.29	259	11.0	9.90
LB-1D	LB-030995-2	3/9/95	7.01	219	13.5	7.70
LB-1D	LB-062095-13	6/20/95	7.11	227	13.0	7.20
LB-1D	LB-092295-14	9/22/95	6.97	211	12.6	NT
LB-1D	LB-12995-6	12/19/95	7.21	196	8.4	NT
LB-1D	LB-032096-18	3/20/96	6.98	233	14.5	NT
LB-1D	LB-061896-10	6/18/96	7.25	188	14.0	NT
LB-1D	LB-091796-6	9/17/96	7.13	181	13.4	NT
LB-1D	LB121796-2	12/17/96	7.48	207	10.6	NT
LB-1D	LB-031997-4	3/19/97	6.90	228	12.0	NT
LB-1D	LB-061797-4	6/17/97	7.21	211	13.7	NT
LB-1D	LB-091697-1	9/16/97	6.80	118	12.3	NT
LB-1D	LB-121697-4	12/16/97	7.03	223	11.9	8.30
LB-1D	LB-031998-4	3/19/98	6.71	220	12.2	NT
LB-1D	LB-061698-6	6/16/98	7.10	198	12.5	NT
LB-1D	LB-091798-3	9/17/98	8.12	134.6	12.6	NT
LB-1D	LB-121898-10	12/18/98	7.18	231	11.3	NT
LB-1D	LB-031799-04	3/17/99	7.18	184	13.2	NT
LB-1D	LB-062399-15	6/23/99	7.08	157	13.3	NT
LB-1D	LB-091799-11	9/17/99	6.91	222	12.2	NT
LB-1D	LB-121699-12	12/16/99	7.02	170	12.2	NT
LB-1D	LB-091100-2	9/11/00	7.02	221	13.0	NT
LB-1D	LB-121500-10	12/15/00	7.06	188	11.8	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-1D	LB-031501-15	3/15/01	6.92	220	11.5	NT
LB-1D (Dup)	LB-031501-16	3/15/01	6.92	220	11.5	NT
LB-1D	LB-031902-2	3/19/02	7.17	216	11.8	NT
LB-1D	LB-031303-12	3/13/03	6.77	200	12.0	NT
LB-1D	LB-022404-1	2/24/04	7.54	158	52.5	NT
LB-1D	LB-030905-13	3/9/05	6.69	215	12.0	8.39
LB-1D	LB-031406-1	3/14/06	6.90	162	11.5	8.55
LB-1D (Dup)	LB-031406-2	3/14/06	6.90	162	11.5	8.55
LB-1D	LB-030507-2	3/5/07	6.24	170	12.6	8.90
LB-1D	LB-032408-15	3/24/08	6.97	300	10.8	NT
LB-1D	LB-1D	3/17/09	6.89	221	11.4	10.18
LB-1D	LB-1D032310	3/23/10	7.15	266	11.6	NT
LB-1D	LB-1D	3/28/11	7.45	355	11.9	6.54
LB-1D	LB-031312-13	3/13/12	6.67	249	11.5	7.55
LB-1D	LB-020513-07	2/5/13	6.70	240	11.8	8.25
LB-1D	LB-021914-17	2/19/14	6.73	218	11.6	6.94
LB-1S	LB-589-W04	5/23/89	6.61	572	12.5	NT
LB-1S	LB-1289-W12	12/15/89	6.56	352	9.5	NT
LB-1S	LB-390-W10	3/14/90	6.26	367	11.5	NT
LB-1S	LB-690-W10	6/20/90	6.58	446	12.0	NT
LB-1S	LB-990-W06	9/14/90	6.40	416	13.0	NT
LB-1S	LB-1290-W05	12/11/90	6.38	554	11.2	NT
LB-1S	LB-391-W10	3/20/91	6.30	565	13.1	NT
LB-1S	LB-691-W05	6/25/91	6.63	546	12.5	NT
LB-1S	LB-991-05	9/24/91	6.67	316	11.7	NT
LB-1S	LB-1291-13	12/23/91	6.94	377	11.1	NT
LB-1S	LB-392-15	3/23/92	6.64	416	14.0	NT
LB-1S	LB-63092-1	6/30/92	6.71	414	14.0	NT
LB-1S	LB-92292-2	9/22/92	6.47	358	12.5	NT
LB-1S	LB-121192-15	12/11/92	6.51	353	12.0	NT
LB-1S	LB-031093-3	3/10/93	6.46	630	12.0	NT
LB-1S	LB-060293-5	6/2/93	6.20	565	14.5	NT
LB-1S	LB-092393-09	9/23/93	6.62	475	15.0	4.90
LB-1S	LB-121593-1	12/15/93	6.41	456	12.5	3.80
LB-1S	LB-032494-1	3/24/94	6.29	567	15.0	NT
LB-1S	LB-062194-4	6/21/94	6.30	554	16.5	4.70
LB-1S	LB-090694-1	9/6/94	6.36	516	14.5	NT
LB-1S	LB-121494-11	12/14/94	7.49	589	10.0	6.20
LB-1S	LB-030995-1	3/9/95	6.61	455	13.5	NT
LB-1S	LB-062095-12	6/20/95	6.74	553	13.5	7.30
LB-1S	LB-092295-13	9/22/95	6.98	448	13.1	NT
LB-1S	LB-121995-5	12/19/95	6.74	390	10.2	NT
LB-1S	LB-032096-17	3/20/96	6.71	496	18.0	NT
LB-1S	LB-061896-9	6/18/96	6.82	361	14.0	NT
LB-1S	LB-091796-5	9/17/96	6.73	401	12.6	NT
LB-1S	LB121796-1	12/17/96	7.40	398	11.5	NT
LB-1S	LB-031997-3	3/19/97	6.61	517	12.8	NT
LB-1S	LB-061797-3	6/17/97	6.55	350	14.7	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-1S	LB-091697-2	9/16/97	6.50	323	13.1	NT
LB-1S	LB-121697-5	12/16/97	6.52	465	13.1	6.30
LB-1S	LB-031998-3	3/19/98	6.78	538	13.0	NT
LB-1S	LB-061698-5	6/16/98	6.49	329	13.5	NT
LB-1S	LB-091798-4	9/17/98	6.76	281	13.8	NT
LB-1S	LB-121898-9	12/18/98	6.69	344	12.4	NT
LB-1S	LB-031799-3	3/17/99	6.85	327	14.6	NT
LB-1S	LB-062399-14	6/23/99	6.72	266	14.4	NT
LB-1S	LB-091799-9	9/17/99	6.57	442	13.3	NT
LB-1S	LB-121699-13	12/16/99	6.64	310	13.6	NT
LB-1S	LB-091100-1	9/11/00	6.59	371	13.9	NT
LB-1S	LB-121500-9	12/15/00	6.69	305	13.0	NT
LB-1S	LB-031401-14	3/14/01	6.58	276	13.3	NT
LB-1S	LB-092001-6	9/20/01	6.63	305	13.2	NT
LB-1S	LB-031902-1	3/19/02	7.45	288	12.7	6.89
LB-1S	LB-091802-1	9/18/02	7.20	240	14.0	5.50
LB-1S	LB-031303-10	3/13/03	6.97	230	12.0	NT
LB-1S (Dup)	LB-031303-11	3/13/03	6.97	230	12.0	NT
LB-1S	LB-092203-6	9/22/03	6.50	170	14.0	6.17
LB-1S	LB-022404-2	2/24/04	6.68	173	53.9	NT
LB-1S	LB-090104-1	9/1/04	6.50	225	13.2	NT
LB-1S (Dup)	LB-090104-30	9/1/04	6.50	225	13.2	NT
LB-1S	LB-030905-14	3/9/05	6.59	227	13.0	6.52
LB-1S	LB-091405-1	9/14/05	6.86	190	13.5	5.12
LB-1S	LB-031406-3	3/14/06	6.68	239	12.1	8.03
LB-1S	LB-091306-5	9/13/06	6.58	242	12.7	4.90
LB-1S (Dup)	LB-091306-6	9/13/06	6.58	242	12.7	4.90
LB-1S	LB-030507-1	3/5/07	6.18	187	12.4	8.24
LB-1S	LB-091907-1	9/19/07	6.66	246	12.6	6.36
LB-1S (Dup)	LB-091907-2	9/19/07	6.66	246	12.6	6.36
LB-1S	LB-032408-14	3/24/08	6.60	381	10.1	NT
LB-1S	LB-091608-1	9/16/08	6.79	267	12.4	NT
LB-1S	LB-1S	3/17/09	6.75	265	12.0	8.45
LB-1S	LBLF1S091109	9/11/09	7.10	261	13.1	5.86
LB-1S	LB-1S032310	3/23/10	6.89	345	12.1	NT
LB-1S	LB1S092310	9/23/10	7.20	170	11.7	NT
LB-1S	LB-1S	3/24/11	6.75	271	12.3	5.66
LB-1S	LB-090811-07	9/8/11	6.61	296	14.2	5.35
LB-1S	LB-031312-14	3/13/12	6.50	335	12.5	4.44
LB-1S	LB-091212-08	9/12/12	6.70	177	13.0	2.91
LB-1S	LB-020513-09	2/5/13	6.50	279	12.1	6.00
LB-1S	LB-082213-08	8/22/13	5.84	312	13.0	4.12
LB-1S	LB-021914-18	2/19/14	6.48	357	11.7	4.15
LB-1S (Dup)	LB-021914-19	2/19/14	6.48	357	11.7	4.15
LB-1S	LB-081414-09	8/14/14	6.36	258	13.4	4.93
LB-3D	LB-1189-W01	11/13/89	6.77	240	10.0	NT
LB-3D	LB-1289-W20	12/18/89	6.71	225	9.5	NT
LB-3D	LB-032097-14	3/20/97	6.79	271	12.1	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-3D	LB-032098-21	3/20/98	6.70	242	12.1	NT
LB-3D	LB-031899-15	3/18/99	6.75	198	13.5	NT
LB-3D	LB-031501-17	3/15/01	6.68	220	11.3	NT
LB-3D	LB-032002-18	3/20/02	6.78	216	11.5	7.82
LB-3D	LB-031303-14	3/13/03	6.43	170	12.0	NT
LB-3D	LB-022404-5	2/24/04	6.74	129	51.9	NT
LB-3D	LB-030905-15	3/9/05	6.56	176	11.9	7.20
LB-3D	LB031606-21	3/16/06	6.73	158	11.0	8.84
LB-3D	LB-030507-4	3/5/07	5.94	138	12.0	7.43
LB-3D (Dup)	LB-030507-5	3/5/07	5.94	138	12.0	7.43
LB-3D	LB-032408-17	3/24/08	6.74	292	12.1	NT
LB-3D	LB-3D	3/18/09	6.68	204	12.9	8.52
LB-3D	LB-3D032410	3/24/10	6.66	233	14.3	NT
LB-3D	LB-3D	3/28/11	7.37	336	11.8	5.46
LB-3D	LB-031312-09	3/13/12	6.48	231	10.3	5.38
LB-3D	LB-020713-18	2/7/13	6.49	221	11.2	5.14
LB-3D	LB-021914-22	2/19/14	6.38	209	11.2	5.18
LB-3S	LB-1089-W02	10/17/89	7.36	241	11.0	NT
LB-3S	LB-1189-W02	11/13/89	6.63	224	10.5	NT
LB-3S	LB-1289-W11	12/15/89	6.14	220	10.0	NT
LB-3S	LB-390-W11	3/14/90	6.57	216	11.0	NT
LB-3S	LB-690-W06	6/19/90	NT	208	13.0	NT
LB-3S	LB-990-W10	9/14/90	6.93	211	11.5	NT
LB-3S	LB-1290-W08	12/12/90	6.72	209	11.1	NT
LB-3S	LB-391-W07	3/20/91	6.36	214	11.3	NT
LB-3S	LB-691-W10	6/26/91	6.04	222	11.9	NT
LB-3S	LB-991-16	9/24/91	6.38	222	11.1	NT
LB-3S	LB-1291-06	12/20/91	6.65	239	10.7	NT
LB-3S	LB-392-10	3/20/92	6.74	227	13.5	NT
LB-3S	LB-62692-8	6/26/92	7.22	243	13.0	NT
LB-3S	LB-91792-3	9/17/92	7.90	262	12.0	NT
LB-3S	LB-121092-14	12/10/92	6.41	274	12.0	NT
LB-3S	LB-031593-25	3/15/93	6.61	303	11.5	NT
LB-3S	LB-060393-14	6/3/93	6.87	281	13.5	NT
LB-3S	LB-092393-01	9/23/93	6.18	266	14.0	1.50
LB-3S	LB-121593-5	12/15/93	9.51	277	10.5	3.00
LB-3S	LB-032594-11	3/25/94	6.83	284	13.0	5.80
LB-3S	LB-062394-13	6/23/94	6.64	290	14.5	5.40
LB-3S	LB-090794-8	9/7/94	6.95	286	14.0	NT
LB-3S	LB-121494-13	12/14/94	6.62	356	11.5	3.30
LB-3S	LB-031395-20	3/13/95	6.48	348	13.0	6.10
LB-3S	LB-052095-14	6/20/95	6.58	352	13.0	4.80
LB-3S	LB-092195-11	9/21/95	6.77	280	12.2	NT
LB-3S	LB-121995-4	12/19/95	6.89	170	10.0	NT
LB-3S	LB-032096-21	3/20/96	6.70	312	11.4	NT
LB-3S	LB-061996-11	6/19/96	6.54	261	13.5	NT
LB-3S	LB-032097-13	3/20/97	6.73	274	11.6	NT
LB-3S	LB-032098-20	3/20/98	6.70	242	12.8	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-3S	LB-031899-14	3/18/99	6.72	173	13.3	NT
LB-3S	LB-031501-18	3/15/01	6.67	173	11.2	NT
LB-3S	LB-032002-17	3/20/02	6.89	182	11.4	7.48
LB-3S	LB-031303-13	3/13/03	6.53	150	11.7	NT
LB-3S	LB-022404-6	2/24/04	6.62	121	52.2	NT
LB-3S	LB-030905-16	3/9/05	6.50	164	11.9	6.12
LB-3S	LB-031606-22	3/16/06	6.71	142	11.1	8.30
LB-3S	LB-030507-3	3/5/07	5.93	134	12.0	7.44
LB-3S	LB-032408-18	3/24/08	6.62	302	11.6	NT
LB-3S	LB-3S	3/18/09	6.61	223	12.2	7.39
LB-3S	LB-3S032410	3/24/10	6.76	239	13.9	NT
LB-3S	LB-3S	3/28/11	7.29	352	11.6	5.73
LB-3S	LB-031312-10	3/13/12	6.44	239	11.1	4.57
LB-3S	LB-020713-17	2/7/13	6.46	236	11.5	5.36
LB-3S	LB-021914-22	2/19/14	6.22	215	11.6	6.39
LB-4D	LB-289-W02	2/27/89	7.15	177	9.5	NT
LB-4D	LB-589-W02	5/22/89	7.33	162	12.0	NT
LB-4D	LB-1289-W06	12/14/89	7.50	147	9.0	NT
LB-4D	LB-390-W01	3/13/90	7.50	154	12.0	NT
LB-4D	LB-690-W01	6/19/90	NT	153	12.0	NT
LB-4D	LB-990-W02	9/13/90	7.50	152	13.0	NT
LB-4D	LB-1290-W01	12/11/90	7.59	152	10.1	NT
LB-4D	LB-391-W27	3/21/91	7.07	156	10.0	NT
LB-4D	LB-691-W02	6/25/91	7.10	172.3	11.4	NT
LB-4D	LB-991-01	9/24/91	7.40	146	10.5	NT
LB-4D	LB-1291-02	12/19/91	7.74	157	9.7	NT
LB-4D	LB-392-02	3/19/92	7.77	150	13.0	NT
LB-4D	LB-62692-2	6/26/92	7.50	146	12.0	NT
LB-4D	LB-91792-5	9/17/92	7.72	151	11.0	NT
LB-4D	LB-12992-3	12/9/92	7.80	165	11.0	NT
LB-4D	LB-030993-2	3/9/93	7.72	151	12.0	NT
LB-4D	LB-060493-17	6/4/93	6.03	144	13.0	NT
LB-4D	LB-092393-03	9/23/93	7.60	159	12.5	7.50
LB-4D	LB-121693-11	12/16/93	7.88	150	11.0	7.60
LB-4D	LB-032594-10	3/25/94	7.72	155	14.0	6.70
LB-4D	LB-062794-18	6/27/94	7.79	169	16.0	6.20
LB-4D	LB-090994-20	9/9/94	6.63	496	14.5	NT
LB-4D	LB-121494-15	12/14/94	7.88	169	11.0	6.80
LB-4D	LB-031395-22	3/13/95	7.84	158	12.5	NT
LB-4D	LB-092295-21	9/22/95	7.91	117.4	12.6	NT
LB-4D	LB-122795-21	12/27/95	7.80	122.3	11.2	NT
LB-4D	LB-032796-22	3/27/96	7.83	123.1	13.1	NT
LB-4D	LB-070996-2	7/9/96	7.28	129.8	13.8	NT
LB-4D	LB-091896-15	9/18/96	7.69	125	13.0	NT
LB-4D	LB-121896-15	12/18/96	7.19	158	10.1	NT
LB-4D	LB-031797-2	3/17/97	7.59	166	10.8	NT
LB-4D	LB-061697-2	6/16/97	7.74	119.1	12.6	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-4D	LB-091697-9	9/16/97	7.00	100	11.5	NT
LB-4D	LB-121597-2	12/15/97	7.51	113	10.4	8.20
LB-4D	LB-031898-1	3/18/98	7.24	173	11.3	NT
LB-4D	LB-061598-2	6/15/98	7.10	122	11.3	NT
LB-4D	LB-091698-2	9/16/98	6.79	95.6	12.3	NT
LB-4D	LB-121898-14	12/18/98	7.79	170	10.5	NT
LB-4D	LB-031999-21	3/19/99	7.36	146	13.7	NT
LB-4D	LB-062299-2	6/22/99	7.95	126	11.9	NT
LB-4D	LB-091699-8	9/16/99	7.57	159	11.1	NT
LB-4D	LB-121499-1	12/14/99	7.69	156	10.8	NT
LB-4D	LB-091200-7	9/12/00	7.10	147	12.0	NT
LB-4D	LB-121300-4	12/13/00	7.70	135	10.7	NT
LB-4D	LB-031301-1	3/13/01	7.51	154	11.0	NT
LB-4D	LB-031902-4	3/19/02	6.94	160	11.0	7.23
LB-4D (Dup)	LB-031902-5	3/19/02	6.94	160	11.0	7.23
LB-4D	LB-031303-18	3/13/03	7.10	150	11.0	NT
LB-4D	LB-031005-23	3/10/05	7.23	166	11.6	8.24
LB-4D	LB-031506-11	3/15/06	7.41	151	11.0	6.98
LB-4D	LB-030607-22	3/6/07	6.59	132	12.0	9.96
LB-4D	LB-032408-19	3/24/08	7.61	281	11.9	NT
LB-4D	LB-4D	3/18/09	7.68	188	11.7	8.19
LB-4D	LB-4D032310	3/23/10	7.79	222	11.5	NT
LB-4D	LB-4D	3/22/11	8.46	173	11.2	4.70
LB-4D	LB-031312-11	3/13/12	7.33	211	10.9	4.89
LB-4D	LB-020413-01	2/4/13	7.20	195	11.6	5.50
LB-4D	LB-021814-11	2/18/14	7.19	207	11.0	4.74
LB-4S(R)	LB-091294-21	9/12/94	6.81	232	14.0	NT
LB-4S(R)	LB-121494-14	12/14/94	6.81	158	12.0	11.00
LB-4S(R)	LB-031395-21	3/13/95	7.29	156	13.5	3.10
LB-4S(R)	LB-092295-19	9/22/95	7.62	226	13.5	NT
LB-4S(R)	LB-122795-20	12/27/95	6.82	87.4	11.1	NT
LB-4S(R)	LB-032796-23	3/27/96	6.88	80.5	13.4	NT
LB-4S(R)	LB-070996-20	7/9/96	6.61	219	12.5	NT
LB-4S(R)	LB-091896-14	9/18/96	6.75	172	13.0	NT
LB-4S(R)	LB-121896-14	12/18/96	6.80	219	10.8	NT
LB-4S(R)	LB-031797-1	3/17/97	6.67	222	11.7	1.60
LB-4S(R)	LB-061697-1	6/16/97	6.61	145.6	18.0	4.20
LB-4S(R)	LB-091697-10	9/16/97	6.96	120.1	11.9	NT
LB-4S(R)	LB-121597-1	12/15/97	6.51	137	11.7	10.20
LB-4S(R)	LB-031898-2	3/18/98	6.60	243	12.3	NT
LB-4S(R)	LB-061598-1	6/15/98	6.08	213	12.5	NT
LB-4S(R)	LB-091698-1	9/16/98	6.57	104.8	12.7	NT
LB-4S(R)	LB-121898-13	12/18/98	6.84	202	12.1	NT
LB-4S(R)	LB-031999-20	3/19/99	6.81	199	14.3	NT
LB-4S(R)	LB-062299-1	6/22/99	7.71	175	24.0	8.90
LB-4S(R)	LB-091699-7	9/16/99	6.63	220	12.3	NT
LB-4S(R)	LB-121499-2	12/14/99	6.76	193	11.7	NT

**Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill**

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-4S(R)	LB-091200-6	9/12/00	6.85	187	12.6	NT
LB-4S(R)	LB-121300-3	12/13/00	6.74	168	11.3	NT
LB-4S(R)	LB-031301-2	3/13/01	6.67	200	12.1	NT
LB-4S(R)	LB-031902-3	3/19/02	6.97	176	12.0	8.32
LB-4S(R)	LB-031303-17	3/13/03	6.33	187	12.3	NT
LB-4S(R)	LB-031005-22	3/10/05	6.51	210	13.0	9.18
LB-4S(R)	LB-031506-12	3/15/06	6.53	172	11.9	9.53
LB-4S(R)	LB-030607-21	3/6/07	6.41	212	11.9	11.11
LB-4S(R)	LB-032408-20	3/24/08	6.63	326	13.1	NT
LB-4S(R)	LB-4S	3/18/09	6.43	232	11.8	10.20
LB-4S(R)	LB-4SR032310	3/23/10	6.57	216	12.4	NT
LB-4S(R)	LB-4SR	3/22/11	6.82	220	12.1	8.58
LB-4S(R)	LB-031312-12	3/13/12	6.21	204	12.0	8.96
LB-4S(R)	LB-020413-02	2/4/13	6.30	206	12.3	9.18
LB-4S(R)	LB-021814-12	2/18/14	6.28	193	11.6	7.04
LB-5D	LB-289-W13	3/1/89	6.36	635	10.0	NT
LB-5D	LB-589-W13	5/24/89	6.71	534	13.0	NT
LB-5D	LB-1289-W24	12/19/89	6.62	559	10.5	NT
LB-5D	LB-690-W14	6/20/90	6.69	531	13.0	NT
LB-5D	LB-990-W15	9/18/90	6.43	554	13.0	NT
LB-5D	LB-1290-W24	12/14/90	6.75	550	10.2	NT
LB-5D	LB-391-W18	3/21/91	6.50	546	12.0	NT
LB-5D	LB-691-W17	6/26/91	6.73	513	13.2	NT
LB-5D	LB-991-06	9/25/91	6.44	547	12.1	NT
LB-5D	LB-1291-11	12/20/91	6.83	569	10.7	NT
LB-5D	LB-392-03	3/19/92	6.73	526	13.0	NT
LB-5D	LB-63092-4	6/30/92	6.77	576	13.5	NT
LB-5D	LB-91892-2	9/18/92	6.99	566	11.0	NT
LB-5D	LB-121092-11	12/10/92	6.76	550	13.0	NT
LB-5D	LB-031193-12	3/11/93	6.71	547	13.0	NT
LB-5D	LB-060293-8	6/2/93	6.42	515	14.0	NT
LB-5D	LB-092793-19	9/27/93	6.72	544	14.0	7.00
LB-5D	LB-121593-4	12/15/93	6.73	523	12.5	1.20
LB-5D	LB-032894-13	3/28/94	6.71	610	14.0	2.40
LB-5D	LB-062194-3	6/21/94	6.76	538	15.0	3.00
LB-5D	LB-090694-4	9/6/94	6.83	537	16.0	NT
LB-5D	LB-121394-8	12/13/94	6.84	577	13.5	2.20
LB-5D	LB-030995-4	3/9/95	6.98	563	14.0	2.90
LB-5D	LB-061995-7	6/19/95	6.87	600	13.0	4.70
LB-5D	LB-092195-9	9/21/95	6.50	582	13.3	NT
LB-5D	LB-121895-2	12/18/95	6.72	591	12.3	NT
LB-5D	LB-031996-9	3/19/96	6.65	519	13.0	NT
LB-5D	LB-061896-8	6/18/96	7.01	511	13.5	NT
LB-5D	LB-031997-9	3/19/97	6.81	509	12.3	NT
LB-5D	LB-031998-6	3/19/98	6.71	539	14.4	NT
LB-5D	LB-031899-11	3/18/99	6.76	343	15.2	NT
LB-5D	LB-031401-11	3/14/01	6.73	409	13.5	NT
LB-5D	LB-031902-13	3/19/02	6.85	430	12.7	4.29

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-5D	LB-031303-9	3/13/03	6.53	410	12.0	NT
LB-5D	LB-022504-7	2/25/04	6.80	307	52.7	NT
LB-5D (Dup)	LB-022504-8	2/25/04	6.80	307	52.7	NT
LB-5D	LB-030805-1	3/8/05	6.82	400	15.2	3.91
LB-5D	LB-031606-14	3/16/06	6.75	339	12.3	7.38
LB-5D (Dup)	LB-031606-15	3/16/06	6.75	339	12.3	7.38
LB-5D	LB-030507-7	3/5/07	6.34	275	13.4	4.40
LB-5D	LB-031908-2	3/19/08	6.88	0.566	11.8	NT
LB-5D(Dup)	LB-031908-3	3/19/08	6.88	0.566	11.8	NT
LB-5D	LB-5D	3/17/09	6.88	351	13.1	4.22
LB-5D	LB-5D032410	3/24/10	7.00	365	15.0	NT
LB-5D	LB-5D	3/23/11	7.69	338	12.8	2.43
LB-5D	LB-031212-03	3/12/12	6.63	363	11.4	0.33
LB-5D	LB-020513-03	2/5/13	6.69	333	11.3	0.39
LB-5D	LB-021714-01	2/17/14	6.42	256	11.1	0.68
LB-5S	LB-390-W17	3/15/90	6.41	135	10.0	NT
LB-5S	LB-690-W13	6/20/90	6.84	161	12.0	NT
LB-5S	LB-990-W14	9/18/90	6.59	186	11.5	NT
LB-5S	LB-1290-W25	12/14/90	6.61	187	10.6	NT
LB-5S	LB-391-W17	3/21/91	6.31	162	11.1	NT
LB-5S	LB-691-W16	6/26/91	7.16	162.3	12.0	NT
LB-5S	LB-991-09	9/25/91	6.61	206	10.8	NT
LB-5S	LB-1291-10	12/20/91	6.86	124	10.8	NT
LB-5S	LB-392-04	3/19/92	6.66	168	12.0	NT
LB-5S	LB-63092-3	6/30/92	6.19	206	13.0	NT
LB-5S	LB-91892-1	9/18/92	6.57	208	11.5	NT
LB-5S	LB-121092-10	12/10/92	6.70	182	12.5	NT
LB-5S	LB-031193-11	3/11/93	6.63	179	12.0	NT
LB-5S	LB-060293-7	6/2/93	6.33	198	13.0	NT
LB-5S	LB-092793-18	9/27/93	6.72	180	14.5	9.60
LB-5S	LB-121593-3	12/15/93	6.78	161	12.0	11.00
LB-5S	LB-032894-12	3/28/94	6.28	200	13.0	11.00
LB-5S	LB-062194-2	6/21/94	6.59	219	15.0	10.50
LB-5S	LB-090694-3	9/6/94	6.50	178	15.5	NT
LB-5S	LB-121394-9	12/13/94	6.61	142	13.5	11.00
LB-5S	LB-030995-3	3/9/95	6.94	158	13.5	10.40
LB-5S	LB-051995-6	6/19/95	6.54	275	12.0	7.70
LB-5S	LB-092195-8	9/20/95	6.50	229	12.3	NT
LB-5S	LB-121895-1	12/18/95	7.49	89	11.7	NT
LB-5S	LB-031996-7	3/19/96	6.45	217	12.5	NT
LB-5S	LB-061896-7	6/18/96	6.65	238	12.5	NT
LB-5S	LB-031997-8	3/19/97	6.93	226	11.3	NT
LB-5S	LB-031998-5	3/19/98	6.39	226	12.1	NT
LB-5S	LB-031899-10	3/18/99	6.89	180	13.6	NT
LB-5S	LB-031401-12	3/14/01	6.53	177	11.9	NT
LB-5S	LB-092001-1	9/20/01	6.38	218	12.7	NT
LB-5S	LB-031902-12	3/19/02	6.76	185	11.6	8.89
LB-5S	LB-091802-6	9/18/02	6.90	220	14.0	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-5S	LB-031303-8	3/13/03	6.67	167	12.0	NT
LB-5S	LB-092203-1	9/22/03	6.08	190	13.5	7.00
LB-5S	LB-022504-9	2/25/04	6.45	146	54.3	NT
LB-5S	LB-090104-5	9/1/04	6.36	200	14.5	NT
LB-5S	LB-030805-2	3/8/05	6.19	200	12.8	9.26
LB-5S	LB-091405-4	9/14/05	6.37	180	13.3	8.16
LB-5S	LB-031606-16	3/16/06	6.60	203	11.4	11.18
LB-5S	LB-091206-1	9/12/06	6.27	264	13.6	7.18
LB-5S	LB-030507-6	3/5/07	5.82	175	12.4	9.72
LB-5S	LB-091907-3	9/19/07	6.27	223	13.0	9.42
LB-5S	LB-031908-1	3/19/08	6.45	0.457	10.7	NT
LB-5S	LB-091608-2	9/16/08	6.42	204	12.9	NT
LB-5S (Dup)	LB-091608-8	9/16/08	6.79	267	12.4	NT
LB-5S	LB-5S	3/17/09	6.55	213	11.9	9.21
LB-5S	LBLF5S091109	9/11/09	6.70	197	13.3	9.74
LB-5S	LB-5S032410	3/24/10	6.54	190	13.4	NT
LB-5S (Dup)	LB-DUP2032410	3/24/10	6.54	190	13.4	NT
LB-5S	LB-5S092310	9/23/10	6.70	174	12.4	NT
LB-5S	LB-5S	3/23/11	6.89	228	11.8	7.82
LB-5S	LB-090811-06	9/8/11	5.92	273	13.3	8.10
LB-5S	LB-032212-17	3/22/12	6.16	204	10.9	9.22
LB-5S	LB-091112-01	9/11/12	6.11	188	13.4	8.13
LB-5S	LB-020513-04	2/5/13	6.20	183	11.7	8.34
LB-5S	LB-082113-01	8/21/13	6.10	127	13.7	6.01
LB-5S	LB-021714-02	2/17/14	6.14	166	12.2	5.11
LB-5S	LB-081314-01	8/13/14	6.19	173	13.5	7.98
LB-6S	LB-289-W17	3/1/89	6.43	801	10.0	NT
LB-6S	LB-589-W17	5/24/89	6.80	630	13.5	NT
LB-6S	LB-1289-W13	12/15/89	6.89	835	10.5	NT
LB-6S	LB-390-W24	3/15/90	6.54	667	13.5	NT
LB-6S	LB-690-W22	6/21/90	6.99	567	13.0	NT
LB-6S	LB-990-W11	9/14/90	6.49	741	13.0	NT
LB-6S	LB-1290-W13	12/12/90	6.83	765	10.4	NT
LB-6S	LB-391-W16	3/21/91	6.44	522	12.4	NT
LB-6S	LB-691-W19	6/27/91	6.10	640	13.3	NT
LB-6S	LB-991-14	9/25/91	6.84	665	12.9	NT
LB-6S	LB-1291-08	12/20/91	6.69	694	11.9	NT
LB-6S	LB-392-07	3/20/92	6.69	520	14.0	NT
LB-6S	LB-62692-5	6/26/92	7.02	649	13.5	NT
LB-6S	LB-92192-4	9/21/92	6.76	676	12.0	NT
LB-6S	LB-12992-4	12/9/92	6.77	727	13.0	NT
LB-6S	LB-031093-7	3/10/93	6.90	614	12.5	NT
LB-6S	LB-060393-11	6/3/93	6.64	410	14.0	NT
LB-6S	LB-092493-13	9/24/93	6.64	470	14.0	5.20
LB-6S	LB-121593-6	12/15/93	6.68	579	13.0	3.40
LB-6S	LB-032994-18	3/29/94	6.37	390	14.5	7.40
LB-6S	LB-062394-11	6/23/94	6.62	505	13.5	5.90

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-6S	LB-090694-5	9/6/94	6.69	531	18.0	NT
LB-6S	LB-121394-6	12/13/94	6.61	524	13.0	3.00
LB-6S	LB-031095-10	3/10/95	6.81	320	12.0	8.90
LB-6S	LB-062095-9	6/20/95	6.50	487	12.0	5.60
LB-6S	LB-092095-6	9/20/95	6.74	495	15.0	NT
LB-6S	LB-122095-12	12/20/95	6.21	386	12.1	NT
LB-6S	LB-031996-5	3/19/96	6.29	336	13.5	NT
LB-6S	LB-061996-12	6/19/96	6.54	367	13.0	NT
LB-6S	LB-091896-12	9/18/96	6.31	362	12.8	NT
LB-6S	LB121796-3	12/17/96	7.01	431	12.2	NT
LB-6S	LB-031997-7	3/19/97	6.89	430	12.5	NT
LB-6S	LB-061797-6	6/17/97	6.45	456	13.4	NT
LB-6S	LB-091697-3	9/16/97	6.50	351	12.1	NT
LB-6S	LB-121797-14	12/17/97	6.43	584	12.5	0.60
LB-6S	LB-031998-7	3/19/98	6.46	633	13.4	NT
LB-6S	LB-061698-7	6/16/98	6.54	384	13.1	NT
LB-6S	LB-091798-5	9/17/98	6.54	292	13.5	NT
LB-6S	LB-121798-01	12/17/98	6.74	398	12.5	NT
LB-6S	LB-031799-2	3/17/99	6.75	352	14.5	NT
LB-6S	LB-062399-11	6/23/99	6.77	298	13.7	NT
LB-6S	LB-091699-5	9/16/99	6.56	554	13.2	NT
LB-6S	LB-121599-10	12/14/99	6.66	440	12.5	NT
LB-6S	LB-091200-3	9/12/00	6.42	413	13.2	NT
LB-6S	LB-121200-1	12/12/00	6.61	467	13.0	NT
LB-6S	LB-031301-7	3/13/01	6.58	531	13.2	NT
LB-6S	LB-092001-5	9/20/01	6.69	405	13.6	NT
LB-6S (Dup)	LB-031301-8	3/13/01	6.58	531	13.2	NT
LB-6S	LB-032002-15	3/20/02	6.82	468	13.2	4.54
LB-6S	LB-091802-2	9/18/02	7.00	430	14.5	NT
LB-6S (Dup)	LB-091802-3	9/18/02	7.00	430	14.5	NT
LB-6S	LB-031303-21	3/13/03	6.70	497	13.0	NT
LB-6S	LB-092203-5	9/22/03	6.50	310	13.5	5.70
LB-6S	LB-022604-18	2/26/04	6.79	279	54.4	NT
LB-6S	LB-090104-6	9/1/04	6.69	335	13.3	NT
LB-6S	LB-030805-9	3/8/05	6.84	432	14.5	3.13
LB-6S	LB-091405-6	9/14/05	6.67	302	13.4	2.34
LB-6S	LB-0301506-13	3/15/06	6.67	287	12.1	8.38
LB-6S	LB-091206-4	9/12/06	6.66	344	13.1	5.80
LB-6S	LB-030507-12	3/5/07	6.20	249	13.0	9.40
LB-6S	LB-091907-6	9/19/07	6.72	349	12.6	3.59
LB-6S	LB-031908-9	3/19/08	6.69	418	13.0	NT
LB-6S	LB-091608-3	9/16/08	6.47	334	14.5	NT
LB-6S	LB-6S	3/18/09	6.63	304	12.4	4.61
LB-6S	LBLF6S091109	9/11/09	7.16	292	12.4	2.28
LB-6S	LB-6S032310	3/23/10	6.79	322	6.2	NT
LB-6S	LB6S092310	9/23/10	7.00	192	11.6	NT
LB-6S (Dup)	LB51S092310	9/23/10	6.70	174	12.4	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-6S	LB-6S	3/22/11	7.58	241	12.2	7.52
LB-6S (Dup)	DUP1	3/22/11	7.58	241	12.2	7.52
LB-6S	LB-090711-05	9/7/11	6.76	219	15.0	7.01
LB-6S (Dup)	LB-090711-04	9/7/11	6.76	219	15.0	7.01
LB-6S	LB-032212-23	3/22/12	6.54	240	11.7	6.65
LB-6S (Dup)	LB-032212-22	3/22/12	6.54	240	11.7	6.65
LB-6S	LB-091212-06	9/12/12	6.40	214	12.7	4.02
LB-6S (Dup)	LB-091212-07	9/12/12	6.40	214	12.7	4.02
LB-6S	LB-020613-15	2/6/13	6.66	200	11.7	3.23
LB-6S (Dup)	LB-020613-16	2/6/13	6.66	200	11.7	3.23
LB-6S	LB-082113-07	8/21/13	6.03	181	13.6	4.61
LB-6S	LB-021914-23	2/19/14	6.39	179	11.5	3.44
LB-6S	LB-081314-06	8/13/14	6.33	152	12.6	6.43
LB-6S (Dup)	LB-081314-07	8/13/14	6.33	152	12.6	6.43
LB-10DR	LB-031005-19	3/10/05	7.15	523	13.6	1.61
LB10-DR	LB-031406-5	3/14/06	6.83	389	12.3	2.98
LB10-DR	LB-030607-20	3/6/07	6.39	375	13.3	6.33
LB10-DR	LB-032408-22	3/24/08	6.92	535	12.6	NT
LB10-DR	LB-10DR	3/17/09	6.86	495	12.4	5.12
LB-10DR	LB-10DR032310	3/23/10	6.95	525	12.2	NT
LB-10DR	LB-10DR	3/29/11	6.33	491	11.8	2.81
LB-10DR	LB-0313012-07	3/13/12	6.70	463	11.7	1.42
LB-10DR	LB-020713-19	2/7/13	6.68	458	12.5	0.89
LB-10DR	LB-021914-15	2/19/14	6.94	357	12.5	1.50
LB-10S	LB-1089-W05	10/17/89	7.03	797	12.0	NT
LB-10S	LB-1189-W07	11/14/89	6.89	721	11.0	NT
LB-10S	LB-1289-W09	12/14/89	6.69	432	9.0	NT
LB-10S	LB-390-W05	3/13/90	7.24	416	10.5	NT
LB-10S	LB-690-W03	6/19/90	NT	262	13.0	NT
LB-10S	LB-990-W04	9/13/90	6.57	396	13.5	NT
LB-10S	LB-1290-W03	12/11/90	6.86	435	11.3	NT
LB-10S	LB-391-W22	3/21/91	7.32	422	12.1	NT
LB-10S	LB-691-W03	6/25/91	6.72	457	12.7	NT
LB-10S	LB-991-03	9/24/91	6.96	472	12.3	NT
LB-10S	LB-1291-03	12/19/91	6.97	467	11.4	NT
LB-10S	LB-392-06	3/20/92	6.96	313	14.0	NT
LB-10S	LB-62692-3	6/26/92	7.26	376	14.0	NT
LB-10S	LB-92192-1	9/21/92	6.84	259	13.0	NT
LB-10S	LB-12992-6	12/9/92	7.03	258	13.0	NT
LB-10S	LB-031293-17	3/12/93	6.71	262	12.0	NT
LB-10S	LB-060493-18	6/4/93	6.61	295	14.5	NT
LB-10S	LB-092393-5	9/23/93	7.60	186	14.0	2.60
LB-10S	LB-121693-8	12/16/93	6.75	264	13.0	3.10
LB-10S	LB-032894-14	3/28/94	6.93	190	16.0	5.30
LB-10S	LB-062494-17	6/24/94	7.15	170	16.0	8.70
LB-10S	LB-090894-17	9/8/94	7.03	189	16.0	NT
LB-10S	LB-121594-17	12/15/94	6.94	192	12.5	3.30

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-10S	LB-031095-15	3/10/95	7.04	231	13.0	9.70
LB-10S	LB-062195-15	6/21/95	6.92	215	13.5	5.60
LB-10S	LB-092295-17	9/22/95	7.15	169	13.4	NT
LB-10S	LB-121995-9	12/19/95	6.82	154	11.1	NT
LB-10S	LB-032096-12	3/20/96	6.25	152	11.6	NT
LB-10S	LB-061996-18	6/19/96	6.52	400	13.0	NT
LB-10S	LB-091796-1	9/17/96	6.62	463	13.9	NT
LB-10S	LB-121896-12	12/18/96	6.83	626	12.3	NT
LB-10S	LB-032097-21	3/20/97	6.68	609	12.4	NT
LB-10S	LB-061897-13	6/18/97	6.68	457	14.4	NT
LB-10S	LB-091897-15	9/18/97	7.09	650	12.0	NT
LB-10S	LB-121597-3	12/15/97	6.69	476	11.3	0.10
LB-10S	LB-032098-15	3/20/98	6.73	674	13.0	NT
LB-10S	LB-061598-3	6/15/98	6.66	438	13.6	NT
LB-10S	LB-091898-11	9/18/98	6.83	275	13.4	NT
LB-10S	LB-121798-7	12/17/98	6.91	395	13.3	NT
LB-10S	LB-031999-17	3/19/99	6.51	415	15.1	NT
LB-10S	LB-062299-4	6/22/99	6.94	346	14.0	NT
LB-10SR	LB-031005-21	3/10/05	6.86	319	13.4	2.64
LB-10SR	LB-091505-7	9/14/05	6.89	150	13.1	3.40
LB10-SR	LB-031406-6	3/14/06	6.79	160	12.6	9.40
LB10-SR	LB-091306-9	9/13/06	6.57	431	13.4	6.94
LB10-SR	LB-030607-19	3/6/07	5.97	119	13.1	10.60
LB10-SR	LB-091907-7	9/19/07	6.57	435	13.3	4.99
LB10-SR	LB-032408-21	3/24/08	6.40	291	12.3	NT
LB10-SR	LB-091608-4	9/16/08	6.54	278	14.1	NT
LB10-SR	LB-10SR	3/17/09	6.84	358	12.1	7.87
LB10-SR	LBLF10S091109	9/11/09	7.11	252	13.4	2.32
LB10-SR	LB-10S032310	3/23/10	6.87	286	12.9	NT
LB10-SR	LB10R092310	9/23/10	6.60	123	12.3	NT
LB-10SR	LB-10SR	3/29/11	6.01	360	12.5	2.05
LB-10SR (Dup)	DUP2	3/29/11	6.01	360	12.5	2.05
LB-10SR	LB-090811-08	9/8/11	6.52	410	14.8	0.80
LB-10SR	LB-031312-08	3/13/12	6.62	550	11.8	0.26
LB-10SR	LB-091212-09	9/12/12	6.78	480	14.5	0.59
LB-10SR	LB-020713-20	2/7/13	6.66	473	12.7	0.26
LB-10SR	LB-082213-09	8/22/13	6.70	319	14.0	0.26
LB-10SR	LB-021914-16	2/19/14	6.77	353	12.8	0.60
LB-10SR	LB-081414-08	8/14/14	6.52	401	14.4	0.48
LB-13D	LB-1089-W15	10/19/89	6.90	237	11.0	NT
LB-13D	LB-1189-W20	11/16/89	6.56	249	11.0	NT
LB-13D	LB-1289-W18	12/18/89	6.62	229	9.5	NT
LB-13D	LB-390-W18	3/15/90	6.79	232	12.0	NT
LB-13D	LB-690-W20	6/21/90	7.27	277	12.0	NT
LB-13D	LB-990-W17	9/18/90	6.64	236	13.0	NT
LB-13D	LB-1290-W20	12/13/90	6.64	234	10.7	NT
LB-13D	LB-391-W15	3/20/91	6.76	232	11.8	NT
LB-13D	LB-691-W22	6/27/91	6.91	235	13.1	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-13D	LB-991-13	9/25/91	7.15	240	12.0	NT
LB-13D	LB-1291-19	12/23/91	6.97	249	10.7	NT
LB-13D	LB-392-19	3/24/92	6.88	247	13.0	NT
LB-13D	LB-7292-2	7/2/92	7.40	250	13.0	NT
LB-13D	LB-91792-2	9/17/92	7.40	246	12.0	NT
LB-13D	LB-121092-9	12/9/92	6.82	251	12.0	NT
LB-13D	LB-031293-20	3/12/93	6.92	264	11.0	NT
LB-13D	LB-060493-21	6/4/93	6.99	231	13.5	NT
LB-13D	LB-092393-07	9/23/93	6.75	251	13.0	6.10
LB-13D	LB-121693-12	12/16/93	6.78	252	11.0	6.90
LB-13D	LB-032894-17	3/28/94	6.73	290	15.0	8.20
LB-13D	LB-062894-20	6/28/94	6.77	274	14.0	6.80
LB-13D	LB-090794-10	9/7/94	6.94	265	13.0	NT
LB-13D	LB-121594-21	12/15/94	6.68	304	11.0	6.90
LB-13D	LB-031395-18	3/13/95	6.80	296	12.5	7.10
LB-13D	LB-062195-19	6/21/95	6.73	353	12.0	7.10
LB-13D	LB-092295-16	9/22/95	6.99	256	12.6	NT
LB-13D	LB-121995-8	12/19/95	7.02	234	10.2	NT
LB-13D	LB-132096-15	3/20/96	6.58	271	13.2	NT
LB-13D	LB-061996-16	6/19/96	6.78	258	13.0	NT
LB-13D	LB-091796-4	9/17/96	6.81	257	13.9	NT
LB-13D	LB121796-9	12/17/96	7.25	300	11.0	NT
LB-13D	LB-032097-18	3/20/97	6.96	323	11.8	NT
LB-13D	LB-061897-15	6/18/97	6.88	291	12.9	NT
LB-13D	LB-091897-11	9/18/97	6.46	310	12.0	NT
LB-13D	LB-121797-9	12/17/97	6.60	301	11.8	11.00
LB-13D	LB-032098-19	3/20/98	7.11	296	12.9	NT
LB-13D	LB-061798-14	6/17/98	6.69	238	13.2	NT
LB-13D	LB-091898-15	9/18/98	7.42	218	12.9	NT
LB-13D	LB-121898-12	12/18/98	6.76	270	11.7	NT
LB-13D	LB-031999-23	3/19/99	6.78	222	14.2	NT
LB-13D	LB-062399-12	6/23/99	6.81	195	12.7	NT
LB-13D	LB-091799-13	9/17/99	6.69	256	12.6	NT
LB-13D	LB-121499-3	12/14/99	6.75	252	12.1	NT
LB-13D	LB-091300-11	9/13/00	6.95	225	13.0	NT
LB-13D	LB-121500-12	12/15/00	6.80	198	12.1	NT
LB-13D	LB-031501-19	3/15/01	6.67	229	12.2	NT
LB-13D	LB-032002-20	3/20/02	6.87	223	12.3	6.53
LB-13D	LB-031303-16	3/13/03	6.93	197	13.0	NT
LB-13D	LB-022404-3	2/24/04	6.73	150	54.4	NT
LB-13D	LB-031005-17	3/10/05	6.62	194	12.3	7.65
LB-13D	LB-031506-9	3/15/06	6.75	175	11.8	8.09
LB-13D	LB-030607-18	3/6/07	6.26	143	12.2	11.33
LB-13D	LB-032008-13	3/20/08	6.76	263	11.7	NT
LB-13D	LB-13D	3/17/09	6.71	271	11.6	7.86
LB-13D	LB-13D032410	3/24/10	6.78	227	12.0	NT
LB-13D	LB-13D	3/25/11	6.99	216	11.6	6.18

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-13D	LB-031212-01	3/12/12	6.27	235	11.5	5.32
LB-13D	LB-020713-22	2/7/13	6.46	228	11.7	5.88
LB-13D	LB-021814-08	2/18/14	6.70	220	11.6	5.84
LB-13I	LB-1089-W17	10/18/89	6.91	693	13.0	NT
LB-13I	LB-1189-W17	11/16/89	6.78	721	11.0	NT
LB-13I	LB-1289-W16	12/18/89	6.72	692	10.5	NT
LB-13I	LB-390-W19	3/15/90	6.61	676	12.5	NT
LB-13I	LB-690-W19	6/21/90	6.82	654	13.0	NT
LB-13I	LB-990-W16	9/18/90	6.83	706	13.0	NT
LB-13I	LB-1290-W21	12/13/90	6.82	744	11.5	NT
LB-13I	LB-391-W14	3/20/91	6.80	742	12.4	NT
LB-13I	LB-691-W21	6/27/91	6.74	619	13.2	NT
LB-13I	LB-991-12	9/25/91	7.05	757	11.8	NT
LB-13I	LB-1291-18	12/23/91	7.02	707	11.2	NT
LB-13I	LB-392-20	3/24/92	6.60	663	12.0	NT
LB-13I	LB-7292-1	7/2/92	6.88	679	13.0	NT
LB-13I	LB-91792-1	9/17/92	6.84	631	13.0	NT
LB-13I	LB-12992-8	12/9/92	6.92	671	12.0	NT
LB-13I	LB-031293-19	3/12/93	6.93	689	12.0	NT
LB-13I	LB-060493-20	6/4/93	6.80	640	15.0	NT
LB-13I	LB-092393-06	9/23/93	6.88	570	14.0	3.10
LB-13I	LB-121693-14	12/16/93	6.82	537	11.0	0.50
LB-13I	LB-032894-16	3/28/94	6.82	680	15.0	3.00
LB-13I	LB-062894-19	6/28/94	7.00	495	15.0	1.90
LB-13I	LB-090794-9	9/7/94	7.09	503	14.0	NT
LB-13I	LB-121994-20	12/15/94	6.84	543	12.5	4.40
LB-13I	LB-031395-17	3/13/95	6.93	486	13.5	4.50
LB-13I	LB-052195-18	6/21/95	6.80	509	12.5	3.50
LB-13I	LB-092295-15	9/22/95	6.87	408	14.5	NT
LB-13I	LB-121995-7	12/19/95	6.78	357	10.9	NT
LB-13I	LB-032096-14	3/20/96	6.84	504	13.2	NT
LB-13I	LB-061996-15	6/19/96	6.91	547	14.0	NT
LB-13I	LB-091796-3	9/17/96	6.63	501	14.0	NT
LB-13I	LB121796-10	12/17/96	7.24	630	12.2	NT
LB-13I	LB-032097-19	3/20/97	6.76	706	13.1	NT
LB-13I	LB-061897-14	6/18/97	6.87	540	13.8	NT
LB-13I	LB-091897-12	9/18/97	6.88	890	14.0	NT
LB-13I	LB-121797-8	12/17/97	6.88	624	12.4	NT
LB-13I	LB-032098-18	3/20/98	6.90	752	14.4	NT
LB-13I	LB-061798-15	6/17/98	6.88	447	14.7	NT
LB-13I	LB-091898-14	9/18/98	7.11	294	13.7	NT
LB-13I	LB-121898-11	12/18/98	6.82	425	12.6	NT
LB-13I	LB-031999-22	3/19/99	6.93	422	15.0	NT
LB-13I	LB-062399-13	6/23/99	7.05	348	14.3	NT
LB-13I	LB-091799-12	9/17/99	6.91	648	13.9	NT
LB-13I	LB-121499-4	12/14/99	7.03	657	13.3	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-13I	LB-091300-12	9/13/00	6.97	634	13.7	NT
LB-13I	LB-121500-11	12/15/00	6.89	496	13.0	NT
LB-13I	LB-031501-20	3/15/01	6.75	509	13.1	NT
LB-13I	LB-092001-8	9/20/01	6.71	360	13.4	NT
LB-13I	LB-032002-19	3/20/02	6.81	325	13.0	4.14
LB-13I	LB-091802-7	9/18/02	7.00	460	14.0	NT
LB-13I	LB-031303-15	3/13/03	6.80	306	12.0	NT
LB-13I	LB-092203-7	9/22/03	6.52	330	14.0	4.37
LB-13I	LB-022404-4	2/24/04	6.70	240	54.7	NT
LB-13I	LB-090104-13	9/1/04	6.60	315	14.0	NT
LB-13I	LB-031005-18	3/10/05	6.68	286	12.8	2.04
LB-13I	LB-091505-9	9/15/05	6.80	202	12.9	3.65
LB-13I	LB-031506-10	3/15/06	6.75	228	12.0	3.90
LB-13I	LB-091306-8	9/13/06	6.74	263	12.8	3.80
LB-13I	LB-030607-17	3/6/07	6.42	203	12.5	9.15
LB-13I	LB-091907-8	9/19/07	6.70	352	12.5	6.65
LB-13I	LB-032008-12	3/20/08	7.15	329	11.4	NT
LB-13I	LB-091608/5	9/16/08	6.91	290	14.6	NT
LB-13I	LB-13I	3/17/09	6.88	285	11.7	5.64
LB-13I	LBLF13i091109	9/11/09	7.70	301	12.8	4.76
LB-13I	LB-13I032410	3/24/10	7.09	297	12.2	NT
LB-13I	LB-13I092310	9/23/10	7.10	204	11.6	NT
LB-13I	LB-13I	3/23/11	7.91	276	12.1	2.96
LB-13I	LB-090711-02	9/7/11	6.85	252	13.9	1.38
LB-13I	LB-032212-19	3/22/12	6.58	255	11.7	2.40
LB-13I (Dup)	LB-032212-20	3/22/12	6.58	255	11.7	2.40
LB-13I	LB-091112-03	9/11/12	6.47	266	14.1	2.40
LB-13I	LB-020613-13	2/6/13	6.74	290	11.7	1.75
LB-13I	LB-082113-05	8/21/13	6.01	280	14.5	2.31
LB-13I	LB-021814-10	2/18/14	6.61	305	11.6	0.81
LB-13I	LB-081314-04	8/13/14	6.63	281	13.4	1.82
LB-17D	LB-1089-W10	10/18/89	6.95	830	13.0	NT
LB-17D	LB-1189-W12	11/15/89	6.82	890	13.0	NT
LB-17D	LB-1289-W28	12/20/89	6.76	930	13.0	NT
LB-17D	LB-390-W21	3/15/90	6.83	905	13.5	NT
LB-17D	LB-690-W18	6/21/90	6.91	882	15.5	NT
LB-17D	LB-990-W19	9/19/90	6.92	864	14.5	NT
LB-17D	LB-1290-W23	12/13/90	6.82	867	13.5	NT
LB-17D	LB-391-W19	3/21/91	6.74	829	14.2	NT
LB-17D	LB-691-W14	6/26/91	6.85	744	15.4	NT
LB-17D	LB-991-10	9/25/91	6.95	818	14.3	NT
LB-17D	LB-1291-16	12/23/91	7.09	1030	13.1	NT
LB-17D	LB-392-11	3/23/92	6.86	906	16.0	NT
LB-17D	LB-63092-5	6/30/92	6.72	919	16.5	NT
LB-17D	LB-031093-6	3/10/93	6.92	715	15.0	NT
LB-17D	LB-060493-22	6/4/93	6.65	637	15.5	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-17D	LB-092793-21	9/27/93	6.92	723	16.0	3.20
LB-17D	LB-121593-7	12/15/93	6.71	768	14.0	1.30
LB-17D	LB-032994-20	3/29/94	7.13	780	17.5	2.00
LB-17D	LB-052394-14	6/23/94	7.09	669	16.0	5.20
LB-17D	LB-090794-7	9/7/94	7.06	657	17.0	NT
LB-17D	LB-121494-10	12/14/94	6.98	657	13.0	NT
LB-17D	LB-030995-5	3/9/95	7.01	593	14.0	1.00
LB-17D	LB-062095-11	6/20/95	6.90	681	14.5	6.00
LB-17D	LB-092195-10	9/21/95	6.50	732	16.3	NT
LB-17D	LB-121895-3	12/18/95	7.21	542	12.0	NT
LB-17D	LB-031996-10	3/19/96	5.84	586	14.1	NT
LB-17D	LB-061996-14	6/19/96	6.98	587	12.0	NT
LB-17D	LB-032097-16	3/20/97	7.08	571	15.1	NT
LB-17D	LB-031998-14	3/19/98	6.97	573	15.5	NT
LB-17D	LB-031899-13	3/18/99	6.98	352	16.6	NT
LB-17D	LB-031401-9	3/14/01	6.98	333	15.1	NT
LB-17D	LB-031902-7	3/19/02	7.17	335	15.0	2.22
LB-17D	LB-031203-7	3/12/03	7.33	337	14.7	3.60
LB-17D	LB-022504-10	2/25/04	6.97	257	57.6	NT
LB-17D	LB-030905-10	3/9/05	7.06	313	15.4	0.74
LB-17D	LB-031506-7	3/15/06	7.06	301	13.7	3.45
LB-17D	LB-030607-14	3/6/07	6.39	258	15.1	9.31
LB-17D	LB-032008-11	3/20/08	7.07	353	12.9	NT
LB-17D	LB-17D	3/18/09	7.14	295	14.2	3.53
LB-17D	LB-17D032410	3/24/10	7.00	299	15.2	NT
LB-17D	LB-17D	3/22/11	7.45	278	13.8	2.42
LB-17D	LB-031212-04	3/12/12	6.68	388	13.1	0.20
LB-17D	LB-020513-05	2/5/13	6.73	344	13.5	0.14
LB-17D	LB-021714-03	2/17/14	6.48	330	13.3	0.40
LB-17I	LB-1089-W14	10/19/89	6.83	1231	14.0	NT
LB-17I	LB-1189-W14	11/15/89	6.65	1192	14.0	NT
LB-17I	LB-1289-W29	12/20/89	6.57	1167	13.5	NT
LB-17I	LB-390-W20	3/15/90	6.59	807	13.0	NT
LB-17I	LB-690-W17	6/21/90	6.48	1202	16.0	NT
LB-17I	LB-990-W18	9/19/90	6.47	1200	15.0	NT
LB-17I	LB-1290-W22	12/13/90	6.62	1125	13.4	NT
LB-17I	LB-391-W20	3/21/91	6.40	1069	14.2	NT
LB-17I	LB-392-13	3/23/92	6.71	1036	16.0	NT
LB-17I	LB-63092-6	6/30/92	6.57	1337	16.0	NT
LB-17I	LB-91892-3	9/18/92	6.72	1300	14.0	NT
LB-17I	LB-121192-18	12/11/92	6.85	992	15.0	NT
LB-17I	LB-031093-5	3/10/93	6.79	930	15.0	NT
LB-17I	LB-032994-21	3/29/94	6.85	960	18.0	2.80
LB-17I	LB-030995-6	3/9/95	6.93	695	14.0	2.60
LB-17I	LB-031996-11	3/19/96	6.87	782	13.2	NT
LB-17I	LB-032097-17	3/20/97	6.99	674	15.9	NT
LB-17I	LB-031998-13	3/19/98	6.87	567	17.2	NT

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-17I	LB-031899-12	3/18/99	6.86	410	17.5	NT
LB-17I	LB-031401-10	3/14/01	6.80	359	16.4	NT
LB-17I	LB-031902-6	3/19/02	7.03	478	15.9	2.23
LB-17I	LB-031203-6	3/12/03	6.93	510	16.0	1.00
LB-17I	LB-022504-11	2/25/04	6.90	362	59.9	NT
LB-17I	LB-030905-11	3/9/05	7.08	507	15.8	1.68
LB-17I	LB-031506-8	3/15/06	6.80	538	14.5	2.03
LB-17I	LB-030607-13	3/6/07	6.36	458	15.4	12.80
LB-17I	LB-032008-10	3/20/08	7.04	483	13.0	NT
LB-17I	LB-17I	3/18/09	6.95	343	14.8	3.85
LB-17I	LB-171032410	3/24/10	7.13	476	4.1	NT
LB-17I (Dup)	LB-DUP1032410	3/24/10	7.13	476	4.1	NT
LB-17I	LB-17I	3/22/11	7.74	528	14.0	2.35
LB-17I	LB-031312-16	3/13/12	6.85	414	12.9	0.15
LB-17I	LB-020513-06	2/5/13	6.89	362	14.1	0.10
LB-17I	LB-021714-04	2/17/14	6.77	376	13.8	0.40
LB-20S	LB-1289-W36	12/21/89	6.69	817	11.5	NT
LB-20S	LB-390-W12	3/14/90	6.32	1255	13.0	NT
LB-20S	LB-690-W08	6/19/90	NT	1312	13.5	NT
LB-20S	LB-990-W09	9/14/90	6.68	881	14.0	NT
LB-20S	LB-1290-W10	12/12/90	6.62	1164	13.2	NT
LB-20S	LB-391-W08	3/20/91	6.62	716	13.1	NT
LB-20S	LB-691-W11	6/26/91	6.44	869	13.8	NT
LB-20S	LB-991-19	9/26/91	6.68	942	13.2	NT
LB-20S	LB-1291-05	12/19/91	6.08	1130	12.7	NT
LB-20S	LB-392-18	3/24/92	6.62	770	15.0	NT
LB-20S	LB-031593-26	3/15/93	6.75	686	14.0	NT
LB-20S	LB-032994-23	3/29/94	6.77	890	17.0	4.90
LB-20S	LB-031395-19	3/13/95	6.86	1020	16.0	8.30
LB-20S	LB-032096-20	3/20/96	6.91	796	15.0	NT
LB-20S	LB-032097-15	3/20/97	6.94	798	13.7	NT
LB-20S	LB-032098-23	3/20/98	6.93	542	14.6	NT
LB-20S	LB-031899-16	3/18/99	6.89	287	15.4	NT
LB-20S	LB-031401-13	3/14/01	6.65	424	13.6	NT
LB-20S	LB-032002-14	3/20/02	6.63	481	12.8	2.21
LB-20S	LB-031203-20	3/12/03	6.47	377	13.0	NT
LB-20S	LB-022604-19	2/26/04	6.87	281	53.7	NT
LB-20S	LB-030905-12	3/9/05	6.85	517	12.6	12.06
LB-20S	LB-031406-4	3/14/06	6.41	246	12.5	3.94
LB-20S	LB-030607-16	3/6/07	6.17	300	13.0	9.53
LB-20S	LB-032408-16	3/24/08	6.83	504	12.1	NT
LB-20S	LB-20S	3/18/09	7.02	457	13.3	4.93
LB-20S	LB-20S032410	3/24/10	6.83	405	12.9	NT
LB-20S	LB-20S	3/24/11	6.81	586	12.1	2.09
LB-20S	LB-031312-15	3/13/12	6.78	385	11.6	0.17
LB-20S	LB-020513-10	2/5/13	6.76	574	12.2	0.15
LB-20S	LB-021914-20	2/19/14	6.80	400	12.0	0.51

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-26D	LB-0892-2	8/27/92	6.51	364	13.5	NT
LB-26D	LB-92192-7	9/21/92	6.60	370	13.0	NT
LB-26D	LB-121092-13	12/10/92	6.72	326	11.5	NT
LB-26D	LB-031193-14	3/11/93	7.16	302	11.5	NT
LB-26D	LB-060193-3	6/1/93	6.36	280	13.0	NT
LB-26D	LB-092493-12	9/24/93	6.55	295	13.5	6.60
LB-26D	LB-121693-16	12/16/93	6.76	295	13.0	6.50
LB-26D	LB-032494-7	3/24/94	6.70	307	14.0	6.90
LB-26D	LB-062294-6	6/22/94	6.66	325	15.0	6.50
LB-26D	LB-090894-15	9/8/94	6.70	309	14.0	NT
LB-26D	LB-121394-5	12/13/94	6.59	343	13.0	5.90
LB-26D	LB-031095-14	3/10/95	6.66	302	13.0	8.00
LB-26D	LB-061995-2	6/19/95	6.72	343	13.0	4.30
LB-26D	LB-092095-4	9/20/95	6.68	324	15.0	NT
LB-26D	LB-122095-15	12/20/95	6.76	291	10.2	NT
LB-26D	LB-031996-2	3/19/96	6.06	330	12.5	NT
LB-26D	LB-061896-2	6/18/96	6.60	335	12.0	NT
LB-26D	LB-091896-11	9/18/96	6.71	320	12.1	NT
LB-26D	LB-121796-4	12/17/96	7.09	352	11.5	NT
LB-26D	LB-031997-6	3/19/97	6.67	366	11.8	NT
LB-26D	LB-061797-8	6/17/97	6.58	329	12.7	NT
LB-26D	LB-091697-4	9/16/97	6.84	285	11.7	NT
LB-26D	LB-121697-6	12/16/97	6.61	350	12.0	5.00
LB-26D	LB-031998-9	3/19/98	6.93	355	13.2	NT
LB-26D	LB-061698-9	6/16/98	6.62	281	12.9	NT
LB-26D	LB-091798-6	9/17/98	6.81	230	13.0	NT
LB-26D	LB-121798-3	12/17/98	6.98	279	11.9	NT
LB-26D	LB-031899-6	3/18/99	6.60	287	14.5	NT
LB-26D	LB-062399-9	6/23/99	6.79	214	13.0	NT
LB-26D	LB-091699-3	9/16/99	6.54	290	12.2	NT
LB-26D	LB-121599-9	12/15/99	6.90	285	12.0	NT
LB-26D	LB-091200-4	9/12/00	6.69	252	12.3	NT
LB-26D	LB-121500-7	12/15/00	6.72	222	11.7	NT
LB-26D	LB-031301-5	3/13/01	6.72	247	11.9	NT
LB-26D	LB-031902-8	3/19/02	6.87	226	11.9	5.92
LB-26D	LB-031203-5	3/12/03	7.43	210	12.0	NT
LB-26D	LB-022504-12	2/25/04	6.56	149	52.4	NT
LB-26D	LB-030805-7	3/8/05	6.62	199	12.3	7.22
LB-26D	LB-031606-19	3/16/06	6.81	183	11.4	8.60
LB-26D	LB-030507-11	3/5/07	6.38	156	12.1	8.93
LB-26D	LB-031908-8	3/19/08	6.79	319	12.5	NT
LB-26D	LB-26D	3/17/09	6.83	230	11.5	8.02
LB-26D	LB-26D032410	3/24/10	6.86	237	11.7	NT
LB-26D	LB-26D	3/23/11	7.60	230	12.3	6.13
LB-26D	LB-031212-05	3/12/12	6.39	234	11.6	4.92
LB-26D	LB-020713-23	2/7/13	6.45	236	11.8	4.43
LB-26D	LB-021714-05	2/17/14	6.43	226	11.9	2.09

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-26I	LB-0892-1	8/27/92	6.64	571	14.0	NT
LB-26I	LB-92192-6	9/21/92	6.88	576	13.0	NT
LB-26I	LB-121092-12	12/10/92	6.89	616	12.0	NT
LB-26I	LB-031193-13	3/11/93	6.89	626	13.0	NT
LB-26I	LB-060193-1	6/1/93	6.78	544	13.5	NT
LB-26I	LB-092493-11	9/24/93	6.76	525	14.0	4.20
LB-26I	LB-121693-15	12/16/93	6.96	547	13.0	1.90
LB-26I	LB-032494-6	3/24/94	6.90	508	14.0	2.90
LB-26I	LB-062294-5	6/22/94	6.89	550	16.0	1.90
LB-26I	LB-09894-16	9/8/94	6.96	492	15.0	NT
LB-26I	LB-121394-4	12/13/94	6.78	536	13.5	4.40
LB-26I	LB-031095-12	3/10/95	6.98	499	13.0	0.80
LB-26I	LB-061995-1	6/19/95	6.81	503	13.5	3.20
LB-26I	LB-092095-5	9/20/95	6.91	437	15.0	NT
LB-26I	LB-122095-14	12/20/95	7.05	395	10.4	NT
LB-26I	LB-031996-1	3/19/96	6.25	428	12.0	NT
LB-26I	LB-061896-1	6/18/96	6.93	412	12.0	NT
LB-26I	LB-091896-10	9/18/96	6.96	426	12.6	NT
LB-26I	LB121796-5	12/17/96	7.18	437	12.1	NT
LB-26I	LB-031997-5	3/19/97	6.75	468	12.2	NT
LB-26I	LB-061797-7	6/17/97	6.75	415	14.0	NT
LB-26I	LB-091697-5	9/16/97	6.82	359	12.0	NT
LB-26I	LB-121697-7	12/16/97	6.86	607	12.9	0.80
LB-26I	LB-031998-8	3/19/98	6.81	590	13.3	NT
LB-26I	LB-061698-8	6/16/98	6.88	391	13.1	NT
LB-26I	LB-091798-7	9/17/98	6.67	287	13.4	NT
LB-26I	LB-121798-2	12/17/98	7.13	369	12.6	NT
LB-26I	LB-031799-1	3/17/99	7.29	328	14.8	NT
LB-26I	LB-062399-10	6/23/99	6.96	281	13.6	NT
LB-26I	LB-091699-4	9/16/99	6.78	541	13.0	NT
LB-26I	LB-121599-8	12/15/99	7.01	510	12.6	NT
LB-26I	LB-091200-5	9/12/00	6.93	448	13.1	NT
LB-26I	LB-121500-8	12/15/00	7.01	385	12.5	NT
LB-26I	LB-031301-6	3/13/01	6.94	407	12.5	NT
LB-26I	LB-092001-3	9/20/01	6.87	384	13.6	NT
LB-26I (Dup)	LB-092001-4	9/20/01	6.87	384	13.6	NT
LB-26I	LB-031902-9	3/19/02	6.96	353	12.4	4.11
LB-26I	LB-091802-4	9/18/02	7.10	350	13.0	NT
LB-26I	LB-031203-4	3/12/03	6.68	293	13.0	NT
LB-26I	LB-092203-4	9/22/03	7.30	250	15.0	5.37
LB-26I	LB-022504-13	2/25/04	6.80	200	53.5	NT
LB-26I	LB-090104-26	9/1/04	6.77	288	13.5	NT
LB-26I	LB-030805-8	3/8/05	6.80	306	12.7	3.23
LB-26I	LB-091405-5	9/14/05	6.76	239	13.7	3.69
LB-26I	LB-031606-20	3/16/06	6.90	267	11.7	7.18
LB-26I	LB-091206-3	9/12/06	7.00	297	13.3	3.02

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-26I	LB-030507-10	3/5/07	6.37	223	12.6	5.78
LB-26I	LB-091907-5	9/19/07	6.94	315	12.3	4.67
LB-26I	LB-031908-7	3/19/08	7.00	385	13.2	NT
LB-26I	LB-091608-6	9/16/08	6.40	220	17.8	NT
LB-26I	LB-26I	3/17/09	6.92	328	11.6	7.05
LB-26I	LBLF26I091109	9/11/09	7.39	234	12.9	7.06
LB-26I	LB-23I032410	3/24/10	7.07	331	12.0	NT
LB-26I	LB26I092310	9/23/10	7.10	229	11.6	NT
LB-26I	LB-26I	3/23/11	7.75	300	12.1	4.41
LB-26I	LB-090711-03	9/7/11	6.77	230	15.1	4.41
LB-26I	LB-032212-21	3/22/12	6.57	274	11.5	4.96
LB-26I	LB-091112-04	9/11/12	6.31	253	13.1	5.07
LB-26I	LB-020613-14	2/6/13	6.61	250	11.8	4.65
LB-26I	LB-082113-06	8/21/13	6.00	244	13.7	4.25
LB-26I	LB-021714-06	2/17/14	6.30	255	11.7	2.88
LB-26I (Dup)	LB-021714-07	2/17/14	6.30	255	11.7	2.88
LB-26I	LB-081314-05	8/13/14	6.50	234	13.9	4.92
LB-27D	LB-0892-4	8/27/92	6.85	289	14.0	NT
LB-27D	LB-92292-5	9/22/92	7.34	258	13.0	NT
LB-27D	LB-121192-21	12/11/92	7.12	321	13.0	NT
LB-27D	LB-031193-16	3/11/93	6.50	311	11.5	NT
LB-27D	LB-060193-4	6/1/93	7.28	305	13.5	NT
LB-27D	LB-092493-16	9/24/93	7.24	273	14.0	4.60
LB-27D	LB-121693-17	12/16/93	7.24	315	13.0	5.00
LB-27D	LB-032494-4	3/24/94	7.25	306	13.0	5.10
LB-27D	LB-062294-9	6/22/94	7.19	321	15.5	5.30
LB-27D	LB-090894-12	9/8/94	7.09	319	13.5	NT
LB-27D	LB-121394-2	12/12/94	7.48	337	11.5	6.60
LB-27D	LB-031095-8	3/10/95	7.18	339	13.5	7.60
LB-27D	LB-051995.4	6/19/95	7.20	343	14.0	5.60
LB-27D	LB-092095-1	9/20/95	7.16	301	16.0	NT
LB-27D	LB-122095-17	12/20/95	7.05	270	11.2	NT
LB-27D	LB-031996-3	3/19/96	7.26	295	13.0	NT
LB-27D	LB-061896-4	6/18/96	7.16	280	14.0	NT
LB-27D	LB-091796-9	9/17/96	7.02	290	14.2	NT
LB-27D	LB121796-8	12/17/96	7.61	290	13.1	NT
LB-27D	LB-031997-12	3/19/97	7.01	302	12.3	NT
LB-27D	LB-061797-11	6/17/97	7.00	260	15.3	NT
LB-27D	LB-091697-8	9/16/97	7.24	258	12.5	NT
LB-27D	LB-121797-13	12/17/97	6.97	300	12.0	4.20
LB-27D	LB-031998-12	3/19/98	6.97	292	13.6	NT
LB-27D	LB-061798-10	6/17/98	6.92	254	13.0	NT
LB-27D	LB-091798-8	9/17/98	7.07	224	14.9	NT
LB-27D	LB-121798-6	12/17/98	7.19	276	12.8	NT
LB-27D	LB-031899-9	3/18/99	7.04	238	14.5	NT
LB-27D	LB-062399-7	6/23/99	6.99	199	13.7	NT

Table B-1
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Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-27D	LB-091599-1	9/15/99	6.85	270	12.9	NT
LB-27D	LB-121599-7	12/15/99	7.13	282	12.6	NT
LB-27D	LB-091300-8	9/13/00	6.95	268	13.2	NT
LB-27D	LB-091300-9	9/13/00	6.95	268	13.2	NT
LB-27D	LB-121500-5	12/15/00	7.03	254	12.5	NT
LB-27D	LB-031301-3	3/13/01	6.97	288	12.9	NT
LB-27D	LB-031902-11	3/19/02	6.99	308	12.9	5.02
LB-27D	LB-031203-3	3/12/03	6.96	293	13.0	NT
LB-27D	LB-022604-15	2/26/04	6.88	237	54.7	NT
LB-27D (Dup)	LB-022604-16	2/26/04	6.88	237	54.7	NT
LB-27D	LB-030805	3/8/05	6.82	322	13.0	4.20
LB-27D	LB-031606-17	3/16/06	6.90	298	12.4	6.81
LB-27D	LB-030507-9	3/5/07	6.20	270	13.5	9.54
LB-27D	LB-031908-5	3/19/08	7.00	0.489	12.4	NT
LB-27D	LB-27D	3/18/09	6.98	315	13.3	7.65
LB-27D	LB-27D032410	3/24/10	7.01	331	13.0	NT
LB-27D	LB-27D	3/25/11	7.43	317	11.3	4.47
LB-27D	LB-031212-02	3/12/12	6.60	338	12.1	3.32
LB-27D	LB-020713-21	2/7/13	6.77	330	11.0	3.64
LB-27D	LB-021814-13	2/18/14	6.66	313	11.3	3.32
LB-27I	LB-0892-3	8/27/92	6.60	811	14.0	NT
LB-27I	LB-92292-4	9/22/92	7.36	836	14.0	NT
LB-27I	LB-121192-20	12/11/92	6.62	783	13.5	NT
LB-27I	LB-031293-21	3/12/93	7.24	756	13.0	NT
LB-27I	LB-060193-2	6/1/93	6.77	664	14.0	NT
LB-27I	LB-092493-14	9/24/93	6.97	769	14.0	7.20
LB-27I	LB-121693-14	12/16/93	6.81	707	13.0	2.30
LB-27I	LB-032494-3	3/24/94	6.67	718	15.5	6.00
LB-27I	LB-062294-8	6/22/94	6.73	649	17.0	2.40
LB-27I	LB-090894-11	9/8/94	6.84	568	14.0	NT
LB-27I	LB-121394-1	12/13/94	8.12	671	12.0	11.00
LB-27I	LB-031095-7	3/10/95	6.77	661	13.5	4.20
LB-27I	LB-061995-3	6/19/95	6.83	673	14.0	3.20
LB-27I	LB-092095-3	9/20/95	6.85	585	14.5	NT
LB-27I	LB-122095-16	12/20/95	6.89	482	11.6	NT
LB-27I	LB-031996-4	3/19/96	7.05	640	14.7	NT
LB-27I	LB-061896-3	6/18/96	6.94	609	14.0	NT
LB-27I	LB-091796-7	9/17/96	6.99	752	14.3	NT
LB-27I	LB121796-6	12/17/96	7.31	947	12.9	NT
LB-27I	LB-031997-10	3/19/97	6.87	771	12.8	NT
LB-27I	LB-061797-9	6/17/97	6.98	548	14.1	NT
LB-27I	LB-091697-6	9/16/97	6.93	544	12.6	NT
LB-27I	LB-121797-11	12/17/97	6.86	750	12.8	0.80
LB-27I	LB-031998-10	3/19/98	6.80	917	15.7	NT
LB-27I	LB-061798-11	6/17/98	6.85	494	14.1	NT
LB-27I	LB-091798-9	9/17/98	6.82	327	15.6	NT
LB-27I	LB-121798-4	12/17/98	6.96	446	13.8	NT

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1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)
LB-27I	LB-031899-7	3/18/99	6.83	476	15.5	NT
LB-27I	LB-062399-8	6/23/99	7.00	396	14.5	NT
LB-27I	LB-091599-2	9/15/99	6.76	914	14.3	NT
LB-27I	LB-121599-6	12/15/99	7.02	940	12.8	NT
LB-27I	LB-091300-10	9/13/00	6.86	741	14.4	NT
LB-27I	LB-121500-6	12/15/00	6.85	778	13.3	NT
LB-27I	LB-031301-4	3/13/01	6.81	665	13.8	NT
LB-27I	LB-092001-2	9/20/01	6.68	612	14.1	NT
LB-27I	LB-031902-10	3/19/02	6.82	685	13.5	2.62
LB-27I	LB-091802-5	9/18/02	7.30	590	15.0	NT
LB-27I	LB-031203-1	3/12/03	6.88	563	14.0	NT
LB-27I (Dup)	LB-031203-2	3/12/03	6.88	563	14.0	NT
LB-27I	LB-092203-2	9/22/03	6.10	540	14.5	2.40
LB-27I (Dup)	LB-092203-3	9/22/03	6.10	540	14.5	2.40
LB-27I	LB-022604-17	2/26/04	6.82	382	55.7	NT
LB-27I	LB-090104-27	9/1/04	6.76	554	14.2	NT
LB-27I	LB-030805-5	3/8/05	6.85	525	13.7	2.81
LB-27I	LB-091405-3	9/14/05	6.91	353	14.0	2.80
LB-27I	LB-031606-18	3/16/06	6.98	376	12.6	6.90
LB-27I	LB-091206-2	9/12/06	6.78	564	13.8	1.50
LB-27I	LB-030507-8	3/5/07	6.05	445	13.7	3.88
LB-27I	LB-091907-4	9/19/07	6.78	486	13.2	2.30
LB-27I	LB-031908-4	3/19/08	6.91	0.786	12.9	NT
LB-27I (Dup)	LB-031908-6	3/19/08	6.91	0.786	12.9	NT
LB-27I	LB-091608-7	9/16/08	7.00	531	14.3	NT
LB-27I	LB-27I	3/18/09	6.94	557	13.4	4.44
LB-27I	LBLF27i091109	9/11/09	7.01	538	14.5	3.07
LB-27I	LB-27I032410	3/24/10	6.97	419	12.7	NT
LB-27I	LB27I092310	9/23/10	7.00	401	12.3	NT
LB-27I	LB-27I	3/25/11	7.39	523	11.6	3.20
LB-27I	LB-090711-01	9/7/11	6.46	707	14.2	1.11
LB-27I	LB-032212-18	3/22/12	6.82	643	11.7	0.32
LB-27I	LB-091112-02	9/11/12	6.72	706	14.0	1.02
LB-27I	LB-020613-11	2/6/13	6.81	670	12.1	0.29
LB-27I (Dup)	LB-020613-12	2/6/13	6.81	670	12.1	0.29
LB-27I	LB-082113-03	8/21/13	6.00	720	14.5	0.38
LB-27I (Dup)	LB-082113-04	8/21/13	6.00	720	14.5	0.38
LB-27I	LB-021814-14	2/18/14	6.85	574	11.9	0.81
LB-27I	LB-081314-03	8/13/14	6.79	576	13.6	0.66
FIELDQC	LB-021814-09	2/18/14	N/A	N/A	N/A	N/A
FIELDQC	LB-081314-02	8/13/14	N/A	N/A	N/A	N/A
Notes: NT = not tested; N/A = Not Applicable						

Volatile Organic Compounds

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-1D	LB-01D	6/2/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-1D	LB-01D	7/21/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-1D	LB-01D	9/4/87	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1D	LB-01D	11/6/87	0.6	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1D	LB-01D	6/22/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1D	LB-01D	8/30/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.0 L	1.0 L	1.0 L
LB-1D	LB-01D	9/1/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.0 L	1.0 L	1.0 L
LB-1D	LB-01D	12/5/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1D	LB-289-W04	2/28/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-589-W03	5/23/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-989-W16	9/12/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-1089-W01	10/17/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-1189-W04	11/14/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-1289-W22	12/19/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-390-W09	3/14/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-690-W11	6/20/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-990-W08	9/14/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-1290-W06	12/11/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-391-W11	3/21/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-691-W06	6/26/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-991-06	9/24/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-1291-14	12/23/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-392-14	3/23/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1D	LB-63092-2	6/30/92	0.2 L	0.2 L	0.2 L	0.2 L	1.0 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-92292-3	9/22/92	0.2 L	0.2 L	0.2 L	0.2 L	1.0 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-121192-16	12/11/92	0.2 L	0.2 L	0.2 L	0.2 L	1.0 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-031093-4	3/10/93	0.2 L	0.2 L	0.2 L	0.2 L	1.0 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-060293-6	6/2/93	0.2 L	0.2 L	0.2 L	0.2 L	1.0 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-092393-8	9/23/93	0.2 L	0.2 L	0.2 L	0.2 L	1.0 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-092393-8	9/23/93	0.2 L	0.2 L	0.2 L	0.2 L	NT	0.3 L	0.2 L	NT
LB-1D	LB-121593-2	12/15/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-032494-2	3/24/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-1D	LB-062194-1	6/21/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-1D	LB-090694-2	9/6/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-1D	LB-121494-12	12/14/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-1D	LB-030995-2	3/9/95	0.3 L	0.2	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-1D	LB-062095-13	6/20/95	0.3 L	0.2 L	0.1 L	0.1 L	0.3 B	0.1 L	0.1 L	0.1 L
LB-1D	LB-092295-14	9/22/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-1D	LB-121995-6	12/19/95	0.2	0.2 L	0.1 L	0.1 L	0.2	0.1 L	0.1 L	0.1 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-1D	LB-032096-18	3/20/96	0.3 L	0.2 L	0.1 L	0.1 L	0.2	0.1 L	0.1 L	0.1 L
LB-1D	LB-061896-10	6/18/96	0.2	0.1 L	0.0 L	0.1 L	0.2	0.1 L	0.2 L	0.1 L
LB-1D	LB-091796-6	9/17/96	0.1 L	0.1 L	0.0 L	0.1 L	0.2	0.1 L	0.2 L	0.1 L
LB-1D	LB121796-2	12/17/96	0.2	0.1 L	0.0 L	0.1 L	0.2	0.1 L	0.2 L	0.1 L
LB-1D	LB-031997-4	3/19/97	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1D	LB-061797-4	6/17/97	0.2	0.1	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.5 L
LB-1D	LB-091697-1	9/16/97	0.2	0.5 L	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.5 L
LB-1D	LB-121697-4	12/16/97	0.1	0.5 L	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.5 L
LB-1D	LB-031998-4	3/19/98	0.2	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1D	LB-061698-6	6/16/98	0.1	0.1 L	0.0 L	0.1 L	0.4	0.1 L	0.2 L	0.1 L
LB-1D	LB-091798-3	9/17/98	0.2 L	0.3 L	0.2 B	0.2 L	0.5	0.2 L	0.3 L	0.2 L
LB-1D	LB-121898-10	12/18/98	0.2 L	0.3 L	0.2 L	0.2 L	0.4	0.2 L	0.3 L	0.2 L
LB-1D	LB-031799-4	3/17/99	0.2 L	0.3 L	0.2 L	0.2 L	0.5	0.2 L	0.3 L	0.2 L
LB-1D	LB-062399-15	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.6	0.2 L	0.3 L	0.2 L
LB-1D	LB-091799-11	9/17/99	0.2 L	0.3 L	0.3 J	NT	0.5	0.2 L	NT	NT
LB-1D	LB-121699-12	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-1D	LB-031700-16	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.6	0.5 L	0.5 L	0.5 L
LB-1D	LB-061300-8	6/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.8	0.5 L	0.5 L	0.5 L
LB-1D	LB-091100-2	9/11/00	0.5 L	0.5 L	0.5 L	0.5 L	0.7	0.5 L	0.5 L	0.5 L
LB-1D	LB-121500-10	12/15/00	0.2 J	0.5 L	0.5 L	0.5 L	0.6	0.5 L	0.5 L	0.5 L
LB-1D	LB-031501-15	3/15/01	0.5 L	0.5 L	0.5 L	0.5 L	0.7	0.5 L	0.5 L	0.5 L
LB-1D	LB-031501-16	3/15/01	0.5 L	0.5 L	0.5 L	0.5 L	0.7	0.5 L	0.5 L	0.5 L
LB-1D	LB-031902-2	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.7	0.5 L	0.5 L	0.5 L
LB-1D	LB-031303-12	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.7	0.5 L	0.5 L	0.5 L
LB-1D	LB-022404-1	2/24/04	0.5 L	0.5 L	0.5 L	0.5 L	0.6	0.5 L	0.5 L	0.5 L
LB-1D	LB030905-13	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.6	0.5 L	0.5 L	0.5 L
LB-1D	LB-031406-1	3/14/06	0.5 L	0.5 L	0.5 L	0.5 L	0.6	0.5 L	0.5 L	0.5 L
LB-1D (Dup)	LB-031406-2	3/14/06	0.5 L	0.5 L	0.5 L	0.5 L	0.6	0.5 L	0.5 L	0.5 L
LB-1D	LB-030507-2	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1D	LB-032408-15	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1D	LB-1D	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1D	LB-1D032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1D	LB-1D	3/24/11	0.1 L	0.1 L	0.2 L	0.1 L	0.28	0.25 L	0.1 L	0.1 L
LB-1D	LB-031312-13	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-1D	LB-020513-07	2/5/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-1D	LB-021914-17	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-1S	LB-01S	5/11/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-1S	LB-01S	7/21/87	2.0 L	2.0 L	NT	1.0 L	2.0 L	5.0 L	NT	2.0 L
LB-1S	LB-01S	9/4/87	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1S	LB-01S	11/6/87	0.9	1.1	1.0 L	1.8	1.0 L	1.0 L	NT	1.0 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-1S	LB-01S	2/11/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1S	LB-01S	6/22/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1S	LB-01S	8/30/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.0 L	5.0	1.0 L
LB-1S	LB-01S	12/5/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-1S	LB-289-W05	2/28/89	1.0 L	1.0 L	1.0 L	1.0	1.0 L	1.0 L	4.5	1.0 L
LB-1S	LB-589-W04	5/23/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	8.3	1.0 L
LB-1S	LB-989-W15	9/12/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	8.0	1.0 L
LB-1S	LB-1289-W12	12/15/89	1.0 L	1.0 L	1.0 L	1.0	1.0 L	1.0 L	8.5	1.0 L
LB-1S	LB-390-W10	3/14/90	1.0 L	1.0 L	1.0 L	1.1	1.0 L	1.0 L	9.1	1.0 L
LB-1S	LB-690-W10	6/20/90	1.0 L	1.0 L	1.0 L	1.3	1.0 L	1.0 L	5.5	1.0 L
LB-1S	LB-990-W06	9/14/90	1.0 L	1.0 L	1.0 L	1.5	1.0 L	1.8	3.1	1.0 L
LB-1S	LB-1290-W05	12/11/90	1.0 L	1.0 L	1.0 L	3.7	1.0 L	1.0 L	2.6	1.0 L
LB-1S	LB-391-W10	3/20/91	1.0 L	1.0 L	1.0 L	2.2	1.0 L	1.0 L	3.7	1.0 L
LB-1S	LB-691-W05	6/26/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.4	1.0 L
LB-1S	LB-991-05	9/24/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0	1.0 L
LB-1S	LB-1291-13	12/23/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.0	1.0 L
LB-1S	LB-392-15	3/23/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1S	LB-63092-1	6/30/92	0.2 L	0.2 L	0.2 L	0.5	0.5 L	0.3 L	0.8 B	0.2 L
LB-1S	LB-92292-2	9/22/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-1S	LB-121192-15	12/11/92	0.2 L	0.2 L	0.2 L	0.3	0.5 L	0.3 L	0.3	0.2 L
LB-1S	LB-031093-3	3/10/93	0.2 L	0.2 L	0.2 L	1.8	0.5 L	0.3 L	0.9	0.2 L
LB-1S	LB-060293-5	6/2/93	0.2 L	0.2	0.2 L	0.7	0.5 L	0.3 L	0.6	0.2 L
LB-1S	LB-092393-9	9/23/93	0.2 L	0.2 L	0.2 L	0.3	0.5 L	0.3 L	0.2	0.2 L
LB-1S	LB-092393-9	9/23/93	0.2 L	0.2 L	0.2 L	NT	NT	0.3 L	NT	NT
LB-1S	LB-121593-1	12/15/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-1S	LB-032494-1	3/24/94	0.2 L	0.2 L	0.2 L	0.5	0.5 L	0.3 L	0.2	0.2 L
LB-1S	LB-062194-4	6/21/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-1S	LB-090694-1	9/6/94	0.2 L	0.3 L	0.4 L	0.3	0.3 L	0.3 L	0.3 L	0.3 L
LB-1S	LB-121494-11	12/14/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-1S	LB-121995-5	2/19/95	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-030995-1	3/9/95	0.3 L	0.2 L	0.1 L	0.1 B	0.1 L	0.1 L	0.1 L	0.1 L
LB-1S	LB-062095-12	6/20/95	0.3 L	0.2 L	0.1 L	0.1 B	0.1 L	0.1 L	0.1 L	0.1 L
LB-1S	LB-092295-13	9/22/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-1S	LB-121995-5	12/19/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-1S	LB-032096-17	3/20/96	0.3 L	0.2 L	0.1 L	0.2	0.1 L	0.1 L	0.1 L	0.1 L
LB-1S	LB-061896-9	6/18/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-1S	LB-091796-5	9/17/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-1S	LB121796-1	12/17/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-1S	LB-031997-3	3/19/97	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-061797-3	6/17/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-1S	LB-091697-2	9/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-121697-5	12/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-031998-3	3/19/98	0.5 L	0.5 L	0.5 L	0.1 B	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-061698-5	6/16/98	0.1 L	0.1 L	0.1	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-1S	LB-091798-4	9/17/98	0.2 L	0.3 L	0.3 B	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-1S	LB-121898-9	12/18/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-1S	LB-031799-3	3/17/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-1S	LB-062399-14	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-1S	LB-091799-10	9/17/99	0.2 L	0.3 L	0.3 J	NT	NT	0.2 L	NT	0.2 L
LB-1S	LB-091799-9	9/17/99	0.2 L	0.3 L	0.3 J	NT	NT	0.2 L	NT	0.2 L
LB-1S	LB-121699-13	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	0.2 L	NT	0.2 L
LB-1S	LB-031700-15	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-061300-7	6/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-091100-1	9/11/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-121500-9	12/15/00	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-031401-14	3/14/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-031902-1	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-091802-1	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-031303-10	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-031303-11	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-092203-6	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-022404-2	2/24/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-090104-1	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S (Dup)	LB-090104-30	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-030905-14	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-091405-1	9/14/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S (Dup)	LB-091405-2	9/14/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-031406-3	3/14/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-091306-5	9/13/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S (Dup)	LB-091306-6	9/13/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-030507-1	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-091907-1	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S (Dup)	LB-091907-2	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-032408-14	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-091608-1	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-1S	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LBLF1S091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB-1S032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-1S	LB1S092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-1S	LB-1S	3/24/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-1S	LB-090811-07	9/8/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-1S	LB-031312-14	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-1S	LB-091212-08	9/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-1S	LB-020513-09	2/5/2013	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-1S	LB-082213-08	8/22/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-1S	LB-021914-18	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-1S (Dup)	LB-021914-19	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-1S	LB-081414-09	8/14/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-3D	LB-03D	5/28/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-3D	LB-1189-W01	11/13/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-3D	LB-1289-W20	12/18/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-3D	LB-032097-14	3/20/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-032098-21	3/20/98	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-031899-15	3/18/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-3D	LB-031600-9	3/16/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-031501-17	3/15/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-032002-18	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-031303-14	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-022404-5	2/24/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-030905-15	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-031606-21	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-030507-4	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-030507-5	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-032408-17	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-3D	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-3D032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3D	LB-3D	3/28/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-3D	LB-031312-09	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-3D	LB-020713-18	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-3D	LB-021914-22	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-3S	LB-03S	5/12/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-3S	LB-03S	7/16/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-3S	LB-1089-W02	10/17/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-3S	LB-1189-W02	11/13/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-3S	LB-1289-W11	12/15/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-3S	LB-032594-11	3/25/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-3S	LB-032097-13	3/20/97	0.6	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-032098-20	3/20/98	0.5	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-3S	LB-031899-14	3/18/99	0.4	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-3S	LB-031600-8	3/16/00	0.2 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-031501-18	3/15/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-032002-17	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-031303-13	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-022404-6	2/24/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB030905-16	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-031606-22	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-030507-3	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-032408-18	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-3S	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-3S032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-3S	LB-3S	3/28/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-3S	LB-031312-10	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-3S	LB-020713-17	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-3S	LB-021914-22	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-4D	LB-04D	5/29/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-4D	LB-04D	6/22/87	1.0 L	1.0 L	NT	2.0 L	2.0 L	4.0 L	NT	1.0 L
LB-4D	LB-04D	7/17/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-4D	LB-04D	9/8/87	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-4D	LB-04D	11/9/87	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-4D	LB-04D	2/9/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-4D	LB-04D	6/21/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-4D	LB-04D	8/29/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.0 L	1.0 L	1.0 L
LB-4D	LB-04D	12/5/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-4D	LB-289-W02	2/27/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-589-W02	5/23/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-989-W27	9/14/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-1289-W06	12/14/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-390-W01	3/13/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-690-W01	6/19/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-990-W02	9/13/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-1290-W01	12/11/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-391-W27	3/21/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-691-W02	6/26/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-991-01	9/24/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-1291-02	12/19/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-392-02	3/19/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-4D	LB-62692-2	6/26/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-4D	LB-91792-5	9/17/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-12992-3	12/9/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-030993-2	3/9/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-060493-17	6/4/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-092393-3	9/23/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-121693-11	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-032594-10	3/25/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-4D	LB-062797-18	6/27/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-4D	LB-090994-20	9/9/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-4D	LB-121494-15	12/14/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-4D	LB-031395-22	3/13/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4D	LB-092295-21	9/22/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4D	LB-122795-21	12/27/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4D	LB-032796-22	3/27/96	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4D	LB-070996-21	7/9/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-4D	LB-091896-15	9/18/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-4D	LB121896-15	12/18/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-4D	LB-031797-2	3/17/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-061697-2	6/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-091697-9	9/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-121597-2	12/15/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031898-1	3/18/98	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-061598-2	6/15/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4D	LB-091698-2	9/16/98	0.2 L	0.3 L	0.2 B	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4D	LB-121898-14	12/18/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4D	LB-031999-21	3/19/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4D	LB-062299-2	6/22/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4D	LB-121699-1	12/14/99	0.2 L	0.3 L	0.2 L		NT	NT	NT	NT
LB-4D	LB-031700-20	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-061400-12	6/14/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-091200-7	9/12/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-121300-4	12/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031301-1	3/13/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031902-4	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031902-5	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031303-18	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031005-23	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-031506-11	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-030607-22	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-032408-19	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-4D	LB-4D	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D (Dup)	Dup-2	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-4D032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4D	LB-4D	3/22/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-4D	LB-031312-11	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-4D	LB-020413-01	2/4/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-4D	LB-021814-11	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-4S(R)	LB-091294-21	9/12/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-4S(R)	LB-121494-14	12/14/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-4S(R)	LB-031395-21	3/13/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4S(R)	LB-092295-19	9/22/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4S(R)	LB-122795-20	12/27/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4S(R)	LB-032796-23	3/27/96	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-4S(R)	LB-070996-20	7/9/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-4S(R)	LB-091896-14	9/18/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-4S(R)	LB121896-14	12/18/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-4S(R)	LB-031797-1	3/17/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-061697-1	6/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-091697-10	9/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-121597-1	12/15/97	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-031898-2	3/18/98	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-061598-1	6/15/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4S(R)	LB-091698-1	9/16/98	0.2 L	0.3 L	0.2 B	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4S(R)	LB-121898-13	12/18/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4S(R)	LB-031999-20	3/19/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4S(R)	LB-062299-1	6/22/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-4S(R)	LB-121699-2	12/14/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-4S(R)	LB-031700-19	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-061400-11	6/14/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-091200-6	9/12/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-121300-3	12/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-031301-2	3/13/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-031902-3	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-031303-17	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-031005-22	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-031506-12	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-030607-21	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-032408-20	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-4S	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-4S(R)	LB-4SR032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-4S(R)	LB-4SR	3/22/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-4S(R)	LB-031312-12	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-4S(R)	LB-020413-02	2/4/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-4S(R)	LB-021814-12	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-5D	LB-05D	5/27/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-5D	LB-05D	7/20/87	1.0 L	1.0 L	NT	1.0 L	2.0 L	4.0 L	NT	1.0 L
LB-5D	LB-05D	2/11/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-5D	LB-05D	8/30/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	2.0 L	1.0 L	1.0 L
LB-5D	LB-1289-W24	12/19/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-5D	LB-032894-13	3/28/94	0.2 L	0.2 L	0.2 L	0.5	0.5 L	0.3 L	0.2 L	0.2 L
LB-5D	LB-031997-9	3/19/97	0.5 L	0.5 L	0.5 L	0.2	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-031998-6	3/19/98	0.5 L	0.5 L	0.5 L	0.2	0.5 L	0.2	0.5 L	0.5 L
LB-5D	LB-031899-11	3/18/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-5D	LB-031600-5	3/16/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-031401-11	3/14/01	0.5 L	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-031902-13	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-031303-9	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-022504-7	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D (Dup)	LB-022504-8	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-030805-1	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-031606-14	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D (Dup)	LB-031606-15	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-030507-7	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-031908-2	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D (Dup)	LB-031908-3	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-5D	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-5D032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5D	LB-5D	3/23/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-5D	LB-031212-03	3/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-5D	LB-020513-03	2/5/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-5D	LB-021714-01	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-5S	LB-05S	5/29/87	2.0 L	2.0 L	NT	2.0 L	2.0 L	5.0 L	NT	2.0 L
LB-5S	LB-05S	7/19/87	1.0 L	1.0 L	NT	2.0 L	2.0 L	4.0 L	NT	1.0 L
LB-5S	LB-05S	9/10/87	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-5S	LB-05S	11/11/87	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-5S	LB-05S	2/10/88	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	NT	1.0 L
LB-5S	LB-032894-12	3/28/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-5S	LB-031997-8	3/19/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-031998-5	3/19/98	2.4	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

**Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill**

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-5S	LB-031899-10	3/18/99	2.6	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-5S	LB-031600-4	3/16/00	1.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-031401-12	3/14/01	0.4 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-031902-12	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-091802-6	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-031303-8	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-092203-1	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-022504-9	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-090104-5	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB030805-2	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S (Dup)	LB030805-3	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-091405-4	9/14/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-031606-16	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-091206-1	9/12/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-030507-6	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-091907-3	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-031908-1	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-091608-2	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S (Dup)	LB-091608-8	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-5S	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LBLF5S091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-5S032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S (Dup)	LB-DUP2032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB5S092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S (Dup)	LB51S092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-5S	LB-5S	3/23/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-5S	LB-090811-06	9/8/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-5S	LB-032212-17	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-5S	LB-091112-01	9/11/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-5S	LB-020513-04	2/5/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-5S	LB-082113-01	8/21/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-5S	LB-021714-02	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-5S	LB-081314-01	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-6S	LB-06S	7/17/87	1.0 L	1.0 L	NT	3.0	2.0	4.0 L	NT	1.0 L
LB-6S	LB-06S	9/10/87	1.0 L	1.1	1.0 L	1.0 L	8.0	1.0 L	NT	1.0 L
LB-6S	LB-06S	11/11/87	1.0 L	2.6	1.0 L	4.2	7.1	1.0 L	NT	1.0 L
LB-6S	LB-06S	2/11/88	1.0 L	1.5	1.0 L	1.4	1.0 L	1.0 L	NT	1.0 L
LB-6S	LB-06S	6/22/88	1.0 L	4.0	1.0 L	6.0	1.0 L	1.0 L	NT	1.0 L
LB-6S	LB-06S	8/31/88	1.0 L	1.0	1.0 L	3.0	1.0 L	2.0 L	40.0	1.0 L
LB-6S	LB-06S	12/6/88	1.0 L	1.0 L	1.0 L	6.0	1.0 L	2.0	NT	1.0 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-6S	LB-289-W17	3/1/89	1.0 L	1.0 L	1.0 L	6.9	1.0 L	2.6	24.1	1.0 L
LB-6S	LB-589-W17	5/24/89	1.0 L	1.0 L	1.0 L	5.2	1.0	1.0 L	21.0	1.0 L
LB-6S	LB-989-W07	9/7/89	1.0 L	1.0 L	1.0 L	5.6	1.0 L	1.5	20.0	1.0 L
LB-6S	LB-1289-W13	12/15/89	1.0	2.0	1.0 L	13.0	1.0 L	1.7	51.0	1.0 L
LB-6S	LB-390-W24	3/15/90	1.0 L	1.5	1.0 L	11.0	1.0 L	1.0 L	37.0	1.0 L
LB-6S	LB-690-W22	6/21/90	1.0 L	1.0 L	1.0 L	9.7	1.0 L	1.0 L	31.0	1.0 L
LB-6S	LB-990-W11	9/14/90	1.1	1.7	1.0 L	12.0	1.0 L	6.2	37.0	1.0 L
LB-6S	LB-1290-W13	12/12/90	1.0 L	1.0 L	1.0 L	10.0	1.0 L	4.5	34.0	1.0 L
LB-6S	LB-391-W16	3/21/91	1.0 L	1.0 L	1.0 L	4.3	1.0 L	1.0 L	14.0	1.0 L
LB-6S	LB-691-W19	6/26/91	1.0 L	1.0 L	1.0 L	3.7	1.0 L	1.0 L	13.0	1.0 L
LB-6S	LB-691-W20	6/26/91	1.0 L	1.0 L	1.0 L	4.1	1.0 L	1.0 L	15.0	1.0 L
LB-6S	LB-991-14	9/25/91	1.0 L	1.0 L	1.0 L	5.0	1.0 L	1.0 L	18.0	1.0 L
LB-6S	LB-991-15	9/25/91	1.0 L	1.0 L	1.0 L	4.0	1.0 L	1.0	15.0	1.0 L
LB-6S	LB-1291-08	12/20/91	1.0 L	1.0 L	1.0 L	5.0	1.0 L	1.0 L	29.0	1.0 L
LB-6S	LB-1291-09	12/20/91	1.0 L	1.0 L	1.0 L	4.0	1.0 L	1.0 L	28.0	1.0 L
LB-6S	LB-392-07	3/20/92	1.0 L	1.0 L	1.0 L	2.0	1.0 L	1.0 L	4.0	1.0 L
LB-6S	LB-392-08	3/20/92	1.0 L	1.0 L	1.0 L	2.0	1.0 L	1.0 L	4.0	1.0 L
LB-6S	LB-62692-5	6/26/92	0.4	NT	0.2 L	NT	0.5 L	NT	NT	0.2 L
LB-6S	LB-62692-5	6/26/92	NT	0.4 B	0.2 L	2.6	NT	0.9	6.1 B	NT
LB-6S	LB-62692-6	6/26/92	NT	NT	0.2 L	NT	0.5 L	0.8	5.2 B	0.2 L
LB-6S	LB-62692-6	6/26/92	0.4	0.4 B	0.2 L	2.6	NT	NT	NT	NT
LB-6S	LB-92192-4	9/21/92	0.5	0.4	0.2 L	NT	0.5 L	2.1	5.9	0.2 L
LB-6S	LB-92192-4	9/21/92	NT	NT	0.2 L	3.0	NT	NT	NT	NT
LB-6S	LB-92192-5	9/21/92	NT	NT	0.2 L	NT	0.5 L	NT	NT	0.2 L
LB-6S	LB-92192-5	9/21/92	0.5	0.4	0.2 L	3.0	NT	1.9	5.6	NT
LB-6S	LB-12992-4	12/9/92	0.6 B	NT	0.2	NT	7.8 B	0.3 L	NT	0.2 L
LB-6S	LB-12992-4	12/9/92	NT	0.2	NT	3.6	NT	0.3 L	5.8	NT
LB-6S	LB-12992-5	12/9/92	NT	0.2 L	NT	3.9	3.1 B	0.3 L	6.6	0.2
LB-6S	LB-12992-5	12/9/92	0.4 B	0.2 L	0.2	NT	NT	0.3 L	NT	NT
LB-6S	LB-031093-7	3/10/93	0.2 L	0.2 L	0.2 L	NT	0.5 L	0.9	2.3	0.2 L
LB-6S	LB-031093-7	3/10/93	0.2 L	0.2 L	0.2 L	2.6	NT	NT	NT	NT
LB-6S	LB-031093-8	3/10/93	0.2 L	0.2 L	0.2 L	NT	0.5 L	0.3 L	2.1	0.2 L
LB-6S	LB-031093-8	3/10/93	0.2 L	0.2 L	0.2 L	2.4	NT	0.3 L	NT	NT
LB-6S	LB-060393-11	6/3/93	0.4	NT	0.2 L	1.3	0.5 L	NT	1.2	0.2 L
LB-6S	LB-060393-11	6/3/93	NT	0.3	0.2 L	NT	NT	0.6	NT	NT
LB-6S	LB-060393-12	6/3/93	0.4	NT	0.2 L	NT	0.5 L	NT	NT	0.2 L
LB-6S	LB-060393-12	6/3/93	NT	0.3	0.2 L	1.1	NT	0.4	1.0	NT
LB-6S	LB-092493-13	9/24/93	0.2 L	0.2 L	0.2 L	1.8	0.5 L	2.9	1.4	0.2 L
LB-6S	LB-092493-13	9/24/93	0.2 L	0.2 L	0.2 L	NT	NT	NT	NT	NT
LB-6S	LB-121593-6	12/15/93	0.2 L	0.2 L	0.2 L	1.6	0.5 L	1.3	1.8	0.2 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-6S	LB-032994-18	3/29/94	0.2 L	0.2 L	0.2 L	0.9	0.5 L	0.6	0.5	0.2 L
LB-6S	LB-032994-19	3/29/94	0.2 L	0.2 L	0.2 L	0.9	0.5 L	0.5	0.5	0.2 L
LB-6S	LB-062394-11	6/23/94	0.2 L	0.3 L	0.4 L	0.5	0.3 L	0.3 L	0.3 L	0.3 L
LB-6S	LB-062394-12	6/23/94	0.2 L	0.3 L	0.4 L	0.6	0.3 L	0.3 L	0.3 L	0.3 L
LB-6S	LB-090694-5	9/6/94	0.2 L	0.3 L	0.4 L	0.8	0.3 L	0.8	0.4	0.3 L
LB-6S	LB-090694-6	9/6/94	0.2 L	0.3 L	0.4 L	0.8	0.3 L	0.8	0.4	0.3 L
LB-6S	LB-121394-6	12/13/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-6S	LB-121394-7	12/13/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-6S	LB-031095-10	3/10/95	0.3 L	0.2 L	0.1 L	0.2 B	0.1 L	0.1 L	0.2	0.1 L
LB-6S	LB-031095-11	3/10/95	0.3 L	0.2 L	0.1	0.2 B	0.1 L	0.1 L	0.2	0.1 L
LB-6S	LB-062095-10	6/20/95	0.3 L	0.2 L	0.1 L	0.3 B	0.1 L	0.1 L	0.2	0.1 L
LB-6S	LB-062095-9	6/20/95	0.3 L	0.2 L	0.1 L	0.3 B	0.1 L	0.1 L	0.2	0.1 L
LB-6S	LB-092095-6	9/20/95	0.3 L	0.3 L	0.1 L	0.3	0.1 L	0.1	0.2	0.1 L
LB-6S	LB-092095-7	9/20/95	0.3 L	0.3 L	0.1 L	0.3	0.1 L	0.1	0.2	0.1 L
LB-6S	LB-122095-12	12/20/95	0.3 L	0.2 L	0.1 L	0.2	0.1 L	0.1 L	0.1 L	0.1 L
LB-6S	LB-122095-13	12/20/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1	0.1 L
LB-6S	LB-031996-5	3/19/96	0.3 L	0.2 L	0.1 L	0.2	0.1 L	0.1 L	0.1	0.1 L
LB-6S	LB-031996-6	3/19/96	0.3 L	0.2 L	0.1 L	0.2	0.1 L	0.1 L	0.1 L	0.1 L
LB-6S	LB-061996-12	6/19/96	0.1 L	0.1 L	0.0 L	0.3	0.1 L	0.1 L	0.2	0.1 L
LB-6S	LB-061996-13	6/19/96	0.1	0.1 L	0.0 L	0.3	0.1 L	0.1 L	0.3	0.1 L
LB-6S	LB-091896-12	9/18/96	0.1 L	0.1 L	0.0 L	0.4	0.1 L	0.1 L	0.3	0.1 L
LB-6S	LB121796-3	12/17/96	0.1 L	0.1 L	0.0 L	0.4	0.1 L	0.1	0.2	0.1 L
LB-6S	LB-031997-7	3/19/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-061797-6	6/17/97	0.2	0.1	0.0	0.5	0.5 L	0.5 L	0.9	0.5 L
LB-6S	LB-091697-3	9/16/97	0.5 L	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.6	0.5 L
LB-6S	LB-121797-14	12/17/97	0.4	0.2	0.5 L	1.0	0.5 L	0.5 L	1.7	0.5 L
LB-6S	LB-031998-7	3/19/98	0.3	0.2	0.1	0.5	0.5 L	0.2	0.5 L	0.5 L
LB-6S	LB-061698-7	6/16/98	0.1	0.1	0.1	0.2	0.1 L	0.1 L	0.3	0.1 L
LB-6S	LB-091798-5	9/17/98	0.2	0.3 L	0.2 B	0.5	0.3 L	0.2 L	0.6	0.2 L
LB-6S	LB-121798-1	12/17/98	0.2 L	0.3 L	0.2 L	0.2	0.3 L	0.2 L	0.3 L	0.2 L
LB-6S	LB-031799-2	3/17/99	0.2 L	0.3 L	0.2 L	0.4	0.3 L	0.2 L	0.4	0.2 L
LB-6S	LB-062399-11	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-6S	LB-121599-10	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-6S	LB-031700-10	3/17/00	0.2 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-031700-11	3/17/00	0.2 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-061300-6	6/13/00	0.5 L	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091200-3	9/12/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-121200-1	12/12/00	0.2 J	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.3 J	0.5 L
LB-6S	LB-121200-2	12/12/00	0.5 L	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.2 J	0.5 L

**Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill**

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-6S	LB-031301-7	3/13/01	0.2 J	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-031301-8	3/13/01	0.5 L	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-032002-15	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-032002-16	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091802-2	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091802-3	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-031303-21	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-092203-5	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-022604-18	2/26/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-090104-6	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-030805-9	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091405-6	9/14/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-031506-13	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091206-4	9/12/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-030507-12	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091907-6	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-031908-9	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-091608-3	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-6S	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LBLF6S091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S (Dup)	LBLFDUP1091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-6S032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB6S092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-6S	LB-6S	3/22/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S (Dup)	DUP1	3/22/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S	LB-090711-05	9/7/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S (Dup)	LB-090711-04	9/7/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S	LB-032212-23	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S (Dup)	LB-032212-22	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S	LB-091212-06	9/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S (Dup)	LB-091212-07	9/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-6S	LB-020613-15	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-6S (Dup)	LB-020613-16	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-6S	LB-082113-07	8/21/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-6S	LB-021914-23	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-6S	LB-081314-06	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-6S (Dup)	LB-081314-07	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB10-DR	LB-031005-19	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB10-DR (Dup)	LB-031005-20	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB10-DR	LB-031406-5	3/14/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

**Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill**

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB10-DR	LB-030607-20	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB10-DR	LB-032408-22	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB10-DR	LB-10D	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB10-DR	LB-10D032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10DR	LB-10DR	3/29/11	0.1 L	0.1 L	0.2 L	0.18	0.1 L	0.25 L	0.1 L	0.1 L
LB-10DR	LB-0313012-07	3/13/12	0.1 L	0.1 L	0.2 L	0.12	0.1 L	0.25 L	0.1 L	0.1 L
LB-10DR	LB-020713-19	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-10DR	LB-021914-15	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-10SR	LB-031005-21	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-091505-7	9/15/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-031406-6	3/14/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-091306-9	9/13/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-030607-19	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-091907-7	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-032408-21	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR (Re)	MW10SR-043008	4/30/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-091608-4	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-10S	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR (Dup)	Dup-1	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LBLF10S091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-10SR032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB10S092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-10SR	LB-10SR	3/29/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-10SR (Dup)	DUP2	3/29/11	0.1 L	0.15	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-10SR	LB-090811-08	9/8/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-10SR	LB-031312-08	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-10SR	LB-091212-09	9/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-10SR	LB-020713-20	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-10SR	LB-082213-09	8/22/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-10SR	LB-021914-16	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-10SR	LB-081414-08	8/14/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-13D	LB-989-W20	9/13/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-1089-W15	10/19/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-1189-W20	11/16/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-1289-W18	12/18/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-390-W18	3/15/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-690-W20	6/21/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-990-W17	9/18/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0	1.0 L	1.0 L	1.0 L
LB-13D	LB-1290-W20	12/13/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Lechner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-13D	LB-391-W15	3/20/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-691-W22	6/26/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-991-13	9/25/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-1291-19	12/23/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-392-19	3/24/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-13D	LB-7292-2	7/2/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-91792-2	9/17/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-121092-9	12/10/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-031293-20	3/12/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-060493-21	6/4/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-092393-7	9/23/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-092393-7	9/23/93	0.2 L	0.2 L	0.2 L	0.2 L	NT	0.3 L	0.2 L	NT
LB-13D	LB-121693-12	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-032894-17	3/28/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13D	LB-062394-20	6/28/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-13D	LB-090794-10	9/7/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-13D	LB-121594-21	12/15/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-13D	LB-031395-18	3/13/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13D	LB-062195-19	6/21/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13D	LB-092295-16	9/22/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13D	LB-121995-8	12/19/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13D	LB-032096-15	3/20/96	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13D	LB-032096-16	3/20/96	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13D	LB-061996-16	6/19/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-13D	LB-091796-4	9/17/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-13D	LB121796-9	12/17/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-13D	LB-032097-18	3/20/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-061897-15	6/18/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-091897-11	9/18/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-121797-9	12/17/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.8 L	0.5 L	0.5 L
LB-13D	LB-032098-19	3/20/98	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-061798-14	6/17/98	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-13D	LB-091898-15	9/18/98	0.2 L	0.3 L	0.3 B	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-13D	LB-121898-12	12/18/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-13D	LB-031999-23	3/19/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-13D	LB-062399-12	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-13D	LB-091799-13	9/17/99	0.2 L	0.3 L	0.3 J	NT	NT	NT	NT	NT
LB-13D	LB-121699-3	12/14/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-13D	LB-031700-18	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-061400-10	6/14/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-13D	LB-091300-11	9/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-121500-12	12/15/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-031501-19	3/15/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-032002-20	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-031303-16	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-022404-3	2/24/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-031005-17	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-031506-9	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-030607-18	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-032008-13	3/20/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-13D	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-13D032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13D	LB-13D	3/25/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13D	LB-031212-01	3/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13D	LB-020713-22	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-13D	LB-021814-08	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-13I	LB-989-W22	9/13/89	1.0 L	1.0 L	1.0 L	6.5	1.0 L	1.8	13.0	1.0 L
LB-13I	LB-989-W23	9/13/89	1.0 L	1.0 L	1.0 L	5.6	1.0 L	1.3	11.0	1.0 L
LB-13I	LB-1089-W17	10/19/89	1.0 L	1.0 L	1.0 L	6.0	1.0 L	2.3	10.0	1.0 L
LB-13I	LB-1189-W17	11/16/89	1.0 L	1.0 L	1.0 L	4.9	1.0 L	2.3	1.0 L	1.0 L
LB-13I	LB-1289-W16	12/18/89	1.0 L	1.0 L	1.0 L	5.7	1.0 L	1.9	10.0	1.0 L
LB-13I	LB-390-W19	3/15/90	1.0 L	1.0 L	1.0 L	2.0	1.0 L	3.7	2.2	1.0 L
LB-13I	LB-690-W19	6/21/90	1.0 L	1.0 L	1.0 L	3.6	1.0 L	1.4	8.1	1.0 L
LB-13I	LB-990-W16	9/18/90	1.0 L	1.0 L	1.0 L	5.1	1.0 L	2.4	8.3	1.0 L
LB-13I	LB-1290-W21	12/13/90	1.0 L	1.0 L	1.0 L	4.6	1.0 L	2.9	7.9	1.0 L
LB-13I	LB-391-W14	3/20/91	1.0 L	1.0 L	1.0 L	3.1	1.0 L	1.0 L	7.1	1.0 L
LB-13I	LB-691-W21	6/26/91	1.0 L	2.1	1.0 L	2.4	1.0 L	1.2	4.1	1.0 L
LB-13I	LB-991-12	9/25/91	1.0 L	1.0 L	1.0 L	3.0	1.0 L	1.0	9.0	1.0 L
LB-13I	LB-1291-18	12/23/91	1.0 L	1.0 L	1.0 L	1.0	1.0 L	1.0 L	9.0	1.0 L
LB-13I	LB-392-20	3/24/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0	1.0 L
LB-13I	LB-7292-1	7/2/92	0.2 L	0.2 L	0.2 L	0.4	0.5 L	1.4	0.2 L	0.2 L
LB-13I	LB-91792-1	9/17/92	0.2 L	0.2 L	0.2 L	1.6	0.5 L	6.6	2.5	0.2 L
LB-13I	LB-121092-8	12/10/92	0.2 L	0.2 L	0.2 L	1.6	0.5 L	0.3 L	1.9	0.2 L
LB-13I	LB-031293-19	3/12/93	0.2 L	0.2 L	0.2 L	1.3	0.5 L	1.2	1.7	0.2 L
LB-13I	LB-060493-20	6/4/93	0.2 L	0.2	0.2 L	0.8	0.5 L	0.5	0.9	0.2 L
LB-13I	LB-092393-6	9/23/93	0.2 L	0.2 L	0.2 L	0.8	0.5 L	1.6	0.6	0.2 L
LB-13I	LB-092393-6	9/23/93	0.2 L	0.2 L	0.2 L	NT	NT	NT	NT	NT
LB-13I	LB-121693-14	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-13I	LB-032894-16	3/28/94	0.2 L	0.2 L	0.2 L	0.9	0.5 L	0.3 L	0.5	0.2 L
LB-13I	LB-0624894-19	6/28/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.6	0.3 L	0.3 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-13I	LB-090794-9	9/7/94	0.2 L	0.3 L	0.4 L	0.2	0.3 L	0.6	0.3 L	0.3 L
LB-13I	LB-121594-20	12/15/94	0.2 L	0.3 L	0.4 L	0.3	0.3 L	0.3 L	0.3 L	0.3 L
LB-13I	LB-031395-17	3/13/95	0.3 L	0.2 L	0.1 L	0.2 B	0.1 L	0.2	0.1 L	0.1 L
LB-13I	LB-062195-18	6/21/95	0.3 L	0.2 L	0.1 L	0.2 B	0.1 L	0.1 L	0.1	0.1 L
LB-13I	LB-092295-15	9/22/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.2	0.1 L	0.1 L
LB-13I	LB-121995-7	12/19/95	0.3 L	0.1	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-13I	LB-032096-14	3/20/96	0.3 L	0.2 L	0.1 L	0.4	0.1 L	0.1 L	0.2 B	0.1 L
LB-13I	LB-061996-15	6/19/96	0.1 L	0.1 L	0.0	0.6	0.1 L	1.1	0.2	0.1 L
LB-13I	LB-091796-3	9/17/96	0.1 L	0.1 L	0.0 L	0.2	0.1 L	0.8	0.2 L	0.1 L
LB-13I	LB121796-10	12/17/96	0.1 L	0.1 L	0.0	0.1 L	0.1 L	1.1	0.2 L	0.1 L
LB-13I	LB-032097-19	3/20/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5	0.5 L	0.5 L
LB-13I	LB-061897-14	6/18/97	0.5 L	0.5 L	0.1	0.1	0.5 L	0.9	0.5 L	0.5 L
LB-13I	LB-091897-12	9/18/97	0.5 L	0.5 L	0.2	0.2	0.5 L	0.9	0.5 L	0.5 L
LB-13I	LB-121797-8	12/17/97	0.5 L	0.5 L	0.1	0.1	0.5 L	0.8	0.5 L	0.5 L
LB-13I	LB-032098-18	3/20/98	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.7	0.5 L	0.5 L
LB-13I	LB-061798-15	6/17/98	0.1 L	0.1 L	0.1	0.1 L	0.1 L	0.6	0.2 L	0.1 L
LB-13I	LB-091898-14	9/18/98	0.2 L	0.3 L	0.3 B	0.2 L	0.3 L	0.7	0.3 L	0.2 L
LB-13I	LB-121898-11	12/18/98	0.2 L	0.3 L	0.2 L	0.3	0.3 L	0.2 L	0.3 L	0.2 L
LB-13I	LB-031999-22	3/19/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.4	0.3 L	0.2 L
LB-13I	LB-062399-13	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-13I	LB-091799-12	9/17/99	0.2 L	0.3 L	0.3 J	NT	NT	0.4 J	NT	NT
LB-13I	LB-121699-4	12/14/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-13I	LB-031700-17	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-061400-9	6/14/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-091300-12	9/13/00	0.3 J	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-121500-11	12/15/00	0.3 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-031501-20	3/15/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-032002-19	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-091802-7	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-031303-15	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-092203-7	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-022404-4	2/24/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-090104-13	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-031005-18	3/10/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-091505-9	9/15/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-031506-10	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-091306-8	9/13/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-030607-17	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-091907-8	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-13I	LB-032008-12	3/20/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-091608-5	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-13I	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LBLF13i091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-13I032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-13I092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-13I	LB-13I	3/23/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13I	LB-090711-02	9/7/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13I	LB-032212-19	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13I (Dup)	LB-032212-20	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13I	LB-091112-03	9/11/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-13I	LB-020613-13	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-13I	LB-082113-05	8/21/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-13I	LB-021814-10	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-13I	LB-081314-04	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-17D	LB-989-W08	9/7/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1089-W10	10/18/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1089-W11	10/18/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1189-W12	11/15/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1189-W13	11/15/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1289-W28	12/20/89	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-390-W21	3/15/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-390-W22	3/15/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-690-W18	6/21/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-990-W19	9/19/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-990-W20	9/19/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1290-W23	12/13/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-391-W19	3/21/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-391-W21	3/21/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-691-W14	6/11/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-691-W15	6/11/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-991-10	9/25/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-991-11	9/25/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1291-16	12/23/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-1291-17	12/23/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-392-11	3/23/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-392-12	3/23/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17D	LB-63092-5	6/30/92	0.2 L	0.2 L	0.5	0.2 L	0.5 L	0.9	0.2 L	0.2 L
LB-17D	LB-031093-6	3/10/93	0.2 L	0.2 L	0.3	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-17D	LB-060493-22	6/4/93	0.2 L	0.2 L	0.3	0.2 L	0.5 L	0.4	0.2 L	0.2 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-17D	LB-092793-21	9/27/93	0.2 L	0.2 L	0.3	0.2 L	0.5 L	2.3	0.2 L	0.2 L
LB-17D	LB-092793-21	9/27/93	0.2 L	0.2 L	NT	0.2 L	NT	NT	0.2 L	NT
LB-17D	LB-121593-7	12/15/93	0.2 L	0.2 L	0.3	0.2 L	0.5 L	0.7	0.2 L	0.2 L
LB-17D	LB-032994-20	3/29/94	0.2 L	0.2 L	0.3	0.5 L	0.5 L	0.8	0.2 L	0.2 L
LB-17D	LB-062394-14	6/23/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-17D	LB-090794-7	9/7/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.7	0.3 L	0.3 L
LB-17D	LB-121494-10	12/14/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.4	0.3 L	0.3 L
LB-17D	LB-030995-5	3/9/95	0.3 L	0.4	0.2	0.1 L	0.1 L	0.4	0.2	0.1 L
LB-17D	LB-062095-11	6/20/95	0.3 L	0.2 L	0.3	0.1 L	0.1 L	0.3	0.1 L	0.1 L
LB-17D	LB-092095-10	9/20/95	0.3 L	0.3 L	0.4	0.1 L	0.1 L	0.1 L	0.1	0.1 L
LB-17D	LB-121895-3	12/18/95	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.4	0.5 L	0.5 L
LB-17D	LB-121895-3	12/18/95	0.3 L	0.2 L	NT	0.1 L	0.1 L	NT	0.1 L	0.1 L
LB-17D	LB-031996-11	3/19/96	0.3 L	0.2 L	0.3 B	0.1 L	0.1 L	0.4	0.1 L	0.1 L
LB-17D	LB-061996-14	6/19/96	0.1 L	0.1 L	0.3	0.1 L	0.1 L	0.6	0.2 L	0.1
LB-17D	LB-032097-16	3/20/97	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-031998-14	3/19/98	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-031899-13	3/18/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-17D	LB-031600-7	3/16/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-031401-9	3/14/01	0.5 L	0.5 L	0.1 J	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-031902-7	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-031203-7	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-022504-10	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-030905-10	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-031506-7	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-030607-14	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D (Dup)	LB-030607-15	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-032008-11	3/20/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-17D	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-17D032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17D	LB-17D	3/22/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LN-17D	LB-031212-04	3/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-17D	LB-020513-05	2/5/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-17D	LB-021714-03	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-17I	LB-989-W04	9/6/89	1.0 L	1.0 L	1.4	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17I	LB-1089-W14	10/19/89	1.0 L	1.0 L	1.6	1.0 L	1.0 L	1.0 L	1.0 L	1.4
LB-17I	LB-1189-W14	11/15/89	1.0 L	1.0 L	1.3	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17I	LB-1289-W29	12/20/89	1.0 L	1.0 L	1.4	1.0 L	1.0 L	1.0 L	1.0 L	1.1
LB-17I	LB-1289-W30	12/20/89	1.0 L	1.0 L	1.4	1.0 L	1.0 L	1.0 L	1.0 L	1.1
LB-17I	LB-390-W20	3/15/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17I	LB-690-W17	6/21/90	1.0 L	1.0 L	1.0	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-17I	LB-990-W18	9/19/90	1.0 L	1.0 L	1.2	1.0 L	1.0 L	1.0 L	1.0 L	1.1
LB-17I	LB-1290-W22	12/13/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17I	LB-391-W20	3/21/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17I	LB-392-13	3/23/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-17I	LB-63092-6	6/30/92	0.2 L	0.2 L	0.7		0.5 L	NT	0.2 L	0.8
LB-17I	LB-63092-6	6/30/92	0.2 L	0.2 L	NT	0.2	NT	1.0	0.2 L	NT
LB-17I	LB-63092-7	6/30/92	0.2 L	0.2 L	0.7	0.3	0.5 L	1.0		0.9
LB-17I	LB-63092-7	6/30/92	0.2 L	0.2 L	NT		NT	NT	0.3 B	NT
LB-17I	LB-91892-3	9/18/92	0.2 L	0.2 L	1.0	0.2	0.5 L	4.1	0.2 L	1.3
LB-17I	LB-91892-3	9/18/92	0.2 L	0.2 L	NT		NT	NT	0.2 L	NT
LB-17I	LB-91892-4	9/18/92	0.2 L	0.2 L	0.9		0.5 L	NT	0.2 L	1.2
LB-17I	LB-91892-4	9/18/92	0.2 L	0.2 L	NT	0.2	NT	4.1	0.2 L	NT
LB-17I	LB-121192-18	12/11/92	0.2 L	0.2 L	NT	0.2 L	0.5 L	1.0	0.2 L	1.5
LB-17I	LB-121192-18	12/11/92	0.2 L	0.2 L	1.3	0.2 L	NT	NT	0.2 L	NT
LB-17I	LB-121192-19	12/11/92	0.2 L	0.2 L	1.3	0.2 L	0.5 L	NT	0.2 L	1.6
LB-17I	LB-121192-19	12/11/92	0.2 L	0.2 L	NT	0.2 L	NT	1.1	0.2 L	NT
LB-17I	LB-031093-5	3/10/93	0.2 L	0.2 L	1.5	0.2 L	0.5 L	0.8	0.2 L	1.9
LB-17I	LB-032994-21	3/29/94	0.2 L	0.2 L	0.9	0.5 L	0.5 L	0.4	0.2 L	0.8
LB-17I	LB-030995-6	3/9/95	0.3 L	0.2 L	0.8	0.1 L	0.1 L	0.2	0.1 L	1.0
LB-17I	LB-031996-10	3/19/96	0.3 L	0.2 L	0.7	0.1 L	0.1 L	0.4	0.1 L	0.9
LB-17I	LB-032097-17	3/20/97	0.5 L	0.5 L	1.3	0.5 L	0.5 L	0.5 L	0.5 L	1.5
LB-17I	LB-031998-13	3/19/98	0.5 L	0.5 L	0.8 J	0.5 L	0.5 L	0.1 J	0.5 L	1.1 J
LB-17I	LB-031899-12	3/18/99	0.2 L	0.3 L	0.6	0.2 L	0.3 L	0.2 L	0.3 L	0.8
LB-17I	LB-031600-6	3/16/00	0.5 L	0.5 L	0.4 J	0.5 L	0.5 L	0.5 L	0.5 L	0.2 J
LB-17I	LB-031401-10	3/14/01	0.5 L	0.5 L	0.4 J	0.5 L	0.5 L	0.5 L	0.5 L	0.3 J
LB-17I	LB-031902-6	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-031203-6	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-022504-11	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB030905-11	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-031506-8	3/15/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-030607-13	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-032008-10	3/20/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-17I	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-17I032310	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I (Dup)	LB-DUP1032410	3/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-17I	LB-17I	3/22/11	0.1 L	0.81	0.26	0.1 L	0.1 L	0.25 L	0.27	0.1 L
LB-17I	LB-031312-16	3/13/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-17I	LB-020513-06	2/5/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-17I	LB-021714-04	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-20S	LB-1289-W36	12/21/89	1.0 L	1.0 L	1.0 L	1.0	22.0	2.6	1.3	1.0 L
LB-20S	LB-390-W12	3/14/90	1.0 L	1.0 L	1.0 L	2.5	1.0 L	10.0	2.0	1.1
LB-20S	LB-690-W08	6/19/90	1.0 L	1.0 L	1.0 L	1.8	1.0 L	12.0	1.1	2.2
LB-20S	LB-690-W09	6/19/90	1.0 L	1.0 L	1.0 L	2.2	1.0 L	14.0	1.8	2.4
LB-20S	LB-990-W09	9/14/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	4.9	1.0 L	1.3
LB-20S	LB-1290-W10	12/12/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	5.8	1.0 L	1.7
LB-20S	LB-1290-W11	12/12/90	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.5
LB-20S	LB-391-W08	3/20/91	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-20S	LB-392-18	3/24/92	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L	1.0 L
LB-20S	LB-031593-26	3/15/93	0.2 L	0.2 L	NT	NT	0.5 L	1.3	0.2 L	1.3
LB-20S	LB-031593-26	3/15/93	0.2 L	0.2 L	0.4	0.2	NT	NT	0.2 L	NT
LB-20S	LB-031593-27	3/15/93	0.2 L	0.2 L	0.4	NT	0.5 L	NT	0.2 L	1.5
LB-20S	LB-031593-27	3/15/93	0.2 L	0.2 L	NT	0.2	NT	1.6	0.2 L	NT
LB-20S	LB-032994-23	3/29/94	0.2 L	0.2 L	0.5	0.3	0.5 L	1.6	0.2 L	1.1
LB-20S	LB-031395-19	3/13/95	0.3 L	0.2 L	0.3	0.2 B	0.1 L	1.2	0.2	1.4
LB-20S	LB-032096-20	3/20/96	0.3 L	0.3	1.0	0.2	0.1 L	1.9	0.1 B	1.9
LB-20S	LB-032097-15	3/20/97	0.5 L	0.5 L	1.6	0.5 L	0.5 L	2.0	0.5 L	2.3
LB-20S	LB-032098-23	3/20/98	0.5 L	0.5 L	0.8	0.5 L	0.5 L	0.5	0.5 L	1.0
LB-20S	LB-031899-16	3/18/99	0.2 L	0.3 L	0.5	0.2 L	0.3 L	0.9	0.3 L	0.6
LB-20S	LB-031700-14	3/17/00	0.5 L	0.5 L	0.5	0.5 L	0.5 L	0.8	0.5 L	0.8
LB-20S	LB-031401-13	3/14/01	0.5 L	0.5 L	0.4 J	0.5 L	0.5 L	0.5 L	0.5 L	0.6
LB-20S	LB-032002-14	3/20/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB-031303-20	3/13/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB-022604-19	2/26/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB030905-12	3/9/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB-031406-4	3/14/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB-030607-16	3/6/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5
LB-20S	LB-032408-16	3/24/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5
LB-20S	LB-20S	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB-20S032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-20S	LB-20S	3/24/11	0.1 L	0.1 L	0.25	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-20S	LB-031312-15	3/13/12	0.1 L	0.1 L	0.2	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-20S	LB-020613-10	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-20S	LB-021914-20	2/19/14	0.15 L	0.13 L	0.23 J	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-26D	LB-0892-2	8/27/92	0.2 L J	0.2 L J	0.2 L J	0.2 L J	0.5 L J	0.3 L J	0.3 J	0.2 L J
LB-26D	LB-92192-7	9/21/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-26D	LB-121092-13	12/10/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-26D	LB-031193-14	3/11/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-26D	LB-060193-3	6/1/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-26D	LB-092493-12	9/24/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-26D	LB-092493-12	9/24/93	0.2 L	0.2 L	0.2 L	0.2 L	NT	0.3 L	0.2 L	NT
LB-26D	LB-121693-16	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-26D	LB-032594-7	3/25/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-26D	LB-062294-6	6/22/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-26D	LB-090894-15	9/8/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-26D	LB-121394-5	12/13/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-26D	LB-031095-14	3/10/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-26D	LB-061995-2	6/19/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-26D	LB-092095-4	9/20/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-26D	LB-122095-15	12/20/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-26D	LB-031996-2	3/19/96	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-26D	LB-061896-2	6/18/96	0.1 L	0.1 L	0.0 L	0.2	0.1 L	0.1 L	0.2 L	0.1 L
LB-26D	LB-091896-10	9/18/96	0.1 L	0.1 L	0.0 L	4.0 B	0.1 L	0.1 L	0.2 L	0.1 L
LB-26D	LB121796-4	12/17/96	0.1 L	0.1 L	0.0 L	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-26D	LB-031997-6	3/19/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-061797-8	6/17/97	0.5 L	0.5 L	0.1	0.1	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-091697-4	9/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-121697-5	12/16/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-031998-9	3/19/98	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-061698-9	6/16/98	0.1 L	0.1 L	0.1	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-26D	LB-091798-6	9/17/98	0.2 L	0.3 L	0.2 B	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-26D	LB-121798-3	12/17/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-26D	LB-031899-6	3/18/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-26D	LB-062399-9	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-26D	LB-121599-9	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-26D	LB-031700-13	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-061300-5	6/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-091200-4	9/12/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-121500-7	12/15/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-031301-5	3/13/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-031902-8	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-031203-5	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-022504-12	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-030805-7	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-031606-19	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-030507-11	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-031908-8	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-26D	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26D	LB-26D032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-26D	LB-26D	3/23/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-26D	LB-031212-05	3/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-26D	LB-020713-23	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-26D	LB-021714-05	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-26I	LB-0892-1	8/27/92	0.2 L J	0.2 L J	0.2 L J	0.5 J	0.5 L J	1.3 J	0.2 L J	0.2 L J
LB-26I	LB-92192-6	9/21/92	0.2 L	0.2 L	0.2 L	0.6	0.5 L	2.1	0.2 L	0.2 L
LB-26I	LB-121092-12	12/10/92	0.2 L	0.2 L	0.2 L	0.5	0.5 L	0.3 L	0.2 L	0.2 L
LB-26I	LB-031193-13	3/11/93	0.2 L	0.2 L	0.2 L	0.6	0.5 L	1.1	0.2 L	0.2 L
LB-26I	LB-060193-1	6/1/93	0.2 L	0.2 L	0.2 L	0.3	0.5 L	1.6	0.2 L	0.2 L
LB-26I	LB-092493-11	9/24/93	0.2 L	0.2 L	0.2 L	0.3	0.5 L	3.0	0.2 L	0.2 L
LB-26I	LB-092493-11	9/24/93	0.2 L	0.2 L	0.2 L	NT	NT	NT	0.2 L	NT
LB-26I	LB-121693-15	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.8	0.2 L	0.2 L
LB-26I	LB-032594-6	3/25/94	0.2 L	0.2 L	0.2 L	0.5 L	0.5 L	0.8	0.2 L	0.2 L
LB-26I	LB-062294-5	6/22/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.3 L	0.3 L	0.3 L
LB-26I	LB-090894-16	9/8/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	1.0	0.3 L	0.3 L
LB-26I	LB-121394-4	12/13/94	0.2 L	0.3 L	0.4 L	0.2 L	0.3 L	0.6	0.3 L	0.3 L
LB-26I	LB-031095-13	3/10/95	0.3 L	0.2 L	0.1 L	0.1 B	0.1 L	0.5	0.1 L	0.1 L
LB-26I	LB-061995-1	6/19/95	0.3 L	0.2 L	0.1 L	0.1 B	0.1 L	0.5	0.1 L	0.1 L
LB-26I	LB-092095-5	9/20/95	0.3 L	0.3 L	0.1 L	0.1 L	0.1 L	0.3	0.1 L	0.1 L
LB-26I	LB-122095-14	12/20/95	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L	0.1 L
LB-26I	LB-031996-1	3/19/96	0.3 L	0.2 L	0.1 L	0.1 L	0.1 L	0.7	0.1 L	0.1 L
LB-26I	LB-061896-1	6/18/96	0.1 L	0.1 L	0.0 L	0.2	0.1 L	0.5	0.2 L	0.1 L
LB-26I	LB-091896-10	9/18/96	0.1 L	0.1 L	0.0 L	0.2	0.1 L	0.8	0.2 L	0.1 L
LB-26I	LB-121796-5	12/17/96	0.1 L	0.1 L	0.0 L	0.2	0.1 L	0.1 L	0.2 L	0.1 L
LB-26I	LB-031997-4	3/19/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-061797-7	6/17/97	0.5 L	0.5 L	0.1	0.1	0.5 L	0.4	0.5 L	0.5 L
LB-26I	LB-091697-5	9/16/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-121697-7	12/16/97	0.1	0.1	0.1	0.5	0.5 L	0.5 L	0.6	0.5 L
LB-26I	LB-031998-8	3/19/98	0.5 L	0.5 L	0.1	0.1	0.5 L	0.4	0.5 L	0.5 L
LB-26I	LB-061698-8	6/16/98	0.1 L	0.1 L	0.1	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-26I	LB-091798-7	9/17/98	0.2 L	0.3 L	0.3 B	0.2 L	0.3 L	0.3	0.3 L	0.2 L
LB-26I	LB-121798-2	12/17/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-26I	LB-031799-1	3/17/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.4	0.3 L	0.2 L
LB-26I	LB-062399-10	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-26I	LB-121599-8	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-26I	LB-031700-12	3/17/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-061300-4	6/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L
LB-26I	LB-091200-5	9/12/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-121500-8	12/15/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-031301-6	3/13/01	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-26I	LB-031902-9	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-091802-4	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-031203-4	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-092203-4	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-022504-13	2/25/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-090104-26	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-030805-8	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-091405-5	9/14/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-031606-20	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-091206	9/12/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-030507-10	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-091907-5	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-031908-7	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-091608-6	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-26I	3/17/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LBLF26i091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-26I032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB26I092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-26I	LB-26I	3/23/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-26I	LB-090711-03	9/7/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-26I	LB-032212-21	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-26I	LB-091112-04	9/11/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-26I	LB-020613-14	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-26I	LB-082113-06	8/21/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-26I	LB-021714-06	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-26I (Dup)	LB-021714-07	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-26I	LB-081314-05	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-27D	LB-0892-4	8/27/92	0.2 L J	0.2 L J	0.2 L J	0.4 J	0.5 L J	0.3 L J	0.2 L J	0.2 L J
LB-27D	LB-92202-5	9/22/92	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	1.6 J	0.2 L	0.2 L
LB-27D	LB-121192-21	12/11/92	0.2 L	0.2	0.2 L	0.7	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-031193-16	3/11/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-060193-4	6/1/93	0.2 L	0.2 L	0.2 L	0.4	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-092493-16	9/24/93	0.2 L	0.2 L	0.2 L	NT	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-092493-16	9/24/93	0.2 L	0.2 L	0.2 L	0.4	NT	0.3 L	0.2 L	NT
LB-27D	LB-092493-17	9/24/93	0.2 L	0.2 L	0.2 L	NT	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-092493-17	9/24/93	0.2 L	0.2 L	0.2 L	0.4	NT	0.3 L	0.2 L	NT
LB-27D	LB-121693-17	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-121693-18	12/16/93	0.2 L	0.2 L	0.2 L	0.2 L	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-032494-4	3/24/94	0.2 L	0.2 L	0.2 L	0.4	0.5 L	0.3 L	0.2 L	0.2 L
LB-27D	LB-032494-5	3/24/94	0.2 L	0.2 L	0.2 L	0.5	0.5 L	0.3 L	0.2 L	0.2 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-27D	LB-062294-10	6/22/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-27D	LB-062294-9	6/22/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-27D	LB-090894-12	9/8/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-27D	LB-090894-13	9/8/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-27D	LB-121394-2	12/13/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-27D	LB-121394-3	12/13/94	0.2 L	0.3 L	0.4 L	0.4	0.3 L	0.3 L	0.3 L	0.3 L
LB-27D	LB-031095-8	3/10/95	0.3 L	0.2 L	0.1 L	0.4 B	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-031095-9	3/10/95	0.3	0.2 L	0.1 L	0.4 B	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-061995-4	6/19/95	0.3 L	0.2 L	0.1 L	0.4 B	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-061995-5	6/19/95	0.3 L	0.2 L	0.1 L	3.6 B	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-092095-1	9/20/95	0.3 L	0.3 L	0.1 L	0.4	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-092095-2	9/20/95	0.3 L	0.3 L	0.1 L	0.4	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-122095-17	12/20/95	0.3 L	0.2 L	0.1 L	0.4	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-122095-18	12/20/95	0.3 L	0.2 L	0.1 L	0.4	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-031996-3	3/19/96	0.3 L	0.2 L	0.1 L	0.4	0.1 L	0.1 L	0.1 L	0.1 L
LB-27D	LB-061896-4	6/18/96	0.1 L	0.1 L	0.0 L	0.5	0.1 L	0.1 L	0.2 L	0.1 L
LB-27D	LB-061896-5	6/18/96	0.1 L	0.1	0.0 L	0.5	0.1 L	0.1 L	0.2 L	0.1 L
LB-27D	LB-091796-9	9/17/96	0.1 L	0.1 L	0.0 L	0.5	0.1 L	0.1 L	0.2 L	0.1 L
LB-27D	LB121796-8	12/17/96	0.1 L	0.1	0.0 L	0.6	0.1 L	0.1 L	0.2 L	0.1 L
LB-27D	LB-031997-12	3/19/97	0.5 L	0.5 L	0.5 L	0.4	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-061797-11	6/17/97	0.5 L	0.1	0.5 L	0.4	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-091697-8	9/16/97	0.5 L	0.5 L	0.5 L	0.4	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-121797-13	12/17/97	0.5 L	0.5 L	0.5 L	0.3	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-031998-12	3/19/98	0.5 L	0.1	0.5 L	0.3	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-061798-10	6/17/98	0.1 L	0.1 L	0.0 L	0.3	0.1 L	0.1 L	0.2 L	0.1 L
LB-27D	LB-091798-8	9/17/98	0.2 L	0.3 L	0.2 L	0.3	0.3 L	0.2 L	0.3 L	0.2 L
LB-27D	LB-121798-6	12/17/98	0.2 L	0.3 L	0.2 L	0.2	0.3 L	0.2 L	0.3 L	0.2 L
LB-27D	LB-031899-9	3/18/99	0.2 L	0.3 L	0.2 L	0.3	0.3 L	0.2 L	0.3 L	0.2 L
LB-27D	LB-062399-7	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-27D	LB-091599-1	9/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-27D	LB-121599-7	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-27D	LB-031600-3	3/16/00	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-061300-3	6/13/00	0.5 L	0.5 L	0.5 L	0.3 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-091300-8	9/13/00	0.5 L	0.5 L	0.5 L	0.3 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-091300-9	9/13/00	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-121500-5	12/15/00	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-031301-3	3/13/01	0.5 L	0.5 L	0.5 L	0.3 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-031902-11	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-031203-3	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-27D	LB-022604-15	2/26/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D (Dup)	LB-022604-16	2/26/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-030805-6	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-031606-17	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-030507-9	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-031908-5	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D (Dup)	LB-031908-6	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-27D	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-27D032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27D	LB-27D	3/25/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-27D	LB-031212-02	3/12/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-27D	LB-020713-21	2/7/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-27D	LB-021814-13	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-27I	LB-0892-3	8/27/92	0.8 J	0.5 J	0.2 L J	2.1 J	0.5 L J	1.6 J	0.9 J	0.2 J
LB-27I	LB-92292-4	9/22/92	1.1	0.6	0.2 L	1.9	0.5 L	1.5	1.2	0.2 L
LB-27I	LB-121192-20	12/11/92	0.9	0.5	0.2 L	2.4	0.5 L	0.3 L	1.6	0.2
LB-27I	LB-031293-21	3/12/93	0.9	0.5	0.2 L	1.3	0.5 L	0.8	1.7	0.2 L
LB-27I	LB-060193-2	6/1/93	0.7	0.4	0.2 L	1.0	0.5 L	1.3	1.0	0.2 L
LB-27I	LB-092493-14	9/24/93	NT	NT	0.2 L	0.7	0.5 L	NT	0.4	0.2 L
LB-27I	LB-092493-14	9/24/93	0.5	0.2	0.2 L	NT	NT	1.2	NT	NT
LB-27I	LB-092493-15	9/24/93	NT	0.2	0.2 L	0.7	0.5 L	1.2	0.4	0.2 L
LB-27I	LB-092493-15	9/24/93	0.6	NT	0.2 L	NT	NT	NT	NT	NT
LB-27I	LB-121693-19	12/16/93	0.5	0.2 L	0.2 L	0.2 L	0.5 L	0.6	0.5	0.2 L
LB-27I	LB-121693-20	12/16/93	0.5	0.2	0.2 L	0.2 L	0.5 L	0.6	0.5	0.2 L
LB-27I	LB-032494-3	3/24/94	0.6	0.3	0.2 L	1.0	0.5 L	0.3 L	1.2	0.2 L
LB-27I	LB-062294-8	6/22/94	0.5	0.3 L	0.4 L	0.9	0.3 L	0.3 L	1.0	0.3 L
LB-27I	LB-090894-11	9/8/94	0.5	0.3 L	0.4 L	1.0	0.3 L	0.5	1.0	0.3 L
LB-27I	LB-121394-1	12/13/94	0.6	0.3 L	0.4 L	0.6	0.3 L	0.3 L	0.6	0.3 L
LB-27I	LB-031095-7	3/10/95	0.7	0.3	0.1	0.6 B	0.1 B	0.3	0.5	0.1 L
LB-27I	LB-061995-3	6/19/95	0.7	0.2	0.1	0.6 B	0.1 L	0.5	0.2	0.1 L
LB-27I	LB-092095-3	9/20/95	0.3	0.3 L	0.1	0.3	0.1 L	0.7	0.2	0.1 L
LB-27I	LB-122095-16	12/20/95	0.3	0.2 L	0.1 L	0.1 L	0.1 L	0.8	0.1 L	0.1 L
LB-27I	LB-031996-4	3/19/96	0.4	0.2 L	0.1 B	0.3	0.1 L	1.4	0.1 L	0.1 L
LB-27I	LB-061896-3	6/18/96	0.2	0.1 L	0.2	0.1 L	0.1 L	2.0	0.3	0.1 L
LB-27I	LB-091796-7	9/17/96	0.4	0.2	0.1	1.1	0.1 L	2.6	0.3	0.2
LB-27I	LB-091796-8	9/17/96	0.1 L	0.1	0.1	1.2	0.1 L	2.9	0.3	0.4
LB-27I	LB121796-6	12/17/96	0.2	0.1	0.2	0.7	0.1 L	1.7	0.2 L	0.1
LB-27I	LB121796-7	12/17/96	0.2	0.1	0.2	0.6	0.1 L	1.6	0.2 L	0.1
LB-27I	LB-031997-10	3/19/97	0.5 L	0.5 L	0.2	0.2	0.5 L	0.8	0.5 L	0.5 L
LB-27I	LB-031997-11	3/19/97	0.5 L	0.5 L	0.2	0.2	0.5 L	0.8	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-271	LB-061797-9	6/17/97	0.5 L	0.5 L	0.1	0.2	0.5 L	1.0	0.5 L	0.5 L
LB-271	LB-061797-9	6/17/97	0.5 L	0.5 L	NT	NT	0.5 L	1.1	0.5 L	0.5 L
LB-271	LB-091697-6	9/16/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-091697-7	9/16/97	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-121797-11	12/17/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.2	0.5 L	0.5 L
LB-271	LB-121797-12	12/17/97	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.4	0.5 L	0.5 L
LB-271	LB-031998-10	3/19/98	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.3	0.5 L	0.5 L
LB-271	LB-031998-11	3/19/98	0.5 L	0.5 L	0.1	0.5 L	0.5 L	0.3	0.5 L	0.5 L
LB-271	LB-061798-11	6/17/98	0.1 L	0.1 L	0.1	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-271	LB-061798-12	6/17/98	0.1 L	0.1 L	0.1	0.1 L	0.1 L	0.1 L	0.2 L	0.1 L
LB-271	LB-091798-10	9/17/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-091798-9	9/17/98	0.2 L	0.3 L	0.2 B	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-121798-4	12/17/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-121798-5	12/17/98	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-031899-7	3/18/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-031899-8	3/18/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-062399-8	6/23/99	0.2 L	0.3 L	0.2 L	0.2 L	0.3 L	0.2 L	0.3 L	0.2 L
LB-271	LB-091599-2	9/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-271	LB-121599-6	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-271	LB-031600-1	3/16/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-031600-2	3/16/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-061300-1	6/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L
LB-271	LB-061300-2	6/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-091300-10	9/13/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L
LB-271	LB-121500-6	12/15/00	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.2 J	0.5 L	0.5 L
LB-271	LB-031301-4	3/13/01	0.3 J	0.5 L	0.5 L	0.3 J	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-031902-10	3/19/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-091802-5	9/18/02	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-031203-1	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-031203-2	3/12/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-092203-2	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-092203-3	9/22/03	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-022604-17	2/26/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-090104-27	9/1/04	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB030805-5	3/8/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-091405-3	9/14/05	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-031606-18	3/16/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-091206-2	9/12/06	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-030507-8	3/5/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-271	LB-0919-07-4	9/19/07	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	PCE	TCE	1,4-DCB	1,1-DCA	1,1,1-TCA	Chloroethane	cis-1,2-DCE	Chlorobenzene
LB-27I	LB-031908-4	3/19/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27I	LB-091608-7	9/16/08	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27I	LB-27I	3/18/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27I	LBLF27i091109	9/11/09	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27I	LB-27I032410	3/24/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27I	LB-27I092310	9/23/10	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L
LB-27I	LB-27I	3/25/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-27I	LB-090711-01	9/7/11	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-27I	LB-032212-18	3/22/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-27I	LB-091112-02	9/11/12	0.1 L	0.1 L	0.2 L	0.1 L	0.1 L	0.25 L	0.1 L	0.1 L
LB-27I	LB-020613-11	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-27I (Dup)	LB-020613-12	2/6/2013	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
LB-27I	LB-082113-03	8/21/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-27I (DUP)	LB-082113-04	8/21/2013	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.18 J	0.16 L	0.11 L
LB-27I	LB-021814-14	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
LB-27I	LB-081314-03	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	LB-021814-09	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	LB-081314-02	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	Trip Blank	2/17/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	Trip Blank	2/18/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	Trip Blank	2/19/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	Trip Blank	8/13/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
FIELDQC	Trip Blank	8/14/14	0.15 L	0.13 L	0.16 L	0.14 L	0.14 L	0.17 L	0.16 L	0.11 L
Notes:										
PCE = tetrachloroethene; TCE = trichloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; 1,1-DCA = 1,1-dichloroethane; 1,1-DCB = 1,1,-dichlorobenzene; 1,4-DCB = 1,4-dichlorobenzene; cis-1,2-DCE = cis-1,2-dichloroethene; NT = not tested; J = estimated concentration; B = analyte detected above the MDL but below the MRL; L = not detected at or above MRL; Dup = field duplicate sample; Re = resample.										

**Inorganic Parameters (Nitrate, Cl, and TDS)
And Dissolved Metals (Fe and Mn)**

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-1D	LB-01D	6/2/87	234	4.0	4.7	NT	0.05 L	0.01 L
LB-1D	LB-01D	7/21/87	NT	5.0	4.5	NT	0.05 L	0.005 L
LB-1D	LB-01D	9/4/87	NT	5.0	2.6	NT	0.05 L	0.01 L
LB-1D	LB-01D	11/6/87	NT	5.9	4.7	NT	0.05 L	0.01 L
LB-1D	LB-01D	2/9/88	224	5.0	4.5	NT	0.05 L	0.01 L
LB-1D	LB-01D	6/22/88	214	5.0	3.8	NT	0.05 L	0.05 L
LB-1D	LB-01D	8/30/88	250	5.0	4.6	NT	0.05 L	0.01 L
LB-1D	LB-01D	9/1/88	206	5.0	4.5	NT	0.05 L	0.01 L
LB-1D	LB-01D	12/5/88	193	5.4	4.2	NT	0.01 L	0.01 L
LB-1D	LB-289-W04	2/28/89	210	5.0	4.5	NT	0.01 L	0.01 L
LB-1D	LB-589-W03	5/23/89	212	6.3	4.9	NT	0.05 L	0.01 L
LB-1D	LB-989-W16	9/12/89	168	4.0	5.0	NT	0.02 L	0.005 L
LB-1D	LB-1089-W01	10/17/89	188	4.2	4.5	161	0.05 L	0.005 L
LB-1D	LB-1189-W04	11/14/89	141	5.5	4.9	150	0.02 L	0.005 L
LB-1D	LB-1289-W22	12/19/89	174	5.0	4.6	NT	NT	NT
LB-1D	LB-390-W09	3/14/90	204	5.3	4.7	143	NT	NT
LB-1D	LB-690-W11	6/20/90	195	4.9	4.8	180	NT	NT
LB-1D	LB-990-W08	9/14/90	187	5.3	4.8	196	NT	NT
LB-1D	LB-1290-W06	12/11/90	203	5.5	4.7	125	NT	NT
LB-1D	LB-391-W11	3/20/91	202	5.2	4.6	187	NT	NT
LB-1D	LB-691-W06	6/26/91	200	5.0	4.5	157	NT	NT
LB-1D	LB-991-06	9/24/91	176	5.1	4.4	172	NT	NT
LB-1D	LB-1291-14	12/23/91	201	4.3	4.6	162	NT	NT
LB-1D	LB-392-14	3/23/92	197	5.5	4.6	163	NT	NT
LB-1D	LB-63092-2	6/30/92	196	4.7	5.7	167	NT	NT
LB-1D	LB-92292-3	9/22/92	201	5.1	4.7	160	NT	NT
LB-1D	LB-121192-16	12/11/92	204	5.9	4.7	176	NT	NT
LB-1D	LB-031093-3	3/10/93	199	5.7	4.2	169	NT	NT
LB-1D	LB-060293-6	6/2/93	199	5.5	4.3	156	NT	NT
LB-1D	LB-092393-8	9/23/93	187	5.5	4.3	163	NT	NT
LB-1D	LB-121593-2	12/15/93	170	6.1	4.6	163	NT	NT
LB-1D	LB-032494-2	3/24/94	208	5.8	4.6	159	NT	NT
LB-1D	LB-062194-1	6/21/94	171	5.6	4.4	167	NT	NT
LB-1D	LB-090694-2	9/6/94	186	5.1	5.1	172	NT	NT
LB-1D	LB-121494-12	12/14/94	168	5.1	4.9	147	NT	NT
LB-1D	LB-030995-02	3/9/95	160	5.8	4.6	171	NT	NT
LB-1D	LB-062095-13	6/20/95	184	5.8	5.4	145	NT	NT
LB-1D	LB-092295-14	9/22/95	239	6.1	4.6	128	NT	NT
LB-1D	LB-121995-6	12/19/95	196	6.1	5.3	162	NT	NT
LB-1D	LB-032096-18	3/20/96	193	6.0	5.2	177	NT	NT
LB-1D	LB-061896-10	6/18/96	174	6.1	5.2	169	NT	NT
LB-1D	LB-091796-6	9/17/96	190	6.6	5.1	160	0.02 L	0.005 L
LB-1D	LB121796-2	12/17/96	214	6.4	5.3	183	0.02 L	0.005 L
LB-1D	LB-031997-4	3/19/97	174	7.0	5.8	183	0.02 L	0.005 L
LB-1D	LB-061797-4	6/17/97	214	6.2	5.2	183	0.02 L	0.005 L
LB-1D	LB-091697-1	9/16/97	208	6.5	5.3	185	0.02 L	0.005 L
LB-1D	LB-121697-4	12/16/97	206	6.7	5.7	173	0.02 L	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-1D	LB-031998-4	3/19/98	227	7.1	6.2	184	0.02 L	0.005 L
LB-1D	LB-061698-6	6/16/98	158	6.7	6.1	184	0.02 L	0.005 L
LB-1D	LB-091798-3	9/17/98	224	6.7	5.7	196	0.02 L	0.005 L
LB-1D	LB-121898-10	12/18/98	178	7.4	6.3	201	0.02	0.005 L
LB-1D	LB-031799-4	3/17/99	182	7.4	6.1	161	0.02 L	0.005 L
LB-1D	LB-062399-15	6/23/99	187	7.2	6.2	187	0.02 L	0.005 L
LB-1D	LB-091799-11	9/17/99	204	7.6	6.0	157	0.02 L	0.005 L
LB-1D	LB-121699-12	12/16/99	190	6.9	5.6	178	0.02 L	0.005 L
LB-1D	LB-031700-16	3/17/00	180	7.0	5.8	170	0.02 L	0.005 L
LB-1D	LB-061300-8	6/13/00	190	7.3	6.0	184	0.01 B	0.005 L
LB-1D	LB-091100-2	9/11/00	215	7.6	6.4	192	0.02 L	0.005 L
LB-1D	LB-121500-10	12/15/00	219	7.0	5.7	146	0.02 L	0.005 L
LB-1D	LB-031501-15	3/15/01	NT	7.2	5.9	180	0.02 L	0.005 L
LB-1D	LB-031501-16	3/15/01	NT	7.0	5.9	166	0.02 L	0.005 L
LB-1D	LB-031902-02	3/19/02	NT	6.9	5.9	159	0.02 L	0.005 L
LB-1D	LB-031303-12	3/13/03	NT	6.6	5.7	198	0.02 L	0.005 L
LB-1D	LB-022404-1	2/24/04	NT	6.7	5.6	188	0.07	0.006
LB-1D	LB030905-13	3/9/05	NT	6.7	5.5	224	0.02 L	0.005 L
LB-1D	LB-031406-1	3/14/06	NT	6.0	5.3	168	0.02 L	0.005 L
LB-1D (Dup)	LB-031406-2	3/14/06	NT	6.1	5.3	144	0.02 L	0.005 L
LB-1D	LB-030507-2	3/5/07	NT	6.1	5.6	194	0.02 L	0.005 L
LB-1D	LB-032408-15	3/24/08	NT	6.6	5.7	154	0.02 L	0.005 L
LB-1D	LB-1D	3/17/09	NT	7.0	5.9	147	0.02 L	0.005 L
LB-1D	LB-1D032310	3/23/10	NT	6.39	6.14	162	0.02 L	0.005 L
LB-1D	LB-1D	3/28/11	220	7.49	5.87	195	0.025 L	0.002 L
LB-1D	LB-031312-13	3/13/12	NT	7.4	6.0	190	0.025 L	0.002 L
LB-1D	LB-020513-07	2/5/13	NT	7.6	6.0	160	0.036	0.0058
LB-1D	LB-021914-17	2/19/14	NT	7.7	6.0	200	0.025 L	0.0020 L
LB-1S	LB-01S	5/11/87	602	16.0	1.1	NT	0.05 L	0.031
LB-1S	LB-01S	7/21/87	NT	20.0	2.7	NT	0.05 L	0.006
LB-1S	LB-01S	9/4/87	NT	15.0	1.8	NT	0.05 L	0.01 L
LB-1S	LB-01S	11/6/87	NT	14.0	3.3	NT	0.05 L	0.01 L
LB-1S	LB-01S	2/11/88	410	15.0	2.3	NT	0.05 L	0.01 L
LB-1S	LB-01S	6/22/88	496	20.0	2.0	NT	0.05 L	0.05 L
LB-1S	LB-01S	8/30/88	478	18.0	3.3	NT	0.05 L	0.01 L
LB-1S	LB-01S	12/5/88	348	17.0	3.5	NT	0.01 L	0.01 L
LB-1S	LB-289-W05	2/28/89	408	14.0	3.7	NT	0.29	0.01 L
LB-1S	LB-589-W04	5/23/89	510	22.0	3.8	NT	0.05 L	0.01 L
LB-1S	LB-989-W15	9/12/89	334	13.0	4.0	NT	0.20 L	0.005 L
LB-1S	LB-1289-W12	12/15/89	300	12.0	4.7	NT	NT	NT
LB-1S	LB-390-W10	3/14/90	388	13.6	4.7	152	NT	NT
LB-1S	LB-690-W10	6/20/90	526	17.8	4.0	302	NT	NT
LB-1S	LB-990-W06	9/14/90	531	20.2	3.8	325	NT	NT
LB-1S	LB-1290-W05	12/11/90	456	23.6	2.5	328	NT	NT
LB-1S	LB-391-W10	3/20/91	602	17.7	3.1	320	NT	NT
LB-1S	LB-691-W05	6/26/91	472	14.8	4.4	294	NT	NT

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-1S	LB-991-05	9/24/91	350	10.2	5.4	253	NT	NT
LB-1S	LB-1291-13	12/23/91	382	10.0	4.0	290	NT	NT
LB-1S	LB-392-15	3/23/92	421	13.0	4.0	287	NT	NT
LB-1S	LB-63092-1	6/30/92	367	10.0	5.7	259	NT	NT
LB-1S	LB-92292-2	9/22/92	367	11.0	5.0	252	NT	NT
LB-1S	LB-121192-15	12/11/92	378	12.0	5.0	246	NT	NT
LB-1S	LB-031093-4	3/10/93	675	17.0	1.8	388	NT	NT
LB-1S	LB-060293-5	6/2/93	616	12.0	3.5	388	NT	NT
LB-1S	LB-092393-9	9/23/93	487	15.0	3.9	309	NT	NT
LB-1S	LB-121593-1	12/15/93	382	17.0	4.2	291	NT	NT
LB-1S	LB-032494-1	3/24/94	591	20.0	3.3	373	NT	NT
LB-1S	LB-052194-4	6/21/94	463	14.0	5.1	305	NT	NT
LB-1S	LB-090694-1	9/6/94	481	15.0	5.4	369	NT	NT
LB-1S	LB-121494-11	12/14/94	499	16.0	5.2	357	NT	NT
LB-1S	LB-030995-01	3/9/95	330	14.0	7.1	296	NT	NT
LB-1S	LB-062095-12	6/20/95	410	12.0	8.8	307	NT	NT
LB-1S	LB-092295-13	9/22/95	494	19.0	7.0	248	NT	NT
LB-1S	LB-121995-5	12/19/95	422	17.0	8.0	291	NT	NT
LB-1S	LB-032096-17	3/20/96	488	21.0	6.8	312	NT	NT
LB-1S	LB-061896-9	6/18/96	325	15.0	9.1	275	NT	NT
LB-1S	LB-091796-5	9/17/96	377	15.0	8.7	303	0.02 L	0.005 L
LB-1S	LB121796-1	12/17/96	455	17.0	7.9	298	0.02 L	0.005 L
LB-1S	LB-031997-3	3/19/97	444	35.0	7.2	370	0.03	0.005 L
LB-1S	LB-061797-3	6/17/97	348	12.0	7.5	279	0.02 L	0.005 L
LB-1S	LB-091697-2	9/16/97	382	21.6	7.4	291	0.02 L	0.005 L
LB-1S	LB-121697-5	12/16/97	456	22.0	8.9	310	0.03	0.005 L
LB-1S	LB-031998-3	3/19/98	526	35.1	8.7	306	0.02 L	0.005 L
LB-1S	LB-061698-5	6/16/98	303	19.6	10.2	307	0.02 L	0.005 L
LB-1S	LB-091798-4	9/17/98	448	21.6	9.0	298	0.02	0.005 L
LB-1S	LB-121898-9	12/18/98	363	18.1	9.0	332	0.34	0.008
LB-1S	LB-031799-3	3/17/99	465	29.7	9.1	355	0.02	0.005 L
LB-1S	LB-062399-14	6/23/99	363	21.0	8.1	277	0.02 L	0.005 L
LB-1S	LB-091799-10	9/17/99	447	19.6	8.3	279	0.10	0.005 L
LB-1S	LB-091799-9	9/17/99	457	21.1	7.4	285	0.03	0.005 L
LB-1S	LB-121699-13	12/16/99	358	12.1	8.1	255	0.02 L	0.005 L
LB-1S	LB-031700-15	3/17/00	383	18.5	7.3	249	0.02 L	0.005 L
LB-1S	LB-061300-7	6/13/00	297	9.8	9.8	222	0.02 L	0.005 L
LB-1S	LB-091100-1	9/11/00	365	14.2	8.9	264	0.02 L	0.005 L
LB-1S	LB-121500-9	12/15/00	362	10.2	7.4	213	0.02 L	0.005 L
LB-1S	LB-031401-14	3/14/01	NT	8.6	9.8	227	0.02 L	0.005 L
LB-1S	LB-092001-6	9/20/01	NT	8.3	7.3	212	0.02 L	0.005 L
LB-1S	LB-031902-01	3/19/02	NT	7.5	4.3	206	0.02 L	0.005 L
LB-1S	LB-091802-01	9/17/02	NT	6.0	7.0	206	0.02 L	0.005 L
LB-1S	LB-031303-10	3/13/03	NT	5.2	4.7	216	0.02 L	0.005 L
LB-1S	LB-031303-11	3/13/03	NT	5.1	4.7	198	0.03	0.005 L
LB-1S	LB-092203-6	9/22/03	NT	4.5	5.2	208	2.32	0.069

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-1S	LB-022404-2	2/24/04	NT	4.4	4.0	184	0.12	0.005 L
LB-1S	LB-090104-1	9/1/04	NT	4.0	3.6	179	0.02 L	0.005 L
LB-1S (Dup)	LB-090104-30	9/1/04	NT	4.0	3.6	186	0.02 L	0.005 L
LB-1S	LB030905-14	3/9/05	NT	4.7	3.7	220	0.24	0.203
LB-1S	LB-091405-1	9/14/05	NT	5.0	4.4	148	0.02 L	0.005 L
LB-1S (Dup)	LB-091405-2	9/14/05	NT	5.0	4.5	188	0.02 L	0.005 L
LB-1S	LB-031406-3	3/14/06	NT	6.6	2.5	234	1.62	0.045
LB-1S	LB-091306-5	9/13/06	NT	4.6	5.0	174	0.02 L	0.005 L
LB-1S (Dup)	LB-091306-6	9/13/06	NT	4.6	5.0	176	0.104	0.005 L
LB-1S	LB-030507-1	3/5/07	NT	4.6	4.9	196	1.62	0.045
LB-1S	LB-091907-1	9/19/07	NT	4.6	4.6	168	0.02 L	0.005 L
LB-1S (Dup)	LB-091907-2	9/19/07	NT	4.6	4.7	187	0.104	0.005 L
LB-1S	LB-032408-14	3/24/08	NT	8.9	4.3	196	0.020 L	0.005 L
LB-1S	LB-091608-1	9/16/08	NT	5.2	5.6	209	0.024	0.005 L
LB-1S	LB-1S	3/17/09	NT	6.0	4.8	159	0.020 L	0.005 L
LB-1S	LBLF1S091109	9/11/09	NT	4.99	4.94	202	0.051	0.005 L
LB-1S	LB-1S032310	3/23/10	NT	6.53	4.08	201	0.020 L	0.005 L
LB-1S	LB-1092310	9/23/10	NT	6.96	6.21	185	0.020 L	0.005 L
LB-1S	LB-1S	3/24/11	248	5.92	5.70	220	0.025 L	0.002 L
LB-1S	LB-090811-07	9/8/11	NT	5.71	6.87	205	0.025 L	0.002 L
LB-1S	LB-031312-14	3/13/12	NT	5.2	6.0	210	0.025 L	0.002 L
LB-1S	LB-091212-08	9/12/12	NT	14	5.9	210	0.025 L	0.002
LB-1S	LB-020513-09	2/5/13	NT	7.9	6.3	200	0.025 L	0.0020 L
LB-1S	LB-082213-08	8/22/13	NT	13.0	8.7	250	0.025 L	0.0020 L
LB-1S	LB-021914-18	2/19/14	NT	19.0	3.9	240	0.025 L	0.0020 L
LB-1S (Dup)	LB-021914-19	2/19/14	NT	19.0	3.9	260	0.025 L	0.0020 L
LB-1S	LB-081414-09	8/14/14	NT	7.1	6.7	200	0.025 L	0.0020 L
LB-3D	LB-03D	5/28/87	270	8.0	4.3	NT	0.05 L	0.01 L
LB-3D	LB-03D	7/17/87	NT	8.0	4.1	NT	0.05 L	0.005 L
LB-3D	LB-03D	9/8/87	NT	8.0	2.2	NT	0.05 L	0.05 L
LB-3D	LB-03D	11/6/87	NT	8.2	4.9	NT	0.05 L	0.01 L
LB-3D	LB-1189-W01	11/13/89	176	5.5	5.0	179	0.02 L	0.005 L
LB-3D	LB-1289-W20	12/18/89	206	6.2	4.8	173	0.02 L	0.005 L
LB-3D	LB-032097-14	3/20/97	204	5.3	6.2	196	0.02 L	0.005 L
LB-3D	LB-032098-21	3/20/98	236	5.2	7.3	175	0.02 L	0.005 L
LB-3D	LB-031899-15	3/18/99	193	5.2	7.7	182	0.03	0.005 L
LB-3D	LB-031600-9	3/16/00	199	4.7	8.0	222	0.02 L	0.005 L
LB-3D	LB-031501-17	3/15/01	NT	5.2	7.6	171	0.02 L	0.005 L
LB-3D	LB-032002-18	3/20/02	NT	5.6	6.7	157	0.02 L	0.005 L
LB-3D	LB-031303-14	3/13/03	NT	4.1	5.5	181	0.02 L	0.005 L
LB-3D	LB-022404-5	2/24/04	NT	3.3	4.4	164	0.02 L	0.005 L
LB-3D	LB-030905-15	3/9/05	NT	3.2	4.1	169	0.02 L	0.005 L
LB-3D	LB-031606-21	3/16/06	NT	3.0	4.2	122	0.02 L	0.005 L
LB-3D	LB-030507-4	3/5/07	NT	3.2	4.4	156	0.02 L	0.005 L
LB-3D (Dup)	LB-030507-5	3/5/07	NT	3.2	4.4	161	0.02 L	0.005 L
LB-3D	LB-032408-17	3/24/08	NT	3.3	4.2	145	0.02 L	0.005 L
LB-3D	LB-3D	3/18/09	NT	3.5	4.5	147	0.02 L	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-3D	LB-3D032410	3/24/10	NT	3.60	5.76	152	0.02 L	0.005 L
LB-3D	LB-3D	3/28/11	210	4.23	5.05	201	0.025 L	0.002 L
LB-3D	LB-031312-09	3/13/12	NT	4.1	4.6	180	0.025 L	0.002 L
LB-3D	LB-020713-18	2/7/13	NT	4.4	4.5	170	0.025 L	0.0020 L
LB-3D	LB-021914-22	2/19/14	NT	4.6	4.7	200	0.025 L	0.0020 L
LB-3S	LB-03S	5/11/87	308	9.0	1.9	NT	0.05 L	0.01
LB-3S	LB-03S	7/16/87	NT	7.0	2.1	NT	0.05 L	0.005 L
LB-3S	LB-03S	9/4/87	NT	7.0	1.5	NT	0.05 L	0.01 L
LB-3S	LB-03S	11/5/87	NT	6.4	3.4	NT	0.05 L	0.01 L
LB-3S	LB-1089-W02	10/17/89	192	4.0	4.0	193	0.05 L	0.005 L
LB-3S	LB-1189-W02	11/13/89	160	4.5	4.1	144	0.02	0.005 L
LB-3S	LB-1289-W11	12/15/89	190	5.0	4.0	176	0.03	0.064
LB-3S	LB-390-W11	3/14/90	218	5.3	3.8	164	NT	NT
LB-3S	LB-690-W06	6/19/90	212	4.7	3.7	148	NT	NT
LB-3S	LB-990-W10	9/14/90	213	4.9	3.6	219	NT	NT
LB-3S	LB-1290-W08	12/12/90	377	4.6	3.5	194	NT	NT
LB-3S	LB-391-W07	3/20/91	217	4.5	3.4	150	NT	NT
LB-3S	LB-691-W10	6/11/91	226	4.9	3.3	188	NT	NT
LB-3S	LB-991-16	9/26/91	250	4.6	2.4	193	NT	NT
LB-3S	LB-1291-06	12/20/91	333	4.5	3.3	186	NT	NT
LB-3S	LB-392-10	3/20/92	230	4.4	3.3	195	NT	NT
LB-3S	LB-62692-8	6/26/92	253	4.9	2.6	204	NT	NT
LB-3S	LB-91792-3	9/17/92	266	4.4	2.9	205	NT	NT
LB-3S	LB-121092-14	12/10/92	273	4.3	3.2	202	NT	NT
LB-3S	LB-031593-25	3/15/93	309	4.7	2.7	218	NT	NT
LB-3S	LB-060393-14	6/3/93	296	4.5	2.6	214	NT	NT
LB-3S	LB-092393-1	9/23/93	278	4.2	3.0	212	NT	NT
LB-3S	LB-121593-5	12/15/93	255	4.1	3.1	212	NT	NT
LB-3S	LB-032594-11	3/25/94	281	3.8	3.0	204	NT	NT
LB-3S	LB-062394-13	6/23/94	276	4.1	2.9	208	NT	NT
LB-3S	LB-090794-8	9/7/94	235	3.3	3.3	213	NT	NT
LB-3S	LB-121494-13	12/14/94	274	3.6	2.5	215	NT	NT
LB-3S	LB-031395-20	3/13/95	267	3.9	3.4	214	NT	NT
LB-3S	LB-062095-14	6/20/95	259	3.7	3.8	221	NT	NT
LB-3S	LB-092095-11	9/20/95	328	3.9	3.7	202	NT	NT
LB-3S	LB-121995-4	12/19/95	272	5.0	4.2	206	NT	NT
LB-3S	LB-032096-21	3/20/96	254	5.1	4.3	199	NT	NT
LB-3S	LB-061996-11	6/19/96	257	4.5	4.4	213	NT	NT
LB-3S	LB-032097-13	3/20/97	211	3.6	5.0	207	0.30	0.008
LB-3S	LB-032098-20	3/20/98	228	3.1	4.4	185	0.02 L	0.005 L
LB-3S	LB-031899-14	3/18/99	159	3.1	4.0	154	0.02 L	0.005 L
LB-3S	LB-031600-8	3/16/00	148	2.4	4.4	169	0.02	0.007
LB-3S	LB-031501-18	3/15/01	NT	3.2	4.6	148	0.02 L	0.005 L
LB-3S	LB-032002-17	3/20/02	NT	3.7	4.8	155	0.02 L	0.005 L
LB-3S	LB-031303-13	3/13/03	NT	3.1	4.1	220	0.02 L	0.005 L
LB-3S	LB-022404-6	2/24/04	NT	2.7	3.3	159	4.59	0.07
LB-3S	LB-030905-16	3/9/05	NT	2.7	2.7	163	0.10	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-3S	LB-031606-22	3/16/06	NT	2.4	2.5	134	0.02 L	0.005 L
LB-3S	LB-030507-3	3/5/07	NT	2.7	2.9	160	0.02 L	0.005 L
LB-3S	LB-032408-18	3/24/08	NT	2.8	3.2	145	0.02 L	0.005 L
LB-3S	LB-3S	3/18/09	NT	3.3	3.3	162	0.02 L	0.005 L
LB-3S	LB-3S032310	3/23/10	NT	2.83	3.56	144	0.02 L	0.005 L
LB-3S	LB-3S	3/28/11	214	3.40	3.63	188	0.025 L	0.002 L
LB-3S	LB-031312-10	3/13/12	NT	3.7	3.8	170	0.025 L	0.002 L
LB-3S	LB-020713-17	2/7/13	NT	4.1	4.3	180	0.025 L	0.0020 L
LB-3S	LB-021914-22	2/19/14	NT	3.7	4.0	180	0.025 L	0.0020 L
LB-4D	LB-04D	5/29/87	52.2	4.0	2.8	NT	0.05 L	0.01 L
LB-4D	LB-04D	6/22/87	180	2.0	2.9	NT	0.27	0.016
LB-4D	LB-04D	7/17/87	NT	2.0	3.0	NT	0.05 L	0.005 L
LB-4D	LB-04D	9/8/87	NT	2.0	1.5	NT	0.05 L	0.01 L
LB-4D	LB-04D	11/9/87	NT	2.8	0.6	NT	0.05 L	0.01 L
LB-4D	LB-04D	2/9/88	176	3.0	3.2	NT	0.05 L	0.01 L
LB-4D	LB-04D	6/21/88	162	1.0	2.8	NT	0.05 L	0.05 L
LB-4D	LB-04D	8/29/88	166	2.0	3.2	NT	0.05 L	0.01 L
LB-4D	LB-04D	12/5/88	153	2.6	2.8	NT	0.01 L	0.01 L
LB-4D	LB-289-W02	2/27/89	158	2.0	2.9	NT	0.01 L	0.01 L
LB-4D	LB-589-W02	5/22/89	169	2.4	3.6	NT	0.05 L	0.01 L
LB-4D	LB-989-W27	9/15/89	143	1.4	3.0	NT	0.02 L	0.005 L
LB-4D	LB-1289-W06	12/14/89	121	1.8	2.9	96	NT	NT
LB-4D	LB-390-W01	3/13/90	160	2.2	3.0	105	0.02 L	0.005 L
LB-4D	LB-690-W01	6/19/90	201	1.8	3.0	120	0.02 L	0.005 L
LB-4D	LB-990-W02	9/13/90	154	2.1	3.2	165	0.02	0.005 L
LB-4D	LB-1290-W01	12/11/90	188	2.0	3.0	93	0.02 L	0.005 L
LB-4D	LB-391-W27	3/21/91	152	1.9	3.0	146	0.03 L	0.005 L
LB-4D	LB-691-W02	6/26/91	158	1.7	2.9	134	0.04 L	0.005 L
LB-4D	LB-991-01	9/24/91	153	2.7	3.1	122	0.02 L	0.005 L
LB-4D	LB-1291-02	12/19/91	166	1.9	2.9	132	0.02 L	0.005 L
LB-4D	LB-392-02	3/19/92	161	1.9	2.9	118	0.02 L	0.005 L
LB-4D	LB-62692-2	6/26/92	155	4.9	3.8	129	0.02 L	0.005 L
LB-4D	LB-91792-5	9/17/92	151	2.0	3.1	110	0.02	0.005 L
LB-4D	LB-12992-3	12/9/92	150	2.1	3.2	111	0.02 L	0.005 L
LB-4D	LB-030993-2	3/9/93	157	1.8	2.8	103	0.02 L	0.005 L
LB-4D	LB-060493-17	6/4/93	149	1.9	2.9	119	0.02 L	0.005 L
LB-4D	LB-092393-3	9/23/93	157	2.4	3.1	117	0.02 L	0.005 L
LB-4D	LB-121693-11	12/16/93	130	2.4	3.2	132	0.02 L	0.005 L
LB-4D	LB-032594-10	3/25/94	151	2.1	3.0	119	0.02 L	0.005 L
LB-4D	LB-062794-18	6/27/94	107	2.0	3.0	112	0.02 L	0.005 L
LB-4D	LB-090894-20	9/8/94	154	1.9	3.0	128	0.02 L	0.007
LB-4D	LB-121494-15	12/14/94	146	1.8	3.1	122	0.07	0.005 L
LB-4D	LB-031395-22	3/13/95	137	1.7	3.2	126	0.02 L	0.005 L
LB-4D	LB-092295-21	9/22/95	169	2.1	2.9	92	0.02	0.005 L
LB-4D	LB-122795-21	12/27/95	41	1.0	0.2 L	47	2.82	0.078
LB-4D	LB-032796-22	3/27/96	30	1.0	0.5	31	0.92	0.036
LB-4D	LB-070996-21	7/9/96	116	2.1	3.2	132	0.02 L	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-4D	LB-091896-15	9/18/96	164	2.3	3.7	15	0.02 L	0.005 L
LB-4D	LB121896-15	12/18/96	153	1.9	3.5	133	0.02 L	0.009
LB-4D	LB-031797-2	3/17/97	114	2.2	3.7	131	0.02 L	0.005 L
LB-4D	LB-061697-2	6/16/97	149	2.2	3.5	123	0.02 L	0.005 L
LB-4D	LB-091697-9	9/16/97	139	2.2	3.7	147	0.02 L	0.005 L
LB-4D	LB-121597-2	12/15/97	147	2.1	3.8	127	0.02	0.005 L
LB-4D	LB-031898-1	3/18/98	156	2.3	3.8	103	0.02 L	0.005 L
LB-4D	LB-061598-2	6/15/98	145	2.1	4.1	135	0.02 L	0.005 L
LB-4D	LB-091698-2	9/16/98	160	2.2	4.1	126 B	0.02 L	0.005 L
LB-4D	LB-121898-14	12/18/98	130	2.4	3.9	147	0.03	0.005 L
LB-4D	LB-031999-21	3/19/99	125	2.5	3.9	165	0.02 L	0.005 L
LB-4D	LB-062299-2	6/22/99	124	2.4	3.9	112	0.02 L	0.005 L
LB-4D	LB-091699-8	9/16/99	152	2.4	3.7	120	0.02 L	0.005 L
LB-4D	LB-121499-1	12/14/99	150	2.3	3.8	119	0.02 L	0.005 L
LB-4D	LB-031700-20	3/17/00	131	2.4	3.6	86	0.02 L	0.005 L
LB-4D	LB-061400-12	6/14/00	187	4.8	4.8	185	0.02 L	0.005 L
LB-4D	LB-091200-7	9/12/00	150	2.2	4.0	121	0.02 L	0.005 L
LB-4D	LB-121300-4	12/13/00	168	2.2	4.0	124	0.05	0.005 L
LB-4D	LB-031301-1	3/13/01	NT	2.3	3.9	121	0.02 L	0.005 L
LB-4D	LB-031902-04	3/19/02	NT	2.5	4.1	107	0.02 L	0.005 L
LB-4D	LB-031902-05	3/19/02	NT	2.5	4.1	104	0.02 L	0.005 L
LB-4D	LB-031303-18	3/13/03	NT	2.5	4.3	88	0.02 L	0.005 L
LB-4D	LB031005-23	3/10/05	NT	2.3	4.5	145	0.02 L	0.005 L
LB-4D	LB-031506-11	3/15/06	NT	2.3	4.8	130	0.02 L	0.005 L
LB-4D	LB-030607-22	3/6/07	NT	2.6	5.7	137	0.02 L	0.005 L
LB-4D	LB-032408-19	3/24/08	NT	2.7	6.3	126	0.02 L	0.005 L
LB-4D	LB-4D	3/18/09	NT	3.0	6.4	125	0.02 L	0.005 L
LB-4D	Dup-2	3/18/09	NT	3.0	6.4	134	0.02 L	0.005 L
LB-4D	LB-4D032310	3/23/10	NT	2.90	7.17	134	0.02 L	0.005 L
LB-4D	LB-4D	3/22/11	180	3.23	6.20	169 H	0.025 L	0.002 L
LB-4D	LB-031312-11	3/13/12	NT	3.6	7.1	140	0.025 L	0.002 L
LB-4D	LB-020413-01	2/4/13	NT	4.5	8.2	180	0.025 L	0.0020 L
LB-4D	LB-021814-11	2/18/14	NT	4.7	8.7	150	0.025 L	0.0020 L
LB-4S(R)	LB-090894-21	9/8/94	208	7.6	4.9	240	0.02 L	0.005 L
LB-4S(R)	LB-121494-14	12/14/94	161	4.1	2.4	224	0.22	0.027
LB-4S(R)	LB-031395-21	3/13/95	140	3.6	3.8	182	0.02 L	0.005 L
LB-4S(R)	LB-092295-19	9/22/95	250	12.0	7.1	186	0.02	0.005 L
LB-4S(R)	LB-122795-20	12/27/95	62	1.4	0.5	81	0.24	0.018
LB-4S(R)	LB-032796-23	3/27/96	52	1.2	0.5	71	0.08	0.005 L
LB-4S(R)	LB-070996-20	7/9/96	168	8.1	7.2	248	0.02 L	0.005 L
LB-4S(R)	LB-091896-14	9/18/96	216	9.0	8.1	182	0.02 L	0.005 L
LB-4S(R)	LB121896-14	12/18/96	224	6.7	7.0	168	0.02 L	0.005 L
LB-4S(R)	LB-031797-1	3/17/97	180	5.6	6.8	193	0.26	0.026
LB-4S(R)	LB-061697-1	6/16/97	202	4.9	6.1	176	0.02 L	0.005 L
LB-4S(R)	LB-091697-10	9/16/97	182	4.7	5.4	175	0.02 L	0.005 L
LB-4S(R)	LB-121597-1	12/15/97	202	4.6	5.0	161	0.02	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-4S(R)	LB-031898-2	3/18/98	222	6.0	9.3	165	0.02 L	0.005 L
LB-4S(R)	LB-061598-1	6/15/98	219	5.8	9.0	196	0.02 L	0.005 L
LB-4S(R)	LB-091698-1	9/16/98	213	5.7	6.3	174	0.02 L	0.005 L
LB-4S(R)	LB-121898-13	12/18/98	160	6.8	4.5	170	0.77	0.07
LB-4S(R)	LB-031999-20	3/19/99	186	7.5	6.4	127	0.03	0.005 L
LB-4S(R)	LB-062299-1	6/22/99	194	6.4	7.3	184	0.02 L	0.005 L
LB-4S(R)	LB-091699-7	9/16/99	212	6.4	5.1	172	0.02 L	0.005 L
LB-4S(R)	LB-121499-2	12/14/99	183	6.3	3.6	134	0.02 L	0.005 L
LB-4S(R)	LB-031700-19	3/17/00	190	4.5	3.8	172	0.24	0.029
LB-4S(R)	LB-061400-11	6/14/00	215	5.9	8.3	209	0.02 L	0.005 L
LB-4S(R)	LB-091200-6	9/12/00	194	6.2	5.2	169	0.02 L	0.005 L
LB-4S(R)	LB-121300-3	12/13/00	208	5.7	5.3	166	0.02 L	0.005 L
LB-4S(R)	LB-031301-2	3/13/01	NT	7.3	6.8	160	0.02 L	0.005 L
LB-4S(R)	LB-031902-03	3/19/02	NT	4.7	4.9	139	0.02 L	0.005 L
LB-4S(R)	LB-031303-17	3/13/03	NT	6.8	6.9	230	0.02	0.005 L
LB-4S(R)	LB031005-22	3/10/05	NT	7.2	8.1	204	0.40	0.012
LB-4S(R)	LB-031506-12	3/15/06	NT	4.1	7.2	196	0.44	0.040
LB-4S(R)	LB-030607-21	3/6/07	NT	8.1	16.6	217	0.02 L	0.005 L
LB-4S(R)	LB-032408-20	3/24/08	NT	3.0	5.4	174	0.02 L	0.005 L
LB-4S(R)	LB-4S	3/18/09	NT	5.0	3.9	174	0.02 L	0.005 L
LB-4S(R)	LB-4SR032310	3/23/10	NT	3.03	3.52	143	0.02 L	0.005 L
LB-4S(R)	LB-4SR	3/22/11	224	5.36	4.89	191 H	0.025 L	0.002 L
LB-4S(R)	LB-031312-12	3/13/12	NT	3.3	2.8	150	0.025 L	0.002 L
LB-4S(R)	LB-020413-02	2/4/13	NT	3.5	4.0	170	0.025 L	0.0034
LB-4S(R)	LB-021814-12	2/18/14	NT	2.7	3.0	130	0.025 L	0.0047
LB-5D	LB-05D	5/27/87	606	38.0	2.6	NT	0.05 L	1.5
LB-5D	LB-05D	7/20/87	NT	45.0	0.1	NT	0.05 L	0.016
LB-5D	LB-05D	9/10/87	NT	44.0	0.1	NT	0.05 L	0.01 L
LB-5D	LB-05D	11/11/87	NT	43.0	0.1	NT	0.05 L	0.01 L
LB-5D	LB-05D	2/10/88	624	41.0	0.1	NT	0.05 L	0.01 L
LB-5D	LB-05D	6/23/88	593	42.0	0.1	NT	0.05 L	0.05 L
LB-5D	LB-05D	8/31/88	616	43.0	0.1 L	NT	0.07	0.01 L
LB-5D	LB-05D	12/6/88	494	40.0	0.6	NT	0.01 L	0.01 L
LB-5D	LB-289-W03	3/1/89	548	40.0	0.2 L	NT	0.01 L	0.025
LB-5D	LB-589-W13	5/24/89	576	51.0	0.2 L	NT	0.05 L	0.01 L
LB-5D	LB-989-W11	9/8/89	460	38.0	0.2 L	NT	0.02 L	0.006
LB-5D	LB-1289-W24	12/19/89	470	40.0	0.2	325	NT	NT
LB-5D	LB-390-W16	3/15/90	562	39.8	0.2	368	NT	NT
LB-5D	LB-690-W14	6/20/90	550	39.4	0.2 L	367	NT	NT
LB-5D	LB-990-W15	9/18/90	545	37.8	0.2	394	NT	NT
LB-5D	LB-1290-W24	12/14/90	472	40.8	0.2	346	NT	NT
LB-5D	LB-391-W14	3/21/91	615	45.9	0.3	521	NT	NT
LB-5D	LB-691-W17	6/26/91	551	39.6	0.3	372	NT	NT
LB-5D	LB-991-08	9/25/91	580	42.1	0.2	336	NT	NT
LB-5D	LB-1291-11	12/20/91	527	37.7	0.3	336	NT	NT
LB-5D	LB-392-03	3/19/92	582	44.0	0.2 L	348	NT	NT
LB-5D	LB-63092-4	6/30/92	548	42.0	0.2	356	NT	NT

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
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Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-5D	LB-91892-2	9/18/92	549	44.0	0.2 L	351	NT	NT
LB-5D	LB-121092-11	12/10/92	562	45.0	0.2 L	NT	NT	NT
LB-5D	LB-031193-12	3/11/93	552	45.0	0.2	340	NT	NT
LB-5D	LB-060293-8	6/2/93	548	45.0	0.3	332	NT	NT
LB-5D	LB-092793-19	9/27/93	511	41.0	0.3	339	NT	NT
LB-5D	LB-121593-4	12/15/93	522	48.0	0.3	360	NT	NT
LB-5D	LB-032894-13	3/28/94	553	47.0	0.4	349	NT	NT
LB-5D	LB-062194-3	6/21/94	447	44.0	0.4	359	NT	NT
LB-5D	LB-090694-4	9/6/94	529	45.0	0.4	364	NT	NT
LB-5D	LB-121394-8	12/13/94	509	46.0	0.4	364	NT	NT
LB-5D	LB-030995-04	3/9/95	486	46.0	0.3	364	NT	NT
LB-5D	LB-61995-7	6/19/95	511	46.0	0.4	345	NT	NT
LB-5D	LB-092195-9	9/21/95	571	43.0	0.2 L	350	NT	NT
LB-5D	LB-121895-2	12/18/95	541	44.0	0.4	354	NT	NT
LB-5D	LB-031996-9	3/19/96	570	41.0	0.3	321	NT	NT
LB-5D	LB-061896-8	6/18/96	473	42.0	0.3	369	NT	NT
LB-5D	LB-031997-9	3/19/97	419	38.0	0.3	355	0.03	0.005 L
LB-5D	LB-031998-6	3/19/98	541	33.8	0.2 L	319	0.02	0.005 L
LB-5D	LB-031899-11	3/18/99	419	32.6	0.4	332	0.02	0.005 L
LB-5D	LB-031600-5	3/16/00	411	26.4	0.3	292	0.02 L	0.005 L
LB-5D	LB-031401-11	3/14/01	NT	25.1	0.3	278	0.02 L	0.005 L
LB-5D	LB-031902-13	3/19/02	NT	23.0	0.5	269	0.02 L	0.005 L
LB-5D	LB-031303-9	3/13/03	NT	20.0	0.8	256	0.02 L	0.005 L
LB-5D	LB-022504-7	2/25/04	NT	18.0	0.6	276	0.02 L	0.005 L
LB-5D (Dup)	LB-022504-8	2/25/04	NT	18.0	0.6	296	0.08	0.005 L
LB-5D	LB030805-1	3/8/05	NT	16.7	1.1	282	0.02 L	0.005 L
LB-5D	LB-031606-14	3/16/06	NT	17.0	0.6	324	0.03	0.005 L
LB-5D (Dup)	LB-031606-15	3/16/06	NT	16.9	0.6	344	0.02 L	0.005 L
LB-5D	LB-030507-7	3/5/07	NT	13.7	0.7	249	0.02 L	0.005 L
LB-5D	LB-031908-2	3/19/08	NT	13.3	1.0	242	0.02 L	0.005 L
LB-5D (Dup)	LB-031908-3	3/19/08	NT	13.3	1.0	225	0.02 L	0.005 L
LB-5D	LB-5D	3/17/09	NT	13.0	1.2	209	0.02 L	0.005 L
LB-5D	LB-5D032410	3/24/10	NT	11.3	1.7	228	0.02 L	0.005 L
LB-5D	LB-5D	3/23/11	328	10.8	0.78	238	0.025 L	0.002 L
LB-5D	LB-031212-03	3/12/12	NT	11	1.2	240	0.025 L	0.002 L
LB-5D	LB-020513-03	2/5/13	NT	9.3	0.68	210	0.025 L	0.0022
LB-5D	LB-021714-01	2/17/14	NT	9.3	0.74	230	0.025 L	0.0026
LB-5S	LB-05S	5/26/87	152	6.0	2.4	NT	0.07	0.007
LB-5S	LB-05S	7/19/87	NT	4.0	2.7	NT	0.05 L	0.005 L
LB-5S	LB-05S	9/10/87	NT	4.0	1.7	NT	0.05 L	0.01 L
LB-5S	LB-05S	11/11/87	NT	6.3	1.9	NT	0.05 L	0.01 L
LB-5S	LB-05S	2/10/88	149	5.0	2.7	NT	0.05 L	0.01 L
LB-5S	LB-390-W17	3/15/90	156	4.8	4.9	184	NT	NT
LB-5S	LB-690-W13	6/20/90	161	5.0	4.8	153	NT	NT
LB-5S	LB-990-W14	9/18/90	192	6.1	6.1	202	NT	NT
LB-5S	LB-1290-W25	12/14/90	207	7.4	5.8	148	NT	NT

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Dissolved Metals Concentrations (mg/L)
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Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-5S	LB-391-W17	3/21/91	1410	4.4	4.0	704	NT	NT
LB-5S	LB-691-W16	6/26/91	168	4.4	3.4	175	NT	NT
LB-5S	LB-991-09	9/25/91	211	6.8	7.7	161	NT	NT
LB-5S	LB-1291-10	12/20/91	126	2.7	2.9	122	NT	NT
LB-5S	LB-392-04	3/19/92	160	4.3	4.1	142	NT	NT
LB-5S	LB-63092-3	6/30/92	179	5.1	5.7	183	NT	NT
LB-5S	LB-91892-1	9/18/92	182	5.5	6.1	181	NT	NT
LB-5S	LB-121092-10	12/10/92	170	6.3	6.5		NT	NT
LB-5S	LB-031193-11	3/11/93	181	7.0	5.4	175	NT	NT
LB-5S	LB-060293-7	6/2/93	195	7.6	5.0	173	NT	NT
LB-5S	LB-092793-18	9/27/93	170	4.8	4.5	147	NT	NT
LB-5S	LB-121593-3	12/15/93	162	4.9	3.9	152	NT	NT
LB-5S	LB-032894-12	3/28/94	154	4.9	4.6	148	NT	NT
LB-5S	LB-062194-2	6/21/94	163	5.6	5.0	176	NT	NT
LB-5S	LB-090694-3	9/6/94	167	4.7	4.1	159	NT	NT
LB-5S	LB-121394-9	12/13/94	95	2.6	1.7	114	NT	NT
LB-5S	LB-030995-03	3/9/95	141	6.6	3.5	147	NT	NT
LB-5S	LB-061995-6	6/19/95	201	5.7	3.8	168	NT	NT
LB-5S	LB-092195-8	9/21/95	596	7.1	5.0	184	NT	NT
LB-5S	LB-121895-1	12/18/95	111	1.8	1.3	114	NT	NT
LB-5S	LB-031996-7	3/19/96	223	6.0	4.4	170	NT	NT
LB-5S	LB-061896-7	6/18/96	174	8.5	3.1	175	NT	NT
LB-5S	LB-031997-8	3/19/97	177	7.5	5.3	184	0.02	0.005 L
LB-5S	LB-031998-5	3/19/98	229	9.1	7.1	183	0.04	0.005 L
LB-5S	LB-031899-10	3/18/99	162	4.9	5.5	164	0.02 L	0.005 L
LB-5S	LB-031600-4	3/16/00	237	4.0	6.2	194	0.02 L	0.005 L
LB-5S	LB-031401-12	3/14/01	NT	4.3	4.7	159	0.02 L	0.005 L
LB-5S	LB-092001-1	9/20/01	NT	4.3	3.8	176	0.02 L	0.005 L
LB-5S	LB-031902-12	3/19/02	NT	3.1	2.7	137	0.02 L	0.005 L
LB-5S	LB-091802-06	9/17/02	NT	6.0	6.0	185	1.26	0.03
LB-5S	LB-031303-8	3/13/03	NT	4.1	3.7	138	0.02 L	0.005 L
LB-5S	LB-092203-1	9/22/03	NT	4.6	4.4	180	9.52	0.22
LB-5S	LB-022504-9	2/25/04	NT	4.0	2.7	159	14.80	0.407
LB-5S	LB-090104-5	9/1/04	NT	4.1	3.3	168	0.02 L	0.005 L
LB-5S	LB030805-2	3/8/05	NT	4.2	3.8	182	0.21	0.005 L
LB-5S (Dup)	LB030805-3	3/8/05	NT	4.0	3.6	186	0.05	0.005 L
LB-5S	LB-091405-4	9/14/05	NT	4.5	4.5	204	0.75	0.005 L
LB-5S	LB-031606-16	3/16/06	NT	3.5	3.6	192	0.02 L	0.005 L
LB-5S	LB-091206-1	9/12/06	NT	4.1	4.5	203	0.02 L	0.005 L
LB-5S	LB-030507-6	3/5/07	NT	3.6	4.5	169	0.02 L	0.005 L
LB-5S	LB-091907-3	9/19/07	NT	4.4	5.5	191	0.02 L	0.005 L
LB-5S	LB-031908-1	3/19/08	NT	4.9	5.2	186	0.14	0.005 L
LB-5S	LB-091608-2	9/16/08	NT	5.1	4.7	147	0.076	0.005 L
LB-5S (Dup)	LB-091608-8	9/16/08	NT	5.0	4.5	168	0.02 L	0.005 L
LB-5S	LB-5S	3/17/09	NT	6.1	5.3	159	0.092	0.005 L
LB-5S	LBLF5S091109	9/11/09	NT	4.42	3.91	164	0.707	0.0157

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Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
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Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-5S	LB-5S032410	3/24/10	NT	7.30	4.09	163	0.020 L	0.005 L
LB-5S (Dup)	LBDUP2032410	3/24/10	NT	5.61	3.31	151	0.020 L	0.005 L
LB-5S	LB5S092310	9/23/10	NT	3.86	4.58	158	0.020 L	0.005 L
LB-5S (Dup)	LB5S1092310	9/23/10	NT	3.91	4.61	151	0.020 L	0.005 L
LB-5S	LB-5S	3/23/11	222	5.07	5.15	184	0.025 L	0.002 L
LB-5S	LB-090811-06	9/8/11	NT	7.08	6.19	210	0.025 L	0.002 L
LB-5S	LB-032212-17	3/22/12	NT	4.1	3.7	160	0.025 L	0.002 L
LB-5S	LB-091112-01	9/11/12	NT	4.2	4.7	160	0.025 L	0.002 L
LB-5S	LB-020513-04	2/5/13	NT	4.0	3.5	150	0.025 L	0.0020 L
LB-5S	LB-082113-01	8/21/13	NT	3.9	4.8	150	0.025 L	0.0020 L
LB-5S	LB-021714-02	2/17/14	NT	4.1	3.6	150	0.025 L	0.0020 L
LB-5S	LB-081314-01	8/13/14	NT	3.9	3.7	160	0.025 L	0.0020 L
LB-6S	LB-06S	7/17/87	NT	18.0	2.5	NT	0.05 L	0.012
LB-6S	LB-06S	9/10/87	NT	NT	1.0	NT	0.05 L	0.01 L
LB-6S	LB-06S	11/11/87	NT	28.0	0.7	NT	0.05 L	0.01 L
LB-6S	LB-06S	2/12/88	692	35.0	1.1	NT	0.05 L	0.06
LB-6S	LB-06S	6/22/88	502	18.0	2.1	NT	0.05 L	0.05 L
LB-6S	LB-06S	8/31/88	586	27.0	2.0	NT	0.05 L	0.01 L
LB-6S	LB-06S	12/6/88	594	21.0	0.7	NT	0.02	0.073
LB-6S	LB-289-W13	3/1/89	655	28.0	2.5	NT	NT	NT
LB-6S	LB-289-W17	3/1/89	NT	NT	NT	NT	0.01	0.01 L
LB-6S	LB-589-W17	5/24/89	560	20.0	6.1	NT	0.05 L	0.01 L
LB-6S	LB-989-W07	9/7/89	500	32.0	1.0	NT	0.02 L	0.026
LB-6S	LB-1289-W13	12/15/89	680	34.0	0.6	462	0.02	0.078
LB-6S	LB-390-W24	3/15/90	616	17.0	2.3	376	0.03	0.923
LB-6S	LB-690-W22	6/21/90	597	24.0	1.1	401	0.02 L	0.039
LB-6S	LB-990-W11	11/21/90	713	31.1	0.8	604	0.02	0.35
LB-6S	LB-1290-W13	12/12/90	678	33.5	0.4	494	0.02 L	0.14
LB-6S	LB-391-W16	3/20/91	711	21.4	2.2	440	0.03 L	1.39
LB-6S	LB-691-W19	6/26/91	696	24.2	1.9	386	0.04 L	0.009
LB-6S	LB-691-W20	6/26/91	706	23.1	1.8	375	0.04 L	0.011
LB-6S	LB-991-14	9/25/91	676	28.2	0.8	392	0.02 L	0.017
LB-6S	LB-991-15	9/25/91	629	13.5	1.1	397	NT	NT
LB-6S	LB-1291-08	12/20/91	621	21.4	0.9	403	0.04 B	0.005 L
LB-6S	LB-1291-09	12/20/91	634	22.2	0.9	400	0.03 B	0.005 L
LB-6S	LB-392-07	3/20/92	497	16.0	2.8	333	0.02 L	0.537
LB-6S	LB-392-08	3/20/92	539	19.0	2.3	348	0.02 L	0.546
LB-6S	LB-62692-5	6/26/92	631	26.0	2.5	404	0.03	0.026
LB-6S	LB-62692-6	6/26/92	620	26.0	2.3	400	0.03	0.029
LB-6S	LB-92192-4	9/21/92	735	29.0	0.7	444	0.02	0.077
LB-6S	LB-92192-5	9/21/92	731	28.0	0.7	453	0.02	0.066
LB-6S	LB-12992-4	12/9/92	760	33.0	0.7	439	0.02 L	0.144
LB-6S	LB-12992-5	12/9/92	736	30.0	0.7	435	0.02 L	0.142
LB-6S	LB-030193-7	3/10/93	592	20.0	2.6	369	0.02 L	0.114
LB-6S	LB-030193-8	3/10/93	625	22.0	2.2	386	0.02 L	0.106
LB-6S	LB-060393-11	6/3/93	517	17.0	2.5	328	0.03	0.018
LB-6S	LB-060393-12	6/3/93	467	13.0	2.9	302	0.02 L	0.019

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-6S	LB-092493-13	9/24/93	529	19.0	3.7	328	0.02 L	0.025
LB-6S	LB-121593-6	12/15/93	580	27.0	2.1	393	0.02	0.077
LB-6S	LB-032994-18	3/29/94	391	12.0	3.7	256	0.02 L	0.052
LB-6S	LB-032994-19	3/29/94	450	15.0	3.4	306	0.02 L	0.038
LB-6S	LB-062394-11	6/23/94	509	21.0	3.1	347	0.02 L	0.013
LB-6S	LB-062394-12	6/23/94	477	20.0	3.2	358	0.02 L	0.013
LB-6S	LB-090694-5	9/6/94	563	19.0	3.6	366	0.02 L	0.054
LB-6S	LB-090694-6	9/6/94	496	19.0	3.5	360	0.04	0.054
LB-6S	LB-121394-6	12/13/94	475	19.0	3.4	316	0.52	0.124
LB-6S	LB-121394-7	12/13/94	485	19.0	3.4	335	0.20	0.093
LB-6S	LB-031095-10	3/10/95	307	5.3	2.3	217	0.04	0.005 L
LB-6S	LB-031095-11	3/10/95	282	8.2	2.3	196	0.06	0.006
LB-6S	LB-062095-10	6/20/95	397	16.0	4.3	290	0.02 L	0.005 L
LB-6S	LB-062095-9	6/20/95	386	14.0	4.4	234	0.02 L	0.005 L
LB-6S	LB-092095-6	9/20/95	530	20.0	4.3	313	0.02 L	0.005 L
LB-6S	LB-092095-7	9/20/95	518	21.0	4.3	308	0.02	0.005 L
LB-6S	LB-122095-12	12/20/95	407	10.0	3.2	289	0.03	0.005 L
LB-6S	LB-122095-13	12/20/95	448	12.0	3.3	286	0.02 L	0.005 L
LB-6S	LB-031996-5	3/19/96	316	6.2	3.3	222	0.02 L	0.005 L
LB-6S	LB-031996-6	3/19/96	326	5.4	3.6	226	0.02 L	0.005 L
LB-6S	LB-061996-12	6/19/96	NT	21.0	4.0	NT	NT	NT
LB-6S	LB-061996-13	6/19/96	451	23.0	3.8	320	0.03	0.005 L
LB-6S	LB-091896-12	9/18/96	426	22.0	2.4	280	0.02 L	0.005 L
LB-6S	LB-121796-3	12/17/96	460	20.0	1.5	312	0.02 L	0.005 L
LB-6S	LB-031997-7	3/19/97	360	26.0	3.8	318	0.03	0.005 L
LB-6S	LB-061797-6	6/17/97	578	30.0	1.3	349	0.02	0.005 L
LB-6S	LB-091697-3	9/16/97	436	28.6	1.3	364	0.02 L	0.005 L
LB-6S	LB-121797-14	12/17/97	516	22.5	3.2	340	0.16	0.005 L
LB-6S	LB-031998-7	3/19/98	628	22.6	4.9	388	0.03	0.005 L
LB-6S	LB-061698-7	6/16/98	422	30.8	2.6	375	0.02 L	0.005 L
LB-6S	LB-091798-5	9/17/98	625	22.0	3.5	372	0.03	0.005 L
LB-6S	LB-121798-1	12/17/98	519	28.0	5.1	407	0.03	0.005 L
LB-6S	LB-031799-2	3/17/99	521	25.1	3.7	389	0.03	0.005 L
LB-6S	LB-062399-11	6/23/99	443	20.6	2.1	323	0.03	0.005 L
LB-6S	LB-091699-5	9/16/99	557	26.1	3.0	350	0.03	0.005 L
LB-6S	LB-121599-11	12/15/99	518	23.8	4.9	324	0.02 L	0.005 L
LB-6S	LB-031700-10	3/17/00	397	23.0	4.9	295	0.02 L	0.008
LB-6S	LB-031700-11	3/17/00	407	25.4	5.2	328	0.02 L	0.005 L
LB-6S	LB-061300-6	6/13/00	445	28.4	4.6	318	0.01 B	0.005 L
LB-6S	LB-091200-3	9/12/00	441	29.8	4.2	313	0.02 L	0.005 L
LB-6S	LB-121200-1	12/12/00	578	31.7	3.3	352	0.02 L	0.005 L
LB-6S	LB-121200-2	12/12/00	585	35.5	2.9	338	0.02 L	0.0073
LB-6S	LB-031301-7	3/13/01	NT	36.8	3.0	326	0.02 L	0.006
LB-6S	LB-031301-8	3/13/01	NT	35.9	3.2	352	0.02 L	0.0055
LB-6S	LB-092001-5	9/20/01	NT	19.0	3.3	246	0.02 L	0.035
LB-6S	LB-032002-15	3/20/02	NT	17.7	4.3	291	0.02 L	0.005 L
LB-6S	LB-032002-16	3/20/02	NT	21.1	4.4	305	0.02 L	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
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Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-6S	LB-091802-02	9/17/02	NT	16.0	5.0	302	0.02 L	0.005 L
LB-6S	LB-091802-03	9/17/02	NT	16.0	5.0	306	0.02 L	0.005 L
LB-6S	LB-031303-21	3/13/03	NT	26.0	2.9	348	0.02 L	0.005 L
LB-6S	LB-092203-5	9/22/03	NT	11.9	2.7	274	0.13	0.014
LB-6S	LB-022604-18	2/26/04	NT	13.4	2.7	284	0.02 L	0.005 L
LB-6S	LB-090104-6	9/1/04	NT	9.6	2.1	268	0.02 L	0.005 L
LB-6S	LB030805-9	3/8/05	NT	13.0	1.6	328	0.02 L	0.017
LB-6S	LB-091405-6	9/14/05	NT	9.3	2.1	254	0.02 L	0.005 L
LB-6S	LB-031506-13	3/15/06	NT	5.1	2.4	132	0.02 L	0.005 L
LB-6S	LB-091206-4	9/12/06	NT	6.9	2.9	228	0.02 L	0.005 L
LB-6S	LB-030507-12	3/5/07	NT	5.6	2.7	238	0.02 L	0.005 L
LB-6S	LB-091907-6	9/19/07	NT	7.1	1.7	245	0.297	0.0369
LB-6S	LB-031908-9	3/19/08	NT	6.1	2.9	240	0.029	0.005 L
LB-6S	LB-091608-3	9/16/08	NT	5.7	1.4	222	0.02 L	0.005 L
LB-6S	LB-6S	3/18/09	NT	5.2	2.2	194	0.02 L	0.005 L
LB-6S	LBLF6S091109	9/11/09	NT	6.72	2.82	244	0.061	0.0059
LB-6S (Dup)	LBLFDUP1091109	9/11/09	NT	6.89	2.83	220	0.035	0.005 L
LB-6S	LB-6S032310	3/23/10	NT	6.64	3.53	194	0.024	0.005 L
LB-6S	LB6S092310	9/23/10	NT	5.67	2.60	192	0.379	0.031
LB-6S	LB-6S	3/22/11	248	6.29	2.79	218 H	0.025 L	0.00218
LB-6S (Dup)	DUP1	3/22/11	266	7.05	2.90	229 H	0.025 L	0.002 L
LB-6S	LB-090711-05	9/7/11	NT	9.09	0.73	178	0.025 L	0.002 L
LB-6S (Dup)	LB-090711-04	9/7/11	NT	8.97	0.73	177	0.025 L	0.002 L
LB-6S	LB-032212-23	3/22/12	NT	5.5	1.7	180	0.025 L	0.002 L
LB-6S (Dup)	LB-032212-22	3/22/12	NT	5.6	1.7	180	0.025 L	0.002 L
LB-6S	LB-091212-06	9/12/12	NT	5.5	0.78	160	0.025 L	0.002 L
LB-6S (Dup)	LB-091212-07	9/12/12	NT	9.8	0.75	160	0.025 L	0.002 L
LB-6S	LB-020613-15	2/6/13	NT	4.9	1.1	130	0.025 L	0.0020 L
LB-6S (Dup)	LB-020613-16	2/6/13	NT	8.0	1.0	150	0.028	0.0021
LB-6S	LB-082113-07	8/21/13	NT	3.7	1.5	150	0.025 L	0.0020 L
LB-6S	LB-021914-23	2/19/14	NT	4.9	1.1	170	0.025 L	0.0020 L
LB-6S	LB-081314-06	8/13/14	NT	2.4	0.89	140	0.025 L	0.0020 L
LB-6S (Dup)	LB-081314-07	8/13/14	NT	2.3	0.88	130	0.025 L	0.0020 L
LB10-DR	LB-031005-19	3/10/05	NT	26.8	0.7	428	1.03	0.879
LB10-DR (Dup)	LB-031005-20	3/8/05	NT	27.0	0.7	432	0.93	0.771
LB10-DR	LB-031406-5	3/14/06	NT	31.3	0.6	492	0.763	0.417
LB10-DR	LB-030607-20	3/6/07	NT	24.9	0.9	332	0.022	0.197
LB10-DR	LB-032408-22	3/24/08	NT	28.3	0.8	320	0.02 L	0.155
LB10-DR	LB-10D	3/17/09	NT	26.8	1.0	286	0.032	0.0677
LB10-DR	LB10-DR032310	3/23/10	NT	23.9	1.1	295	0.047	0.0320
LB-10DR	LB-10DR	3/29/11	479	26.0	1.27	329	0.025 L	0.00696
LB-10DR	LB-0313012-07	3/13/12	NT	20	1.8	280	0.025 L	0.002 L
LB-10DR	LB-020713-19	2/6/13	NT	22	1.7	290	0.025 L	0.0020 L
LB-10DR	LB-021914-15	2/19/14	NT	15	2.3	260	0.025 L	0.0020 L
LB10-SR	LB031005-21	3/10/05	NT	3.8	9.8	272	0.13	2.050
LB10-SR	LB-091505-7	9/15/05	NT	4.6	6.5	506	1.04	0.0187

Table B-3
Groundwater Chemistry, Inorganic Parameters and
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Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB10-SR	LB-031406-6	3/14/06	NT	4.8	2.6	116	0.02 L	0.006
LB10-SR	LB-091306-9	9/13/06	NT	13.5	0.7	298	0.02 L	0.005 L
LB10-SR	LB-030607-19	3/6/07	NT	3.6	1.2	105	0.02 L	0.006
LB10-SR	LB-091907-7	9/19/07	NT	14.3	1.1	297	0.02 L	0.005 L
LB10-SR	LB-032408-21	3/24/08	NT	6.3	0.9	202	0.02 L	0.005 L
LB10-SR	LB-091608-4	9/16/08	NT	6.1	2.5	225	0.02 L	0.005 L
LB10-SR	LB-10S	3/17/09	NT	10.0	2.3	216	0.02 L	0.005 L
LB10-SR (Dup)	Dup-1	3/17/09	NT	10.6	2.3	207	0.02 L	0.005 L
LB10-SR	LBLF10S091190	9/11/09	NT	5.55	5.13	233	1.15	0.0138
LB10-SR	LB10-SR032310	3/23/10	NT	8.53	5.97	196	0.02 L	0.005 L
LB10-SR	LB10S092310	9/23/10	NT	3.90	2.80	176	0.02 L	0.005 L
LB-10SR	LB-10SR	3/29/11	341	15.30	1.53	270	0.025 L	0.002 L
LB-10SR (Dup)	DUP2	3/29/11	341	15.30	1.57	270	0.025 L	0.002 L
LB-10SR	LB-090811-08	9/8/11	NT	17.70	1.15	251	0.025 L	0.00205
LB-10SR	LB-031312-08	3/13/12	NT	26	1.8	330	0.025 L	0.0023
LB-10SR	LB-091212-09	9/12/12	NT	30	0.91	310	0.025 L	0.0033
LB-10SR	LB-020713-20	2/7/13	NT	32	1.1	290	0.025 L	0.0058
LB-10SR	LB-082213-09	8/22/13	NT	18	0.8	270	0.025 L	0.0025
LB-10SR	LB-021914-16	2/19/14	NT	8.1	2.5	240	0.025 L	0.0026
LB-10SR	LB-081414-08	8/14/14	NT	24	1.2	250	0.025 L	0.0023
LB-13D	LB-989-W20	9/13/89	199	6.0	4.0	244	0.02 L	0.05
LB-13D	LB-1089-W15	10/19/89	200	6.5	4.5	197	0.05 L	0.028
LB-13D	LB-1189-W20	11/16/89	176	6.0	4.7	91	0.02	0.014
LB-13D	LB-1289-W18	12/18/89	210	5.0	4.7	134	0.02 L	0.007
LB-13D	LB-390-W18	3/15/90	244	8.2	4.9	206	0.02 L	0.005 L
LB-13D	LB-690-W20	6/21/90	235	6.8	4.9	242	0.02 L	0.005 L
LB-13D	LB-990-W17	9/18/90	230	6.9	4.9	225	0.02	0.005 L
LB-13D	LB-1290-W20	12/13/90	238	6.8	4.8	160	0.02 L	0.005 L
LB-13D	LB-391-W15	3/20/91	241	6.4	4.8	179	0.03 L	0.005 L
LB-13D	LB-691-W22	6/26/91	314	6.3	4.4	258	NT	NT
LB-13D	LB-991-13	9/25/91	248	6.1	5.0	183	NT	NT
LB-13D	LB-1291-19	12/23/91	243	5.1	4.9	186	NT	NT
LB-13D	LB-392-19	3/24/92	246	5.9	4.9	190	NT	NT
LB-13D	LB-7292-2	7/2/92	239	5.7	4.8	194	NT	NT
LB-13D	LB-91792-2	9/17/92	240	5.3	4.5	190	NT	NT
LB-13D	LB-121092-9	12/10/92	240	6.2	5.1	179	NT	NT
LB-13D	LB-031293-20	3/12/93	245	6.0	4.6	180	NT	NT
LB-13D	LB-060493-21	6/4/93	238	6.1	4.4	182	NT	NT
LB-13D	LB-092393-7	9/23/93	240	5.8	4.3	178	NT	NT
LB-13D	LB-121693-12	12/16/93	220	6.1	4.9	193	NT	NT
LB-13D	LB-032894-17	3/28/94	242	6.2	4.8	188	NT	NT
LB-13D	LB-052894-20	6/28/94	220	6.0	4.8	186	NT	NT
LB-13D	LB-090794-10	9/7/94	217	5.8	5.5	191	NT	NT
LB-13D	LB-121594-21	12/15/94	216	6.3	5.3	176	NT	NT
LB-13D	LB-031395-18	3/13/95	222	6.0	5.2	170	NT	NT
LB-13D	LB-062195-19	6/21/95	239	6.5	5.7	205	NT	NT

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Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-13D	LB-092295-16	9/22/95	299	6.5	5.8	165	NT	NT
LB-13D	LB-121995-8	12/19/95	249	6.9	6.4	185	NT	NT
LB-13D	LB-032096-15	3/20/96	262	6.6	6.8	200	NT	NT
LB-13D	LB-032096-16	3/20/96	253	6.6	6.7	178	NT	NT
LB-13D	LB-061996-16	6/19/96	267	7.0	7.1	224	NT	NT
LB-13D	LB-091796-4	9/17/96	261	7.8	7.2	201	0.02 L	0.005 L
LB-13D	LB121796-9	12/17/96	312	9.9	7.4	223	0.02 L	0.005 L
LB-13D	LB-032097-18	3/20/97	241	9.8	0.2 L	217	0.02 L	0.005 L
LB-13D	LB-061897-15	6/18/97	305	8.8	7.1	223	0.02 L	0.005 L
LB-13D	LB-091897-11	9/18/97	310	8.8	8.1	246	0.02 L	0.005 L
LB-13D	LB-121797-9	12/17/97	239	8.3	8.0	133	0.02	0.005 L
LB-13D	LB-032098-19	3/20/98	296	7.8	7.9	207	0.05 B	0.005 L
LB-13D	LB-061798-14	6/17/98	242	7.6	8.4	210	0.02 L	0.005 L
LB-13D	LB-091898-15	9/18/98	277	7.0	7.8	172	0.02 L	0.005 L
LB-13D	LB-121898-12	12/18/98	223	7.1	8.1	245	0.02	0.005 L
LB-13D	LB-031999-23	3/19/99	219	6.5	7.6	207	0.02	0.005 L
LB-13D	LB-062399-12	6/23/99	222	6.7	7.6	198	0.02	0.005 L
LB-13D	LB-091799-13	9/17/99	246	7.2	7.5	176	0.02 L	0.005 L
LB-13D	LB-121499-3	12/14/99	243	6.3	7.4	161	0.02 L	0.005 L
LB-13D	LB-031700-18	3/17/00	210	6.0	6.8	200	0.02 L	0.005 L
LB-13D	LB-061400-10	6/14/00	215	5.9	7.8	222	0.02 L	0.005 L
LB-13D	LB-091300-11	9/13/00	231	6.0	7.5	204	0.02 L	0.005 L
LB-13D	LB-121500-12	12/15/00	233	5.2	7.5	165	2.06	0.0053
LB-13D	LB-031501-19	3/15/01	NT	5.2	7.1	170	0.02 L	0.005 L
LB-13D	LB-032002-20	3/20/02	NT	5.0	6.3	174	0.02 L	0.005 L
LB-13D	LB-031303-16	3/13/03	NT	4.3	5.8	224	0.02 L	0.005 L
LB-13D	LB-022404-3	2/24/04	NT	4.0	5.2	179	0.02 L	0.005 L
LB-13D	LB-031005-17	3/10/05	NT	3.8	4.9	190	0.02	0.005
LB-13D	LB-031506-9	3/15/06	NT	3.4	4.6	115	0.02 L	0.005 L
LB-13D	LB-030607-18	3/6/07	NT	3.6	5.0	118	0.02 L	0.005 L
LB-13D	LB-032008-13	3/20/08	NT	3.6	4.8	190	0.02 L	0.005 L
LB-13D	LB-13-D	3/17/09	NT	4.0	5.1	148	0.02 L	0.005 L
LB-13D	LB-13D032410	3/24/10	NT	3.59	5.4	167	0.02 L	0.005 L
LB-13D	LB-13D	3/25/11	214	4.36	5.3	193	0.025 L	0.002 L
LB-13D	LB-031212-01	3/12/12	NT	4.4	5.3	190	0.025 L	0.002 L
LB-13D	LB-020713-22	2/5/13	NT	5.0	5.1	170	0.025 L	0.0020 L
LB-13D	LB-021814-08	2/18/14	NT	4.6	4.9	150	0.025 L	0.0020 L
LB-13I	LB-989-W22	9/13/89	600	28.0	1.4	402	0.02 L	0.017
LB-13I	LB-989-W23	9/13/89	576	28.0	1.3	478	0.02 L	0.013
LB-13I	LB-1089-W17	10/17/89	600	33.0	1.3	460	0.05 L	0.012
LB-13I	LB-1189-W17	11/16/89	530	31.0	1.2	404	0.04	0.091
LB-13I	LB-1289-W16	12/18/89	596	34.0	0.8	377	0.02	0.009
LB-13I	LB-390-W19	3/15/90	704	40.0	0.2 L	462	0.02	0.009
LB-13I	LB-690-W19	6/21/90	695	38.4	0.3	481	0.02 L	0.018
LB-13I	LB-990-W16	9/18/90	703	40.5	0.6	491	0.02	0.012
LB-13I	LB-1290-W21	12/13/90	629	36.9	0.6	433	0.02 L	0.01

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Dissolved Metals Concentrations (mg/L)
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Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-13I	LB-391-W14	3/20/91	740	43.4	0.4	486	0.03 L	0.012
LB-13I	LB-691-W21	6/26/91	738	26.6	0.9	454	0.04 L	0.018
LB-13I	LB-991-12	9/25/91	765	35.3	0.6	444	0.02	0.016
LB-13I	LB-1291-18	12/23/91	707	32.9	0.2 L	347	0.10	0.047
LB-13I	LB-392-20	3/24/92	661	33.0	0.2 L	422	0.02 L	0.017
LB-13I	LB-7292-1	7/2/92	659	37.0	0.2 L	402	1.16	0.039
LB-13I	LB-91792-1	9/17/92	680	31.0	0.6	429	0.48	0.025
LB-13I	LB-121092-8	12/10/92	687	33.0	0.8	393	0.02 L	0.014
LB-13I	LB-031293-19	3/12/93	681	27.0	0.9	410	0.02 L	0.014
LB-13I	LB-060493-20	6/4/93	620	23.0	1.5	376	0.02 L	0.016
LB-13I	LB-092393-6	9/23/93	568	20.0	1.5	339	0.05	0.017
LB-13I	LB-121693-14	12/16/93	511	21.0	1.8	352	0.03	0.12
LB-13I	LB-032894-16	3/28/94	590	22.0	2.2	364	0.02 L	0.017
LB-13I	LB-052894-19	6/28/94	430	22.0	0.6	309	0.02 L	0.013
LB-13I	LB-090794-9	9/7/94	418	22.0	0.8	329	0.21	0.14
LB-13I	LB-121594-20	12/15/94	453	21.0	2.6	339	0.04	0.017
LB-13I	LB-031395-17	3/13/95	468	17.0	3.1	287	0.02	0.014
LB-13I	LB-061996-15	6/19/95	NT	NT	NT	NT	0.03	0.005 L
LB-13I	LB-052195-18	6/21/95	424	18.0	2.5	289	0.02 L	0.014
LB-13I	LB-092295-15	9/22/95	469	18.0	0.9	248	0.02	0.012
LB-13I	LB-121995-7	12/19/95	463	18.0	3.6	193	0.02 L	0.005 L
LB-13I	LB-032096-14	3/20/96	477	20.0	0.9	349	0.02	0.01
LB-13I	LB-061996-15	6/19/96	549	29.0	1.3	371	0.03 L	0.005 L
LB-13I	LB-091796-3	9/17/96	548	37.0	0.2 L	348	0.02 L	0.01
LB-13I	LB121796-10	12/17/96	708	52.0	0.2 L	418	0.02 L	0.013
LB-13I	LB-032097-19	3/20/97	579	70.0	0.2 L	458	0.02	0.014
LB-13I	LB-061897-14	6/18/97	729	63.0	0.2 L	462	0.03	0.019
LB-13I	LB-091897-12	9/18/97	814	68.1	0.2 L	514	0.02	0.021
LB-13I	LB-121797-8	12/17/97	578	63.0	0.2 L	444	0.03	0.021
LB-13I	LB-032098-18	3/20/98	695	58.8	0.3	428	0.02 L	0.02
LB-13I	LB-061798-15	6/17/98	624	66.4	0.2 L	444	0.03	0.02
LB-13I	LB-091898-14	9/18/98	763	62.4	0.3	394	0.03	0.022
LB-13I	LB-121898-11	12/18/98	616	32.4	3.2	464	0.04	0.022
LB-13I	LB-031999-22	3/19/99	582	51.1	0.5	457	0.03	0.022
LB-13I	LB-062399-13	6/23/99	576	44.7	0.3	389	0.02	0.02
LB-13I	LB-091799-12	9/17/99	626	44.6	0.2	383	0.03	0.021
LB-13I	LB-121499-4	12/14/99	637	29.2	2.6	357	0.02 L	0.022
LB-13I	LB-121499-5	12/14/99	634	30.0	2.6	378	0.02 L	0.022 L
LB-13I	LB-031700-17	3/17/00	552	28.1	0.8	392	0.02 L	0.02
LB-13I	LB-061400-9	6/14/00	525	29.3	0.5	372	0.02 L	0.02
LB-13I	LB-091300-12	9/13/00	680	42.7	2.7	417	0.02 L	0.0246
LB-13I	LB-121500-11	12/15/00	577	30.0	3.5	306	0.02 L	0.0284
LB-13I	LB-031501-20	3/15/01	NT	26.1	3.4	318	0.02 L	0.0252
LB-13I	LB-092001-8	9/20/01	NT	12.9	3.3	241	0.02 L	0.023
LB-13I	LB-032002-19	3/20/02	NT	10.2	4.7	219	0.02 L	0.016
LB-13I	LB-091802-07	9/17/02	NT	22.0	6.0	292	0.31	0.042

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-13I	LB-031303-15	3/13/03	NT	13.2	3.4	168	0.22	0.039
LB-13I	LB-092203-7	9/22/03	NT	13.7	2.9	272	0.15	0.052
LB-13I	LB-022404-4	2/24/04	NT	9.8	2.4	232	0.09	0.028
LB-13I	LB-090104-13	9/1/04	NT	7.0	1.8	232	0.03	0.024
LB-13I	LB031005-18	3/10/05	NT	7.2	2.7	232	0.02 L	0.006
LB-13I	LB-091505-9	9/15/05	NT	5.8	3.8	202	0.03	0.014
LB-13I	LB-031506-10	3/15/06	NT	4.9	4.2	152	0.02 L	0.007
LB-13I	LB-091306-8	9/13/06	NT	5.4	4.0	182	0.02 L	0.006
LB-13I	LB-030607-17	3/5/07	NT	5.5	3.2	170	0.02 L	0.006
LB-13I	LB-091907-8	9/19/07	NT	5.6	2.9	260	0.02 L	0.005 L
LB-13I	LB-032008-12	3/20/08	NT	6.6	3.4	207	0.02 L	0.0054
LB-13I	LB-091608-5	9/16/08	NT	7.0	3.9	193	0.02 L	0.005 L
LB-13I	LB-13I	3/17/09	NT	6.9	4.3	186	0.02 L	0.005 L
LB-13I	LBLF13i091109	9/11/09	NT	6.06	4.82	192	0.02 L	0.005 L
LB-13I	LB-13I032410	3/24/10	NT	5.53	5.21	193	0.02 L	0.005 L
LB-13I	LB13I092310	9/23/10	NT	5.24	5.31	196	0.02 L	0.005 L
LB-13I	LB-13I	3/23/11	270	5.56	4.58	202	0.025 L	0.00296
LB-13I	LB-090711-02	9/7/11	NT	5.99	4.53	204	0.025 L	0.002 L
LB-13I	LB-032212-19	3/22/12	NT	6.1	4.1	200	0.025 L	0.002 L
LB-13I (Dup)	LB-032212-20	3/22/12	NT	6.1	4.0	190	0.025 L	0.002 L
LB-13I	LB-091112-03	9/11/12	NT	12	4.4	220	0.025 L	0.002 L
LB-13I	LB-020613-13	2/7/13	NT	8.8	3.6	190	0.025 L	0.0031
LB-13I	LB-082113-05	8/21/13	NT	11.0	4.3	210	0.025 L	0.0020 L
LB-13I	LB-021814-10	2/18/14	NT	10.0	2.8	190	0.025 L	0.0034
LB-13I	LB-081314-04	8/13/14	NT	8.3	4.0	220	0.025 L	0.0041
LB-17D	LB-989-W08	9/7/89	640	46.0	0.2 L	518	0.33	9.73
LB-17D	LB-1089-W10	10/18/89	780	58.0	0.2 L	492	0.24	10.6
LB-17D	LB-1089-W11	10/18/89	780	60.0	0.2 L	508	0.25	10.7
LB-17D	LB-1189-W12	11/15/89	644	70.0	0.2 L	479	0.02 L	10.9
LB-17D	LB-1189-W13	11/15/89	682	70.0	0.2 L	465	0.32	10.8
LB-17D	LB-1289-W28	12/20/89	740	68.0	0.2 L	532	0.33	10.8
LB-17D	LB-390-W21	3/15/90	918	70.8	0.2 L	566	0.36	11.4
LB-17D	LB-390-W22	3/15/90	922	71.0	0.2 L	594	0.35	11.5
LB-17D	LB-690-W18	6/21/90	843	59.6	0.2 L	540	0.30	11
LB-17D	LB-990-W19	9/19/90	839	65.2	0.2 L	577	0.33	11.4
LB-17D	LB-990-W20	9/19/90	895	66.2	0.2 L	575	0.30	11.4
LB-17D	LB-1290-W23	12/14/90	945	65.6	0.2 L	538	0.19	11.3
LB-17D	LB-391-W19	3/21/91	870	56.2	0.2 L	653	0.21	10.9
LB-17D	LB-391-W21	3/21/91	1060	58.7	0.2 L	530	0.20	10.3
LB-17D	LB-691-W14	6/11/91	786	47.3	0.2 L	423	0.19	10.1
LB-17D	LB-691-W15	6/11/91	812	47.3	0.2 L	441	0.18	10.1
LB-17D	LB-991-10	9/25/91	895	58.5	0.2 L	489	0.26	10.4
LB-17D	LB-991-11	9/25/91	895	58.7	0.2 L	503	0.26	10.5
LB-17D	LB-1291-16	12/23/91	1020	19.6	0.2 L	593	0.44	13.3
LB-17D	LB-1291-17	12/23/91	1010	18.6	0.2 L	586	0.36	13.4
LB-17D	LB-392-11	3/23/92	934	68.0	0.2 L	570	0.34	12.6
LB-17D	LB-392-12	3/23/92	927	69.0	0.2 L	542	0.33	12.5

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-17D	LB-63092-5	6/30/92	842	58.0	0.2 L	522	0.20	11.6
LB-17D	LB-031093-6	3/10/93	712	52.0	0.2 L	432	0.18	9.57
LB-17D	LB-060493-22	6/4/93	682	44.0	0.2 L	422	0.28	9.41
LB-17D	LB-092793-21	9/27/93	719	48.0	0.2 L	424	0.25	9.54
LB-17D	LB-121593-7	12/15/93	769	59.0	0.2 L	461	0.25	9.86
LB-17D	LB-032994-20	3/29/94	695	51.0	0.2 L	425	0.25	9.75
LB-17D	LB-062394-14	6/23/94	646	43.0	0.1	401	0.20	8.21
LB-17D	LB-090794-7	9/7/94	659	39.0	0.3	390	0.17	8.57
LB-17D	LB-121494-10	12/14/94	534	41.0	0.2 L	367	0.24	8.45
LB-17D	LB-030995-05	3/9/95	511	36.0	0.2 L	366	0.21	7.62
LB-17D	LB-062095-11	6/20/95	595	44.0	1.8	377	0.20	8.37
LB-17D	LB-092095-10	9/20/95	854	55.0	0.2 L	416	0.25	9.96
LB-17D	LB-121895-3	12/18/95	611	52.0	0.2 L	394	0.25	8.75
LB-17D	LB-031996-11	3/19/96	662	43.0	0.2 L	342	0.27	8.63
LB-17D	LB-061996-14	6/19/96	593	47.0	0.2 L	387	0.22	8.59
LB-17D	LB-032097-16	3/20/97	512	50.0	0.2 L	345	0.20	7.63
LB-17D	LB-031998-14	3/19/98	540	37.2	0.2 L	340	0.25	7.09
LB-17D	LB-031899-13	3/18/99	390	19.2	0.3	304	0.17	5.62
LB-17D	LB-031600-7	3/16/00	363	16.0	0.2 L	246	0.13	4.98
LB-17D	LB-031401-9	3/14/01	NT	12.5	0.2 L	243	0.07	4.47
LB-17D	LB-031902-07	3/19/02	NT	9.4	0.2 L	192	0.02 L	3.89
LB-17D	LB-031203-7	3/12/03	NT	10.3	0.2 L	226	0.07	4.05
LB-17D	LB-022504-10	2/25/04	NT	10.9	0.2 L	208	0.06	3.76
LB-17D	LB-030905-10	3/9/05	NT	10.3	0.2 L	264	0.06	3.70
LB-17D	LB-031506-7	3/15/06	NT	8.8	0.2 L	184	0.07	3.71
LB-17D	LB-030607-14	3/6/07	NT	11.0	0.1 L	155	0.08	3.93
LB-17D (Dup)	LB-030607-15	3/6/07	NT	11.0	0.1 L	141	0.10	3.98
LB-17D	LB-032008-11	3/20/08	NT	10.1	0.1 L	205	0.078	4.04
LB-17D	LB-17D	3/18/09	NT	7.8	0.1 L	190	0.082	3.57
LB-17D	LB-17D032410	3/24/10	NT	5.8	0.1 L	185	0.090	3.66
LB-17D	LB-17D	3/22/11	277	7.97	0.1 L	209 H	0.0623	3.38
LB-17D	LB-031212-04	3/12/12	NT	19	0.1 L	230	0.12	4.6
LB-17D	LB-020513-05	2/5/13	NT	13	0.1 L	220	0.11	4.2
LB-17D	LB-021714-03	2/17/14	NT	10	0.1 L	230	0.11	4.1
LB-171	LB-989-W04	9/6/89	1020	85.0	0.2 L	770	45.70	13.3
LB-171	LB-1089-W14	10/19/89	1080	125.0	0.2 L	692	46.00	10.1
LB-171	LB-1189-W14	11/15/89	872	115.0	0.2 L	613	41.50	8.07
LB-171	LB-1289-W29	12/20/89	920	90.0	0.2	585	36.50	7.67
LB-171	LB-1289-W30	12/20/89	910	90.0	0.2	591	34.70	8
LB-171	LB-390-W20	3/15/90	724	26.9	0.2 L	484	29.30	4.01
LB-171	LB-690-W17	6/21/90	1140	96.0	0.2 L	766	48.50	6.74
LB-171	LB-990-W18	9/19/90	1090	92.0	0.2 L	710	37.30	8.09
LB-171	LB-1290-W22	12/13/90	967	38.4	0.2 L	666	41.50	7.17
LB-171	LB-391-W20	3/21/91	1240	36.6	0.2 L	663	46.40	6.14
LB-171	LB-392-13	3/23/92	1010	40.0	0.2 L	545	45.90	3.86
LB-171	LB-63092-6	6/30/92	1210	71.0	0.2 L	708	56.20	6.5
LB-171	LB-63092-7	6/30/92	1230	71.0	0.2 L	697	56.50	6.49

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-17I	LB-91892-3	9/18/92	1290	71.0	0.2 L	746	58.60	7.88
LB-17I	LB-91892-4	9/18/92	1380	74.0	0.2 L	781	59.90	7.73
LB-17I	LB-121192-18	12/11/92	1030	61.0	0.2 L	562	31.20	8.34
LB-17I	LB-121192-19	12/11/92	1040	62.0	0.2 L	544	31.30	8.51
LB-17I	LB-031093-5	3/10/93	896	51.0	0.2 L	501	32.30	7.34
LB-17I	LB-032994-21	3/29/94	719	35.0	0.2 L	450	25.90	4.89
LB-17I	LB-030995-06	3/9/95	562	27.0	0.2 L	361	21.00	3.58
LB-17I	LB-031996-10	3/19/96	869	48.0	0.2 L	484	27.00	1.82
LB-17I	LB-032097-17	3/20/97	557	56.0	0.2 L	366	16.60	1.08
LB-17I	LB-031998-13	3/19/98	464	30.8	0.2 L	284	14.00	0.913
LB-17I	LB-031899-12	3/18/99	418	18.4	0.2	297	14.40	0.987
LB-17I	LB-031600-6	3/16/00	304	12.8	0.2 L	220	8.90	0.776
LB-17I	LB-031401-10	3/14/01	NT	13.6	0.2 L	241	8.86	0.918
LB-17I	LB-031902-06	3/19/02	NT	15.8	0.2	252	8.96	1.1
LB-17I	LB-031203-6	3/12/03	NT	18.0	0.2	278	9.99	1.37
LB-17I	LB-022504-11	2/25/04	NT	18.0	0.2 L	242	8.73	1.12
LB-17I	LB-030905-11	3/9/05	NT	21.0	0.2	288	10.80	1.79
LB-17I	LB-031506-8	3/15/06	NT	22.8	0.2 L	344	12.00	1.59
LB-17I	LB-030607-13	3/6/07	NT	24.2	0.1 L	291	11.30	1.51
LB-17I	LB-032008-10	3/20/08	NT	19.2	0.1 L	221	8.5	1.3
LB-17I	LB-17I	3/18/09	NT	10.0	0.1 L	193	6.77	1.12
LB-17I	LB-17I032310	3/23/10	NT	11.8	0.1 L	217	8.44	1.52
LB-17I (Dup)	LBDUP1032310	3/23/10	NT	11.7	0.1 L	231	8.41	1.51
LB-17I	LB-17I	3/22/11	498	27.4	0.1 L	306 H	8.95	1.55
LB-17I	LB-031312-16	3/13/12	NT	12	0.1 L	240	6.8	0.98
LB-17I	LB-020513-06	2/5/13	NT	10	0.1 L	190	6.0	0.92
LB-17I	LB-021714-04	2/17/14	NT	12	0.1 L	230	7.2	1.10
LB-20S	LB-991-19	9/26/81	NT	NT	NT	NT	2.81	7.64
LB-20S	LB-1289-W36	12/21/89	600	27.0	0.2 L	470	0.09	2.14
LB-20S	LB-390-W12	3/14/90	1340	45.7	0.2 L	892	2.72	13.4
LB-20S	LB-690-W08	6/19/90	1250	42.6	0.2 L	880	21.70	13.2
LB-20S	LB-690-W09	6/19/90	1220	41.8	0.2 L	832	21.00	13.3
LB-20S	LB-990-W09	9/14/90	844	22.8	0.2 L	574	0.78	6.88
LB-20S	LB-1290-W10	12/12/90	983	4.1	0.2 L	682	0.17	9
LB-20S	LB-1290-W11	12/12/90	988	21.3	0.2 L	708	0.16	9.32
LB-20S	LB-391-W08	3/20/91	667	9.9	0.2 L	374	0.09	5.07
LB-20S	LB-691-W11	6/11/91	960	NT	NT	583	4.16	9.44
LB-20S	LB-991-19	9/26/91	NT	NT	NT	620	2.81	7.64
LB-20S	LB-1291-5	12/19/91	1160	NT	NT	667	0.63	9.69
LB-20S	LB-392-18	3/24/92	778	20.0	0.2 L	485	0.10	7.34
LB-20S	LB-031593-26	3/15/93	713	10.0	0.2 L	411	1.36	5.34
LB-20S	LB-031593-27	3/15/93	720	11.0	0.2 L	415	1.30	5.28
LB-20S	LB-032994-23	3/29/94	753	20.0	0.2 L	464	2.08	6.4
LB-20S	LB-031395-19	3/13/95	933	45.0	0.2	636	0.37	5.45
LB-20S	LB-032096-20	3/20/96	1020	42.0	0.2 L	620	6.06	7.49
LB-20S	LB-032097-15	3/20/97	625	46.0	0.2 L	459	25.60	3.98
LB-20S	LB-032098-23	3/20/98	467	39.0	0.2 L	297	15.90	1.83

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Lechner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-20S	LB-031899-16	3/18/99	279	13.8	0.3	210	11.80	1.28
LB-20S	LB-031700-14	3/17/00	279	14.6	0.2	228	10.60	1.53
LB-20S	LB-031401-13	3/14/01	NT	8.8	0.2 L	278	17.30	2.21
LB-20S	LB-032002-14	3/20/02	NT	3.3	0.2	283	2.07	2.09
LB-20S	LB-031303-20	3/13/03	NT	2.4	0.2 L	194	2.99	1.3
LB-20S	LB-022604-19	2/26/04	NT	2.9	0.2 L	236	0.41	1.01
LB-20S	LB-030905-12	3/9/05	NT	3.3	0.2	388	6.79	2.290
LB-20S	LB-031406-4	3/14/06	NT	2.1	0.2 L	148	0.16	0.026
LB-20S	LB-030607-16	3/6/07	NT	7.3	0.1 L	219	0.031	0.967
LB-20S	LB-032408-16	3/24/08	NT	7.9	0.1 L	186	0.08	1.22
LB-20S	LB-20S	3/18/09	NT	9.2	0.1 L	271	0.281	1.48
LB-20S	LB-20S032410	3/24/10	NT	3.0	0.1	237	0.027	0.34
LB-20S	LB-20S	3/24/11	544	22.1	0.1 L	361	0.368	2.20
LB-20S	LB-031312-15	3/13/12	NT	6.2	0.1 L	210	0.076	2.4
LB-20S	LB-020513-10	2/5/13	NT	17	0.1 L	340	0.18	3.5
LB-20S	LB-021914-20	2/19/14	NT	13	0.1 L	250	0.075	2.4
LB-26D	LB-031193-14	3/11/93	307	NT	4.7	226	0.02 L	0.024
LB-26D	LB-060193-3	6/1/93	290	NT	4.7	226	0.02 L	0.017
LB-26D	LB-092493-12	9/24/93	293	NT	5.3	216	0.02 L	0.009
LB-26D	LB-121693-16	12/16/93	285	NT	5.2	240	0.14	0.007
LB-26D	LB-032594-7	3/25/94	297	8.3	5.7	223	0.02 L	0.007
LB-26D	LB-062294-6	6/22/94	277	NT	5.4	226	0.03	0.005 L
LB-26D	LB-090894-15	9/8/94	296	NT	7.0	228	0.02 L	0.005 L
LB-26D	LB-121394-5	12/13/94	274	8.5	6.5	233	0.15	0.006
LB-26D	LB-031095-14	3/10/95	252	NT	6.2	199	0.02 L	0.005 L
LB-26D	LB-061995-2	6/19/95	270	NT	7.4	230	0.02 L	0.005 L
LB-26D	LB-092095-4	9/20/95	338	NT	7.5	218	0.00 L	0.005 L
LB-26D	LB-122095-15	12/20/95	325	NT	8.1	233	0.02 L	0.002 J
LB-26D	LB-031996-2	3/19/96	336	NT	8.7	241	0.02 L	0.005 L
LB-26D	LB-061896-2	6/18/96	281	NT	7.7 J	251	0.02	0.005 L
LB-26D	LB-091896-11	9/18/96	347	10.0	8.1	246	0.02 L	0.005 L
LB-26D	LB121796-4	12/17/96	391	12.0	7.9	272	0.02 L	0.005 L
LB-26D	LB-031997-6	3/19/97	306	14.0	8.4	284	0.03	0.005 L
LB-26D	LB-061797-8	6/17/97	379	12.0	7.6	256	0.02 L	0.005 L
LB-26D	LB-091697-4	9/16/97	307	12.8	8.2	251	0.02 L	0.005 L
LB-26D	LB-121697-6	12/16/97	331	12.0	9.3	244	0.02	0.005 L
LB-26D	LB-031998-9	3/19/98	358	11.8	10.0	251	0.02 L	0.005 L
LB-26D	LB-061698-9	6/16/98	247	11.5	9.2	260	0.02	0.005 L
LB-26D	LB-091798-6	9/17/98	324	10.2	8.8	230	0.02 L	0.005 L
LB-26D	LB-121798-3	12/17/98	264	10.3	9.7	272	0.02 L	0.005 L
LB-26D	LB-031899-6	3/18/99	252	10.7	8.9	241	0.02 L	0.005 L
LB-26D	LB-062399-9	6/23/99	251	9.8	9.3	235	0.02 L	0.005 L
LB-26D	LB-091699-3	9/16/99	282	9.3	9.1	234	0.02 L	0.005 L
LB-26D	LB-121599-9	12/15/99	278	8.0	9.0	191	0.04	0.005 L
LB-26D	LB-031700-13	3/17/00	236	7.5	8.4	209	0.02 L	0.005 L
LB-26D	LB-061300-5	6/13/00	240	7.6	9.5	206	0.02 L	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-26D	LB-091200-4	9/12/00	258	8.1	9.3	203	0.02 L	0.005 L
LB-26D	LB-121500-7	12/15/00	262	6.7	8.2	168	0.02 L	0.005 L
LB-26D	LB-031301-5	3/13/01	NT	6.6	8.1	198	0.02 L	0.005 L
LB-26D	LB-031902-8	3/19/02	NT	5.5	7.2	165	0.02 L	0.005 L
LB-26D	LB-031203-5	3/12/03	NT	4.7	6.0	216	0.02 L	0.005 L
LB-26D	LB-022504-12	2/25/04	NT	4.3	5.1	173	0.02 L	0.005 L
LB-26D	LB-030805-7	3/8/05	NT	4.0	4.8	170	0.02 L	0.005 L
LB-26D	LB-031606-19	3/16/06	NT	3.6	4.9	190	0.02 L	0.005 L
LB-26D	LB-030507-11	3/5/07	NT	4.1	5.3	145	0.02 L	0.005 L
LB-26D	LB-031908-8	3/19/08	NT	4.0	5.2	177	0.02 L	0.005 L
LB-26D	LB-26D	3/17/09	NT	4.3	5.9	144	0.02 L	0.005 L
LB-26D	LB-26D032410	3/24/10	NT	3.9	6.5	194	0.02 L	0.005 L
LB-26D	LB-26D	3/23/11	224	4.97	6.3	196	0.025 L	0.002 L
LB-26D	LB-031212-05	3/12/12	NT	4.8	5.9	190	0.025 L	0.0034
LB-26D	LB-020713-23	2/6/13	NT	5.1	5.5	180	0.025 L	0.0020 L
LB-26D	LB-021714-05	2/17/14	NT	5.2	5.5	190	0.025 L	0.0020 L
LB-26I	LB-121092-12	12/10/92	NT	NT	0.7	NT	0.03	0.075
LB-26I	LB-031193-13	3/11/93	638	NT	0.7	380	0.02 L	0.053
LB-26I	LB-060193-1	6/1/93	577	NT	1.0	352	0.02 L	0.027
LB-26I	LB-092493-11	9/24/93	587	NT	1.0	363	0.03	0.039
LB-26I	LB-121693-15	12/16/93	531	NT	0.8	377	0.03	0.031
LB-26I	LB-032594-6	3/25/94	528	NT	1.2	326	0.02 L	0.024
LB-26I	LB-062294-5	6/22/94	488	NT	1.2	329	0.03	0.028
LB-26I	LB-090894-16	9/8/94	519	NT	1.3	327	0.03	0.031
LB-26I	LB-121394-4	12/13/94	465	25.0	1.3	307	0.02 L	0.022
LB-26I	LB-031095-13	3/10/95	499	NT	1.1	311	0.02	0.023
LB-26I	LB-061995-1	6/19/95	434	NT	1.6	296	0.02	0.025
LB-26I	LB-092095-5	9/20/95	493	NT	1.8	274	0.03	0.026
LB-26I	LB-122095-14	12/20/95	458	NT	1.9	289	0.02 L	0.013
LB-26I	LB-031996-1	3/19/96	479	NT	1.7	302	0.02 L	0.02
LB-26I	LB-061896-1	6/18/96	387	NT	2.0 J	301	0.02	0.02
LB-26I	LB-091896-10	9/18/96	469	25.0	2.0	298	0.02 L	0.016
LB-26I	LB121796-5	12/17/96	498	24.0	2.2	323	0.02 L	0.014
LB-26I	LB-031997-5	3/19/97	424	30.0	3.0	329	0.04	0.014
LB-26I	LB-061797-7	6/17/97	525	30.0	2.3	323	0.02 L	0.018
LB-26I	LB-091697-5	9/16/97	436	33.4	2.1	312	0.02 L	0.019
LB-26I	LB-121697-7	12/16/97	647	26.8	3.0	444	0.03	0.032
LB-26I	LB-031998-8	3/19/98	605	34.3	3.6	379	0.02 L	0.013
LB-26I	LB-061698-8	6/16/98	406	35.7	2.7	356	0.02 L	0.015
LB-26I	LB-091798-7	9/17/98	557	34.2	2.4	304	0.03	0.014
LB-26I	LB-121798-2	12/17/98	456	35.1	2.8	368	0.04	0.013
LB-26I	LB-031799-1	3/17/99	456	33.7	2.9	347	0.02	0.014
LB-26I	LB-062399-10	6/23/99	361	22.6	5.1	280	0.02 L	0.008
LB-26I	LB-091699-4	9/16/99	535	32.9	2.2	340	0.03	0.013
LB-26I	LB-121599-8	12/15/99	499	30.7	2.9	293	0.02 L	0.01
LB-26I	LB-031700-12	3/17/00	445	28.9	2.4	298	0.02 L	0.011
LB-26I	LB-061300-4	6/13/00	440	30.0	2.6	342	0.02 L	0.01

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Lechner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-26I	LB-091200-5	9/12/00	470	26.8	2.7	304	0.02 L	0.0131
LB-26I	LB-121500-8	12/15/00	376	15.2	5.0	217	0.02 L	0.005 L
LB-26I	LB-031301-6	3/13/01	NT	18.3	2.8	284	0.02 L	0.0069
LB-26I	LB-092001-3	9/20/01	NT	15.3	3.4	251	0.02 L	0.011
LB-26I	LB-092001-4	9/20/01	NT	15.5	3.5	266	0.02 L	0.011
LB-26I	LB-031902-09	3/19/02	NT	13.0	3.2	230	0.02 L	0.006
LB-26I	LB-091802-04	9/17/02	NT	11.0	4.0	237	0.02 L	0.014
LB-26I	LB-031203-4	3/12/03	NT	10.0	2.6	238	0.02 L	0.008
LB-26I	LB-092203-4	9/22/03	NT	9.5	2.0	248	0.03	0.015
LB-26I	LB-022504-13	2/25/04	NT	8.3	2.5	192	0.02 L	0.005
LB-26I	LB-090104-26	9/1/04	NT	6.7	2.2	190	0.02 L	0.009
LB-26I	LB-030805-8	3/8/05	NT	8.5	2.3	206	0.02 L	0.006
LB-26I	LB-091405-5	9/14/05	NT	7.4	2.7	190	0.02 L	0.005 L
LB-26I	LB-031606-20	3/16/06	NT	7.1	2.7	230	0.02 L	0.009
LB-26I	LB-091206	9/12/06	NT	6.6	3.2	199	0.02 L	0.010
LB-26I	LB-030507-10	3/5/07	NT	6.7	2.6	193	0.02 L	0.009
LB-26I	LB-091907-5	9/19/07	NT	7.7	2.3	207	0.02 L	0.011
LB-26I	LB-031908-7	3/19/08	NT	10.1	2.1	213	0.02 L	0.011
LB-26I	LB-091608-6	9/16/08	NT	4.1	5.6	168	0.02 L	0.005 L
LB-26I	LB-26I	3/17/09	NT	11.6	2.5	202	0.02 L	0.0057
LB-26I	LB-26I	9/11/09	NT	4.05	5.85	173	0.02 L	0.005 L
LB-26I	LB-26I032410	3/24/10	NT	8.52	3.41	211	0.02 L	0.010
LB-26I	LB26092310	9/23/10	NT	7.71	3.76	229	0.02 L	0.010
LB-26I	LB-26I	3/23/11	226	7.97	3.71	226	0.025 L	0.00743
LB-26I	LB-090711--3	9/7/11	NT	6.22	5.02	200	0.0392	0.00356
LB-26I	LB-032212-21	3/22/12	NT	8.4	4.8	200	0.037	0.0026
LB-26I	LB-091112-04	9/11/12	NT	5.8	5.2	200	0.025 L	0.0020
LB-26I	LB-020613-14	2/6/13	NT	6.0	4.9	200	0.064	0.0020 L
LB-26I	LB-082113-06	8/21/13	NT	7.5	5.0	200	0.025 L	0.0020 L
LB-26I	LB-021714-06	2/17/14	NT	6.8	4.6	200	0.036	0.0020 L
LB-26I (Dup)	LB-021714-07	2/17/14	NT	6.9	4.6	200	0.025 L	0.0020 L
LB-26I	LB-081314-05	8/13/14	NT	6.5	5.1	190	0.025 L	0.0040
LB-27D	LB-031193-16	3/11/93	309	NT	1.6	217	0.02 L	0.034
LB-27D	LB-060193-4	6/1/93	302	NT	1.7	196	0.02 L	0.005 L
LB-27D	LB-092493-16	9/24/93	297	NT	1.9	205	0.02 L	0.005 L
LB-27D	LB-092493-17	9/24/93	296	NT	1.8	202	0.02 L	0.005 L
LB-27D	LB-121693-17	12/16/93	270	NT	2.0	235	0.04	0.005 L
LB-27D	LB-121693-18	12/16/93	282	NT	1.9	225	0.02	0.005 L
LB-27D	LB-032494-4	3/24/94	290	NT	0.2 L	210	0.02 L	0.005 L
LB-27D	LB-032494-5	3/24/94	293	NT	0.2 L	209	0.02 L	0.005 L
LB-27D	LB-062294-10	6/22/94	291	NT	1.9	219	0.02 L	0.005 L
LB-27D	LB-062294-9	6/22/94	284	NT	1.9	214	0.02 L	0.005 L
LB-27D	LB-090894-12	9/8/94	303	NT	2.3	214	0.02 L	0.005 L
LB-27D	LB-090894-13	9/8/94	299	NT	2.1	214	0.02 L	0.005 L
LB-27D	LB-121394-2	12/13/94	264	12.0	1.9	215	0.02 L	0.005 L
LB-27D	LB-121394-3	12/13/94	259	12.0	1.9	222	0.02 L	0.005 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-27D	LB-031095-7	3/10/95	274	NT	0.7	193	0.02 L	0.005 L
LB-27D	LB-031095-9	3/10/95	265	NT	1.9	190	0.02	0.005 L
LB-27D	LB-061995-4	6/19/95	272	NT	2.3	217	0.02 L	0.005 L
LB-27D	LB-061995-5	6/19/95	277	NT	2.2	208	0.02 L	0.005 L
LB-27D	LB-092095-1	9/20/95	334	NT	2.1	195	0.00 L	0.005 L
LB-27D	LB-092095-2	9/20/95	326	NT	2.0	205	0.00 L	0.005 L
LB-27D	LB-122095-17	12/20/95	306	NT	2.1	209	0.02 L	0.005 L
LB-27D	LB-122095-18	12/20/95	302	NT	2.1	210	0.06	0.001 J
LB-27D	LB-031996-3	3/19/96	302	NT	2.1	208	0.02 L	0.005 L
LB-27D	LB-061896-4	6/18/96	260	NT	2.2	220	0.10	0.005 L
LB-27D	LB-061896-5	6/18/96	251	NT	NT	217	0.09	0.005 L
LB-27D	LB-091796-9	9/17/96	286	11.0	2.1	214	0.02 L	0.005 L
LB-27D	LB121796-8	12/17/96	303	11.0	2.1	204	0.02 L	0.005 L
LB-27D	LB-031997-12	3/19/97	235	13.0	2.2	221	0.02	0.005 L
LB-27D	LB-061797-11	6/17/97	283	10.0	1.8	210	0.03	0.005 L
LB-27D	LB-091697-8	9/16/97	235	8.4	2.3	216	0.02 L	0.005 L
LB-27D	LB-121797-14	12/17/97	231	11.0	2.2	160	0.02 L	0.005 L
LB-27D	LB-031998-12	3/19/98	301	11.2	2.2	214	0.02 L	0.005 L
LB-27D	LB-061798-10	6/17/98	286	11.1	2.1	218	0.02 L	0.005 L
LB-27D	LB-091798-8	9/17/98	286	10.8	2.2	172	0.02 L	0.005 L
LB-27D	LB-121798-6	12/17/98	251	12.6	2.6	240	0.21	0.008
LB-27D	LB-031899-9	3/18/99	226	11.4	2.1	213	0.02 L	0.005 L
LB-27D	LB-062399-7	6/23/99	231	10.4	2.3	193	0.02	0.005 L
LB-27D	LB-091599-1	9/15/99	206	11.1	2.4	216	0.16	0.005 L
LB-27D	LB-121599-7	12/15/99	270	10.7	2.5	195	0.02 L	0.005 L
LB-27D	LB-031600-3	3/16/00	248	10.2	2.4	221	0.02 L	0.005 L
LB-27D	LB-061300-3	6/13/00	249	11.4	2.5	225	0.02 L	0.005 L
LB-27D	LB-091300-8	9/13/00	283	11.9	2.8	198	0.02 L	0.005 L
LB-27D	LB-091300-9	9/13/00	272	11.2	2.6	209	0.02 L	0.005 L
LB-27D	LB-121500-5	12/15/00	294	11.4	2.5	207	0.02 L	0.005 L
LB-27D	LB-031301-3	3/13/01	NT	12.2	2.7	226	0.02 L	0.005 L
LB-27D	LB-031902-11	3/19/02	NT	13.5	2.8	187	0.02 L	0.005 L
LB-27D	LB-031203-3	3/12/03	NT	12.7	3.0	218	0.02 L	0.005 L
LB-27D	LB-022604-15	2/26/04	NT	12.7	2.9	236	0.02 L	0.005 L
LB-27D (Dup)	LB-022604-16	2/26/04	NT	12.5	2.9	238	0.02 L	0.005 L
LB-27D	LB-030805-6	3/8/05	NT	13.6	3.0	248	0.02 L	0.017
LB-27D	LB-031606-17	3/16/06	NT	12.4	3.2	242	0.02 L	0.005 L
LB-27D	LB-030507-9	3/5/07	NT	11.5	3.3	209	0.02 L	0.005 L
LB-27D	LB-031908-5	3/19/08	NT	11.1	3.4	241	0.02 L	0.005 L
LB-27D	LB-031908-6	3/19/08	NT	11.9	1.4	364	0.02 L	0.285
LB-27D	LB-27D	3/18/09	NT	10.7	3.5	217	0.02 L	0.005 L
LB-27D	LB-27D032410	3/24/10	NT	9.8	3.9	238	0.02 L	0.005 L
LB-27D	LB-27D	3/25/11	307	10.4	3.77	245	0.025 L	0.002 L
LB-27D	LB-031212-02	3/12/12	NT	10	4.0	220	0.033	0.0054
LB-27D	LB-020713-21	2/7/13	NT	10	4.2	230	0.083	0.018
LB-27D	LB-021814-13	2/18/14	NT	13	4.1	230	0.057	0.0075

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-27I	LB-121192-20	12/11/92	NT	NT	6.2	NT	0.04	0.471
LB-27I	LB-031293-21	3/12/93	729	NT	4.5	459	0.02 L	0.343
LB-27I	LB-060193-2	6/1/93	706	NT	3.8	436	0.02 L	0.283
LB-27I	LB-092493-14	9/24/93	785	NT	21.0	526	0.07	0.413
LB-27I	LB-092493-15	9/24/93	771	NT	20.0	504	0.08	0.381
LB-27I	LB-121693-19	12/16/93	676	NT	22.0	499	0.03	0.284
LB-27I	LB-121693-20	12/16/93	711	NT	22.0	506	0.04	0.28
LB-27I	LB-032494-3	3/24/94	685	NT	NT	469	0.02 L	0.276
LB-27I	LB-062294-8	6/22/94	582	NT	5.3	397	0.02	0.213
LB-27I	LB-090894-11	9/8/94	573	NT	6.2	402	0.03	0.238
LB-27I	LB-121394-1	12/13/94	519	13.0	16.0	410	0.02	0.267
LB-27I	LB-031095-7	3/10/95	573	NT	9.0	346	0.02	0.198
LB-27I	LB-061995-3	6/19/95	566	NT	7.5	394	0.02	0.188
LB-27I	LB-092095-3	9/20/95	651	NT	1.2	377	0.03	0.247
LB-27I	LB-122095-16	12/20/95	584	NT	0.8	353	0.02 L	0.236
LB-27I	LB-031996-4	3/19/96	653	NT	0.2 L	392	0.10	0.273
LB-27I	LB-061896-3	6/18/96	532	NT	0.0 J	414	0.03	0.282
LB-27I	LB-091796-7	9/17/96	859	38.0	0.2 L	555	0.08	0.352
LB-27I	LB-091796-8	9/17/96	874	39.0	0.2 L	552	0.03	0.356
LB-27I	LB121796-6	12/17/96	1150	30.0	30.0	650	0.04	0.373
LB-27I	LB121796-7	12/17/96	1140	29.0	60.0	650	0.02 L	0.364
LB-27I	LB-031997-10	3/19/97	681	49.0	1.1	530	0.04	0.312
LB-27I	LB-031997-11	3/19/97	747	49.0	1.1	523	0.04	0.288
LB-27I	LB-061797-10	6/17/97	762	44.0	0.1	459	0.03	0.277
LB-27I	LB-061797-9	6/17/97	764	43.0	0.1	459	0.03	0.273
LB-27I	LB-091697-6	9/16/97	844	48.9	0.2 L	690	0.03	0.396
LB-27I	LB-091697-7	9/16/97	860	49.3	0.2 L	671	0.03	0.396
LB-27I	LB-121797-11	12/17/97	720	30.7	0.2 L	609	0.03	0.406
LB-27I	LB-121797-12	12/17/97	738	30.5	0.2 L	589	0.03	0.397
LB-27I	LB-031998-10	3/19/98	877	25.9	0.2 L	576	0.04	0.381
LB-27I	LB-031998-11	3/19/98	896	26.6	0.2 L	573	0.03	0.373
LB-27I	LB-061798-11	6/17/98	869	37.0	0.4	602	0.04	0.342
LB-27I	LB-061798-12	6/17/98	729	36.7	0.4	599	0.04	0.342
LB-27I	LB-091798-10	9/17/98	1030	47.0	0.2	620	0.04	0.375
LB-27I	LB-091798-9	9/17/98	1030	46.5	0.2 L	586	0.04	0.388
LB-27I	LB-121798-4	12/17/98	714	36.0	0.2 L	545	0.04	0.354
LB-27I	LB-121798-5	12/17/98	710	36.3	0.2 L	522	0.04	0.36
LB-27I	LB-031899-7	3/18/99	712	39.3	0.7	565	0.04	0.335
LB-27I	LB-031899-8	3/18/99	707	39.5	0.7	565	0.04	0.29
LB-27I	LB-062399-8	6/23/99	693	46.4	1.0	502	0.03	0.305
LB-27I	LB-091599-2	9/15/99	691	56.7	0.3	602	0.03	0.336
LB-27I	LB-121599-6	12/15/99	910	81.4	0.2	553	0.04	3.72
LB-27I	LB-031600-1	3/16/00	803	69.4	0.2 L	675	0.02 L	0.356
LB-27I	LB-031600-2	3/16/00	810	69.1	0.2 L	598	0.21	0.349
LB-27I	LB-061300-1	6/13/00	743	70.9	0.1 L	532	0.03	0.305
LB-27I	LB-061300-2	6/13/00	738	70.5	0.1 L	662	0.02	0.322

Table B-3
Groundwater Chemistry, Inorganic Parameters and
Dissolved Metals Concentrations (mg/L)
1987 through 2014
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
LB-27I	LB-091300-10	9/13/00	819	47.5	0.7	368	0.02	0.289
LB-27I	LB-121500-6	12/15/00	885	66.0	1.2	504	0.02 L	0.0851
LB-27I	LB-031301-4	3/13/01	NT	42.8	0.1 L	226	0.02 L	0.268
LB-27I	LB-092001-2	9/20/01	NT	39.7	0.1 L	378	0.02 L	0.186
LB-27I	LB-031902-10	3/19/02	NT	42.1	0.6	403	0.02 L	0.277
LB-27I	LB-091802-05	9/17/02	NT	25.0	8.0	382	0.02 L	0.243
LB-27I	LB-031203-1	3/12/03	NT	23.0	1.4	384	0.02 L	0.187
LB-27I	LB-031203-2	3/12/03	NT	23.0	1.4	312	0.02 L	0.206
LB-27I	LB-092203-2	9/22/03	NT	26.0	1.2	424	0.02 L	0.516
LB-27I	LB-092203-3	9/22/03	NT	25.0	1.2	388	0.02 L	0.545
LB-27I	LB-022604-17	2/26/04	NT	18.5	0.2 L	288	0.02 L	0.193
LB-27I	LB-090104-27	9/1/04	NT	20.4	1.1	268	0.02 L	0.217
LB-27I	LB-030805-5	3/8/05	NT	10.9	2.8	312	0.02 L	0.195
LB-27I	LB-091405-3	9/14/05	NT	12.4	2.4	316	0.02 L	0.131
LB-27I	LB-031606-18	3/16/06	NT	9.7	4.2	346	0.02 L	0.121
LB-27I	LB-091206-2	9/12/06	NT	14.8	1.9	346	0.02 L	0.185
LB-27I	LB-030507-8	3/5/07	NT	14.2	2.2	363	0.02 L	0.238
LB-27I	LB-091907-4	9/19/07	NT	16.7	0.1 L	295	0.04	0.530
LB-27I	LB-031908-4	3/19/08	NT	11.9	1.4	340	0.02 L	0.282
LB-27I	LB-091608-7	9/16/08	NT	17.0	1.0	311	0.02 L	0.196
LB-27I	LB-27I	3/18/09	NT	14.3	2.1	322	0.02 L	0.186
LB-27I	LBLF27i091109	9/11/09	NT	19.3	0.86	309	0.02 L	0.173
LB-27I	LB-27I032410	3/24/10	NT	7.7	1.82	266	0.02 L	0.121
LB-27I	LB27I092310	9/23/10	NT	19.4	0.62	311	0.02 L	0.196
LB-27I	LB-27I	3/25/11	512	20.1	0.14	335	0.025 L	0.191
LB-27I	LB-090711-01	9/7/11	NT	41.2	0.10 L	464	0.050 L	0.456
LB-27I	LB-032212-18	3/22/12	NT	23	0.2	370	0.025 L	0.38
LB-27I	LB-091112-02	9/11/12	NT	32	0.2 L, H	420	0.032	0.54
LB-27I	LB-020613-11	2/6/13	NT	41	0.22	380	0.025 L	0.52
LB-27I (Dup)	LB-020613-12	2/6/13	NT	42	0.21	380	0.025 L	0.52
LB-27I	LB-082113-03	8/21/13	NT	51	0.10 L	420	0.025 L	0.41
LB-27I (Dup)	LB-082113-05	8/21/13	NT	51	0.10 L	420	0.025 L	0.42
LB-27I	LB-021814-14	2/18/14	NT	30	0.40	340	0.025 L	0.43
LB-27I	LB-081314-03	8/13/14	NT	34	0.10 L	360	0.025 L	0.33
FIELDQC	LB-021814-09	2/18/14	NT	0.5 L	0.1 L	10 L	0.025 L	0.0020 L
FIELDQC	LB-081314-02	8/13/14	NT	0.3 L	0.1 L	10 L	0.025 L	0.0020 L
Notes:	Conductivity = umhos/cm; B = analyte detected above the MDL but below the MRL; L = not detected at or above method reporting limit; J = estimated concentration; H = due to laboratory error, sample was extracted and analyzed past the recommended 7-day hold time; NT = not tested.							

APPENDIX C
2014 Laboratory Analytical Data

First Quarter (February) 2014 Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-17236-1

TestAmerica SDG: 04214030.01104214030.17

Client Project/Site: Leichner Landfill - Wash.

For:

SCS Engineers
14945 SW Sequoia Parkway
Suite 180
Portland, Oregon 97224

Attn: Mr. Jason Davendonis

Vanessa Berry

Authorized for release by:
2/24/2014 12:47:25 PM

Vanessa Berry, Project Manager I
(503)906-9233
vanessa.berry@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-17236-1	LB-021714-01	Water	02/17/14 10:40	02/17/14 16:17
250-17236-2	LB-021714-02	Water	02/17/14 11:40	02/17/14 16:17
250-17236-3	LB-021714-03	Water	02/17/14 12:30	02/17/14 16:17
250-17236-4	LB-021714-04	Water	02/17/14 13:20	02/17/14 16:17
250-17236-5	LB-021714-05	Water	02/17/14 14:10	02/17/14 16:17
250-17236-6	LB-021714-06	Water	02/17/14 15:00	02/17/14 16:17
250-17236-7	LB-021714-07	Water	02/17/14 14:55	02/17/14 16:17
250-17236-8	Trip Blank	Water	02/17/14 00:00	02/17/14 16:17



Case Narrative

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Job ID: 250-17236-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative 250-17236-1

Comments

No additional comments.

Receipt

The samples were received on 2/17/2014 4:17 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 250-24573 recovered outside control limits for the following analytes: Acetone .These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCSD 250-24573/18)

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LB-021714-01

Date Collected: 02/17/14 10:40

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 17:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 17:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 17:42	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 17:42	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 17:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 17:42	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 17:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 17:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 17:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 17:42	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 17:42	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 17:42	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 17:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 17:42	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 17:42	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 17:42	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 17:42	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 17:42	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 17:42	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 17:42	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 17:42	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 17:42	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 17:42	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 17:42	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 17:42	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 17:42	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 17:42	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 17:42	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 17:42	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 17:42	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 17:42	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 17:42	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 17:42	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 17:42	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 17:42	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 17:42	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 17:42	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 17:42	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 17:42	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 17:42	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 17:42	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 17:42	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 17:42	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 17:42	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 17:42	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 17:42	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 17:42	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 17:42	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-01
Date Collected: 02/17/14 10:40
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 17:42	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 17:42	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 17:42	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 17:42	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 17:42	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 17:42	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 17:42	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 17:42	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 17:42	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 17:42	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 17:42	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 17:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 17:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120					02/19/14 17:42	1
4-Bromofluorobenzene (Surr)	91		80 - 120					02/19/14 17:42	1
Dibromofluoromethane (Surr)	103		80 - 120					02/19/14 17:42	1
Toluene-d8 (Surr)	101		80 - 120					02/19/14 17:42	1

Client Sample ID: LB-021714-02
Date Collected: 02/17/14 11:40
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 18:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 18:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 18:06	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 18:06	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 18:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 18:06	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 18:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 18:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 18:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 18:06	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 18:06	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 18:06	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 18:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 18:06	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 18:06	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 18:06	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 18:06	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 18:06	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 18:06	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 18:06	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 18:06	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 18:06	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 18:06	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 18:06	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-02
Date Collected: 02/17/14 11:40
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 18:06	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 18:06	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 18:06	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 18:06	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 18:06	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 18:06	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 18:06	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 18:06	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 18:06	1
Chloroform	0.37	J	0.50	0.10	ug/L			02/19/14 18:06	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 18:06	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 18:06	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 18:06	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 18:06	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 18:06	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 18:06	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 18:06	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 18:06	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 18:06	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 18:06	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 18:06	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 18:06	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 18:06	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 18:06	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 18:06	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 18:06	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 18:06	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 18:06	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 18:06	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 18:06	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 18:06	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 18:06	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 18:06	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 18:06	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 18:06	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 18:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 18:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		02/19/14 18:06	1
4-Bromofluorobenzene (Surr)	92		80 - 120		02/19/14 18:06	1
Dibromofluoromethane (Surr)	104		80 - 120		02/19/14 18:06	1
Toluene-d8 (Surr)	100		80 - 120		02/19/14 18:06	1

Client Sample ID: LB-021714-03
Date Collected: 02/17/14 12:30
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 18:30	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-03
Date Collected: 02/17/14 12:30
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 18:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 18:30	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 18:30	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 18:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 18:30	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 18:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 18:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 18:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 18:30	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 18:30	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 18:30	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 18:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 18:30	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 18:30	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 18:30	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 18:30	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 18:30	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 18:30	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 18:30	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 18:30	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 18:30	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 18:30	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 18:30	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 18:30	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 18:30	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 18:30	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 18:30	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 18:30	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 18:30	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 18:30	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 18:30	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 18:30	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 18:30	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 18:30	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 18:30	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 18:30	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 18:30	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 18:30	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 18:30	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 18:30	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 18:30	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 18:30	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 18:30	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 18:30	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 18:30	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 18:30	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 18:30	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 18:30	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-03
Date Collected: 02/17/14 12:30
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 18:30	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 18:30	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 18:30	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 18:30	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 18:30	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 18:30	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 18:30	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 18:30	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 18:30	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 18:30	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 18:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 18:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120					02/19/14 18:30	1
4-Bromofluorobenzene (Surr)	91		80 - 120					02/19/14 18:30	1
Dibromofluoromethane (Surr)	105		80 - 120					02/19/14 18:30	1
Toluene-d8 (Surr)	101		80 - 120					02/19/14 18:30	1

Client Sample ID: LB-021714-04
Date Collected: 02/17/14 13:20
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 18:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 18:54	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 18:54	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 18:54	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 18:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 18:54	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 18:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 18:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 18:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 18:54	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 18:54	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 18:54	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 18:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 18:54	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 18:54	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 18:54	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 18:54	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 18:54	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 18:54	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 18:54	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 18:54	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 18:54	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 18:54	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 18:54	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 18:54	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-04
Date Collected: 02/17/14 13:20
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 18:54	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 18:54	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 18:54	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 18:54	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 18:54	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 18:54	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 18:54	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 18:54	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 18:54	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 18:54	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 18:54	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 18:54	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 18:54	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 18:54	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 18:54	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 18:54	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 18:54	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 18:54	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 18:54	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 18:54	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 18:54	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 18:54	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 18:54	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 18:54	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 18:54	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 18:54	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 18:54	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 18:54	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 18:54	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 18:54	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 18:54	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 18:54	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 18:54	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 18:54	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 18:54	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 18:54	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		02/19/14 18:54	1
4-Bromofluorobenzene (Surr)	94		80 - 120		02/19/14 18:54	1
Dibromofluoromethane (Surr)	104		80 - 120		02/19/14 18:54	1
Toluene-d8 (Surr)	100		80 - 120		02/19/14 18:54	1

Client Sample ID: LB-021714-05
Date Collected: 02/17/14 14:10
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 19:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 19:18	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-05
Date Collected: 02/17/14 14:10
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 19:18	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 19:18	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 19:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 19:18	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 19:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 19:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 19:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 19:18	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 19:18	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 19:18	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 19:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 19:18	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 19:18	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 19:18	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 19:18	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 19:18	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 19:18	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 19:18	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 19:18	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 19:18	1
Acetone	ND *		25	5.0	ug/L			02/19/14 19:18	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 19:18	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 19:18	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 19:18	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 19:18	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 19:18	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 19:18	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 19:18	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 19:18	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 19:18	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 19:18	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 19:18	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 19:18	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 19:18	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 19:18	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 19:18	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 19:18	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 19:18	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 19:18	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 19:18	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 19:18	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 19:18	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 19:18	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 19:18	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 19:18	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 19:18	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 19:18	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 19:18	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-05
Date Collected: 02/17/14 14:10
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 19:18	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 19:18	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 19:18	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 19:18	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 19:18	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 19:18	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 19:18	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 19:18	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 19:18	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 19:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 19:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120					02/19/14 19:18	1
4-Bromofluorobenzene (Surr)	90		80 - 120					02/19/14 19:18	1
Dibromofluoromethane (Surr)	106		80 - 120					02/19/14 19:18	1
Toluene-d8 (Surr)	100		80 - 120					02/19/14 19:18	1

Client Sample ID: LB-021714-06
Date Collected: 02/17/14 15:00
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 19:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 19:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 19:42	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 19:42	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 19:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 19:42	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 19:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 19:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 19:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 19:42	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 19:42	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 19:42	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 19:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 19:42	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 19:42	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 19:42	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 19:42	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 19:42	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 19:42	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 19:42	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 19:42	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 19:42	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 19:42	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 19:42	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 19:42	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 19:42	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-06
Date Collected: 02/17/14 15:00
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 19:42	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 19:42	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 19:42	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 19:42	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 19:42	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 19:42	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 19:42	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 19:42	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 19:42	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 19:42	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 19:42	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 19:42	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 19:42	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 19:42	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 19:42	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 19:42	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 19:42	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 19:42	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 19:42	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 19:42	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 19:42	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 19:42	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 19:42	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 19:42	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 19:42	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 19:42	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 19:42	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 19:42	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 19:42	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 19:42	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 19:42	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 19:42	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 19:42	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 19:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 19:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120					02/19/14 19:42	1
4-Bromofluorobenzene (Surr)	90		80 - 120					02/19/14 19:42	1
Dibromofluoromethane (Surr)	105		80 - 120					02/19/14 19:42	1
Toluene-d8 (Surr)	100		80 - 120					02/19/14 19:42	1

Client Sample ID: LB-021714-07
Date Collected: 02/17/14 14:55
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 20:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 20:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 20:06	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-07
Date Collected: 02/17/14 14:55
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 20:06	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 20:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 20:06	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 20:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 20:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 20:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 20:06	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 20:06	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 20:06	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 20:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 20:06	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 20:06	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 20:06	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 20:06	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 20:06	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 20:06	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 20:06	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 20:06	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 20:06	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 20:06	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 20:06	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 20:06	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 20:06	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 20:06	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 20:06	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 20:06	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 20:06	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 20:06	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 20:06	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 20:06	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 20:06	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 20:06	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 20:06	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 20:06	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 20:06	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 20:06	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 20:06	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 20:06	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 20:06	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 20:06	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 20:06	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 20:06	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 20:06	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 20:06	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 20:06	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 20:06	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 20:06	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 20:06	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021714-07
Date Collected: 02/17/14 14:55
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 20:06	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 20:06	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 20:06	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 20:06	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 20:06	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 20:06	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 20:06	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 20:06	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 20:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 20:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120					02/19/14 20:06	1
4-Bromofluorobenzene (Surr)	93		80 - 120					02/19/14 20:06	1
Dibromofluoromethane (Surr)	107		80 - 120					02/19/14 20:06	1
Toluene-d8 (Surr)	101		80 - 120					02/19/14 20:06	1

Client Sample ID: Trip Blank
Date Collected: 02/17/14 00:00
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 20:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 20:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 20:30	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 20:30	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 20:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 20:30	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 20:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 20:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/19/14 20:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 20:30	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 20:30	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 20:30	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 20:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 20:30	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 20:30	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 20:30	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 20:30	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 20:30	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 20:30	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 20:30	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 20:30	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 20:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 20:30	1
Acetone	ND	*	25	5.0	ug/L			02/19/14 20:30	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 20:30	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 20:30	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 20:30	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 20:30	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Trip Blank
Date Collected: 02/17/14 00:00
Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.44	ug/L			02/19/14 20:30	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 20:30	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 20:30	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 20:30	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 20:30	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 20:30	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 20:30	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 20:30	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 20:30	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 20:30	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 20:30	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 20:30	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 20:30	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 20:30	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 20:30	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 20:30	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 20:30	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 20:30	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 20:30	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 20:30	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 20:30	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 20:30	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 20:30	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 20:30	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 20:30	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 20:30	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 20:30	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 20:30	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 20:30	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 20:30	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 20:30	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 20:30	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 20:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 20:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120					02/19/14 20:30	1
4-Bromofluorobenzene (Surr)	91		80 - 120					02/19/14 20:30	1
Dibromofluoromethane (Surr)	107		80 - 120					02/19/14 20:30	1
Toluene-d8 (Surr)	101		80 - 120					02/19/14 20:30	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
 SDG: 04214030.01104214030.17

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: LB-021714-01

Date Collected: 02/17/14 10:40

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 01:21	1
Manganese	0.0026		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 01:21	1

Client Sample ID: LB-021714-02

Date Collected: 02/17/14 11:40

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 01:28	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 01:28	1

Client Sample ID: LB-021714-03

Date Collected: 02/17/14 12:30

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.11		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 01:39	1
Manganese	4.1		0.020	0.020	mg/L		02/18/14 23:25	02/19/14 09:08	10

Client Sample ID: LB-021714-04

Date Collected: 02/17/14 13:20

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.2		0.25	0.25	mg/L		02/18/14 23:25	02/19/14 09:11	10
Manganese	1.1		0.020	0.020	mg/L		02/18/14 23:25	02/19/14 09:11	10

Client Sample ID: LB-021714-05

Date Collected: 02/17/14 14:10

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 01:46	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 01:46	1

Client Sample ID: LB-021714-06

Date Collected: 02/17/14 15:00

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.036		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:00	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:00	1

Client Sample ID: LB-021714-07

Date Collected: 02/17/14 14:55

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:04	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:04	1

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

General Chemistry

Client Sample ID: LB-021714-01

Date Collected: 02/17/14 10:40

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			02/18/14 16:12	1
Chloride	9.3		0.50	0.50	mg/L			02/18/14 19:24	1
Nitrogen, Nitrate	0.74		0.10	0.10	mg/L			02/18/14 19:24	1

Client Sample ID: LB-021714-02

Date Collected: 02/17/14 11:40

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			02/18/14 16:12	1
Chloride	4.1		0.50	0.50	mg/L			02/18/14 20:27	1
Nitrogen, Nitrate	3.6		0.10	0.10	mg/L			02/18/14 20:27	1

Client Sample ID: LB-021714-03

Date Collected: 02/17/14 12:30

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			02/18/14 16:12	1
Chloride	10		0.50	0.50	mg/L			02/18/14 20:43	1
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/18/14 20:43	1

Client Sample ID: LB-021714-04

Date Collected: 02/17/14 13:20

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			02/18/14 16:12	1
Chloride	12		0.50	0.50	mg/L			02/18/14 20:58	1
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/18/14 20:58	1

Client Sample ID: LB-021714-05

Date Collected: 02/17/14 14:10

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			02/18/14 16:12	1
Chloride	5.2		0.50	0.50	mg/L			02/18/14 21:18	1
Nitrogen, Nitrate	5.5		0.10	0.10	mg/L			02/18/14 21:18	1

Client Sample ID: LB-021714-06

Date Collected: 02/17/14 15:00

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			02/18/14 16:12	1
Chloride	6.8		0.50	0.50	mg/L			02/18/14 22:05	1
Nitrogen, Nitrate	4.6		0.10	0.10	mg/L			02/18/14 22:05	1

Client Sample ID: LB-021714-07

Date Collected: 02/17/14 14:55

Date Received: 02/17/14 16:17

Lab Sample ID: 250-17236-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			02/18/14 16:12	1
Chloride	6.9		0.50	0.50	mg/L			02/18/14 22:20	1
Nitrogen, Nitrate	4.6		0.10	0.10	mg/L			02/18/14 22:20	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 250-24573/15

Matrix: Water

Analysis Batch: 24573

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/19/14 15:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/19/14 15:07	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/19/14 15:07	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/19/14 15:07	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/19/14 15:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/19/14 15:07	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/19/14 15:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/19/14 15:07	1
1,2,4-Trimethylbenzene	0.167	J	1.0	0.16	ug/L			02/19/14 15:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/19/14 15:07	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/19/14 15:07	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/19/14 15:07	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 15:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/19/14 15:07	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/19/14 15:07	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/19/14 15:07	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/19/14 15:07	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/19/14 15:07	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/19/14 15:07	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 15:07	1
2-Hexanone	ND		10	2.0	ug/L			02/19/14 15:07	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/19/14 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/19/14 15:07	1
Acetone	ND		25	5.0	ug/L			02/19/14 15:07	1
Benzene	ND		0.20	0.060	ug/L			02/19/14 15:07	1
Bromobenzene	ND		0.50	0.16	ug/L			02/19/14 15:07	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/19/14 15:07	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/19/14 15:07	1
Bromoform	ND		1.0	0.44	ug/L			02/19/14 15:07	1
Bromomethane	ND		5.0	1.0	ug/L			02/19/14 15:07	1
Carbon disulfide	ND		10	2.0	ug/L			02/19/14 15:07	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/19/14 15:07	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/19/14 15:07	1
Chloroethane	ND		0.50	0.17	ug/L			02/19/14 15:07	1
Chloroform	ND		0.50	0.10	ug/L			02/19/14 15:07	1
Chloromethane	ND		5.0	1.0	ug/L			02/19/14 15:07	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/19/14 15:07	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/19/14 15:07	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/19/14 15:07	1
Dibromomethane	ND		0.50	0.17	ug/L			02/19/14 15:07	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/19/14 15:07	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/19/14 15:07	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/19/14 15:07	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/19/14 15:07	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/19/14 15:07	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/19/14 15:07	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/19/14 15:07	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/19/14 15:07	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 250-24573/15

Matrix: Water

Analysis Batch: 24573

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.20	ug/L			02/19/14 15:07	1
Naphthalene	ND		2.0	0.20	ug/L			02/19/14 15:07	1
o-Xylene	ND		0.50	0.13	ug/L			02/19/14 15:07	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/19/14 15:07	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/19/14 15:07	1
Styrene	ND		0.50	0.10	ug/L			02/19/14 15:07	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/19/14 15:07	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/19/14 15:07	1
Toluene	ND		0.50	0.11	ug/L			02/19/14 15:07	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/19/14 15:07	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/19/14 15:07	1
Trichloroethene	ND		0.50	0.13	ug/L			02/19/14 15:07	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/19/14 15:07	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/19/14 15:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/19/14 15:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		02/19/14 15:07	1
4-Bromofluorobenzene (Surr)	94		80 - 120		02/19/14 15:07	1
Dibromofluoromethane (Surr)	103		80 - 120		02/19/14 15:07	1
Toluene-d8 (Surr)	102		80 - 120		02/19/14 15:07	1

Lab Sample ID: LCS 250-24573/17

Matrix: Water

Analysis Batch: 24573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	75 - 135
1,1,2,2-Tetrachloroethane	20.0	17.0		ug/L		85	75 - 130
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	80 - 125
1,1-Dichloroethane	20.0	19.2		ug/L		96	80 - 120
1,1-Dichloropropene	20.0	18.8		ug/L		94	80 - 120
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	65 - 140
1,2,3-Trichloropropane	20.0	17.5		ug/L		87	75 - 125
1,2,4-Trichlorobenzene	20.0	19.5		ug/L		97	75 - 130
1,2,4-Trimethylbenzene	20.0	18.7		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.0		ug/L		80	70 - 135
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	19.5		ug/L		98	75 - 125
1,2-Dichloropropane	20.0	19.7		ug/L		99	80 - 130
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	75 - 135
1,3-Dichlorobenzene	20.0	17.7		ug/L		89	75 - 125
1,3-Dichloropropane	20.0	19.1		ug/L		95	80 - 120
1,4-Dichlorobenzene	20.0	17.2		ug/L		86	70 - 120
2,2-Dichloropropane	20.0	17.9		ug/L		89	60 - 145
2-Butanone (MEK)	100	106		ug/L		106	70 - 140
2-Chlorotoluene	20.0	18.7		ug/L		93	70 - 125
2-Hexanone	100	110		ug/L		110	70 - 140

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-24573/17

Matrix: Water

Analysis Batch: 24573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	18.8		ug/L		94	75 - 125
4-Methyl-2-pentanone (MIBK)	100	119		ug/L		119	70 - 135
Acetone	100	95.5		ug/L		96	55 - 145
Benzene	20.0	18.7		ug/L		94	80 - 120
Bromobenzene	20.0	18.1		ug/L		91	75 - 120
Bromochloromethane	20.0	19.8		ug/L		99	75 - 125
Bromodichloromethane	20.0	18.6		ug/L		93	80 - 130
Bromoform	20.0	17.1		ug/L		86	55 - 135
Bromomethane	20.0	19.4		ug/L		97	35 - 150
Carbon disulfide	40.0	46.9		ug/L		117	60 - 120
Carbon tetrachloride	20.0	18.2		ug/L		91	70 - 135
Chlorobenzene	20.0	19.5		ug/L		98	80 - 125
Chloroethane	20.0	20.5		ug/L		103	75 - 125
Chloroform	20.0	17.8		ug/L		89	80 - 120
Chloromethane	20.0	21.4		ug/L		107	45 - 150
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	80 - 120
cis-1,3-Dichloropropene	20.0	19.7		ug/L		98	80 - 125
Dibromochloromethane	20.0	19.8		ug/L		99	65 - 140
Dibromomethane	20.0	19.5		ug/L		97	80 - 120
Dichlorodifluoromethane	20.0	18.6		ug/L		93	45 - 140
Ethylbenzene	20.0	19.2		ug/L		96	80 - 120
Hexachlorobutadiene	20.0	17.9		ug/L		89	60 - 150
Isopropylbenzene	20.0	19.3		ug/L		96	75 - 125
m,p-Xylene	40.0	38.7		ug/L		97	70 - 130
Methyl tert-butyl ether	20.0	21.7		ug/L		108	80 - 130
Methylene Chloride	20.0	18.2		ug/L		91	80 - 120
n-Butylbenzene	20.0	18.2		ug/L		91	75 - 130
N-Propylbenzene	20.0	19.5		ug/L		98	75 - 130
Naphthalene	20.0	20.0		ug/L		100	70 - 150
o-Xylene	20.0	19.4		ug/L		97	75 - 125
p-Isopropyltoluene	20.0	17.5		ug/L		87	65 - 130
sec-Butylbenzene	20.0	18.8		ug/L		94	60 - 130
Styrene	20.0	18.9		ug/L		95	70 - 130
tert-Butylbenzene	20.0	18.5		ug/L		92	70 - 130
Tetrachloroethene	20.0	19.1		ug/L		96	80 - 125
Toluene	20.0	19.6		ug/L		98	80 - 125
trans-1,2-Dichloroethene	20.0	17.9		ug/L		89	80 - 120
trans-1,3-Dichloropropene	20.0	17.9		ug/L		89	80 - 130
Trichloroethene	20.0	19.0		ug/L		95	80 - 135
Trichlorofluoromethane	20.0	21.2		ug/L		106	75 - 140
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	65 - 140
1,2-Dibromoethane	20.0	19.0		ug/L		95	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	101		80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-24573/18

Matrix: Water

Analysis Batch: 24573

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.9		ug/L		90	75 - 135	1	25
1,1,2,2-Tetrachloroethane	20.0	17.8		ug/L		89	75 - 130	4	25
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	80 - 125	2	25
1,1-Dichloroethane	20.0	19.0		ug/L		95	80 - 120	1	25
1,1-Dichloropropene	20.0	18.6		ug/L		93	80 - 120	1	25
1,2,3-Trichlorobenzene	20.0	22.4		ug/L		112	65 - 140	13	25
1,2,3-Trichloropropane	20.0	18.7		ug/L		94	75 - 125	7	25
1,2,4-Trichlorobenzene	20.0	21.5		ug/L		107	75 - 130	10	25
1,2,4-Trimethylbenzene	20.0	19.2		ug/L		96	70 - 130	3	25
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	70 - 135	14	25
1,2-Dichlorobenzene	20.0	19.3		ug/L		96	80 - 120	4	25
1,2-Dichloroethane	20.0	19.8		ug/L		99	75 - 125	1	25
1,2-Dichloropropane	20.0	19.8		ug/L		99	80 - 130	1	25
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	75 - 135	2	25
1,3-Dichlorobenzene	20.0	18.4		ug/L		92	75 - 125	4	25
1,3-Dichloropropane	20.0	19.2		ug/L		96	80 - 120	0	25
1,4-Dichlorobenzene	20.0	18.1		ug/L		91	70 - 120	5	25
2,2-Dichloropropane	20.0	18.3		ug/L		91	60 - 145	2	25
2-Butanone (MEK)	100	118		ug/L		118	70 - 140	11	25
2-Chlorotoluene	20.0	19.0		ug/L		95	70 - 125	2	25
2-Hexanone	100	115		ug/L		115	70 - 140	4	25
4-Chlorotoluene	20.0	19.4		ug/L		97	75 - 125	3	25
4-Methyl-2-pentanone (MIBK)	100	122		ug/L		122	70 - 135	3	25
Acetone	100	125 *		ug/L		125	55 - 145	27	25
Benzene	20.0	18.4		ug/L		92	80 - 120	2	25
Bromobenzene	20.0	18.9		ug/L		95	75 - 120	4	25
Bromochloromethane	20.0	20.0		ug/L		100	75 - 125	1	25
Bromodichloromethane	20.0	18.9		ug/L		94	80 - 130	1	25
Bromoform	20.0	17.3		ug/L		86	55 - 135	1	25
Bromomethane	20.0	17.9		ug/L		90	35 - 150	8	25
Carbon disulfide	40.0	46.3		ug/L		116	60 - 120	1	25
Carbon tetrachloride	20.0	17.9		ug/L		90	70 - 135	2	25
Chlorobenzene	20.0	19.2		ug/L		96	80 - 125	2	25
Chloroethane	20.0	19.6		ug/L		98	75 - 125	5	25
Chloroform	20.0	17.6		ug/L		88	80 - 120	1	25
Chloromethane	20.0	19.7		ug/L		99	45 - 150	8	25
cis-1,2-Dichloroethane	20.0	18.3		ug/L		91	80 - 120	1	25
cis-1,3-Dichloropropene	20.0	19.7		ug/L		99	80 - 125	0	25
Dibromochloromethane	20.0	20.0		ug/L		100	65 - 140	1	25
Dibromomethane	20.0	19.6		ug/L		98	80 - 120	0	25
Dichlorodifluoromethane	20.0	17.6		ug/L		88	45 - 140	6	25
Ethylbenzene	20.0	19.7		ug/L		98	80 - 120	3	25
Hexachlorobutadiene	20.0	19.1		ug/L		96	60 - 150	7	25
Isopropylbenzene	20.0	19.4		ug/L		97	75 - 125	1	25
m,p-Xylene	40.0	39.4		ug/L		98	70 - 130	2	25
Methyl tert-butyl ether	20.0	22.0		ug/L		110	80 - 130	1	25
Methylene Chloride	20.0	18.0		ug/L		90	80 - 120	1	25
n-Butylbenzene	20.0	18.5		ug/L		93	75 - 130	2	25

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-24573/18

Matrix: Water

Analysis Batch: 24573

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
N-Propylbenzene	20.0	19.6		ug/L		98	75 - 130	1	25	
Naphthalene	20.0	23.3		ug/L		116	70 - 150	15	25	
o-Xylene	20.0	19.7		ug/L		98	75 - 125	1	25	
p-Isopropyltoluene	20.0	18.0		ug/L		90	65 - 130	3	25	
sec-Butylbenzene	20.0	19.2		ug/L		96	60 - 130	2	25	
Styrene	20.0	19.1		ug/L		95	70 - 130	1	25	
tert-Butylbenzene	20.0	18.6		ug/L		93	70 - 130	1	25	
Tetrachloroethene	20.0	18.6		ug/L		93	80 - 125	3	25	
Toluene	20.0	19.1		ug/L		96	80 - 125	3	25	
trans-1,2-Dichloroethene	20.0	17.4		ug/L		87	80 - 120	3	25	
trans-1,3-Dichloropropene	20.0	17.9		ug/L		90	80 - 130	0	25	
Trichloroethene	20.0	18.2		ug/L		91	80 - 135	4	25	
Trichlorofluoromethane	20.0	20.8		ug/L		104	75 - 140	2	25	
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		95	65 - 140	1	25	
1,2-Dibromoethane	20.0	19.4		ug/L		97	80 - 125	2		

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-24545/1-A

Matrix: Water

Analysis Batch: 24549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24545

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 01:13	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 01:13	1

Lab Sample ID: LCS 250-24545/2-A

Matrix: Water

Analysis Batch: 24549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	2.00	2.01		mg/L		100	80 - 120	
Manganese	0.100	0.101		mg/L		101	80 - 120	

Lab Sample ID: 250-17236-2 MS

Matrix: Water

Analysis Batch: 24549

Client Sample ID: LB-021714-02

Prep Type: Dissolved

Prep Batch: 24545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	ND		2.00	1.95		mg/L		98	75 - 125	
Manganese	ND		0.100	0.101		mg/L		101	75 - 125	

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 250-17236-1 DU
Matrix: Water
Analysis Batch: 24549

Client Sample ID: LB-021714-01
Prep Type: Dissolved
Prep Batch: 24545

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	ND		ND		mg/L		NC	20
Manganese	0.0026		0.00266		mg/L		3	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 250-24525/1
Matrix: Water
Analysis Batch: 24525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			02/18/14 16:12	1

Lab Sample ID: LCS 250-24525/2
Matrix: Water
Analysis Batch: 24525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	100	102		mg/L		102	80 - 120

Lab Sample ID: 250-17182-B-1 DU
Matrix: Water
Analysis Batch: 24525

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		166		mg/L		1	5

Method: 300.0 - Nitrate

Lab Sample ID: MB 250-24592/3
Matrix: Water
Analysis Batch: 24592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/18/14 18:53	1

Lab Sample ID: LCS 250-24592/4
Matrix: Water
Analysis Batch: 24592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	5.00	4.65		mg/L		93	90 - 110

Lab Sample ID: 250-17236-1 MS
Matrix: Water
Analysis Batch: 24592

Client Sample ID: LB-021714-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	0.74		5.00	5.37		mg/L		93	80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 300.0 - Nitrate (Continued)

Lab Sample ID: 250-17236-1 MSD
Matrix: Water
Analysis Batch: 24592

Client Sample ID: LB-021714-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	0.74		5.00	5.28		mg/L		91	80 - 120	2	20

Lab Sample ID: 250-17248-A-2 MS ^2
Matrix: Water
Analysis Batch: 24592

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	0.95		10.0	10.1		mg/L		92	80 - 120

Lab Sample ID: 250-17236-1 DU
Matrix: Water
Analysis Batch: 24592

Client Sample ID: LB-021714-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Nitrate	0.74		0.741		mg/L		0.01	20

Method: 300.0 - Chloride

Lab Sample ID: MB 250-24591/3
Matrix: Water
Analysis Batch: 24591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			02/18/14 18:53	1

Lab Sample ID: LCS 250-24591/4
Matrix: Water
Analysis Batch: 24591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.68		mg/L		94	90 - 110

Lab Sample ID: 250-17236-1 MS
Matrix: Water
Analysis Batch: 24591

Client Sample ID: LB-021714-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.3		5.00	13.3		mg/L		80	80 - 120

Lab Sample ID: 250-17236-1 MSD
Matrix: Water
Analysis Batch: 24591

Client Sample ID: LB-021714-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.3		5.00	13.2	F1	mg/L		78	80 - 120	1	20

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method: 300.0 - Chloride (Continued)

Lab Sample ID: 250-17236-1 DU
Matrix: Water
Analysis Batch: 24591

Client Sample ID: LB-021714-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	9.3		9.28		mg/L		0.2	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Certification Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-15
USDA	Federal		P330-11-00092	02-17-14 *
Washington	State Program	10	C586	06-23-14

* Expired certification is currently pending renewal and is considered valid.



Method Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-17236-1
SDG: 04214030.01104214030.17

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL PRT
300.0	Chloride	40CFR136A	TAL PRT
300.0	Nitrate	MCAWW	TAL PRT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

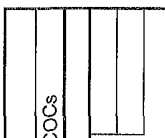
Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Chain of Custody Record

TestAmerica Portland
9405 SW Nimbus Avenue

Beaverton, OR 97008
phone 503.906.9200 fax 503.906.9210



250-17236 Chain of Custody

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: **J Davendoss** Site Contact: **J Andrews** Date: **2/17/14** COC No: _____ of _____ COCs
 Tel/Fax: **503 639 9518** Lab Contact: **Erica For** Carrier: **Drop off**

Your Company Name here: **SCS Engineers**
 Address: **14945 SW Seaside Blvd, Ste 100**
 City/State/Zip: **Portland, OR 97204**
 (xxx) xxx-xxxx: **503 358 1209**
 (xxx) xxx-xxxx: _____ FAX: _____

Project Name: **Lechner Landfill**
 Site: **04214030.01/01214030.17**
 P O #: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Analysis Turnaround Time		Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8660 VOCs	Dissolved Metals	(Fe and Mn)	TDS (16.1)	Chloride (500)	Nitrate (300)	Sample Specific Notes:
						CALENDAR DAYS	WORKING DAYS									
LB-021714-01	2/17/14	1040	G	W	5			X	X	X	X	X	X	X	X	
LB-021714-02	2/17/14	1140	G	W	5			X	X	X	X	X	X	X	X	
LB-021714-03	2/17/14	1230	G	W	5			X	X	X	X	X	X	X	X	
LB-021714-04	2/17/14	1320	G	W	5			X	X	X	X	X	X	X	X	
LB-021714-05	2/17/14	1410	G	W	5			X	X	X	X	X	X	X	X	
LB-021714-06	2/17/14	1500	G	W	5			X	X	X	X	X	X	X	X	
LB-021714-07	2/17/14	1555	G	W	5			X	X	X	X	X	X	X	X	
Trip Blank	-	-	-	W	1			X								

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other: _____

Possible Hazard Identification: _____ Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____

Relinquished by: **[Signature]** Company: **SCS** Date/Time: **2/17/14 16:17**

Relinquished by: **[Signature]** Company: **TAP** Date/Time: **2/17/14 16:17**

Relinquished by: _____ Company: _____ Date/Time: _____

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-17236-1
SDG Number: 04214030.01104214030.17

Login Number: 17236

List Number: 1

Creator: Krause, Thomas A

List Source: TestAmerica Portland

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No sampler name on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-17278-1
Client Project/Site: Leichner Landfill

For:
SCS Engineers
14945 SW Sequoia Parkway
Suite 180
Portland, Oregon 97224

Attn: Mr. Jason Davendonis



Authorized for release by:
2/25/2014 11:45:01 AM
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-17278-1	LB-021814-11	Water	02/18/14 12:40	02/18/14 16:50
250-17278-2	LB-021814-12	Water	02/18/14 13:30	02/18/14 16:50
250-17278-3	LB-021814-08	Water	02/18/14 10:25	02/18/14 16:50
250-17278-4	LB-021814-10	Water	02/18/14 11:20	02/18/14 16:50
250-17278-5	LB-021814-09	Water	02/18/14 11:00	02/18/14 16:50
250-17278-6	LB-021814-13	Water	02/18/14 14:40	02/18/14 16:50
250-17278-7	LB-021814-14	Water	02/18/14 15:30	02/18/14 16:50
250-17278-8	Trip Blank	Water	02/18/14 00:00	02/18/14 16:50



Case Narrative

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Job ID: 250-17278-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-17278-1

Comments

No additional comments.

Receipt

The samples were received on 2/18/2014 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 24654.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LB-021814-11

Date Collected: 02/18/14 12:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 12:08	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 12:08	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 12:08	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 12:08	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 12:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 12:08	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 12:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 12:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 12:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 12:08	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 12:08	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 12:08	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 12:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 12:08	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 12:08	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 12:08	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 12:08	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 12:08	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 12:08	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 12:08	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 12:08	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 12:08	1
Acetone	ND		25	5.0	ug/L			02/20/14 12:08	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 12:08	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 12:08	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 12:08	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 12:08	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 12:08	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 12:08	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 12:08	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 12:08	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 12:08	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 12:08	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 12:08	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 12:08	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 12:08	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 12:08	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 12:08	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 12:08	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 12:08	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 12:08	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 12:08	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 12:08	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 12:08	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 12:08	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 12:08	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 12:08	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 12:08	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-11

Date Collected: 02/18/14 12:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 12:08	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 12:08	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 12:08	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 12:08	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 12:08	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 12:08	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 12:08	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 12:08	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 12:08	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 12:08	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 12:08	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 12:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 12:08	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		02/20/14 12:08	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/20/14 12:08	1
Dibromofluoromethane (Surr)	104		80 - 120		02/20/14 12:08	1
Toluene-d8 (Surr)	102		80 - 120		02/20/14 12:08	1

Client Sample ID: LB-021814-12

Date Collected: 02/18/14 13:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 12:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 12:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 12:35	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 12:35	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 12:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 12:35	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 12:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 12:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 12:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 12:35	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 12:35	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 12:35	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 12:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 12:35	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 12:35	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 12:35	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 12:35	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 12:35	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 12:35	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 12:35	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 12:35	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 12:35	1
Acetone	ND		25	5.0	ug/L			02/20/14 12:35	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 12:35	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-12

Date Collected: 02/18/14 13:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 12:35	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 12:35	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 12:35	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 12:35	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 12:35	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 12:35	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 12:35	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 12:35	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 12:35	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 12:35	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 12:35	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 12:35	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 12:35	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 12:35	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 12:35	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 12:35	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 12:35	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 12:35	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 12:35	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 12:35	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 12:35	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 12:35	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 12:35	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 12:35	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 12:35	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 12:35	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 12:35	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 12:35	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 12:35	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 12:35	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 12:35	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 12:35	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 12:35	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 12:35	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 12:35	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 12:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 12:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		02/20/14 12:35	1
4-Bromofluorobenzene (Surr)	99		80 - 120		02/20/14 12:35	1
Dibromofluoromethane (Surr)	103		80 - 120		02/20/14 12:35	1
Toluene-d8 (Surr)	101		80 - 120		02/20/14 12:35	1

Client Sample ID: LB-021814-08

Date Collected: 02/18/14 10:25

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 13:02	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-08

Date Collected: 02/18/14 10:25

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 13:02	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 13:02	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 13:02	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 13:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 13:02	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 13:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 13:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 13:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 13:02	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 13:02	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 13:02	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 13:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 13:02	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 13:02	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 13:02	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 13:02	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 13:02	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 13:02	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 13:02	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 13:02	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 13:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 13:02	1
Acetone	ND		25	5.0	ug/L			02/20/14 13:02	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 13:02	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 13:02	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 13:02	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 13:02	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 13:02	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 13:02	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 13:02	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 13:02	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 13:02	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 13:02	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 13:02	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 13:02	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 13:02	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 13:02	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 13:02	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 13:02	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 13:02	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 13:02	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 13:02	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 13:02	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 13:02	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 13:02	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 13:02	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 13:02	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 13:02	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 13:02	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-08
Date Collected: 02/18/14 10:25
Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 13:02	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 13:02	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 13:02	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 13:02	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 13:02	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 13:02	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 13:02	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 13:02	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 13:02	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 13:02	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 13:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 13:02	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					02/20/14 13:02	1
4-Bromofluorobenzene (Surr)	97		80 - 120					02/20/14 13:02	1
Dibromofluoromethane (Surr)	104		80 - 120					02/20/14 13:02	1
Toluene-d8 (Surr)	102		80 - 120					02/20/14 13:02	1

Client Sample ID: LB-021814-10
Date Collected: 02/18/14 11:20
Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 13:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 13:29	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 13:29	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 13:29	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 13:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 13:29	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 13:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 13:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 13:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 13:29	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 13:29	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 13:29	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 13:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 13:29	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 13:29	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 13:29	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 13:29	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 13:29	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 13:29	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 13:29	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 13:29	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 13:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 13:29	1
Acetone	ND		25	5.0	ug/L			02/20/14 13:29	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 13:29	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 13:29	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-10

Date Collected: 02/18/14 11:20

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 13:29	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 13:29	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 13:29	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 13:29	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 13:29	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 13:29	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 13:29	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 13:29	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 13:29	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 13:29	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 13:29	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 13:29	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 13:29	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 13:29	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 13:29	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 13:29	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 13:29	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 13:29	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 13:29	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 13:29	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 13:29	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 13:29	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 13:29	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 13:29	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 13:29	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 13:29	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 13:29	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 13:29	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 13:29	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 13:29	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 13:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 13:29	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 13:29	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 13:29	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 13:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 13:29	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		02/20/14 13:29	1
4-Bromofluorobenzene (Surr)	102		80 - 120		02/20/14 13:29	1
Dibromofluoromethane (Surr)	102		80 - 120		02/20/14 13:29	1
Toluene-d8 (Surr)	102		80 - 120		02/20/14 13:29	1

Client Sample ID: LB-021814-09

Date Collected: 02/18/14 11:00

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 13:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 13:56	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-09

Date Collected: 02/18/14 11:00

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 13:56	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 13:56	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 13:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 13:56	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 13:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 13:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 13:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 13:56	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 13:56	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 13:56	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 13:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 13:56	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 13:56	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 13:56	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 13:56	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 13:56	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 13:56	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 13:56	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 13:56	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 13:56	1
Acetone	ND		25	5.0	ug/L			02/20/14 13:56	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 13:56	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 13:56	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 13:56	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 13:56	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 13:56	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 13:56	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 13:56	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 13:56	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 13:56	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 13:56	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 13:56	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 13:56	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 13:56	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 13:56	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 13:56	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 13:56	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 13:56	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 13:56	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 13:56	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 13:56	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 13:56	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 13:56	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 13:56	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 13:56	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 13:56	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 13:56	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 13:56	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-09

Date Collected: 02/18/14 11:00

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 13:56	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 13:56	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 13:56	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 13:56	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 13:56	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 13:56	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 13:56	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 13:56	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 13:56	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 13:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 13:56	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					02/20/14 13:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120					02/20/14 13:56	1
Dibromofluoromethane (Surr)	99		80 - 120					02/20/14 13:56	1
Toluene-d8 (Surr)	101		80 - 120					02/20/14 13:56	1

Client Sample ID: LB-021814-13

Date Collected: 02/18/14 14:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 14:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 14:23	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 14:23	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 14:23	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 14:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 14:23	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 14:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 14:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 14:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 14:23	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 14:23	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 14:23	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 14:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 14:23	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 14:23	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 14:23	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 14:23	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 14:23	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 14:23	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 14:23	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 14:23	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 14:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 14:23	1
Acetone	ND		25	5.0	ug/L			02/20/14 14:23	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 14:23	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 14:23	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 14:23	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-13

Date Collected: 02/18/14 14:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 14:23	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 14:23	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 14:23	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 14:23	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 14:23	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 14:23	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 14:23	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 14:23	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 14:23	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 14:23	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 14:23	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 14:23	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 14:23	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 14:23	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 14:23	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 14:23	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 14:23	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 14:23	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 14:23	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 14:23	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 14:23	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 14:23	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 14:23	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 14:23	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 14:23	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 14:23	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 14:23	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 14:23	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 14:23	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 14:23	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 14:23	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 14:23	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 14:23	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 14:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 14:23	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		02/20/14 14:23	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/20/14 14:23	1
Dibromofluoromethane (Surr)	102		80 - 120		02/20/14 14:23	1
Toluene-d8 (Surr)	102		80 - 120		02/20/14 14:23	1

Client Sample ID: LB-021814-14

Date Collected: 02/18/14 15:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 14:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 14:50	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 14:50	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-14
Date Collected: 02/18/14 15:30
Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 14:50	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 14:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 14:50	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 14:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 14:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 14:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 14:50	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 14:50	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 14:50	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 14:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 14:50	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 14:50	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 14:50	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 14:50	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 14:50	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 14:50	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 14:50	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 14:50	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 14:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 14:50	1
Acetone	ND		25	5.0	ug/L			02/20/14 14:50	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 14:50	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 14:50	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 14:50	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 14:50	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 14:50	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 14:50	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 14:50	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 14:50	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 14:50	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 14:50	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 14:50	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 14:50	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 14:50	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 14:50	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 14:50	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 14:50	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 14:50	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 14:50	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 14:50	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 14:50	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 14:50	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 14:50	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 14:50	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 14:50	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 14:50	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 14:50	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 14:50	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 14:50	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021814-14
Date Collected: 02/18/14 15:30
Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 14:50	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 14:50	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 14:50	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 14:50	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 14:50	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 14:50	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 14:50	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 14:50	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 14:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 14:50	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120					02/20/14 14:50	1
4-Bromofluorobenzene (Surr)	100		80 - 120					02/20/14 14:50	1
Dibromofluoromethane (Surr)	96		80 - 120					02/20/14 14:50	1
Toluene-d8 (Surr)	101		80 - 120					02/20/14 14:50	1

Client Sample ID: Trip Blank
Date Collected: 02/18/14 00:00
Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 15:17	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 15:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 15:17	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 15:17	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 15:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 15:17	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 15:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 15:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 15:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 15:17	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 15:17	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 15:17	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 15:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 15:17	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 15:17	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 15:17	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 15:17	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 15:17	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 15:17	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 15:17	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 15:17	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 15:17	1
Acetone	ND		25	5.0	ug/L			02/20/14 15:17	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 15:17	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 15:17	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 15:17	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 15:17	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Trip Blank
Date Collected: 02/18/14 00:00
Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.44	ug/L			02/20/14 15:17	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 15:17	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 15:17	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 15:17	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 15:17	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 15:17	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 15:17	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 15:17	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 15:17	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 15:17	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 15:17	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 15:17	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 15:17	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 15:17	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 15:17	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 15:17	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 15:17	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 15:17	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 15:17	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 15:17	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 15:17	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 15:17	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 15:17	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 15:17	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 15:17	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 15:17	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 15:17	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 15:17	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 15:17	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 15:17	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 15:17	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 15:17	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 15:17	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 15:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					02/20/14 15:17	1
4-Bromofluorobenzene (Surr)	100		80 - 120					02/20/14 15:17	1
Dibromofluoromethane (Surr)	101		80 - 120					02/20/14 15:17	1
Toluene-d8 (Surr)	103		80 - 120					02/20/14 15:17	1

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: LB-021814-11

Date Collected: 02/18/14 12:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:08	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:08	1

Client Sample ID: LB-021814-12

Date Collected: 02/18/14 13:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:11	1
Manganese	0.0047		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:11	1

Client Sample ID: LB-021814-08

Date Collected: 02/18/14 10:25

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:15	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:15	1

Client Sample ID: LB-021814-10

Date Collected: 02/18/14 11:20

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:18	1
Manganese	0.0034		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:18	1

Client Sample ID: LB-021814-09

Date Collected: 02/18/14 11:00

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:25	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:25	1

Client Sample ID: LB-021814-13

Date Collected: 02/18/14 14:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.057		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:29	1
Manganese	0.0075		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:29	1

Client Sample ID: LB-021814-14

Date Collected: 02/18/14 15:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 02:33	1
Manganese	0.43		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 02:33	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

General Chemistry

Client Sample ID: LB-021814-11

Date Collected: 02/18/14 12:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			02/20/14 18:06	1
Chloride	4.7		0.50	0.50	mg/L			02/20/14 00:22	1
Nitrogen, Nitrate	8.7		0.10	0.10	mg/L			02/20/14 00:22	1

Client Sample ID: LB-021814-12

Date Collected: 02/18/14 13:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			02/20/14 18:06	1
Chloride	2.7		0.50	0.50	mg/L			02/20/14 01:24	1
Nitrogen, Nitrate	3.0		0.10	0.10	mg/L			02/20/14 01:24	1

Client Sample ID: LB-021814-08

Date Collected: 02/18/14 10:25

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			02/20/14 18:06	1
Chloride	4.6		0.50	0.50	mg/L			02/20/14 01:40	1
Nitrogen, Nitrate	4.9		0.10	0.10	mg/L			02/20/14 01:40	1

Client Sample ID: LB-021814-10

Date Collected: 02/18/14 11:20

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			02/20/14 18:06	1
Chloride	10		0.50	0.50	mg/L			02/20/14 01:56	1
Nitrogen, Nitrate	2.8		0.10	0.10	mg/L			02/20/14 01:56	1

Client Sample ID: LB-021814-09

Date Collected: 02/18/14 11:00

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			02/20/14 18:06	1
Chloride	ND		0.50	0.50	mg/L			02/20/14 02:11	1
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/20/14 02:11	1

Client Sample ID: LB-021814-13

Date Collected: 02/18/14 14:40

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			02/20/14 18:06	1
Chloride	13		0.50	0.50	mg/L			02/20/14 02:58	1
Nitrogen, Nitrate	4.1		0.10	0.10	mg/L			02/20/14 02:58	1

Client Sample ID: LB-021814-14

Date Collected: 02/18/14 15:30

Date Received: 02/18/14 16:50

Lab Sample ID: 250-17278-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			02/20/14 18:06	1
Chloride	30		0.50	0.50	mg/L			02/20/14 03:14	1
Nitrogen, Nitrate	0.40		0.10	0.10	mg/L			02/20/14 03:14	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 250-24654/7

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 11:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 11:41	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 11:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 11:41	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 11:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 11:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 11:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 11:41	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 11:41	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 11:41	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 11:41	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 11:41	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 11:41	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 11:41	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 11:41	1
Acetone	ND		25	5.0	ug/L			02/20/14 11:41	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 11:41	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 11:41	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 11:41	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 11:41	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 11:41	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 11:41	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 11:41	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 11:41	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 11:41	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 11:41	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 11:41	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 11:41	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 11:41	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 11:41	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 11:41	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 11:41	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 11:41	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 11:41	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 11:41	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 11:41	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 250-24654/7

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 11:41	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 11:41	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 11:41	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 11:41	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 11:41	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 11:41	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 11:41	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 11:41	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 11:41	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 11:41	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 11:41	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 11:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 11:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		02/20/14 11:41	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/20/14 11:41	1
Dibromofluoromethane (Surr)	98		80 - 120		02/20/14 11:41	1
Toluene-d8 (Surr)	99		80 - 120		02/20/14 11:41	1

Lab Sample ID: LCS 250-24654/4

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	75 - 135
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	75 - 130
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 125
1,1-Dichloroethane	20.0	19.7		ug/L		98	80 - 120
1,1-Dichloropropene	20.0	19.5		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	20.0	20.0		ug/L		100	65 - 140
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	75 - 125
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	75 - 130
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		97	70 - 135
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
1,2-Dichloroethane	20.0	18.9		ug/L		95	75 - 125
1,2-Dichloropropane	20.0	20.4		ug/L		102	80 - 130
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	75 - 135
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	75 - 125
1,3-Dichloropropane	20.0	20.1		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 120
2,2-Dichloropropane	20.0	19.2		ug/L		96	60 - 145
2-Butanone (MEK)	100	104		ug/L		104	70 - 140
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 125
2-Hexanone	100	102		ug/L		102	70 - 140

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-24654/4

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	19.5		ug/L		98	75 - 125
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	70 - 135
Acetone	100	99.3		ug/L		99	55 - 145
Benzene	20.0	19.1		ug/L		95	80 - 120
Bromobenzene	20.0	20.4		ug/L		102	75 - 120
Bromochloromethane	20.0	20.4		ug/L		102	75 - 125
Bromodichloromethane	20.0	19.7		ug/L		98	80 - 130
Bromoform	20.0	18.8		ug/L		94	55 - 135
Bromomethane	20.0	19.1		ug/L		95	35 - 150
Carbon disulfide	40.0	39.1		ug/L		98	60 - 120
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 135
Chlorobenzene	20.0	19.9		ug/L		100	80 - 125
Chloroethane	20.0	19.4		ug/L		97	75 - 125
Chloroform	20.0	19.7		ug/L		99	80 - 120
Chloromethane	20.0	19.1		ug/L		95	45 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	80 - 120
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	80 - 125
Dibromochloromethane	20.0	20.2		ug/L		101	65 - 140
Dibromomethane	20.0	20.2		ug/L		101	80 - 120
Dichlorodifluoromethane	20.0	18.6		ug/L		93	45 - 140
Ethylbenzene	20.0	19.5		ug/L		97	80 - 120
Hexachlorobutadiene	20.0	20.0		ug/L		100	60 - 150
Isopropylbenzene	20.0	19.8		ug/L		99	75 - 125
m,p-Xylene	40.0	39.4		ug/L		99	70 - 130
Methyl tert-butyl ether	20.0	19.6		ug/L		98	80 - 130
Methylene Chloride	20.0	19.3		ug/L		96	80 - 120
n-Butylbenzene	20.0	19.5		ug/L		97	75 - 130
N-Propylbenzene	20.0	19.9		ug/L		100	75 - 130
Naphthalene	20.0	20.6		ug/L		103	70 - 150
o-Xylene	20.0	19.6		ug/L		98	75 - 125
p-Isopropyltoluene	20.0	20.0		ug/L		100	65 - 130
sec-Butylbenzene	20.0	20.5		ug/L		102	60 - 130
Styrene	20.0	20.1		ug/L		100	70 - 130
tert-Butylbenzene	20.0	19.3		ug/L		96	70 - 130
Tetrachloroethene	20.0	19.2		ug/L		96	80 - 125
Toluene	20.0	19.8		ug/L		99	80 - 125
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 120
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	80 - 130
Trichloroethene	20.0	19.7		ug/L		98	80 - 135
Trichlorofluoromethane	20.0	19.7		ug/L		98	75 - 140
1,1,1,2-Tetrachloroethane	20.0	20.8		ug/L		104	65 - 140
1,2-Dibromoethane	20.0	19.8		ug/L		99	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-24654/5

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.3		ug/L		101	75 - 135	3	25
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	75 - 130	1	25
1,1,2-Trichloroethane	20.0	19.3		ug/L		97	80 - 125	5	25
1,1-Dichloroethane	20.0	19.3		ug/L		97	80 - 120	2	25
1,1-Dichloropropene	20.0	20.7		ug/L		103	80 - 120	6	25
1,2,3-Trichlorobenzene	20.0	19.7		ug/L		99	65 - 140	2	25
1,2,3-Trichloropropane	20.0	19.7		ug/L		98	75 - 125	1	25
1,2,4-Trichlorobenzene	20.0	19.9		ug/L		99	75 - 130	1	25
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	20.0	17.4		ug/L		87	70 - 135	10	25
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120	4	25
1,2-Dichloroethane	20.0	18.1		ug/L		91	75 - 125	4	25
1,2-Dichloropropane	20.0	19.7		ug/L		99	80 - 130	4	25
1,3,5-Trimethylbenzene	20.0	20.1		ug/L		100	75 - 135	0	25
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	75 - 125	4	25
1,3-Dichloropropane	20.0	19.3		ug/L		97	80 - 120	4	25
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 120	0	25
2,2-Dichloropropane	20.0	19.8		ug/L		99	60 - 145	3	25
2-Butanone (MEK)	100	101		ug/L		101	70 - 140	3	25
2-Chlorotoluene	20.0	19.6		ug/L		98	70 - 125	1	25
2-Hexanone	100	101		ug/L		101	70 - 140	1	25
4-Chlorotoluene	20.0	19.2		ug/L		96	75 - 125	1	25
4-Methyl-2-pentanone (MIBK)	100	98.0		ug/L		98	70 - 135	2	25
Acetone	100	100		ug/L		100	55 - 145	1	25
Benzene	20.0	19.1		ug/L		96	80 - 120	0	25
Bromobenzene	20.0	19.9		ug/L		100	75 - 120	2	25
Bromochloromethane	20.0	20.7		ug/L		103	75 - 125	1	25
Bromodichloromethane	20.0	19.0		ug/L		95	80 - 130	4	25
Bromoform	20.0	18.6		ug/L		93	55 - 135	1	25
Bromomethane	20.0	17.7		ug/L		88	35 - 150	8	25
Carbon disulfide	40.0	39.8		ug/L		100	60 - 120	2	25
Carbon tetrachloride	20.0	20.8		ug/L		104	70 - 135	5	25
Chlorobenzene	20.0	19.3		ug/L		97	80 - 125	3	25
Chloroethane	20.0	18.4		ug/L		92	75 - 125	5	25
Chloroform	20.0	19.2		ug/L		96	80 - 120	3	25
Chloromethane	20.0	17.9		ug/L		90	45 - 150	6	25
cis-1,2-Dichloroethane	20.0	19.5		ug/L		98	80 - 120	2	25
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	80 - 125	2	25
Dibromochloromethane	20.0	19.8		ug/L		99	65 - 140	2	25
Dibromomethane	20.0	19.3		ug/L		97	80 - 120	4	25
Dichlorodifluoromethane	20.0	19.9		ug/L		99	45 - 140	7	25
Ethylbenzene	20.0	19.8		ug/L		99	80 - 120	2	25
Hexachlorobutadiene	20.0	20.3		ug/L		101	60 - 150	1	25
Isopropylbenzene	20.0	20.1		ug/L		100	75 - 125	1	25
m,p-Xylene	40.0	40.2		ug/L		100	70 - 130	2	25
Methyl tert-butyl ether	20.0	18.8		ug/L		94	80 - 130	4	25
Methylene Chloride	20.0	18.9		ug/L		95	80 - 120	2	25
n-Butylbenzene	20.0	19.8		ug/L		99	75 - 130	2	25

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-24654/5

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
N-Propylbenzene	20.0	20.1		ug/L		101	75 - 130	1	25	
Naphthalene	20.0	20.3		ug/L		101	70 - 150	2	25	
o-Xylene	20.0	19.4		ug/L		97	75 - 125	1	25	
p-Isopropyltoluene	20.0	20.2		ug/L		101	65 - 130	1	25	
sec-Butylbenzene	20.0	21.0		ug/L		105	60 - 130	3	25	
Styrene	20.0	20.1		ug/L		100	70 - 130	0	25	
tert-Butylbenzene	20.0	19.5		ug/L		98	70 - 130	1	25	
Tetrachloroethene	20.0	19.9		ug/L		99	80 - 125	4	25	
Toluene	20.0	20.2		ug/L		101	80 - 125	2	25	
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 120	2	25	
trans-1,3-Dichloropropene	20.0	19.3		ug/L		97	80 - 130	1	25	
Trichloroethene	20.0	19.9		ug/L		99	80 - 135	1	25	
Trichlorofluoromethane	20.0	20.6		ug/L		103	75 - 140	5	25	
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	65 - 140	2	25	
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 125	1		

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-24545/1-A

Matrix: Water

Analysis Batch: 24549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24545

Analyte	MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.025	0.025	mg/L		02/18/14 23:25	02/19/14 01:13	1
Manganese	ND		0.0020	0.0020	mg/L		02/18/14 23:25	02/19/14 01:13	1

Lab Sample ID: LCS 250-24545/2-A

Matrix: Water

Analysis Batch: 24549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	2.00	2.01		mg/L		100	80 - 120	
Manganese	0.100	0.101		mg/L		101	80 - 120	

Lab Sample ID: 250-17278-4 MS

Matrix: Water

Analysis Batch: 24549

Client Sample ID: LB-021814-10

Prep Type: Dissolved

Prep Batch: 24545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	ND		2.00	2.02		mg/L		101	75 - 125	
Manganese	0.0034		0.100	0.108		mg/L		104	75 - 125	

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 250-17236-B-1-B DU
Matrix: Water
Analysis Batch: 24549

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 24545

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	ND		ND		mg/L		NC	20
Manganese	0.0026		0.00266		mg/L		3	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 250-24633/1
Matrix: Water
Analysis Batch: 24633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			02/20/14 18:06	1

Lab Sample ID: LCS 250-24633/2
Matrix: Water
Analysis Batch: 24633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	100	99.0		mg/L		99	80 - 120

Lab Sample ID: 250-17278-1 DU
Matrix: Water
Analysis Batch: 24633

Client Sample ID: LB-021814-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		145		mg/L		0	5

Lab Sample ID: 250-17278-5 DU
Matrix: Water
Analysis Batch: 24633

Client Sample ID: LB-021814-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	ND		ND		mg/L		NC	5

Method: 300.0 - Nitrate

Lab Sample ID: MB 250-24632/3
Matrix: Water
Analysis Batch: 24632

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/19/14 23:51	1

Lab Sample ID: LCS 250-24632/4
Matrix: Water
Analysis Batch: 24632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	5.00	4.74		mg/L		95	90 - 110

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 300.0 - Nitrate (Continued)

Lab Sample ID: 250-17278-1 MS
Matrix: Water
Analysis Batch: 24632

Client Sample ID: LB-021814-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	8.7		5.00	13.8		mg/L		102	80 - 120

Lab Sample ID: 250-17278-1 MSD
Matrix: Water
Analysis Batch: 24632

Client Sample ID: LB-021814-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	8.7		5.00	13.9		mg/L		104	80 - 120	1	20

Lab Sample ID: 250-17278-1 DU
Matrix: Water
Analysis Batch: 24632

Client Sample ID: LB-021814-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Nitrate	8.7		8.73		mg/L		0.1	20

Method: 300.0 - Chloride

Lab Sample ID: MB 250-24631/3
Matrix: Water
Analysis Batch: 24631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			02/19/14 23:51	1

Lab Sample ID: LCS 250-24631/4
Matrix: Water
Analysis Batch: 24631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: 250-17278-1 MSD
Matrix: Water
Analysis Batch: 24631

Client Sample ID: LB-021814-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.7		5.00	9.42		mg/L		94	80 - 120	1	20

Lab Sample ID: 250-17305-I-4 MS
Matrix: Water
Analysis Batch: 24631

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.1		5.00	9.90		mg/L		97	80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method: 300.0 - Chloride (Continued)

Lab Sample ID: 250-17278-1 DU
Matrix: Water
Analysis Batch: 24631

Client Sample ID: LB-021814-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	4.7		4.72		mg/L		0.02	20

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Certification Summary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-15
USDA	Federal		P330-11-00092	02-17-14 *
Washington	State Program	10	C586	06-23-14

* Expired certification is currently pending renewal and is considered valid.



Method Summary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17278-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL PRT
300.0	Chloride	40CFR136A	TAL PRT
300.0	Nitrate	MCAWW	TAL PRT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200



250-17278 Chain of Custody

Chain of Custody Record

TestAmerica Portland
9405 SW Nimbus Avenue

Beaverton, OR 97008
phone 503.906.9200 fax 503.906.9210

Regulatory Program: DW NPDES RCRA Other

Client Contact Your Company Name here: SCS Engineers Address: 14945 SW Sequoia Pl, Ste 150 City/State/Zip: Portland, OR 97254 (xxx) xxx-xxxx Phone: 503.358.7009 (xxx) xxx-xxxx FAX: Project Name: Lechner Landfill Site: 041450.01 10421050.17 P O #		Project Manager: J Davern Tel/Fax: 503.639-9548 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS <input checked="" type="checkbox"/> TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: T Andrews Lab Contact: Es. Fat Date: 2/18/14 Carrier: Drop off Walk-in Client: Lab Sampling: Job / SDG No.: Sampler:		COC No.: _____ of _____ COCs For Lab Use Only: Sample Specific Notes:				
Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Analysis	Carrier	Date
LB-021814-11	2/18/14	1240	G	W	5	X	X	Dissolved Metals	Es. Fat	2/18/14
LB-021814-12	2/18/14	1330	G	W	5	X	X	860 VOCs	Es. Fat	2/18/14
LB-021814-08	2/18/14	1025	G	W	5	X	X	(Fe and Mn)	Es. Fat	2/18/14
LB-021814-10	2/18/14	1120	G	W	5	X	X	TDS (601)	Es. Fat	2/18/14
LB-021814-09	2/18/14	1100	G	W	5	X	X	Chloride (300)	Es. Fat	2/18/14
LB-021814-13	2/18/14	1440	G	W	5	X	X	Urate (300)	Es. Fat	2/18/14
LB-021814-14	2/18/14	1530	G	W	5	X	X		Es. Fat	2/18/14
Trip Blank	-	-	-	W	1	X	X		Es. Fat	2/18/14

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____

Relinquished by: *[Signature]* Company: **SCS**

Relinquished by: *[Signature]* Company: **Tom Kruse**

Relinquished by: _____ Company: _____

Therm ID No.: _____

Date/Time: **2/18/14 1650**

Date/Time: _____

Date/Time: _____

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-17278-1

Login Number: 17278

List Source: TestAmerica Portland

List Number: 1

Creator: Krause, Thomas A

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No sampler name on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-17311-1

TestAmerica SDG: 04214030.01 104214030.17

Client Project/Site: Leichner Landfill

For:

SCS Engineers
14945 SW Sequoia Parkway
Suite 180
Portland, Oregon 97224

Attn: Mr. Jason Davendonis



Authorized for release by:
2/25/2014 3:20:28 PM

Erica Fot, Project Management Assistant II
erica.fot@testamericainc.com

Designee for

Vanessa Berry, Project Manager I
(503)906-9233

vanessa.berry@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-17311-1	LB-021914-17	Water	02/19/14 11:40	02/19/14 16:40
250-17311-2	LB-021914-18	Water	02/19/14 11:15	02/19/14 16:40
250-17311-3	LB-021914-19	Water	02/19/14 12:00	02/19/14 16:40
250-17311-4	LB-021914-21	Water	02/19/14 14:15	02/19/14 16:40
250-17311-5	LB-021914-22	Water	02/19/14 14:55	02/19/14 16:40
250-17311-6	LB-021914-23	Water	02/19/14 15:40	02/19/14 16:40
250-17311-7	LB-021914-15	Water	02/19/14 10:25	02/19/14 16:40
250-17311-8	LB-021914-16	Water	02/19/14 10:50	02/19/14 16:40
250-17311-9	LB-021914-20	Water	02/19/14 13:10	02/19/14 16:40
250-17311-10	Trip Blank	Water	02/19/14 00:00	02/19/14 16:40

Case Narrative

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Job ID: 250-17311-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-17311-1

Comments

No additional comments.

Receipt

The samples were received on 2/19/2014 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.7° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 24654.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LB-021914-17

Date Collected: 02/19/14 11:40

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 16:38	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 16:38	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 16:38	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 16:38	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 16:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 16:38	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 16:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 16:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 16:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 16:38	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 16:38	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 16:38	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 16:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 16:38	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 16:38	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 16:38	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 16:38	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 16:38	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 16:38	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 16:38	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 16:38	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 16:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 16:38	1
Acetone	ND		25	5.0	ug/L			02/20/14 16:38	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 16:38	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 16:38	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 16:38	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 16:38	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 16:38	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 16:38	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 16:38	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 16:38	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 16:38	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 16:38	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 16:38	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 16:38	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 16:38	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 16:38	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 16:38	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 16:38	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 16:38	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 16:38	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 16:38	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 16:38	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 16:38	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 16:38	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 16:38	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 16:38	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 16:38	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-17
Date Collected: 02/19/14 11:40
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 16:38	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 16:38	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 16:38	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 16:38	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 16:38	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 16:38	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 16:38	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 16:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 16:38	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 16:38	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 16:38	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 16:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 16:38	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120					02/20/14 16:38	1
4-Bromofluorobenzene (Surr)	95		80 - 120					02/20/14 16:38	1
Dibromofluoromethane (Surr)	98		80 - 120					02/20/14 16:38	1
Toluene-d8 (Surr)	101		80 - 120					02/20/14 16:38	1

Client Sample ID: LB-021914-18
Date Collected: 02/19/14 11:15
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 17:05	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 17:05	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 17:05	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 17:05	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 17:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 17:05	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 17:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 17:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 17:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 17:05	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 17:05	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 17:05	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 17:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 17:05	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 17:05	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 17:05	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 17:05	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 17:05	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 17:05	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 17:05	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 17:05	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 17:05	1
Acetone	ND		25	5.0	ug/L			02/20/14 17:05	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 17:05	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-18
Date Collected: 02/19/14 11:15
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 17:05	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 17:05	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 17:05	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 17:05	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 17:05	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 17:05	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 17:05	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 17:05	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 17:05	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 17:05	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 17:05	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 17:05	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 17:05	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 17:05	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 17:05	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 17:05	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 17:05	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 17:05	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 17:05	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 17:05	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 17:05	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 17:05	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 17:05	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 17:05	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 17:05	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 17:05	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 17:05	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 17:05	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 17:05	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 17:05	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 17:05	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 17:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 17:05	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 17:05	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 17:05	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 17:05	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 17:05	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		02/20/14 17:05	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/20/14 17:05	1
Dibromofluoromethane (Surr)	99		80 - 120		02/20/14 17:05	1
Toluene-d8 (Surr)	102		80 - 120		02/20/14 17:05	1

Client Sample ID: LB-021914-19
Date Collected: 02/19/14 12:00
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 17:32	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-19

Date Collected: 02/19/14 12:00

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 17:32	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 17:32	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 17:32	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 17:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 17:32	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 17:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 17:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 17:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 17:32	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 17:32	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 17:32	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 17:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 17:32	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 17:32	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 17:32	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 17:32	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 17:32	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 17:32	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 17:32	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 17:32	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 17:32	1
Acetone	ND		25	5.0	ug/L			02/20/14 17:32	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 17:32	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 17:32	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 17:32	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 17:32	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 17:32	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 17:32	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 17:32	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 17:32	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 17:32	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 17:32	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 17:32	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 17:32	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 17:32	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 17:32	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 17:32	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 17:32	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 17:32	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 17:32	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 17:32	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 17:32	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 17:32	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 17:32	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 17:32	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 17:32	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 17:32	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 17:32	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-19
Date Collected: 02/19/14 12:00
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 17:32	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 17:32	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 17:32	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 17:32	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 17:32	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 17:32	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 17:32	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 17:32	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 17:32	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 17:32	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 17:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 17:32	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120					02/20/14 17:32	1
4-Bromofluorobenzene (Surr)	102		80 - 120					02/20/14 17:32	1
Dibromofluoromethane (Surr)	102		80 - 120					02/20/14 17:32	1
Toluene-d8 (Surr)	102		80 - 120					02/20/14 17:32	1

Client Sample ID: LB-021914-21
Date Collected: 02/19/14 14:15
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 17:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 17:59	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 17:59	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 17:59	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 17:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 17:59	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 17:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 17:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 17:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 17:59	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 17:59	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 17:59	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 17:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 17:59	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 17:59	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 17:59	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 17:59	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 17:59	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 17:59	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 17:59	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 17:59	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 17:59	1
Acetone	ND		25	5.0	ug/L			02/20/14 17:59	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 17:59	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 17:59	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-21
Date Collected: 02/19/14 14:15
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 17:59	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 17:59	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 17:59	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 17:59	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 17:59	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 17:59	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 17:59	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 17:59	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 17:59	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 17:59	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 17:59	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 17:59	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 17:59	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 17:59	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 17:59	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 17:59	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 17:59	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 17:59	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 17:59	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 17:59	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 17:59	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 17:59	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 17:59	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 17:59	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 17:59	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 17:59	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 17:59	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 17:59	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 17:59	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 17:59	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 17:59	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 17:59	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 17:59	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 17:59	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 17:59	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 17:59	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		02/20/14 17:59	1
4-Bromofluorobenzene (Surr)	99		80 - 120		02/20/14 17:59	1
Dibromofluoromethane (Surr)	101		80 - 120		02/20/14 17:59	1
Toluene-d8 (Surr)	103		80 - 120		02/20/14 17:59	1

Client Sample ID: LB-021914-22
Date Collected: 02/19/14 14:55
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 18:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 18:26	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-22
Date Collected: 02/19/14 14:55
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 18:26	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 18:26	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 18:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 18:26	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 18:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 18:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 18:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 18:26	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 18:26	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 18:26	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 18:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 18:26	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 18:26	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 18:26	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 18:26	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 18:26	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 18:26	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 18:26	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 18:26	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 18:26	1
Acetone	ND		25	5.0	ug/L			02/20/14 18:26	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 18:26	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 18:26	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 18:26	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 18:26	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 18:26	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 18:26	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 18:26	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 18:26	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 18:26	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 18:26	1
Chloroform	0.19	J	0.50	0.10	ug/L			02/20/14 18:26	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 18:26	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 18:26	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 18:26	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 18:26	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 18:26	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 18:26	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 18:26	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 18:26	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 18:26	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 18:26	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 18:26	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 18:26	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 18:26	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 18:26	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 18:26	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 18:26	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-22
Date Collected: 02/19/14 14:55
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 18:26	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 18:26	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 18:26	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 18:26	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 18:26	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 18:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 18:26	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 18:26	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 18:26	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 18:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 18:26	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					02/20/14 18:26	1
4-Bromofluorobenzene (Surr)	99		80 - 120					02/20/14 18:26	1
Dibromofluoromethane (Surr)	102		80 - 120					02/20/14 18:26	1
Toluene-d8 (Surr)	102		80 - 120					02/20/14 18:26	1

Client Sample ID: LB-021914-23
Date Collected: 02/19/14 15:40
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 18:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 18:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 18:53	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 18:53	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 18:53	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 18:53	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 18:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 18:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 18:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 18:53	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 18:53	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 18:53	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 18:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 18:53	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 18:53	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 18:53	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 18:53	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 18:53	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 18:53	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 18:53	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 18:53	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 18:53	1
Acetone	ND		25	5.0	ug/L			02/20/14 18:53	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 18:53	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 18:53	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 18:53	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-23
Date Collected: 02/19/14 15:40
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 18:53	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 18:53	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 18:53	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 18:53	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 18:53	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 18:53	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 18:53	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 18:53	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 18:53	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 18:53	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 18:53	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 18:53	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 18:53	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 18:53	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 18:53	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 18:53	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 18:53	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 18:53	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 18:53	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 18:53	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 18:53	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 18:53	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 18:53	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 18:53	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 18:53	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 18:53	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 18:53	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 18:53	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 18:53	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 18:53	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 18:53	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 18:53	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 18:53	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 18:53	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 18:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		02/20/14 18:53	1
4-Bromofluorobenzene (Surr)	99		80 - 120		02/20/14 18:53	1
Dibromofluoromethane (Surr)	103		80 - 120		02/20/14 18:53	1
Toluene-d8 (Surr)	102		80 - 120		02/20/14 18:53	1

Client Sample ID: LB-021914-15
Date Collected: 02/19/14 10:25
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 19:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 19:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 19:20	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-15
Date Collected: 02/19/14 10:25
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 19:20	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 19:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 19:20	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 19:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 19:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 19:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 19:20	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 19:20	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 19:20	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 19:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 19:20	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 19:20	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 19:20	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 19:20	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 19:20	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 19:20	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 19:20	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 19:20	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 19:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 19:20	1
Acetone	ND		25	5.0	ug/L			02/20/14 19:20	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 19:20	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 19:20	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 19:20	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 19:20	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 19:20	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 19:20	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 19:20	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 19:20	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 19:20	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 19:20	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 19:20	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 19:20	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 19:20	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 19:20	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 19:20	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 19:20	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 19:20	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 19:20	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 19:20	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 19:20	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 19:20	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 19:20	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 19:20	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 19:20	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 19:20	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 19:20	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 19:20	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 19:20	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-15
Date Collected: 02/19/14 10:25
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 19:20	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 19:20	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 19:20	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 19:20	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 19:20	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 19:20	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 19:20	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 19:20	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 19:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 19:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					02/20/14 19:20	1
4-Bromofluorobenzene (Surr)	99		80 - 120					02/20/14 19:20	1
Dibromofluoromethane (Surr)	100		80 - 120					02/20/14 19:20	1
Toluene-d8 (Surr)	103		80 - 120					02/20/14 19:20	1

Client Sample ID: LB-021914-16
Date Collected: 02/19/14 10:50
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 19:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 19:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 19:47	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 19:47	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 19:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 19:47	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 19:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 19:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 19:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 19:47	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 19:47	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 19:47	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 19:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 19:47	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 19:47	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 19:47	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 19:47	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 19:47	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 19:47	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 19:47	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 19:47	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 19:47	1
Acetone	ND		25	5.0	ug/L			02/20/14 19:47	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 19:47	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 19:47	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 19:47	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 19:47	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-16

Date Collected: 02/19/14 10:50

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.44	ug/L			02/20/14 19:47	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 19:47	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 19:47	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 19:47	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 19:47	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 19:47	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 19:47	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 19:47	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 19:47	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 19:47	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 19:47	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 19:47	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 19:47	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 19:47	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 19:47	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 19:47	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 19:47	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 19:47	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 19:47	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 19:47	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 19:47	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 19:47	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 19:47	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 19:47	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 19:47	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 19:47	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 19:47	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 19:47	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 19:47	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 19:47	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 19:47	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 19:47	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 19:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 19:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		02/20/14 19:47	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/20/14 19:47	1
Dibromofluoromethane (Surr)	102		80 - 120		02/20/14 19:47	1
Toluene-d8 (Surr)	103		80 - 120		02/20/14 19:47	1

Client Sample ID: LB-021914-20

Date Collected: 02/19/14 13:10

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 20:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 20:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 20:14	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 20:14	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-20

Date Collected: 02/19/14 13:10

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 20:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 20:14	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 20:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 20:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 20:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 20:14	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 20:14	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 20:14	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 20:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 20:14	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 20:14	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 20:14	1
1,4-Dichlorobenzene	0.23	J	0.50	0.16	ug/L			02/20/14 20:14	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 20:14	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 20:14	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 20:14	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 20:14	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 20:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 20:14	1
Acetone	ND		25	5.0	ug/L			02/20/14 20:14	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 20:14	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 20:14	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 20:14	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 20:14	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 20:14	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 20:14	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 20:14	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 20:14	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 20:14	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 20:14	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 20:14	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 20:14	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 20:14	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 20:14	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 20:14	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 20:14	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 20:14	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 20:14	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 20:14	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 20:14	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 20:14	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 20:14	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 20:14	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 20:14	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 20:14	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 20:14	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 20:14	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 20:14	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 20:14	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-021914-20
Date Collected: 02/19/14 13:10
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.10	ug/L			02/20/14 20:14	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 20:14	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 20:14	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 20:14	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 20:14	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 20:14	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 20:14	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 20:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 20:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120					02/20/14 20:14	1
4-Bromofluorobenzene (Surr)	100		80 - 120					02/20/14 20:14	1
Dibromofluoromethane (Surr)	104		80 - 120					02/20/14 20:14	1
Toluene-d8 (Surr)	104		80 - 120					02/20/14 20:14	1

Client Sample ID: Trip Blank
Date Collected: 02/19/14 00:00
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 20:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 20:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 20:41	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 20:41	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 20:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 20:41	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 20:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 20:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 20:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 20:41	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 20:41	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 20:41	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 20:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 20:41	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 20:41	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 20:41	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 20:41	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 20:41	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 20:41	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 20:41	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 20:41	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 20:41	1
Acetone	ND		25	5.0	ug/L			02/20/14 20:41	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 20:41	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 20:41	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 20:41	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 20:41	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 20:41	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Trip Blank
Date Collected: 02/19/14 00:00
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 20:41	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 20:41	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 20:41	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 20:41	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 20:41	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 20:41	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 20:41	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 20:41	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 20:41	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 20:41	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 20:41	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 20:41	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 20:41	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 20:41	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 20:41	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 20:41	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 20:41	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 20:41	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 20:41	1
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 20:41	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 20:41	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 20:41	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 20:41	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 20:41	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 20:41	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 20:41	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 20:41	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 20:41	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 20:41	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 20:41	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 20:41	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 20:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 20:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		02/20/14 20:41	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/20/14 20:41	1
Dibromofluoromethane (Surr)	102		80 - 120		02/20/14 20:41	1
Toluene-d8 (Surr)	102		80 - 120		02/20/14 20:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: LB-021914-17

Date Collected: 02/19/14 11:40

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:17	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:17	1

Client Sample ID: LB-021914-18

Date Collected: 02/19/14 11:15

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:28	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:28	1

Client Sample ID: LB-021914-19

Date Collected: 02/19/14 12:00

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:47	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:47	1

Client Sample ID: LB-021914-21

Date Collected: 02/19/14 14:15

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:51	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:51	1

Client Sample ID: LB-021914-22

Date Collected: 02/19/14 14:55

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:55	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:55	1

Client Sample ID: LB-021914-23

Date Collected: 02/19/14 15:40

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:58	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:58	1

Client Sample ID: LB-021914-15

Date Collected: 02/19/14 10:25

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 01:02	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 01:02	1

Client Sample ID: LB-021914-16

Date Collected: 02/19/14 10:50

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-8

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 01:06	1
Manganese	0.0026		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 01:06	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: LB-021914-20

Date Collected: 02/19/14 13:10

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-9

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.075		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 01:10	1
Manganese	2.4		0.020	0.020	mg/L		02/20/14 22:28	02/21/14 13:05	10

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

General Chemistry

Client Sample ID: LB-021914-17

Date Collected: 02/19/14 11:40

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			02/24/14 10:20	1
Chloride	7.7		0.50	0.50	mg/L			02/20/14 22:04	1
Nitrogen, Nitrate	6.0		0.10	0.10	mg/L			02/20/14 22:04	1

Client Sample ID: LB-021914-18

Date Collected: 02/19/14 11:15

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			02/24/14 10:20	1
Chloride	19		0.50	0.50	mg/L			02/20/14 21:48	1
Nitrogen, Nitrate	3.9		0.10	0.10	mg/L			02/20/14 21:48	1

Client Sample ID: LB-021914-19

Date Collected: 02/19/14 12:00

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			02/24/14 10:20	1
Chloride	19		0.50	0.50	mg/L			02/20/14 22:19	1
Nitrogen, Nitrate	3.9		0.10	0.10	mg/L			02/20/14 22:19	1

Client Sample ID: LB-021914-21

Date Collected: 02/19/14 14:15

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			02/24/14 10:20	1
Chloride	4.6		0.50	0.50	mg/L			02/21/14 00:12	1
Nitrogen, Nitrate	4.7		0.10	0.10	mg/L			02/21/14 00:12	1

Client Sample ID: LB-021914-22

Date Collected: 02/19/14 14:55

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			02/24/14 10:20	1
Chloride	3.7		0.50	0.50	mg/L			02/21/14 00:27	1
Nitrogen, Nitrate	4.0		0.10	0.10	mg/L			02/21/14 00:27	1

Client Sample ID: LB-021914-23

Date Collected: 02/19/14 15:40

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			02/24/14 10:20	1
Chloride	4.9		0.50	0.50	mg/L			02/21/14 00:43	1
Nitrogen, Nitrate	1.1		0.10	0.10	mg/L			02/21/14 00:43	1

Client Sample ID: LB-021914-15

Date Collected: 02/19/14 10:25

Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			02/24/14 10:20	1
Chloride	15		0.50	0.50	mg/L			02/20/14 21:17	1
Nitrogen, Nitrate	2.3		0.10	0.10	mg/L			02/20/14 21:17	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
 SDG: 04214030.01 104214030.17

General Chemistry

Client Sample ID: LB-021914-16
Date Collected: 02/19/14 10:50
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-8
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			02/24/14 10:20	1
Chloride	8.1		0.50	0.50	mg/L			02/20/14 21:32	1
Nitrogen, Nitrate	2.5		0.10	0.10	mg/L			02/20/14 21:32	1

Client Sample ID: LB-021914-20
Date Collected: 02/19/14 13:10
Date Received: 02/19/14 16:40

Lab Sample ID: 250-17311-9
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			02/24/14 10:20	1
Chloride	13		0.50	0.50	mg/L			02/20/14 23:56	1
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/20/14 23:56	1

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 250-24654/7

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			02/20/14 11:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			02/20/14 11:41	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			02/20/14 11:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			02/20/14 11:41	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			02/20/14 11:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			02/20/14 11:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			02/20/14 11:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			02/20/14 11:41	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			02/20/14 11:41	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			02/20/14 11:41	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			02/20/14 11:41	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			02/20/14 11:41	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
2-Butanone (MEK)	ND		10	3.0	ug/L			02/20/14 11:41	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
2-Hexanone	ND		10	2.0	ug/L			02/20/14 11:41	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			02/20/14 11:41	1
Acetone	ND		25	5.0	ug/L			02/20/14 11:41	1
Benzene	ND		0.20	0.060	ug/L			02/20/14 11:41	1
Bromobenzene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
Bromochloromethane	ND		0.50	0.18	ug/L			02/20/14 11:41	1
Bromodichloromethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1
Bromoform	ND		1.0	0.44	ug/L			02/20/14 11:41	1
Bromomethane	ND		5.0	1.0	ug/L			02/20/14 11:41	1
Carbon disulfide	ND		10	2.0	ug/L			02/20/14 11:41	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			02/20/14 11:41	1
Chlorobenzene	ND		0.50	0.11	ug/L			02/20/14 11:41	1
Chloroethane	ND		0.50	0.17	ug/L			02/20/14 11:41	1
Chloroform	ND		0.50	0.10	ug/L			02/20/14 11:41	1
Chloromethane	ND		5.0	1.0	ug/L			02/20/14 11:41	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			02/20/14 11:41	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
Dibromochloromethane	ND		1.0	0.21	ug/L			02/20/14 11:41	1
Dibromomethane	ND		0.50	0.17	ug/L			02/20/14 11:41	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			02/20/14 11:41	1
Ethylbenzene	ND		0.50	0.10	ug/L			02/20/14 11:41	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			02/20/14 11:41	1
Isopropylbenzene	ND		2.0	0.50	ug/L			02/20/14 11:41	1
m,p-Xylene	ND		1.0	0.25	ug/L			02/20/14 11:41	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			02/20/14 11:41	1
Methylene Chloride	ND		5.0	1.0	ug/L			02/20/14 11:41	1
n-Butylbenzene	ND		5.0	1.0	ug/L			02/20/14 11:41	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 250-24654/7

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.20	ug/L			02/20/14 11:41	1
Naphthalene	ND		2.0	0.20	ug/L			02/20/14 11:41	1
o-Xylene	ND		0.50	0.13	ug/L			02/20/14 11:41	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			02/20/14 11:41	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			02/20/14 11:41	1
Styrene	ND		0.50	0.10	ug/L			02/20/14 11:41	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			02/20/14 11:41	1
Tetrachloroethene	ND		0.50	0.15	ug/L			02/20/14 11:41	1
Toluene	ND		0.50	0.11	ug/L			02/20/14 11:41	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/20/14 11:41	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			02/20/14 11:41	1
Trichloroethene	ND		0.50	0.13	ug/L			02/20/14 11:41	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			02/20/14 11:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			02/20/14 11:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/20/14 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		02/20/14 11:41	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/20/14 11:41	1
Dibromofluoromethane (Surr)	98		80 - 120		02/20/14 11:41	1
Toluene-d8 (Surr)	99		80 - 120		02/20/14 11:41	1

Lab Sample ID: LCS 250-24654/4

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	75 - 135
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	75 - 130
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 125
1,1-Dichloroethane	20.0	19.7		ug/L		98	80 - 120
1,1-Dichloropropene	20.0	19.5		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	20.0	20.0		ug/L		100	65 - 140
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	75 - 125
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	75 - 130
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		97	70 - 135
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
1,2-Dichloroethane	20.0	18.9		ug/L		95	75 - 125
1,2-Dichloropropane	20.0	20.4		ug/L		102	80 - 130
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	75 - 135
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	75 - 125
1,3-Dichloropropane	20.0	20.1		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 120
2,2-Dichloropropane	20.0	19.2		ug/L		96	60 - 145
2-Butanone (MEK)	100	104		ug/L		104	70 - 140
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 125
2-Hexanone	100	102		ug/L		102	70 - 140

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-24654/4

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	19.5		ug/L		98	75 - 125
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	70 - 135
Acetone	100	99.3		ug/L		99	55 - 145
Benzene	20.0	19.1		ug/L		95	80 - 120
Bromobenzene	20.0	20.4		ug/L		102	75 - 120
Bromochloromethane	20.0	20.4		ug/L		102	75 - 125
Bromodichloromethane	20.0	19.7		ug/L		98	80 - 130
Bromoform	20.0	18.8		ug/L		94	55 - 135
Bromomethane	20.0	19.1		ug/L		95	35 - 150
Carbon disulfide	40.0	39.1		ug/L		98	60 - 120
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 135
Chlorobenzene	20.0	19.9		ug/L		100	80 - 125
Chloroethane	20.0	19.4		ug/L		97	75 - 125
Chloroform	20.0	19.7		ug/L		99	80 - 120
Chloromethane	20.0	19.1		ug/L		95	45 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	80 - 120
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	80 - 125
Dibromochloromethane	20.0	20.2		ug/L		101	65 - 140
Dibromomethane	20.0	20.2		ug/L		101	80 - 120
Dichlorodifluoromethane	20.0	18.6		ug/L		93	45 - 140
Ethylbenzene	20.0	19.5		ug/L		97	80 - 120
Hexachlorobutadiene	20.0	20.0		ug/L		100	60 - 150
Isopropylbenzene	20.0	19.8		ug/L		99	75 - 125
m,p-Xylene	40.0	39.4		ug/L		99	70 - 130
Methyl tert-butyl ether	20.0	19.6		ug/L		98	80 - 130
Methylene Chloride	20.0	19.3		ug/L		96	80 - 120
n-Butylbenzene	20.0	19.5		ug/L		97	75 - 130
N-Propylbenzene	20.0	19.9		ug/L		100	75 - 130
Naphthalene	20.0	20.6		ug/L		103	70 - 150
o-Xylene	20.0	19.6		ug/L		98	75 - 125
p-Isopropyltoluene	20.0	20.0		ug/L		100	65 - 130
sec-Butylbenzene	20.0	20.5		ug/L		102	60 - 130
Styrene	20.0	20.1		ug/L		100	70 - 130
tert-Butylbenzene	20.0	19.3		ug/L		96	70 - 130
Tetrachloroethene	20.0	19.2		ug/L		96	80 - 125
Toluene	20.0	19.8		ug/L		99	80 - 125
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 120
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	80 - 130
Trichloroethene	20.0	19.7		ug/L		98	80 - 135
Trichlorofluoromethane	20.0	19.7		ug/L		98	75 - 140
1,1,1,2-Tetrachloroethane	20.0	20.8		ug/L		104	65 - 140
1,2-Dibromoethane	20.0	19.8		ug/L		99	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-24654/5

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.3		ug/L		101	75 - 135	3	25
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	75 - 130	1	25
1,1,2-Trichloroethane	20.0	19.3		ug/L		97	80 - 125	5	25
1,1-Dichloroethane	20.0	19.3		ug/L		97	80 - 120	2	25
1,1-Dichloropropene	20.0	20.7		ug/L		103	80 - 120	6	25
1,2,3-Trichlorobenzene	20.0	19.7		ug/L		99	65 - 140	2	25
1,2,3-Trichloropropane	20.0	19.7		ug/L		98	75 - 125	1	25
1,2,4-Trichlorobenzene	20.0	19.9		ug/L		99	75 - 130	1	25
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	20.0	17.4		ug/L		87	70 - 135	10	25
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120	4	25
1,2-Dichloroethane	20.0	18.1		ug/L		91	75 - 125	4	25
1,2-Dichloropropane	20.0	19.7		ug/L		99	80 - 130	4	25
1,3,5-Trimethylbenzene	20.0	20.1		ug/L		100	75 - 135	0	25
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	75 - 125	4	25
1,3-Dichloropropane	20.0	19.3		ug/L		97	80 - 120	4	25
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 120	0	25
2,2-Dichloropropane	20.0	19.8		ug/L		99	60 - 145	3	25
2-Butanone (MEK)	100	101		ug/L		101	70 - 140	3	25
2-Chlorotoluene	20.0	19.6		ug/L		98	70 - 125	1	25
2-Hexanone	100	101		ug/L		101	70 - 140	1	25
4-Chlorotoluene	20.0	19.2		ug/L		96	75 - 125	1	25
4-Methyl-2-pentanone (MIBK)	100	98.0		ug/L		98	70 - 135	2	25
Acetone	100	100		ug/L		100	55 - 145	1	25
Benzene	20.0	19.1		ug/L		96	80 - 120	0	25
Bromobenzene	20.0	19.9		ug/L		100	75 - 120	2	25
Bromochloromethane	20.0	20.7		ug/L		103	75 - 125	1	25
Bromodichloromethane	20.0	19.0		ug/L		95	80 - 130	4	25
Bromoform	20.0	18.6		ug/L		93	55 - 135	1	25
Bromomethane	20.0	17.7		ug/L		88	35 - 150	8	25
Carbon disulfide	40.0	39.8		ug/L		100	60 - 120	2	25
Carbon tetrachloride	20.0	20.8		ug/L		104	70 - 135	5	25
Chlorobenzene	20.0	19.3		ug/L		97	80 - 125	3	25
Chloroethane	20.0	18.4		ug/L		92	75 - 125	5	25
Chloroform	20.0	19.2		ug/L		96	80 - 120	3	25
Chloromethane	20.0	17.9		ug/L		90	45 - 150	6	25
cis-1,2-Dichloroethane	20.0	19.5		ug/L		98	80 - 120	2	25
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	80 - 125	2	25
Dibromochloromethane	20.0	19.8		ug/L		99	65 - 140	2	25
Dibromomethane	20.0	19.3		ug/L		97	80 - 120	4	25
Dichlorodifluoromethane	20.0	19.9		ug/L		99	45 - 140	7	25
Ethylbenzene	20.0	19.8		ug/L		99	80 - 120	2	25
Hexachlorobutadiene	20.0	20.3		ug/L		101	60 - 150	1	25
Isopropylbenzene	20.0	20.1		ug/L		100	75 - 125	1	25
m,p-Xylene	40.0	40.2		ug/L		100	70 - 130	2	25
Methyl tert-butyl ether	20.0	18.8		ug/L		94	80 - 130	4	25
Methylene Chloride	20.0	18.9		ug/L		95	80 - 120	2	25
n-Butylbenzene	20.0	19.8		ug/L		99	75 - 130	2	25

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-24654/5

Matrix: Water

Analysis Batch: 24654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
N-Propylbenzene	20.0	20.1		ug/L		101	75 - 130	1	25	
Naphthalene	20.0	20.3		ug/L		101	70 - 150	2	25	
o-Xylene	20.0	19.4		ug/L		97	75 - 125	1	25	
p-Isopropyltoluene	20.0	20.2		ug/L		101	65 - 130	1	25	
sec-Butylbenzene	20.0	21.0		ug/L		105	60 - 130	3	25	
Styrene	20.0	20.1		ug/L		100	70 - 130	0	25	
tert-Butylbenzene	20.0	19.5		ug/L		98	70 - 130	1	25	
Tetrachloroethene	20.0	19.9		ug/L		99	80 - 125	4	25	
Toluene	20.0	20.2		ug/L		101	80 - 125	2	25	
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 120	2	25	
trans-1,3-Dichloropropene	20.0	19.3		ug/L		97	80 - 130	1	25	
Trichloroethene	20.0	19.9		ug/L		99	80 - 135	1	25	
Trichlorofluoromethane	20.0	20.6		ug/L		103	75 - 140	5	25	
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	65 - 140	2	25	
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 125	1		

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-24642/1-A

Matrix: Water

Analysis Batch: 24651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24642

Analyte	MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.025	0.025	mg/L		02/20/14 22:28	02/21/14 00:06	1
Manganese	ND		0.0020	0.0020	mg/L		02/20/14 22:28	02/21/14 00:06	1

Lab Sample ID: LCS 250-24642/2-A

Matrix: Water

Analysis Batch: 24651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	2.00	1.89		mg/L		94	80 - 120	
Manganese	0.100	0.0982		mg/L		98	80 - 120	

Lab Sample ID: 250-17311-2 MS

Matrix: Water

Analysis Batch: 24651

Client Sample ID: LB-021914-18

Prep Type: Dissolved

Prep Batch: 24642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	ND		2.00	1.86		mg/L		93	75 - 125	
Manganese	ND		0.100	0.0975		mg/L		97	75 - 125	

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 250-17311-1 DU
Matrix: Water
Analysis Batch: 24651

Client Sample ID: LB-021914-17
Prep Type: Dissolved
Prep Batch: 24642

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Iron	ND		ND		mg/L		NC	20
Manganese	ND		ND		mg/L		NC	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 250-24688/1
Matrix: Water
Analysis Batch: 24688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	ND		10	10	mg/L			02/24/14 10:20	1

Lab Sample ID: LCS 250-24688/2
Matrix: Water
Analysis Batch: 24688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 250-17305-B-1 DU
Matrix: Water
Analysis Batch: 24688

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	100		101		mg/L		0	5

Method: 300.0 - Nitrate

Lab Sample ID: MB 250-24661/12
Matrix: Water
Analysis Batch: 24661

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			02/20/14 20:46	1

Lab Sample ID: LCS 250-24661/13
Matrix: Water
Analysis Batch: 24661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 250-17311-3 MS
Matrix: Water
Analysis Batch: 24661

Client Sample ID: LB-021914-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method: 300.0 - Nitrate (Continued)

Lab Sample ID: 250-17311-3 MSD
Matrix: Water
Analysis Batch: 24661

Client Sample ID: LB-021914-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	3.9		5.00	9.12		mg/L		104	80 - 120	2	20

Lab Sample ID: 250-17311-3 DU
Matrix: Water
Analysis Batch: 24661

Client Sample ID: LB-021914-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Nitrate	3.9		3.94		mg/L		0.07	20

Method: 300.0 - Chloride

Lab Sample ID: MB 250-24658/12
Matrix: Water
Analysis Batch: 24658

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.50	mg/L			02/20/14 20:46	1

Lab Sample ID: LCS 250-24658/13
Matrix: Water
Analysis Batch: 24658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.88		mg/L		98	90 - 110

Lab Sample ID: 250-17311-3 MS
Matrix: Water
Analysis Batch: 24658

Client Sample ID: LB-021914-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19		5.00	22.7	F1	mg/L		74	80 - 120

Lab Sample ID: 250-17311-3 MSD
Matrix: Water
Analysis Batch: 24658

Client Sample ID: LB-021914-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	19		5.00	22.9	F1	mg/L		77	80 - 120	1	20

Lab Sample ID: 250-17311-3 DU
Matrix: Water
Analysis Batch: 24658

Client Sample ID: LB-021914-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	19		19.0		mg/L		0.2	20

Certification Summary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-15
USDA	Federal		P330-11-00092	02-17-14 *
Washington	State Program	10	C586	06-23-14

* Expired certification is currently pending renewal and is considered valid.



Method Summary

Client: SCS Engineers
Project/Site: Leichner Landfill

TestAmerica Job ID: 250-17311-1
SDG: 04214030.01 104214030.17

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL PRT
300.0	Chloride	40CFR136A	TAL PRT
300.0	Nitrate	MCAWW	TAL PRT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Chain of Custody Record



250-17311 Chain of Custody

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RORA Other:

Client Contact
 Your Company Name here: SCS Engineers
 Address: 1945 SW Seaside Blvd, Ste 150
 City/State/Zip: Portland OR 97234
 Phone: 503 358-1029
 FAX:
 Project Name: Leichter Landfill
 Site: 0424030.01 104214030.17
 P O #

Project Manager: J. DeVendomis
Tel/Fax: 503 639-9548
 Analysis Turnaround Time: CALENDAR DAYS WORKING DAYS
 TAT if different from Below: 2 weeks 1 week 2 days 1 day

Site Contact: T. Andrews
Lab Contact: Erica Feit
 Date: 2/19/14
 Carrier:
 COC No.: 1 of 1 COCs

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix	# of Cont.	Sample Specific Notes:	
						Filtered Sample (N)	Perform MS/MSB (N)
LB-021914-17	2/19/14	1140	G	W	5	X	X
LB-021914-18	2/19/14	1115	G	W	5	X	X
LB-021914-19	2/19/14	1200	G	W	5	X	X
LB-021914-21	2/19/14	1415	G	W	5	X	X
LB-021914-22	2/19/14	1455	G	W	5	X	X
LB-021914-23	2/19/14	1540	G	W	5	X	X
LB-021914-15	2/19/14	1025	G	W	5	X	X
LB-021914-16	2/19/14	1050	G	W	5	X	X
LB-021914-20	2/19/14	1310	G	W	5	X	X
Trip Blank	-	-	-	W	1	X	X

Preservation Used: 1=Ce, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal by Lab Return to Client Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes No

Relinquished by: Tom Kransse
 Date/Time: 2/19/2014
 Company: SCS

Received by: Tom Kransse
 Date/Time: 2/19/2014
 Company: TAR

Relinquished by: Tom Kransse
 Date/Time: 2/19/2014
 Company: TAR

Received by: Tom Kransse
 Date/Time: 2/19/2014
 Company: TAR

Therm ID No.: 021914 1640

121014 5-702



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-17311-1
SDG Number: 04214030.01 104214030.17

Login Number: 17311

List Number: 1

Creator: Krause, Thomas A

List Source: TestAmerica Portland

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Third Quarter (August) Laboratory Data Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-20810-1

TestAmerica Sample Delivery Group: 04214030.01/04214030.7
Client Project/Site: Leichner Landfill - Wash.

For:

SCS Engineers
14945 SW Sequoia Parkway
Suite 180
Portland, Oregon 97224

Attn: Mr. Jason Davendonis

Vanessa Berry

Authorized for release by:
8/29/2014 2:06:12 PM

Vanessa Berry, Project Manager II
(503)906-9233
vanessa.berry@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-20810-1	LB-081314-01	Water	08/13/14 10:25	08/14/14 10:20
250-20810-2	LB-081314-06	Water	08/13/14 15:30	08/14/14 10:20
250-20810-3	LB-081314-07	Water	08/13/14 15:00	08/14/14 10:20
250-20810-4	LB-081314-04	Water	08/13/14 13:25	08/14/14 10:20
250-20810-5	LB-081314-05	Water	08/13/14 14:20	08/14/14 10:20
250-20810-6	LB-081314-03	Water	08/13/14 11:40	08/14/14 10:20
250-20810-7	LB-081314-02	Water	08/13/14 11:00	08/14/14 10:20
250-20810-8	Trip Blank	Water	08/13/14 00:00	08/14/14 10:20



Case Narrative

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Job ID: 250-20810-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-20810-1

Comments

No additional comments.

Receipt

The samples were received on 8/14/2014 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 29690.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
 SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LB-081314-01

Date Collected: 08/13/14 10:25

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 13:51	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 13:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 13:51	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 13:51	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 13:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 13:51	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 13:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 13:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 13:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 13:51	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 13:51	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 13:51	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 13:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 13:51	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 13:51	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 13:51	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 13:51	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 13:51	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 13:51	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 13:51	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 13:51	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 13:51	1
Acetone	ND		25	5.0	ug/L			08/19/14 13:51	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 13:51	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 13:51	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 13:51	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 13:51	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 13:51	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 13:51	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 13:51	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 13:51	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 13:51	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 13:51	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 13:51	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 13:51	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 13:51	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 13:51	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 13:51	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 13:51	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 13:51	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 13:51	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 13:51	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 13:51	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 13:51	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 13:51	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 13:51	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 13:51	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 13:51	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-01
Date Collected: 08/13/14 10:25
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 13:51	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 13:51	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 13:51	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 13:51	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 13:51	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 13:51	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 13:51	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 13:51	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 13:51	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 13:51	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 13:51	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 13:51	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 13:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120					08/19/14 13:51	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/19/14 13:51	1
Dibromofluoromethane (Surr)	101		80 - 120					08/19/14 13:51	1
Toluene-d8 (Surr)	99		80 - 120					08/19/14 13:51	1

Client Sample ID: LB-081314-06
Date Collected: 08/13/14 15:30
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 14:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 14:13	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 14:13	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 14:13	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 14:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 14:13	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 14:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 14:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 14:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 14:13	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 14:13	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 14:13	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 14:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 14:13	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 14:13	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 14:13	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 14:13	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 14:13	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 14:13	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 14:13	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 14:13	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 14:13	1
Acetone	ND		25	5.0	ug/L			08/19/14 14:13	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 14:13	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-06
Date Collected: 08/13/14 15:30
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 14:13	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 14:13	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 14:13	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 14:13	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 14:13	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 14:13	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 14:13	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 14:13	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 14:13	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 14:13	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 14:13	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 14:13	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 14:13	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 14:13	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 14:13	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 14:13	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 14:13	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 14:13	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 14:13	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 14:13	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 14:13	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 14:13	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 14:13	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 14:13	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 14:13	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 14:13	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 14:13	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 14:13	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 14:13	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 14:13	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 14:13	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 14:13	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 14:13	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 14:13	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 14:13	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 14:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 14:13	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		08/19/14 14:13	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/19/14 14:13	1
Dibromofluoromethane (Surr)	99		80 - 120		08/19/14 14:13	1
Toluene-d8 (Surr)	99		80 - 120		08/19/14 14:13	1

Client Sample ID: LB-081314-07
Date Collected: 08/13/14 15:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 14:35	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-07
Date Collected: 08/13/14 15:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 14:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 14:35	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 14:35	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 14:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 14:35	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 14:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 14:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 14:35	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 14:35	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 14:35	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 14:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 14:35	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 14:35	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 14:35	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 14:35	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 14:35	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 14:35	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 14:35	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 14:35	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 14:35	1
Acetone	ND		25	5.0	ug/L			08/19/14 14:35	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 14:35	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 14:35	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 14:35	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 14:35	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 14:35	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 14:35	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 14:35	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 14:35	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 14:35	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 14:35	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 14:35	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 14:35	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 14:35	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 14:35	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 14:35	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 14:35	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 14:35	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 14:35	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 14:35	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 14:35	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 14:35	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 14:35	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 14:35	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 14:35	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 14:35	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 14:35	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-07
Date Collected: 08/13/14 15:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 14:35	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 14:35	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 14:35	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 14:35	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 14:35	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 14:35	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 14:35	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 14:35	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 14:35	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 14:35	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 14:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 14:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		08/19/14 14:35	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/19/14 14:35	1
Dibromofluoromethane (Surr)	100		80 - 120		08/19/14 14:35	1
Toluene-d8 (Surr)	98		80 - 120		08/19/14 14:35	1

Client Sample ID: LB-081314-04
Date Collected: 08/13/14 13:25
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 14:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 14:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 14:57	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 14:57	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 14:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 14:57	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 14:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 14:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 14:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 14:57	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 14:57	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 14:57	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 14:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 14:57	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 14:57	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 14:57	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 14:57	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 14:57	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 14:57	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 14:57	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 14:57	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 14:57	1
Acetone	ND		25	5.0	ug/L			08/19/14 14:57	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 14:57	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 14:57	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-04
Date Collected: 08/13/14 13:25
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 14:57	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 14:57	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 14:57	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 14:57	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 14:57	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 14:57	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 14:57	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 14:57	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 14:57	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 14:57	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 14:57	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 14:57	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 14:57	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 14:57	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 14:57	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 14:57	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 14:57	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 14:57	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 14:57	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 14:57	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 14:57	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 14:57	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 14:57	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 14:57	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 14:57	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 14:57	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 14:57	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 14:57	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 14:57	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 14:57	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 14:57	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 14:57	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 14:57	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 14:57	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 14:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 14:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		08/19/14 14:57	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/19/14 14:57	1
Dibromofluoromethane (Surr)	100		80 - 120		08/19/14 14:57	1
Toluene-d8 (Surr)	100		80 - 120		08/19/14 14:57	1

Client Sample ID: LB-081314-05
Date Collected: 08/13/14 14:20
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 15:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 15:20	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
 SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-05
Date Collected: 08/13/14 14:20
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 15:20	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 15:20	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 15:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 15:20	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 15:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 15:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 15:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 15:20	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 15:20	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 15:20	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 15:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 15:20	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 15:20	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 15:20	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 15:20	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 15:20	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 15:20	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 15:20	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 15:20	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 15:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 15:20	1
Acetone	ND		25	5.0	ug/L			08/19/14 15:20	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 15:20	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 15:20	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 15:20	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 15:20	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 15:20	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 15:20	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 15:20	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 15:20	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 15:20	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 15:20	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 15:20	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 15:20	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 15:20	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 15:20	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 15:20	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 15:20	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 15:20	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 15:20	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 15:20	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 15:20	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 15:20	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 15:20	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 15:20	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 15:20	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 15:20	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 15:20	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 15:20	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-05
Date Collected: 08/13/14 14:20
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 15:20	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 15:20	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 15:20	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 15:20	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 15:20	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 15:20	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 15:20	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 15:20	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 15:20	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 15:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 15:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					08/19/14 15:20	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/19/14 15:20	1
Dibromofluoromethane (Surr)	99		80 - 120					08/19/14 15:20	1
Toluene-d8 (Surr)	99		80 - 120					08/19/14 15:20	1

Client Sample ID: LB-081314-03
Date Collected: 08/13/14 11:40
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 15:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 15:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 15:42	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 15:42	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 15:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 15:42	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 15:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 15:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 15:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 15:42	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 15:42	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 15:42	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 15:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 15:42	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 15:42	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 15:42	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 15:42	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 15:42	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 15:42	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 15:42	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 15:42	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 15:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 15:42	1
Acetone	ND		25	5.0	ug/L			08/19/14 15:42	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 15:42	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 15:42	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 15:42	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-03
Date Collected: 08/13/14 11:40
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 15:42	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 15:42	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 15:42	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 15:42	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 15:42	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 15:42	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 15:42	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 15:42	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 15:42	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 15:42	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 15:42	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 15:42	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 15:42	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 15:42	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 15:42	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 15:42	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 15:42	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 15:42	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 15:42	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 15:42	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 15:42	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 15:42	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 15:42	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 15:42	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 15:42	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 15:42	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 15:42	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 15:42	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 15:42	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 15:42	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 15:42	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 15:42	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 15:42	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 15:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 15:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		08/19/14 15:42	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/19/14 15:42	1
Dibromofluoromethane (Surr)	97		80 - 120		08/19/14 15:42	1
Toluene-d8 (Surr)	98		80 - 120		08/19/14 15:42	1

Client Sample ID: LB-081314-02
Date Collected: 08/13/14 11:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 16:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 16:04	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-02
Date Collected: 08/13/14 11:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 16:04	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 16:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 16:04	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 16:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 16:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 16:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 16:04	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 16:04	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 16:04	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 16:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 16:04	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 16:04	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 16:04	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 16:04	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 16:04	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 16:04	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 16:04	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 16:04	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 16:04	1
Acetone	ND		25	5.0	ug/L			08/19/14 16:04	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 16:04	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 16:04	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 16:04	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 16:04	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 16:04	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 16:04	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 16:04	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 16:04	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 16:04	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 16:04	1
Chloroform	0.30	J	0.50	0.10	ug/L			08/19/14 16:04	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 16:04	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 16:04	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 16:04	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 16:04	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 16:04	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 16:04	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 16:04	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 16:04	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 16:04	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 16:04	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 16:04	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 16:04	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 16:04	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 16:04	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 16:04	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 16:04	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 16:04	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081314-02
Date Collected: 08/13/14 11:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 16:04	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 16:04	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 16:04	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 16:04	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 16:04	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 16:04	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 16:04	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 16:04	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 16:04	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 16:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120					08/19/14 16:04	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/19/14 16:04	1
Dibromofluoromethane (Surr)	99		80 - 120					08/19/14 16:04	1
Toluene-d8 (Surr)	99		80 - 120					08/19/14 16:04	1

Client Sample ID: Trip Blank
Date Collected: 08/13/14 00:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 16:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 16:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 16:27	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 16:27	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 16:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 16:27	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 16:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 16:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 16:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 16:27	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 16:27	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 16:27	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 16:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 16:27	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 16:27	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 16:27	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 16:27	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 16:27	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 16:27	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 16:27	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 16:27	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 16:27	1
Acetone	ND		25	5.0	ug/L			08/19/14 16:27	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 16:27	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 16:27	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 16:27	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 16:27	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
 Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
 SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Trip Blank
Date Collected: 08/13/14 00:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.44	ug/L			08/19/14 16:27	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 16:27	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 16:27	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 16:27	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 16:27	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 16:27	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 16:27	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 16:27	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 16:27	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 16:27	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 16:27	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 16:27	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 16:27	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 16:27	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 16:27	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 16:27	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 16:27	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 16:27	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 16:27	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 16:27	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 16:27	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 16:27	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 16:27	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 16:27	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 16:27	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 16:27	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 16:27	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 16:27	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 16:27	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 16:27	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 16:27	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 16:27	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 16:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 16:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					08/19/14 16:27	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/19/14 16:27	1
Dibromofluoromethane (Surr)	100		80 - 120					08/19/14 16:27	1
Toluene-d8 (Surr)	99		80 - 120					08/19/14 16:27	1

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: LB-081314-01

Date Collected: 08/13/14 10:25

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 14:49	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 14:49	1

Client Sample ID: LB-081314-06

Date Collected: 08/13/14 15:30

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:24	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:24	1

Client Sample ID: LB-081314-07

Date Collected: 08/13/14 15:00

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-3

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:30	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:30	1

Client Sample ID: LB-081314-04

Date Collected: 08/13/14 13:25

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-4

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:35	1
Manganese	0.0041		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:35	1

Client Sample ID: LB-081314-05

Date Collected: 08/13/14 14:20

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-5

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:41	1
Manganese	0.0040		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:41	1

Client Sample ID: LB-081314-03

Date Collected: 08/13/14 11:40

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-6

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:46	1
Manganese	0.33		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:46	1

Client Sample ID: LB-081314-02

Date Collected: 08/13/14 11:00

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-7

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:52	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:52	1

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

General Chemistry

Client Sample ID: LB-081314-01

Date Collected: 08/13/14 10:25

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		0.30	0.30	mg/L			08/25/14 15:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	3.7		0.10	0.10	mg/L			08/15/14 00:19	1

Client Sample ID: LB-081314-06

Date Collected: 08/13/14 15:30

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		0.30	0.30	mg/L			08/25/14 16:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	0.89		0.10	0.10	mg/L			08/15/14 01:21	1

Client Sample ID: LB-081314-07

Date Collected: 08/13/14 15:00

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		0.30	0.30	mg/L			08/25/14 16:51	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	0.88		0.10	0.10	mg/L			08/15/14 01:37	1

Client Sample ID: LB-081314-04

Date Collected: 08/13/14 13:25

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		0.30	0.30	mg/L			08/25/14 17:05	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	4.0		0.10	0.10	mg/L			08/15/14 01:53	1

Client Sample ID: LB-081314-05

Date Collected: 08/13/14 14:20

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		0.30	0.30	mg/L			08/25/14 17:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	5.1		0.10	0.10	mg/L			08/15/14 02:08	1

Client Sample ID: LB-081314-03

Date Collected: 08/13/14 11:40

Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		0.30	0.30	mg/L			08/25/14 17:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	360		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			08/15/14 02:55	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
 SDG: 04214030.01/04214030.7

General Chemistry

Client Sample ID: LB-081314-02
Date Collected: 08/13/14 11:00
Date Received: 08/14/14 10:20

Lab Sample ID: 250-20810-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.30	0.30	mg/L			08/25/14 17:49	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			08/15/14 03:11	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 250-29690/7

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 10:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 10:43	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 10:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 10:43	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 10:43	1
1,2,4-Trichlorobenzene	0.177	J	1.0	0.17	ug/L			08/19/14 10:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 10:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 10:43	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 10:43	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 10:43	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 10:43	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 10:43	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 10:43	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 10:43	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 10:43	1
Acetone	ND		25	5.0	ug/L			08/19/14 10:43	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 10:43	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 10:43	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 10:43	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 10:43	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 10:43	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 10:43	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 10:43	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 10:43	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 10:43	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 10:43	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 10:43	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 10:43	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 10:43	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 10:43	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 10:43	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 10:43	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 10:43	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 10:43	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 10:43	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 10:43	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 250-29690/7

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 10:43	1
Naphthalene	0.270	J	2.0	0.20	ug/L			08/19/14 10:43	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 10:43	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 10:43	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 10:43	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 10:43	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 10:43	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 10:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 10:43	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 10:43	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 10:43	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 10:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 10:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		08/19/14 10:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/19/14 10:43	1
Dibromofluoromethane (Surr)	100		80 - 120		08/19/14 10:43	1
Toluene-d8 (Surr)	98		80 - 120		08/19/14 10:43	1

Lab Sample ID: LCS 250-29690/4

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	75 - 135
1,1,2,2-Tetrachloroethane	20.0	22.1		ug/L		110	75 - 130
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 125
1,1-Dichloroethane	20.0	19.8		ug/L		99	80 - 120
1,1-Dichloropropene	20.0	20.0		ug/L		100	80 - 120
1,2,3-Trichlorobenzene	20.0	22.1		ug/L		110	65 - 140
1,2,3-Trichloropropane	20.0	21.7		ug/L		108	75 - 125
1,2,4-Trichlorobenzene	20.0	21.3		ug/L		106	75 - 130
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	24.2		ug/L		121	70 - 135
1,2-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		98	75 - 125
1,2-Dichloropropane	20.0	19.6		ug/L		98	80 - 130
1,3,5-Trimethylbenzene	20.0	21.0		ug/L		105	75 - 135
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	75 - 125
1,3-Dichloropropane	20.0	19.6		ug/L		98	80 - 120
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	70 - 120
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 145
2-Butanone (MEK)	100	115		ug/L		115	70 - 140
2-Chlorotoluene	20.0	20.3		ug/L		102	70 - 125
2-Hexanone	100	111		ug/L		111	70 - 140

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-29690/4

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	20.1		ug/L		101	75 - 125
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	70 - 135
Acetone	100	133		ug/L		133	55 - 145
Benzene	20.0	19.5		ug/L		97	80 - 120
Bromobenzene	20.0	20.4		ug/L		102	75 - 120
Bromochloromethane	20.0	20.8		ug/L		104	75 - 125
Bromodichloromethane	20.0	19.7		ug/L		98	80 - 130
Bromoform	20.0	21.9		ug/L		110	55 - 135
Bromomethane	20.0	19.9		ug/L		100	35 - 150
Carbon disulfide	40.0	38.5		ug/L		96	60 - 120
Carbon tetrachloride	20.0	20.9		ug/L		104	70 - 135
Chlorobenzene	20.0	19.4		ug/L		97	80 - 125
Chloroethane	20.0	19.7		ug/L		99	75 - 125
Chloroform	20.0	19.6		ug/L		98	80 - 120
Chloromethane	20.0	18.0		ug/L		90	45 - 150
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	80 - 120
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	80 - 125
Dibromochloromethane	20.0	20.3		ug/L		101	65 - 140
Dibromomethane	20.0	20.5		ug/L		102	80 - 120
Dichlorodifluoromethane	20.0	18.6		ug/L		93	45 - 140
Ethylbenzene	20.0	20.4		ug/L		102	80 - 120
Hexachlorobutadiene	20.0	21.3		ug/L		106	60 - 150
Isopropylbenzene	20.0	20.6		ug/L		103	75 - 125
m,p-Xylene	40.0	40.1		ug/L		100	70 - 130
Methyl tert-butyl ether	20.0	20.0		ug/L		100	80 - 130
Methylene Chloride	20.0	19.6		ug/L		98	80 - 120
n-Butylbenzene	20.0	20.3		ug/L		102	75 - 130
N-Propylbenzene	20.0	20.7		ug/L		104	75 - 130
Naphthalene	20.0	23.1		ug/L		116	70 - 150
o-Xylene	20.0	20.1		ug/L		101	75 - 125
p-Isopropyltoluene	20.0	20.8		ug/L		104	65 - 130
sec-Butylbenzene	20.0	21.1		ug/L		106	60 - 130
Styrene	20.0	21.2		ug/L		106	70 - 130
tert-Butylbenzene	20.0	20.1		ug/L		101	70 - 130
Tetrachloroethene	20.0	20.0		ug/L		100	80 - 125
Toluene	20.0	19.1		ug/L		95	80 - 125
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 120
trans-1,3-Dichloropropene	20.0	18.3		ug/L		91	80 - 130
Trichloroethene	20.0	19.6		ug/L		98	80 - 135
Trichlorofluoromethane	20.0	20.4		ug/L		102	75 - 140
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		105	65 - 140
1,2-Dibromoethane	20.0	20.8		ug/L		104	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	100		80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-29690/5

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	75 - 135	4	25
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	75 - 130	4	25
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	80 - 125	3	25
1,1-Dichloroethane	20.0	19.1		ug/L		96	80 - 120	4	25
1,1-Dichloropropene	20.0	19.4		ug/L		97	80 - 120	3	25
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	65 - 140	6	25
1,2,3-Trichloropropane	20.0	21.2		ug/L		106	75 - 125	2	25
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		101	75 - 130	6	25
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	70 - 130	3	25
1,2-Dibromo-3-Chloropropane	20.0	22.6		ug/L		113	70 - 135	7	25
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	3	25
1,2-Dichloroethane	20.0	19.4		ug/L		97	75 - 125	1	25
1,2-Dichloropropane	20.0	19.3		ug/L		97	80 - 130	2	25
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 135	3	25
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	75 - 125	3	25
1,3-Dichloropropane	20.0	19.4		ug/L		97	80 - 120	1	25
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 120	1	25
2,2-Dichloropropane	20.0	21.1		ug/L		105	60 - 145	3	25
2-Butanone (MEK)	100	115		ug/L		115	70 - 140	0	25
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 125	0	25
2-Hexanone	100	109		ug/L		109	70 - 140	2	25
4-Chlorotoluene	20.0	20.1		ug/L		101	75 - 125	0	25
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	70 - 135	2	25
Acetone	100	128		ug/L		128	55 - 145	4	25
Benzene	20.0	19.2		ug/L		96	80 - 120	2	25
Bromobenzene	20.0	20.0		ug/L		100	75 - 120	2	25
Bromochloromethane	20.0	20.8		ug/L		104	75 - 125	0	25
Bromodichloromethane	20.0	19.6		ug/L		98	80 - 130	0	25
Bromoform	20.0	21.7		ug/L		108	55 - 135	1	25
Bromomethane	20.0	19.0		ug/L		95	35 - 150	5	25
Carbon disulfide	40.0	40.0		ug/L		100	60 - 120	4	25
Carbon tetrachloride	20.0	20.5		ug/L		103	70 - 135	2	25
Chlorobenzene	20.0	19.2		ug/L		96	80 - 125	1	25
Chloroethane	20.0	18.9		ug/L		94	75 - 125	4	25
Chloroform	20.0	19.2		ug/L		96	80 - 120	2	25
Chloromethane	20.0	17.5		ug/L		88	45 - 150	3	25
cis-1,2-Dichloroethane	20.0	19.4		ug/L		97	80 - 120	3	25
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	80 - 125	1	25
Dibromochloromethane	20.0	20.2		ug/L		101	65 - 140	0	25
Dibromomethane	20.0	20.2		ug/L		101	80 - 120	1	25
Dichlorodifluoromethane	20.0	17.7		ug/L		88	45 - 140	5	25
Ethylbenzene	20.0	19.9		ug/L		99	80 - 120	3	25
Hexachlorobutadiene	20.0	19.9		ug/L		100	60 - 150	6	25
Isopropylbenzene	20.0	20.1		ug/L		101	75 - 125	2	25
m,p-Xylene	40.0	39.4		ug/L		99	70 - 130	2	25
Methyl tert-butyl ether	20.0	20.3		ug/L		102	80 - 130	2	25
Methylene Chloride	20.0	19.2		ug/L		96	80 - 120	2	25
n-Butylbenzene	20.0	19.4		ug/L		97	75 - 130	4	25

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Lechner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-29690/5
Matrix: Water
Analysis Batch: 29690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
							RPD	Limit		
N-Propylbenzene	20.0	20.2		ug/L		101	75 - 130	3	25	
Naphthalene	20.0	21.7		ug/L		109	70 - 150	6	25	
o-Xylene	20.0	20.0		ug/L		100	75 - 125	1	25	
p-Isopropyltoluene	20.0	20.6		ug/L		103	65 - 130	1	25	
sec-Butylbenzene	20.0	20.5		ug/L		102	60 - 130	3	25	
Styrene	20.0	20.6		ug/L		103	70 - 130	3	25	
tert-Butylbenzene	20.0	19.9		ug/L		99	70 - 130	1	25	
Tetrachloroethene	20.0	19.4		ug/L		97	80 - 125	3	25	
Toluene	20.0	18.8		ug/L		94	80 - 125	1	25	
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 120	2	25	
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	80 - 130	2	25	
Trichloroethene	20.0	19.3		ug/L		97	80 - 135	2	25	
Trichlorofluoromethane	20.0	19.3		ug/L		97	75 - 140	5	25	
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		100	65 - 140	4	25	
1,2-Dibromoethane	20.0	20.4		ug/L		102	80 - 125	2		

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-29557/1-A
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29557

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 11:58	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 11:58	1

Lab Sample ID: LCS 250-29557/2-A
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							RPD	Limit
Iron	2.00	1.93		mg/L		96	80 - 120	
Manganese	0.100	0.0992		mg/L		99	80 - 120	

Lab Sample ID: 250-20797-A-6-B MS
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 29557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									RPD	Limit
Iron	1100		2.00	1100	4	mg/L		275	75 - 125	
Manganese	5.5		0.100	5.54	4	mg/L		75	75 - 125	

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 250-20827-B-1-B MS
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 29557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		2.00	1.92		mg/L		96	75 - 125
Manganese	0.0023		0.100	0.103		mg/L		101	75 - 125

Lab Sample ID: 250-20797-C-3-B DU
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 29557

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	4.4		4.54		mg/L		3	20
Manganese	2.0		2.07		mg/L		4	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 250-29666/1
Matrix: Water
Analysis Batch: 29666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			08/19/14 16:29	1

Lab Sample ID: LCS 250-29666/2
Matrix: Water
Analysis Batch: 29666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	100	98.0		mg/L		98	80 - 120

Lab Sample ID: 250-20827-A-1 DU
Matrix: Water
Analysis Batch: 29666

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	250		247		mg/L		0.4	5

Method: 300.0 - Nitrate

Lab Sample ID: MB 250-29888/3
Matrix: Water
Analysis Batch: 29888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			08/14/14 23:48	1

Lab Sample ID: LCS 250-29888/4
Matrix: Water
Analysis Batch: 29888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	5.00	5.09		mg/L		102	90 - 110

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 300.0 - Nitrate (Continued)

Lab Sample ID: 250-20810-1 MS
Matrix: Water
Analysis Batch: 29888

Client Sample ID: LB-081314-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate	3.7		5.00	9.61		mg/L		118	80 - 120

Lab Sample ID: 250-20810-1 MSD
Matrix: Water
Analysis Batch: 29888

Client Sample ID: LB-081314-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	3.7		5.00	9.69		mg/L		119	80 - 120	1	20

Lab Sample ID: 250-20810-1 DU
Matrix: Water
Analysis Batch: 29888

Client Sample ID: LB-081314-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Nitrate	3.7		3.71		mg/L		0.4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-168088/3
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.30	0.30	mg/L			08/25/14 10:32	1

Lab Sample ID: LCS 580-168088/4
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.00	9.35		mg/L		104	90 - 110

Lab Sample ID: LCSD 580-168088/5
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.00	9.38		mg/L		104	90 - 110	0	15

Lab Sample ID: 250-20810-1 MS
Matrix: Water
Analysis Batch: 168088

Client Sample ID: LB-081314-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.9		9.00	13.1		mg/L		102	90 - 110

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 250-20810-1 DU
Matrix: Water
Analysis Batch: 168088

Client Sample ID: LB-081314-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	3.9		3.83		mg/L		0.8	10

Certification Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-15
USDA	Federal		P330-11-00092	04-17-17
Washington	State Program	10	C586	06-23-15

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-113	07-25-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20810-1
SDG: 04214030.01/04214030.7

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL PRT
300.0	Nitrate	MCAWW	TAL PRT
300.0	Anions, Ion Chromatography	MCAWW	TAL SEA

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



250-20810 Chain of Custody

TESTAMERICA LABORATORIES, INC.

Chain of Custody Record

TestAmerica Portland
9405 SW Nimbus Avenue

Beaverton, OR 97008
phone 503.906.9200 fax 503.906.9210

Regulatory Program: DW NPDES RCRA Other:

Client Contact
 Your Company Name here: **SCS Eng. Servs**
 Address: **14945 SW Sequoia Pkwy, Ste 130**
 City/State/Zip: **Portland, OR 97224**
 Phone: **503.358.7209**
 FAX:

Project Name: **Lechner Landfill**
 Site: **01214030.01 / 01214030.07**
 P O #

Project Manager: **J Davendons**
 Tel/Fax: **503.639-9548**
 Analysis Turnaround Time: CALENDAR DAYS WORKING DAYS
 TAT if different from Below
 2 weeks 1 week 2 days 1 day

Site Contact: **T Andrews** Date: **8/13/14**
 Lab Contact: **Vanesa F** Carrier:

COC No: of **1** COCs
 For Lab Use Only:
 Walk-in Client:
 Lab Sampling:
 Job / SDG No.:
 Sampler: **T Andrews**

Filtered Sample (Y/N) Perform MS / MSD (Y/N) Backlog VOCs (Fe and Mn) TDS (160.1) Nitrate (500.0) Chloride (500.0)

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.
LB-081314-01	8/13/14	1025	G	W	5
LB-081314-06	8/13/14	1530	G	W	5
LB-081314-07	8/13/14	1500	G	W	5
LB-081314-04	8/13/14	1305	G	W	5
LB-081314-05	8/13/14	1420	G	W	5
LB-081314-03	8/13/14	1140	G	W	5
LB-081314-02	8/13/14	1100	G	W	5
Trip Blank			-	W	1

Sample Specific Notes:

Preservation Used: 1=Ce, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ months

Custody Seal No.: **SCS**
 Relinquished by: **T Andrews**
 Relinquished by: **Anna Nja**
 Relinquished by:

Received by: **Anna Nja**
 Received by: **DM Krane**
 Received in Laboratory by:

Company: **M-E**
 Company: **M-E**
 Company:

Date/Time: **8/13/14 1025**
 Date/Time: **8/13/14 1530**
 Date/Time: **8/13/14 1500**
 Date/Time: **8/13/14 1305**
 Date/Time: **8/13/14 1420**
 Date/Time: **8/13/14 1140**
 Date/Time: **8/13/14 1100**
 Date/Time:

Therm ID No:
 Date/Time: **8/14/14 0952**
 Date/Time: **8/14/14 1020**
 Date/Time:

Company: **M-E**
 Company: **M-E**
 Company:

Form No. CA-C-WJ-002, Rev. 4.1, dated 02/20/2013

1R18K 9-02

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-20810-1
SDG Number: 04214030.01/04214030.7

Login Number: 20810

List Number: 1

Creator: Krause, Thomas A

List Source: TestAmerica Portland

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-20810-1
SDG Number: 04214030.01/04214030.7

Login Number: 20810

List Number: 2

Creator: Abello, Andrea N

List Source: TestAmerica Seattle

List Creation: 08/22/14 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR = 2.0 / 2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-20827-1

TestAmerica Sample Delivery Group: 042.4030.01/042.4030.17
Client Project/Site: Leichner Landfill - Wash.

For:

SCS Engineers
14945 SW Sequoia Parkway
Suite 180
Portland, Oregon 97224

Attn: Mr. David Lamadrid



Authorized for release by:
8/29/2014 2:16:53 PM

Vanessa Berry, Project Manager II
(503)906-9233
vanessa.berry@testamericainc.com

LINKS

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results through
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www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-20827-1	LB-081414-08	Water	08/14/14 09:50	08/14/14 14:37
250-20827-2	LB-081414-09	Water	08/14/14 10:50	08/14/14 14:37
250-20827-3	Trip Blank	Water	08/14/14 00:00	08/14/14 14:37

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Case Narrative

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Job ID: 250-20827-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-20827-1

Comments

No additional comments.

Receipt

The samples were received on 8/14/2014 2:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 29690.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
 SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LB-081414-08

Date Collected: 08/14/14 09:50

Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 13:06	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 13:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 13:06	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 13:06	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 13:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 13:06	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 13:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 13:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 13:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 13:06	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 13:06	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 13:06	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 13:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 13:06	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 13:06	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 13:06	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 13:06	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 13:06	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 13:06	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 13:06	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 13:06	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 13:06	1
Acetone	ND		25	5.0	ug/L			08/19/14 13:06	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 13:06	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 13:06	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 13:06	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 13:06	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 13:06	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 13:06	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 13:06	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 13:06	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 13:06	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 13:06	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 13:06	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 13:06	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 13:06	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 13:06	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 13:06	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 13:06	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 13:06	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 13:06	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 13:06	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 13:06	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 13:06	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 13:06	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 13:06	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 13:06	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 13:06	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081414-08
Date Collected: 08/14/14 09:50
Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 13:06	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 13:06	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 13:06	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 13:06	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 13:06	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 13:06	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 13:06	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 13:06	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 13:06	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 13:06	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 13:06	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 13:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 13:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					08/19/14 13:06	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/19/14 13:06	1
Dibromofluoromethane (Surr)	99		80 - 120					08/19/14 13:06	1
Toluene-d8 (Surr)	99		80 - 120					08/19/14 13:06	1

Client Sample ID: LB-081414-09
Date Collected: 08/14/14 10:50
Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 13:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 13:29	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 13:29	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 13:29	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 13:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 13:29	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 13:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 13:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 13:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 13:29	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 13:29	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 13:29	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 13:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 13:29	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 13:29	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 13:29	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 13:29	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 13:29	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 13:29	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 13:29	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 13:29	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 13:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 13:29	1
Acetone	ND		25	5.0	ug/L			08/19/14 13:29	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 13:29	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LB-081414-09
Date Collected: 08/14/14 10:50
Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 13:29	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 13:29	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 13:29	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 13:29	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 13:29	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 13:29	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 13:29	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 13:29	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 13:29	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 13:29	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 13:29	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 13:29	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 13:29	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 13:29	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 13:29	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 13:29	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 13:29	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 13:29	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 13:29	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 13:29	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 13:29	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 13:29	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 13:29	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 13:29	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 13:29	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 13:29	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 13:29	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 13:29	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 13:29	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 13:29	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 13:29	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 13:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 13:29	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 13:29	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 13:29	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 13:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 13:29	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		08/19/14 13:29	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/19/14 13:29	1
Dibromofluoromethane (Surr)	100		80 - 120		08/19/14 13:29	1
Toluene-d8 (Surr)	99		80 - 120		08/19/14 13:29	1

Client Sample ID: Trip Blank
Date Collected: 08/14/14 00:00
Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 11:37	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
 SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Trip Blank
Date Collected: 08/14/14 00:00
Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 11:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 11:37	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 11:37	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 11:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 11:37	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 11:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.17	ug/L			08/19/14 11:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 11:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 11:37	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 11:37	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 11:37	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 11:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 11:37	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 11:37	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 11:37	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 11:37	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 11:37	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 11:37	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 11:37	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 11:37	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 11:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 11:37	1
Acetone	ND		25	5.0	ug/L			08/19/14 11:37	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 11:37	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 11:37	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 11:37	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 11:37	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 11:37	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 11:37	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 11:37	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 11:37	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 11:37	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 11:37	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 11:37	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 11:37	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 11:37	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 11:37	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 11:37	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 11:37	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 11:37	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 11:37	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 11:37	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 11:37	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 11:37	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 11:37	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 11:37	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 11:37	1
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 11:37	1
Naphthalene	ND		2.0	0.20	ug/L			08/19/14 11:37	1

TestAmerica Portland

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
 SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Trip Blank
Date Collected: 08/14/14 00:00
Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 11:37	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 11:37	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 11:37	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 11:37	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 11:37	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 11:37	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 11:37	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 11:37	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 11:37	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 11:37	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 11:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 11:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		08/19/14 11:37	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/19/14 11:37	1
Dibromofluoromethane (Surr)	100		80 - 120		08/19/14 11:37	1
Toluene-d8 (Surr)	99		80 - 120		08/19/14 11:37	1

Client Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 6020 - Metals (ICP/MS) - Dissolved

Client Sample ID: LB-081414-08

Date Collected: 08/14/14 09:50

Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 13:58	1
Manganese	0.0023		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 13:58	1

Client Sample ID: LB-081414-09

Date Collected: 08/14/14 10:50

Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-2

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 14:09	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 14:09	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
 SDG: 042.4030.01/042.4030.17

General Chemistry

Client Sample ID: LB-081414-08

Date Collected: 08/14/14 09:50

Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		0.30	0.30	mg/L			08/25/14 18:03	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	1.2		0.10	0.10	mg/L			08/15/14 03:26	1

Client Sample ID: LB-081414-09

Date Collected: 08/14/14 10:50

Date Received: 08/14/14 14:37

Lab Sample ID: 250-20827-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.1		0.30	0.30	mg/L			08/25/14 18:46	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			08/19/14 16:29	1
Nitrogen, Nitrate	6.7		0.10	0.10	mg/L			08/15/14 03:42	1

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 250-29690/7

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.13	ug/L			08/19/14 10:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/19/14 10:43	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/19/14 10:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.27	ug/L			08/19/14 10:43	1
1,2,3-Trichloropropane	ND		0.50	0.18	ug/L			08/19/14 10:43	1
1,2,4-Trichlorobenzene	0.177	J	1.0	0.17	ug/L			08/19/14 10:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.16	ug/L			08/19/14 10:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0	ug/L			08/19/14 10:43	1
1,2-Dichlorobenzene	ND		0.50	0.15	ug/L			08/19/14 10:43	1
1,2-Dichloroethane	ND		0.50	0.13	ug/L			08/19/14 10:43	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			08/19/14 10:43	1
1,3-Dichloropropane	ND		0.50	0.16	ug/L			08/19/14 10:43	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
2,2-Dichloropropane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
2-Butanone (MEK)	ND		10	3.0	ug/L			08/19/14 10:43	1
2-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
2-Hexanone	ND		10	2.0	ug/L			08/19/14 10:43	1
4-Chlorotoluene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.5	ug/L			08/19/14 10:43	1
Acetone	ND		25	5.0	ug/L			08/19/14 10:43	1
Benzene	ND		0.20	0.060	ug/L			08/19/14 10:43	1
Bromobenzene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
Bromochloromethane	ND		0.50	0.18	ug/L			08/19/14 10:43	1
Bromodichloromethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1
Bromoform	ND		1.0	0.44	ug/L			08/19/14 10:43	1
Bromomethane	ND		5.0	1.0	ug/L			08/19/14 10:43	1
Carbon disulfide	ND		10	2.0	ug/L			08/19/14 10:43	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			08/19/14 10:43	1
Chlorobenzene	ND		0.50	0.11	ug/L			08/19/14 10:43	1
Chloroethane	ND		0.50	0.17	ug/L			08/19/14 10:43	1
Chloroform	ND		0.50	0.10	ug/L			08/19/14 10:43	1
Chloromethane	ND		5.0	1.0	ug/L			08/19/14 10:43	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			08/19/14 10:43	1
cis-1,3-Dichloropropene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
Dibromochloromethane	ND		1.0	0.21	ug/L			08/19/14 10:43	1
Dibromomethane	ND		0.50	0.17	ug/L			08/19/14 10:43	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/L			08/19/14 10:43	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/19/14 10:43	1
Hexachlorobutadiene	ND		4.0	1.0	ug/L			08/19/14 10:43	1
Isopropylbenzene	ND		2.0	0.50	ug/L			08/19/14 10:43	1
m,p-Xylene	ND		1.0	0.25	ug/L			08/19/14 10:43	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			08/19/14 10:43	1
Methylene Chloride	ND		5.0	1.0	ug/L			08/19/14 10:43	1
n-Butylbenzene	ND		5.0	1.0	ug/L			08/19/14 10:43	1

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 250-29690/7

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.20	ug/L			08/19/14 10:43	1
Naphthalene	0.270	J	2.0	0.20	ug/L			08/19/14 10:43	1
o-Xylene	ND		0.50	0.13	ug/L			08/19/14 10:43	1
p-Isopropyltoluene	ND		2.0	0.16	ug/L			08/19/14 10:43	1
sec-Butylbenzene	ND		0.50	0.14	ug/L			08/19/14 10:43	1
Styrene	ND		0.50	0.10	ug/L			08/19/14 10:43	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			08/19/14 10:43	1
Tetrachloroethene	ND		0.50	0.15	ug/L			08/19/14 10:43	1
Toluene	ND		0.50	0.11	ug/L			08/19/14 10:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/19/14 10:43	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			08/19/14 10:43	1
Trichloroethene	ND		0.50	0.13	ug/L			08/19/14 10:43	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/19/14 10:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.18	ug/L			08/19/14 10:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/19/14 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		08/19/14 10:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/19/14 10:43	1
Dibromofluoromethane (Surr)	100		80 - 120		08/19/14 10:43	1
Toluene-d8 (Surr)	98		80 - 120		08/19/14 10:43	1

Lab Sample ID: LCS 250-29690/4

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	75 - 135
1,1,1,2-Tetrachloroethane	20.0	22.1		ug/L		110	75 - 130
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 125
1,1-Dichloroethane	20.0	19.8		ug/L		99	80 - 120
1,1-Dichloropropene	20.0	20.0		ug/L		100	80 - 120
1,2,3-Trichlorobenzene	20.0	22.1		ug/L		110	65 - 140
1,2,3-Trichloropropane	20.0	21.7		ug/L		108	75 - 125
1,2,4-Trichlorobenzene	20.0	21.3		ug/L		106	75 - 130
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	24.2		ug/L		121	70 - 135
1,2-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		98	75 - 125
1,2-Dichloropropane	20.0	19.6		ug/L		98	80 - 130
1,3,5-Trimethylbenzene	20.0	21.0		ug/L		105	75 - 135
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	75 - 125
1,3-Dichloropropane	20.0	19.6		ug/L		98	80 - 120
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	70 - 120
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 145
2-Butanone (MEK)	100	115		ug/L		115	70 - 140
2-Chlorotoluene	20.0	20.3		ug/L		102	70 - 125
2-Hexanone	100	111		ug/L		111	70 - 140

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-29690/4

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	20.1		ug/L		101	75 - 125
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	70 - 135
Acetone	100	133		ug/L		133	55 - 145
Benzene	20.0	19.5		ug/L		97	80 - 120
Bromobenzene	20.0	20.4		ug/L		102	75 - 120
Bromochloromethane	20.0	20.8		ug/L		104	75 - 125
Bromodichloromethane	20.0	19.7		ug/L		98	80 - 130
Bromoform	20.0	21.9		ug/L		110	55 - 135
Bromomethane	20.0	19.9		ug/L		100	35 - 150
Carbon disulfide	40.0	38.5		ug/L		96	60 - 120
Carbon tetrachloride	20.0	20.9		ug/L		104	70 - 135
Chlorobenzene	20.0	19.4		ug/L		97	80 - 125
Chloroethane	20.0	19.7		ug/L		99	75 - 125
Chloroform	20.0	19.6		ug/L		98	80 - 120
Chloromethane	20.0	18.0		ug/L		90	45 - 150
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	80 - 120
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	80 - 125
Dibromochloromethane	20.0	20.3		ug/L		101	65 - 140
Dibromomethane	20.0	20.5		ug/L		102	80 - 120
Dichlorodifluoromethane	20.0	18.6		ug/L		93	45 - 140
Ethylbenzene	20.0	20.4		ug/L		102	80 - 120
Hexachlorobutadiene	20.0	21.3		ug/L		106	60 - 150
Isopropylbenzene	20.0	20.6		ug/L		103	75 - 125
m,p-Xylene	40.0	40.1		ug/L		100	70 - 130
Methyl tert-butyl ether	20.0	20.0		ug/L		100	80 - 130
Methylene Chloride	20.0	19.6		ug/L		98	80 - 120
n-Butylbenzene	20.0	20.3		ug/L		102	75 - 130
N-Propylbenzene	20.0	20.7		ug/L		104	75 - 130
Naphthalene	20.0	23.1		ug/L		116	70 - 150
o-Xylene	20.0	20.1		ug/L		101	75 - 125
p-Isopropyltoluene	20.0	20.8		ug/L		104	65 - 130
sec-Butylbenzene	20.0	21.1		ug/L		106	60 - 130
Styrene	20.0	21.2		ug/L		106	70 - 130
tert-Butylbenzene	20.0	20.1		ug/L		101	70 - 130
Tetrachloroethene	20.0	20.0		ug/L		100	80 - 125
Toluene	20.0	19.1		ug/L		95	80 - 125
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 120
trans-1,3-Dichloropropene	20.0	18.3		ug/L		91	80 - 130
Trichloroethene	20.0	19.6		ug/L		98	80 - 135
Trichlorofluoromethane	20.0	20.4		ug/L		102	75 - 140
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		105	65 - 140
1,2-Dibromoethane	20.0	20.8		ug/L		104	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	100		80 - 120

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-29690/5

Matrix: Water

Analysis Batch: 29690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	75 - 135	4	25
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	75 - 130	4	25
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	80 - 125	3	25
1,1-Dichloroethane	20.0	19.1		ug/L		96	80 - 120	4	25
1,1-Dichloropropene	20.0	19.4		ug/L		97	80 - 120	3	25
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	65 - 140	6	25
1,2,3-Trichloropropane	20.0	21.2		ug/L		106	75 - 125	2	25
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		101	75 - 130	6	25
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	70 - 130	3	25
1,2-Dibromo-3-Chloropropane	20.0	22.6		ug/L		113	70 - 135	7	25
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	3	25
1,2-Dichloroethane	20.0	19.4		ug/L		97	75 - 125	1	25
1,2-Dichloropropane	20.0	19.3		ug/L		97	80 - 130	2	25
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 135	3	25
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	75 - 125	3	25
1,3-Dichloropropane	20.0	19.4		ug/L		97	80 - 120	1	25
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 120	1	25
2,2-Dichloropropane	20.0	21.1		ug/L		105	60 - 145	3	25
2-Butanone (MEK)	100	115		ug/L		115	70 - 140	0	25
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 125	0	25
2-Hexanone	100	109		ug/L		109	70 - 140	2	25
4-Chlorotoluene	20.0	20.1		ug/L		101	75 - 125	0	25
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	70 - 135	2	25
Acetone	100	128		ug/L		128	55 - 145	4	25
Benzene	20.0	19.2		ug/L		96	80 - 120	2	25
Bromobenzene	20.0	20.0		ug/L		100	75 - 120	2	25
Bromochloromethane	20.0	20.8		ug/L		104	75 - 125	0	25
Bromodichloromethane	20.0	19.6		ug/L		98	80 - 130	0	25
Bromoform	20.0	21.7		ug/L		108	55 - 135	1	25
Bromomethane	20.0	19.0		ug/L		95	35 - 150	5	25
Carbon disulfide	40.0	40.0		ug/L		100	60 - 120	4	25
Carbon tetrachloride	20.0	20.5		ug/L		103	70 - 135	2	25
Chlorobenzene	20.0	19.2		ug/L		96	80 - 125	1	25
Chloroethane	20.0	18.9		ug/L		94	75 - 125	4	25
Chloroform	20.0	19.2		ug/L		96	80 - 120	2	25
Chloromethane	20.0	17.5		ug/L		88	45 - 150	3	25
cis-1,2-Dichloroethane	20.0	19.4		ug/L		97	80 - 120	3	25
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	80 - 125	1	25
Dibromochloromethane	20.0	20.2		ug/L		101	65 - 140	0	25
Dibromomethane	20.0	20.2		ug/L		101	80 - 120	1	25
Dichlorodifluoromethane	20.0	17.7		ug/L		88	45 - 140	5	25
Ethylbenzene	20.0	19.9		ug/L		99	80 - 120	3	25
Hexachlorobutadiene	20.0	19.9		ug/L		100	60 - 150	6	25
Isopropylbenzene	20.0	20.1		ug/L		101	75 - 125	2	25
m,p-Xylene	40.0	39.4		ug/L		99	70 - 130	2	25
Methyl tert-butyl ether	20.0	20.3		ug/L		102	80 - 130	2	25
Methylene Chloride	20.0	19.2		ug/L		96	80 - 120	2	25
n-Butylbenzene	20.0	19.4		ug/L		97	75 - 130	4	25

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-29690/5
Matrix: Water
Analysis Batch: 29690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
N-Propylbenzene	20.0	20.2		ug/L		101	75 - 130	3	25	
Naphthalene	20.0	21.7		ug/L		109	70 - 150	6	25	
o-Xylene	20.0	20.0		ug/L		100	75 - 125	1	25	
p-Isopropyltoluene	20.0	20.6		ug/L		103	65 - 130	1	25	
sec-Butylbenzene	20.0	20.5		ug/L		102	60 - 130	3	25	
Styrene	20.0	20.6		ug/L		103	70 - 130	3	25	
tert-Butylbenzene	20.0	19.9		ug/L		99	70 - 130	1	25	
Tetrachloroethene	20.0	19.4		ug/L		97	80 - 125	3	25	
Toluene	20.0	18.8		ug/L		94	80 - 125	1	25	
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 120	2	25	
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	80 - 130	2	25	
Trichloroethene	20.0	19.3		ug/L		97	80 - 135	2	25	
Trichlorofluoromethane	20.0	19.3		ug/L		97	75 - 140	5	25	
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		100	65 - 140	4	25	
1,2-Dibromoethane	20.0	20.4		ug/L		102	80 - 125	2		

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-29557/1-A
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29557

Analyte	MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.025	0.025	mg/L		08/14/14 22:01	08/15/14 11:58	1
Manganese	ND		0.0020	0.0020	mg/L		08/14/14 22:01	08/15/14 11:58	1

Lab Sample ID: LCS 250-29557/2-A
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	2.00	1.93		mg/L		96	80 - 120	
Manganese	0.100	0.0992		mg/L		99	80 - 120	

Lab Sample ID: 250-20827-1 MS
Matrix: Water
Analysis Batch: 29612

Client Sample ID: LB-081414-08
Prep Type: Dissolved
Prep Batch: 29557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	ND		2.00	1.92		mg/L		96	75 - 125	
Manganese	0.0023		0.100	0.103		mg/L		101	75 - 125	

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 250-20797-C-3-B DU
Matrix: Water
Analysis Batch: 29612

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 29557

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Iron	4.4		4.54		mg/L		3	20
Manganese	2.0		2.07		mg/L		4	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 250-29666/1
Matrix: Water
Analysis Batch: 29666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	ND		10	10	mg/L			08/19/14 16:29	1

Lab Sample ID: LCS 250-29666/2
Matrix: Water
Analysis Batch: 29666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 250-20827-1 DU
Matrix: Water
Analysis Batch: 29666

Client Sample ID: LB-081414-08
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	250		247		mg/L		0.4	5

Lab Sample ID: 250-20827-2 DU
Matrix: Water
Analysis Batch: 29666

Client Sample ID: LB-081414-09
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	200		200		mg/L		1	5

Method: 300.0 - Nitrate

Lab Sample ID: MB 250-29888/3
Matrix: Water
Analysis Batch: 29888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrate	ND		0.10	0.10	mg/L			08/14/14 23:48	1

Lab Sample ID: LCS 250-29888/4
Matrix: Water
Analysis Batch: 29888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 300.0 - Nitrate (Continued)

Lab Sample ID: 250-20810-A-1 MSD
Matrix: Water
Analysis Batch: 29888

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	3.7		5.00	9.69		mg/L		119	80 - 120	1	20

Lab Sample ID: 250-20827-2 MS
Matrix: Water
Analysis Batch: 29888

Client Sample ID: LB-081414-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	6.7		5.00	13.0	F1	mg/L		126	80 - 120		

Lab Sample ID: 250-20810-A-1 DU
Matrix: Water
Analysis Batch: 29888

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate	3.7		5.00	3.71		mg/L				0.4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-168088/3
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.30	0.30	mg/L			08/25/14 10:32	1

Lab Sample ID: LCS 580-168088/4
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.00	9.35		mg/L		104	90 - 110		

Lab Sample ID: LCSD 580-168088/5
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.00	9.38		mg/L		104	90 - 110	0	15

Lab Sample ID: 250-20810-A-1 MS
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.9		9.00	13.1		mg/L		102	90 - 110		

TestAmerica Portland

QC Sample Results

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 250-20810-A-1 DU
Matrix: Water
Analysis Batch: 168088

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	3.9		3.83		mg/L		0.8	10

Certification Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-15
USDA	Federal		P330-11-00092	04-17-17
Washington	State Program	10	C586	06-23-15

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-113	07-25-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: Leichner Landfill - Wash.

TestAmerica Job ID: 250-20827-1
SDG: 042.4030.01/042.4030.17

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL PRT
300.0	Anions, Ion Chromatography	MCAWW	TAL SEA
300.0	Nitrate	MCAWW	TAL PRT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



TestAmerica Portland
9405 SW Nimbus Avenue

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Beaverton, OR 97008
phone 503-906.9200 fax 503-906.9210

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact
Your Company Name here: SCS Engineers
Address: 17945 SW Second Parkway, Ste 180
City/State/Zip: Portland, OR 97204
(xxx) xxx-xxxx Phone: 503.358.7209
(xxx) xxx-xxxx FAX
Project Name: Leichter Landfill
Site: 0421030.01/0421030.17
PO#

Project Manager: J Davendous
Tel/Fax: 503 639 9598
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 If different from Below
2 weeks
1 week
2 days
1 day

Site Contact: V Anessa
Lab Contact: T Andrews
Date: 8/14/14
COC No: _____ of _____ COCs

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	# of Matrix Cont.	Filtered Sample (P/N)	Perform MS / MSD (P/N)	Sample Specific Notes:	
							Back VOCs	Dissolved Metals (Fe and Mn)
LB-081414-08	8/14	950	G	W S	X	X	X	
LB-081414-09	8/14	1050	G	W S	X	X	X	
Trip Blank	-	-	-	W I	X			

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Return to Client Disposal by Lab Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes No

Relinquished by: [Signature] Company: SCS
Date/Time: 8/14/14
Received by: Tom Krause Company: [Signature]
Date/Time: 8/14/14

Relinquished by: _____ Company: _____
Date/Time: _____

Received in Laboratory by: _____ Company: _____
Date/Time: _____

Therm ID No.: _____
Date/Time: 8/14/14
Date/Time: 1437

10
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8/29/2014

IR 12 PL 5.52

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-20827-1
SDG Number: 042.4030.01/042.4030.17

Login Number: 20827

List Number: 1

Creator: Krause, Thomas A

List Source: TestAmerica Portland

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No sampler on COC, contacted client and sampler name provided.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 250-20827-1
SDG Number: 042.4030.01/042.4030.17

Login Number: 20827

List Number: 2

Creator: Abello, Andrea N

List Source: TestAmerica Seattle

List Creation: 08/22/14 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR = 2.0 / 2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX D

2014 Groundwater Elevation Data And Groundwater Elevation Hydrographs

Table D-1
2014 Groundwater Elevation Data
Leichner Landfill

Monitoring Well	Date	Reference Elevation (feet, AMSL)	Depth to Groundwater (feet, BTOC)	Groundwater Elevation (feet, AMSL)
LB-R2	2/17/2014	222.27	46.18	176.09
LB-R2	8/12/2014	222.27	46.16	176.11
LB-1S	2/17/2014	210.12	34.51	175.61
LB-1S	8/12/2014	210.12	34.03	176.09
LB-1D	2/17/2014	209.74	36.66	173.08
LB-1D	8/12/2014	209.74	36.19	173.55
LB-3S	2/17/2014	218.25	39.70	178.55
LB-3S	8/12/2014	218.25	39.29	178.96
LB-3D	2/17/2014	219.29	40.84	178.45
LB-3D	8/12/2014	219.29	39.31	179.98
LB-4S(R)	2/17/2014	226.46	24.76	201.70
LB-4S(R)	8/12/2014	226.46	24.20	202.26
LB-4S(R)	8/22/2014	Well Decommissioned		
LB-4C	2/17/2014	228.08	47.50	180.58
LB-4C	8/12/2014	228.08	47.30	180.78
LB-4C	8/22/2014	Well Decommissioned		
LB-4D	2/17/2014	228.00	55.22	172.78
LB-4D	8/12/2014	228.00	57.19	170.81
LB-4D	8/22/2014	Well Decommissioned		
LB-5S	2/17/2014	206.89	16.46	190.43
LB-5S	8/12/2014	206.89	16.41	190.48
LB-5C	2/17/2014	206.70	34.03	172.67
LB-5C	8/12/2014	206.70	33.69	173.01
LB-5D	2/17/2014	207.56	38.34	169.22
LB-5D	8/12/2014	207.56	38.36	169.20
LB-6S	2/17/2014	202.80	28.31	174.49
LB-6S	8/12/2014	202.80	27.82	174.98
LB-9S(R)	2/17/2014	217.94	36.53	181.41
LB-9S(R)	8/12/2014	217.94	35.80	182.14
LB-10SR	2/17/2014	204.04	32.14	171.90
LB-10SR	8/12/2014	204.04	31.80	172.24

Table D-1
2014 Groundwater Elevation Data
Leichner Landfill

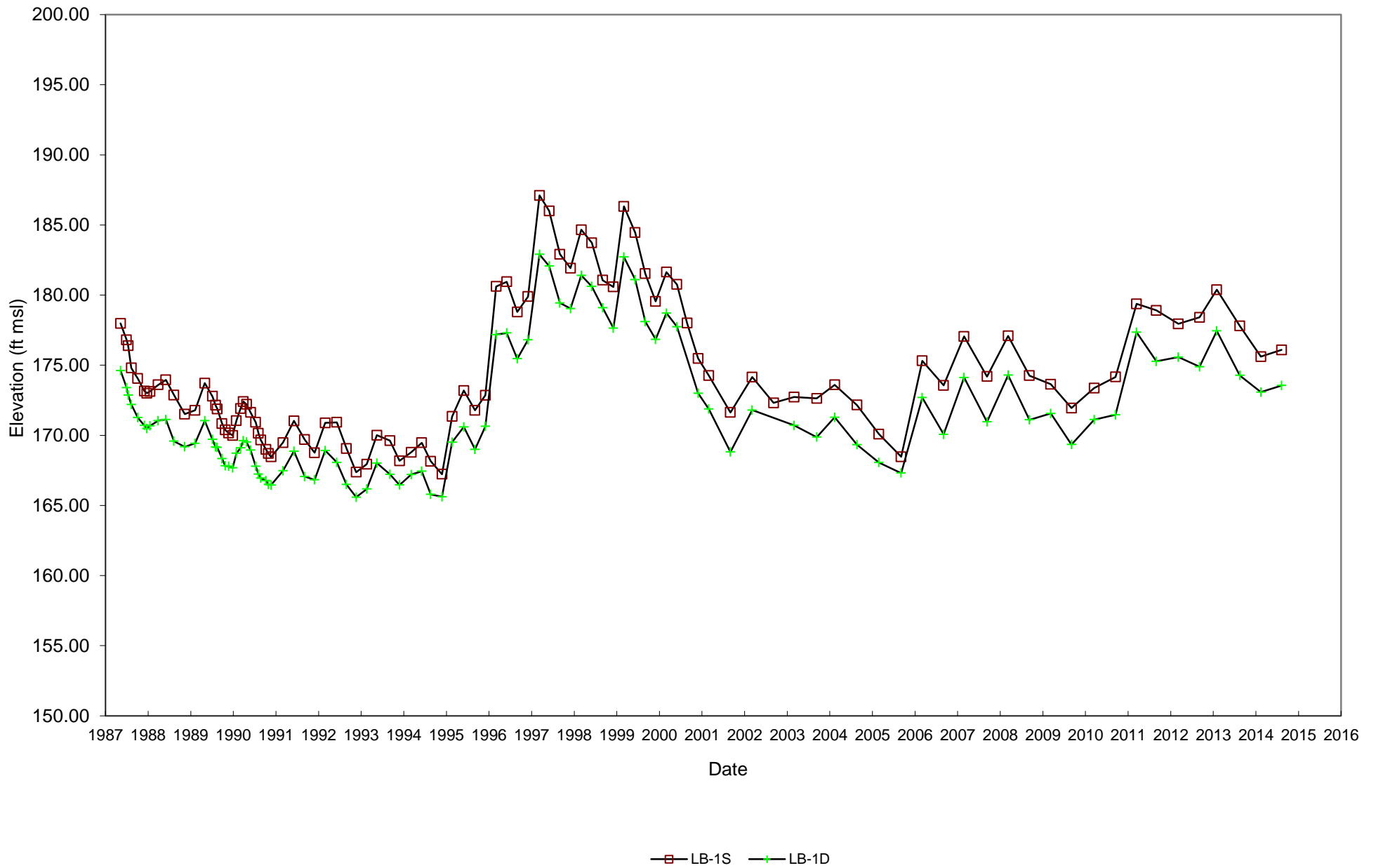
Monitoring Well	Date	Reference Elevation (feet, AMSL)	Depth to Groundwater (feet, BTOC)	Groundwater Elevation (feet, AMSL)
LB-10CR	2/17/2014	203.05	31.04	172.01
LB-10CR	8/12/2014	203.05	30.73	172.32
LB-10DR	2/17/2014	203.36	43.42	159.94
LB-10DR	8/12/2014	203.36	43.70	159.66
LB-13I	2/17/2014	202.36	28.91	173.45
LB-13I	8/12/2014	202.36	28.53	173.83
LB-13C	2/17/2014	202.68	29.33	173.35
LB-13C	8/12/2014	202.68	28.95	173.73
LB-13D	2/17/2014	202.96	29.70	173.26
LB-13D	8/12/2014	202.96	29.32	173.64
LB-17S	2/17/2014	208.18	32.55	175.63
LB-17S	8/12/2014	208.18	31.62	176.56
LB-17I	2/17/2014	213.14	37.66	175.48
LB-17I	8/12/2014	213.14	37.08	176.06
LB-17C	2/17/2014	206.55	31.32	175.23
LB-17C	8/12/2014	206.55	30.75	175.80
LB-17D	2/17/2014	213.17	38.51	174.66
LB-17D	8/12/2014	213.17	37.96	175.21
LB-20S	2/17/2014	221.22	41.40	179.82
LB-20S	8/12/2014	218.62	40.71	177.91
LB-21S	2/17/2014	223.35	38.73	184.62
LB-21S	8/12/2014	223.35	38.37	184.98
LB-21C	2/17/2014	223.32	39.15	184.17
LB-21C	8/12/2014	223.32	38.76	184.56
LB-21D	2/17/2014	223.63	41.85	181.78
LB-21D	8/12/2014	223.63	41.72	181.91
LB-22S	2/17/2014	208.42	8.02	200.40
LB-22S	8/12/2014	208.42	7.75	200.67
LB-23S	2/17/2014	229.19	32.76	196.43
LB-23S	8/12/2014	229.19	32.11	197.08
LB-24S	2/17/2014	235.13	40.21	194.92
LB-24S	8/12/2014	235.13	39.65	195.48

Table D-1
2014 Groundwater Elevation Data
Leichner Landfill

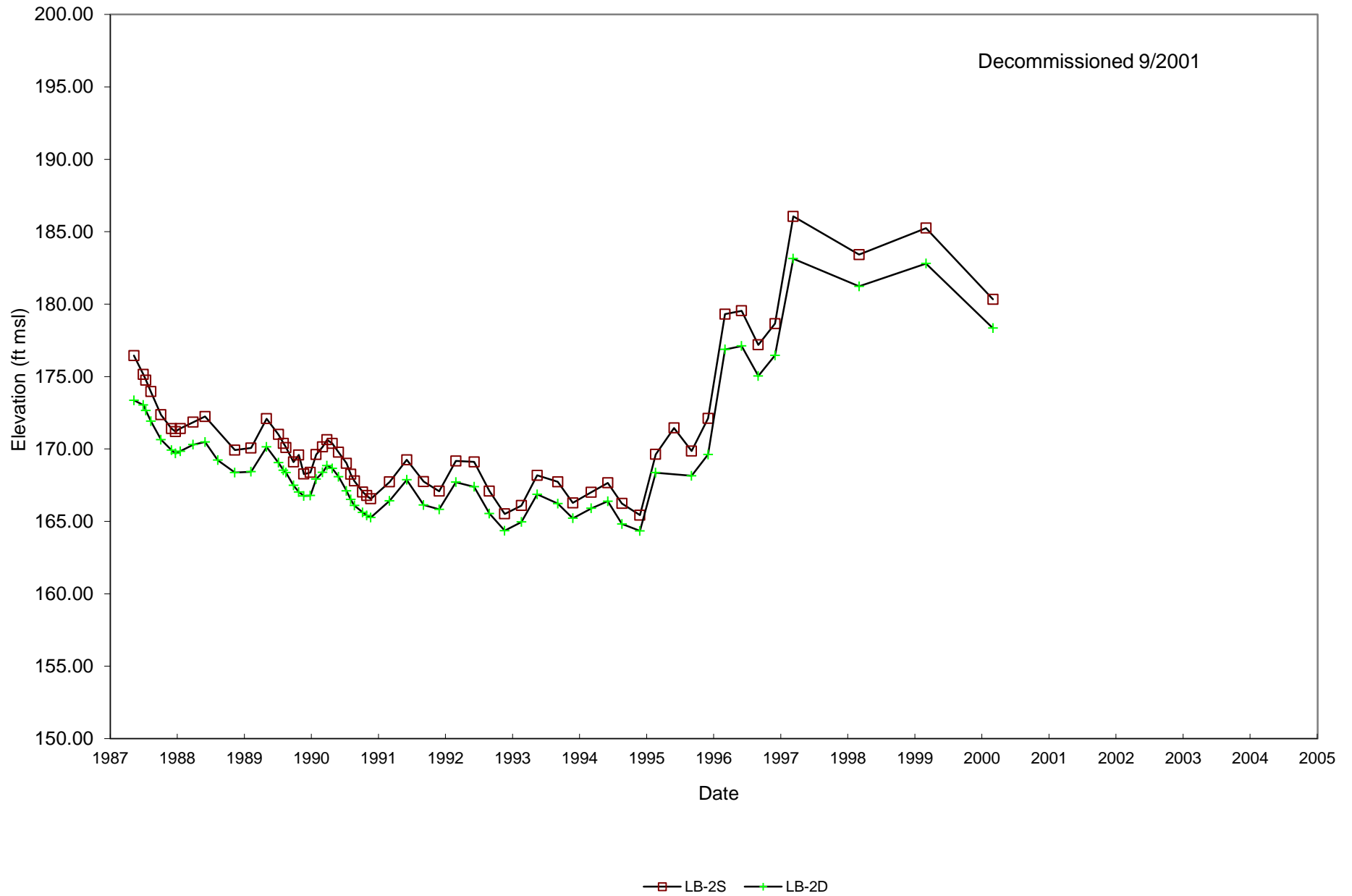
Monitoring Well	Date	Reference Elevation (feet, AMSL)	Depth to Groundwater (feet, BTOC)	Groundwater Elevation (feet, AMSL)
LB-26I	2/17/2014	200.22	26.30	173.92
LB-26I	8/12/2014	200.22	25.87	174.35
LB-26D	2/17/2014	200.75	26.09	174.66
LB-26D	8/12/2014	200.75	25.66	175.09
LB-27I	2/17/2014	205.35	32.26	173.09
LB-27I	8/12/2014	205.35	31.90	173.45
LB-27D	2/17/2014	204.63	38.15	166.48
LB-27D	8/12/2014	204.63	38.17	166.46
MW-1 N	2/17/2014	216.58	Dry	NA
MW-1 N	8/12/2014	216.58	Dry	NA
MW-1 S	2/17/2014	216.13	38.86	177.27
MW-1 S	8/12/2014	216.13	38.30	177.83
MW-1 E	2/17/2014	216.45	Dry	NA
MW-1 E	8/12/2014	216.45	Dry	NA
MW-NE	2/17/2014	220.06	15.75	204.31
MW-NE	8/12/2014	220.06	15.46	204.60

Notes:
AMSL = above mean sea level; BTOC = below top of casing; NA = not applicable.

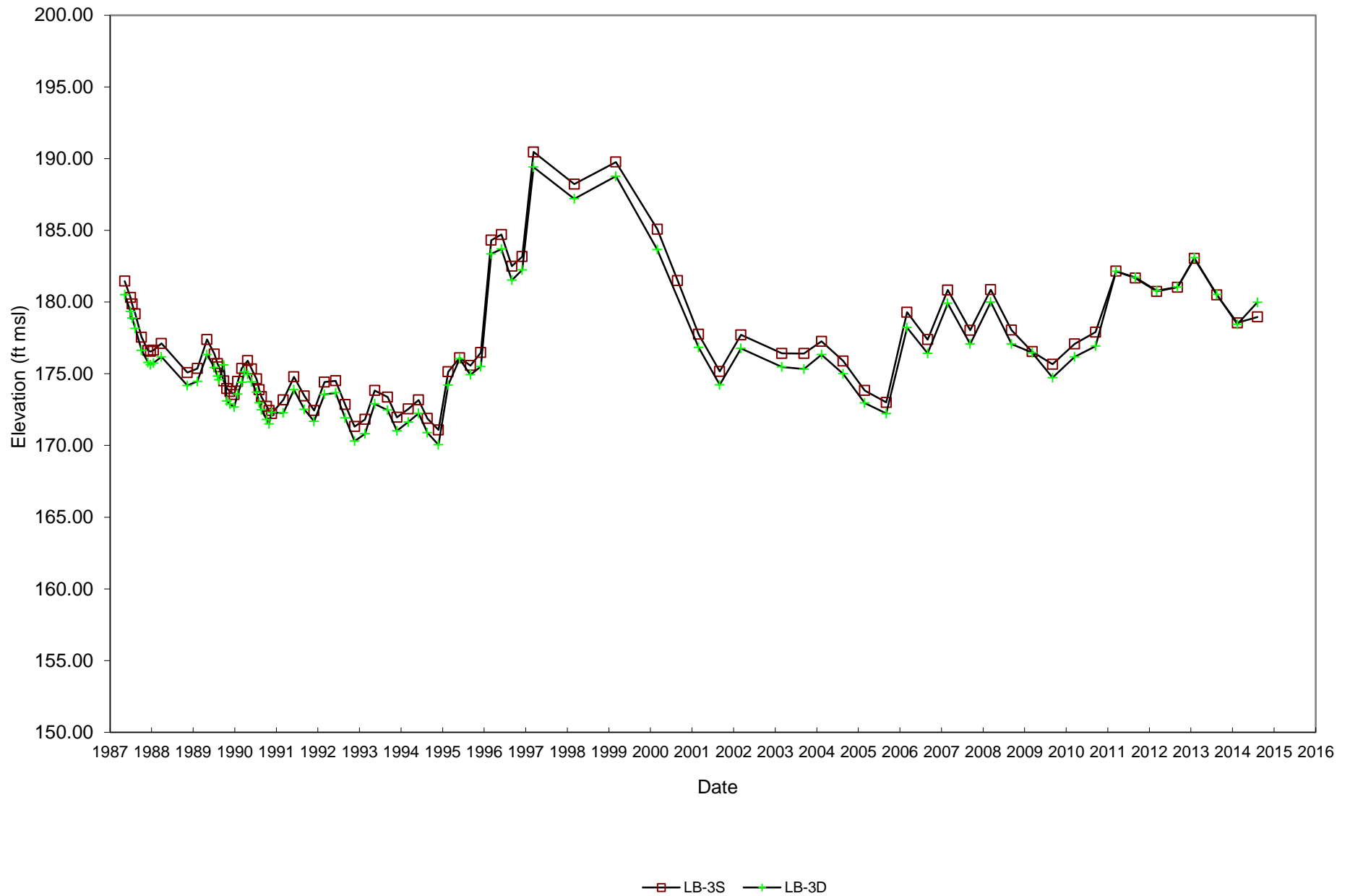
Leichner Landfill Water Levels



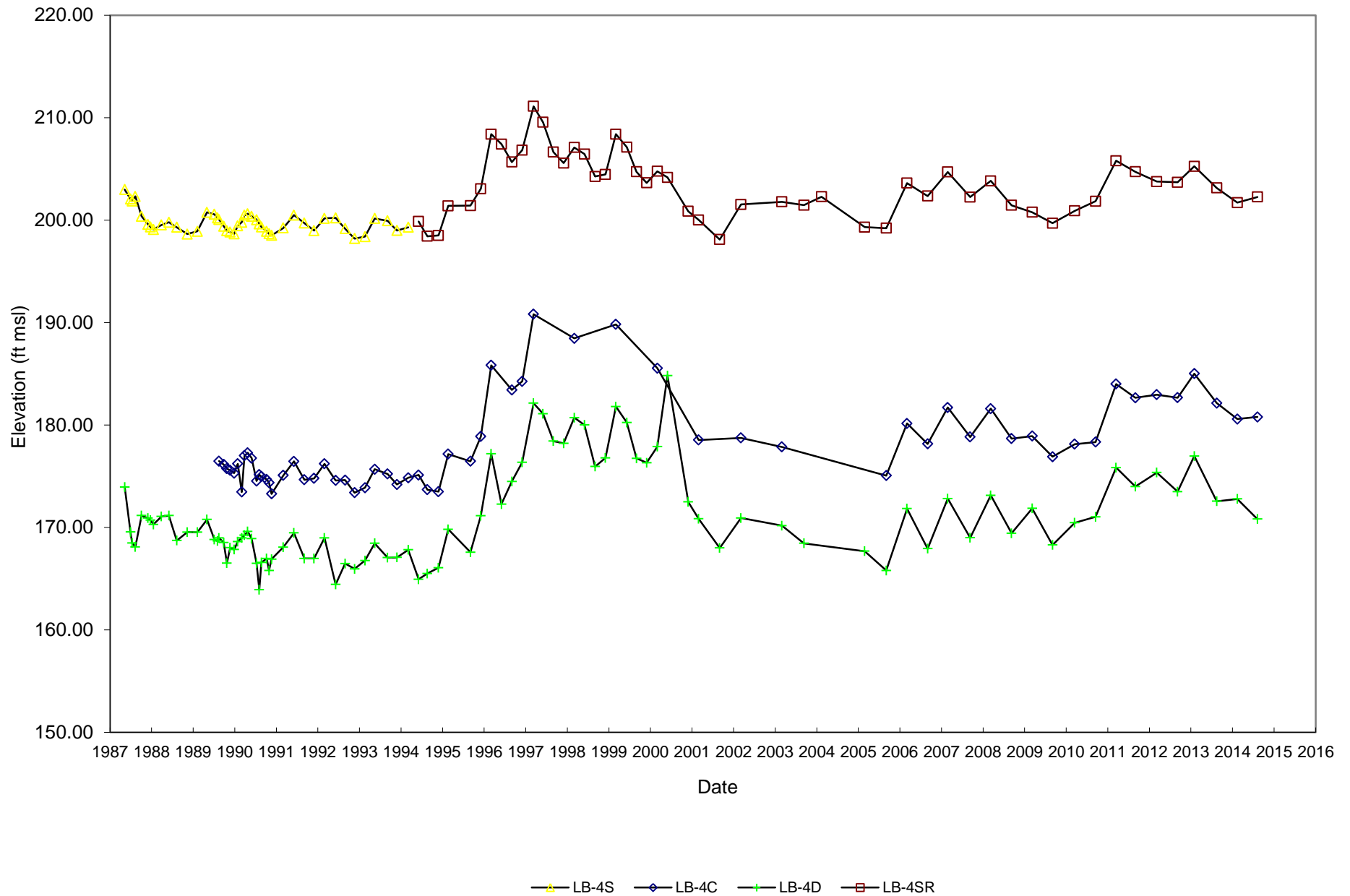
Leichner Landfill Water Levels



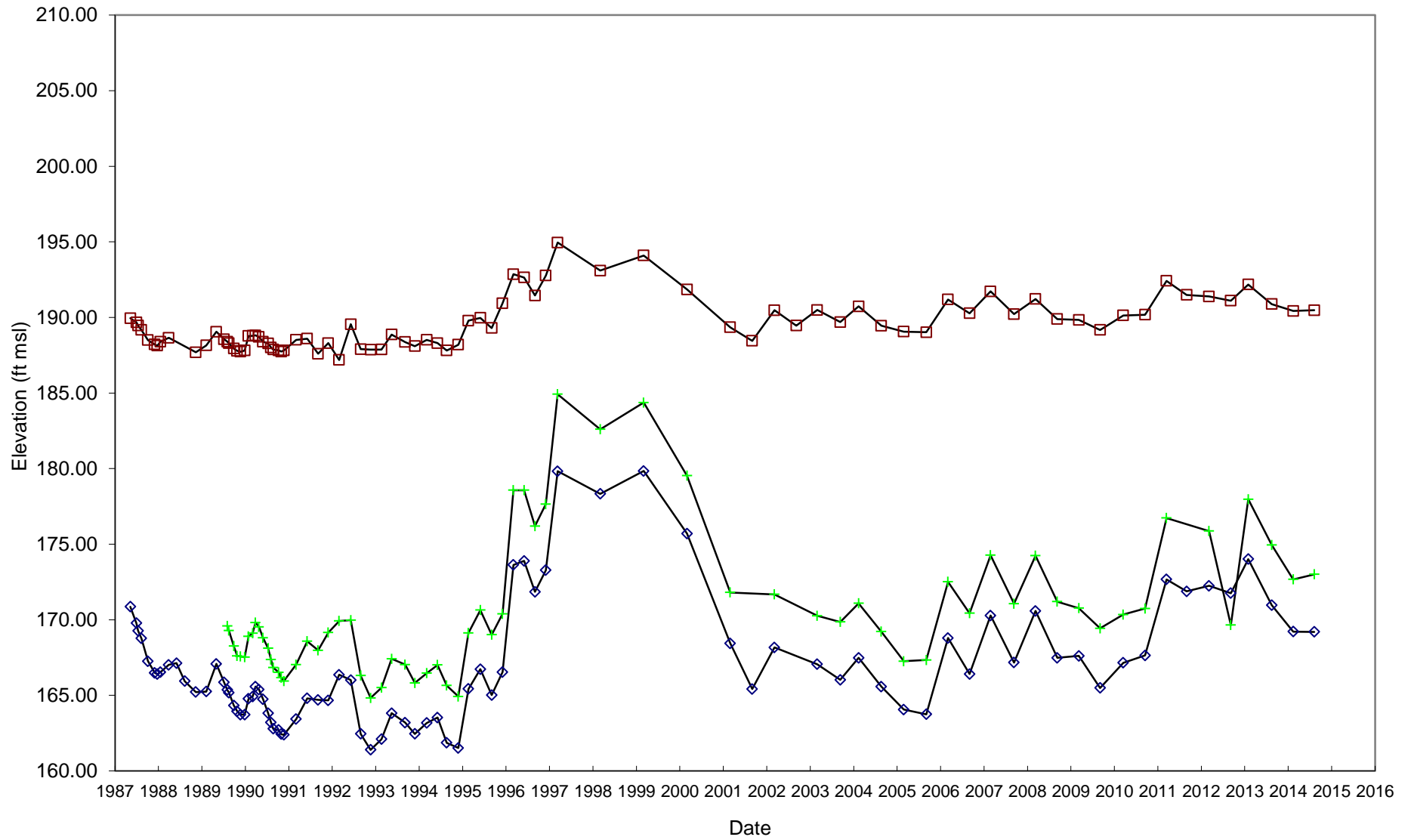
Leichner Landfill Water Levels



Leichner Landfill Water Levels

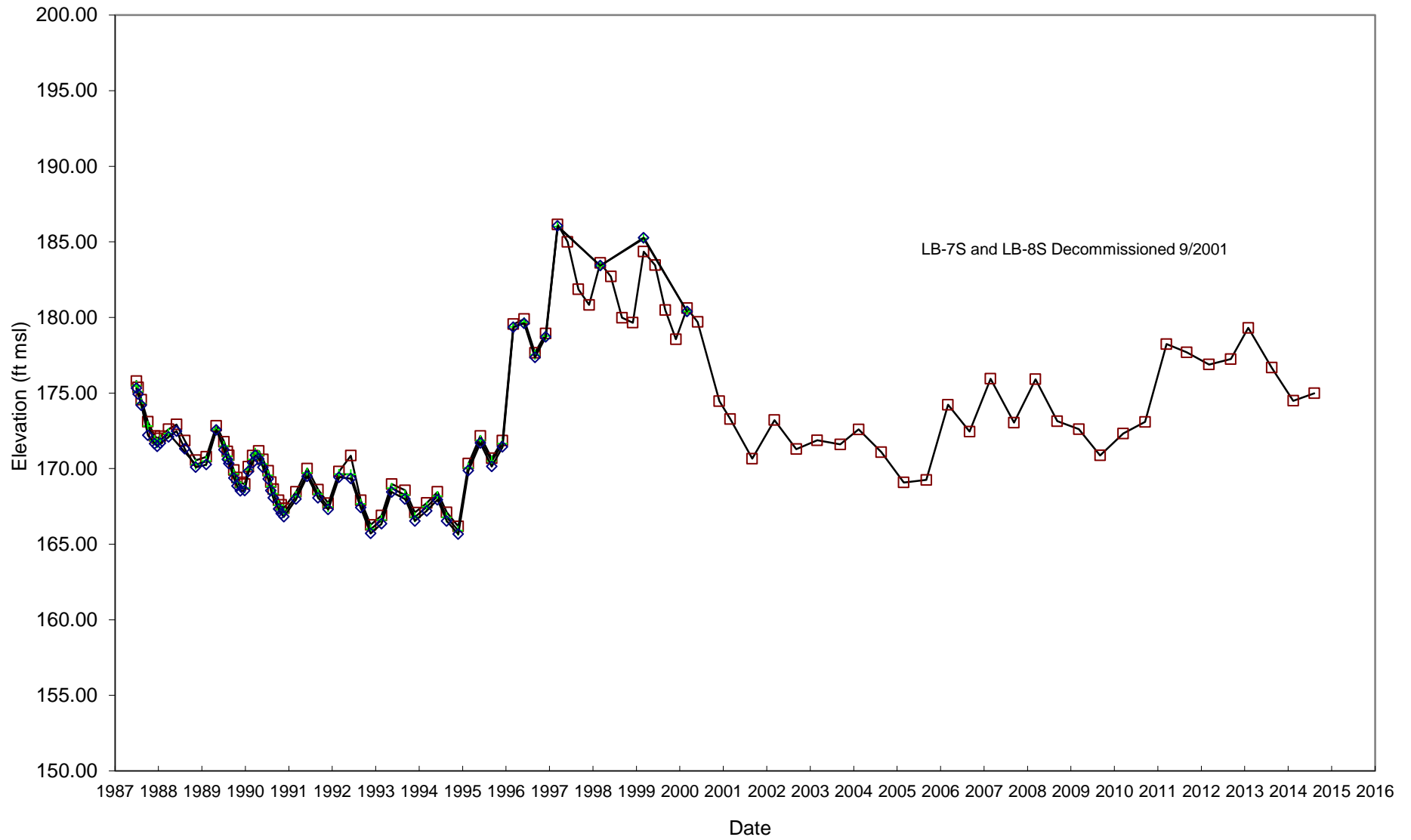


Leichner Landfill Water Levels



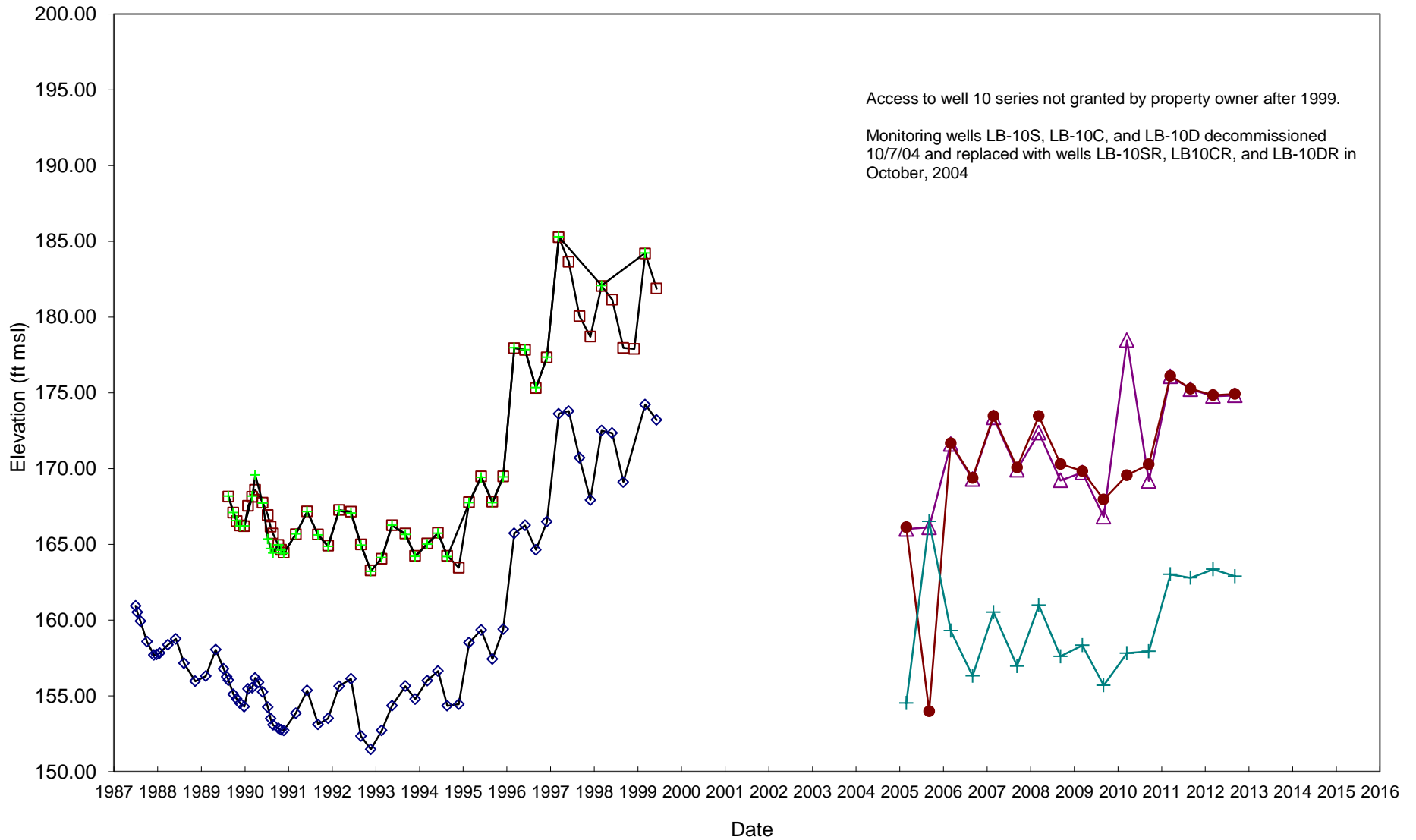
—□— LB-5S —+— LB-5C —◇— LB-5D

Leichner Landfill Water Levels



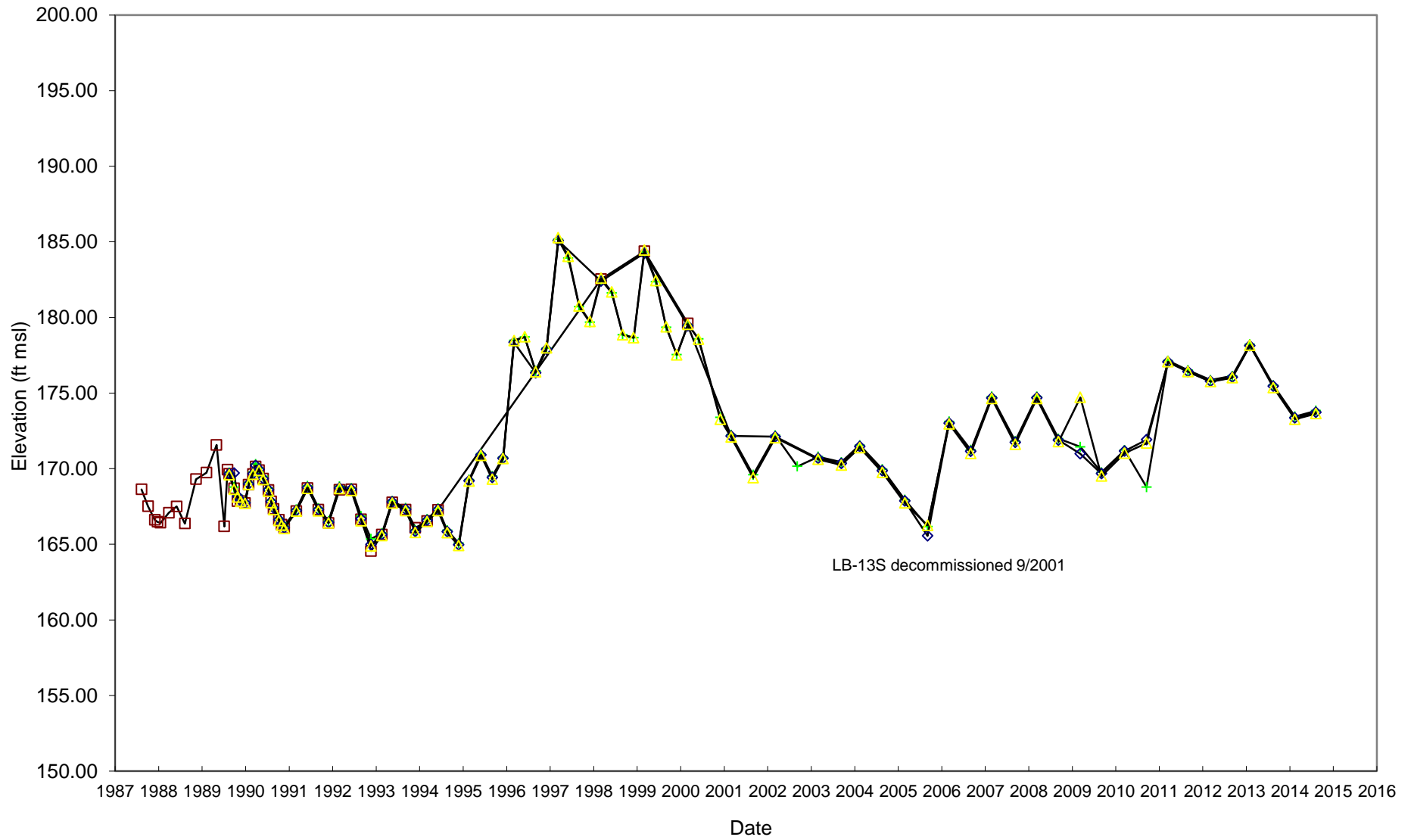
—□— LB-6S —+— LB-7S —◇— LB-8S

Leichner Landfill Water Levels



—□— LB-10S
—+— LB-10C
—◇— LB-10D
—△— LB-10SR
—●— LB-10CR
—+— LB-10DR

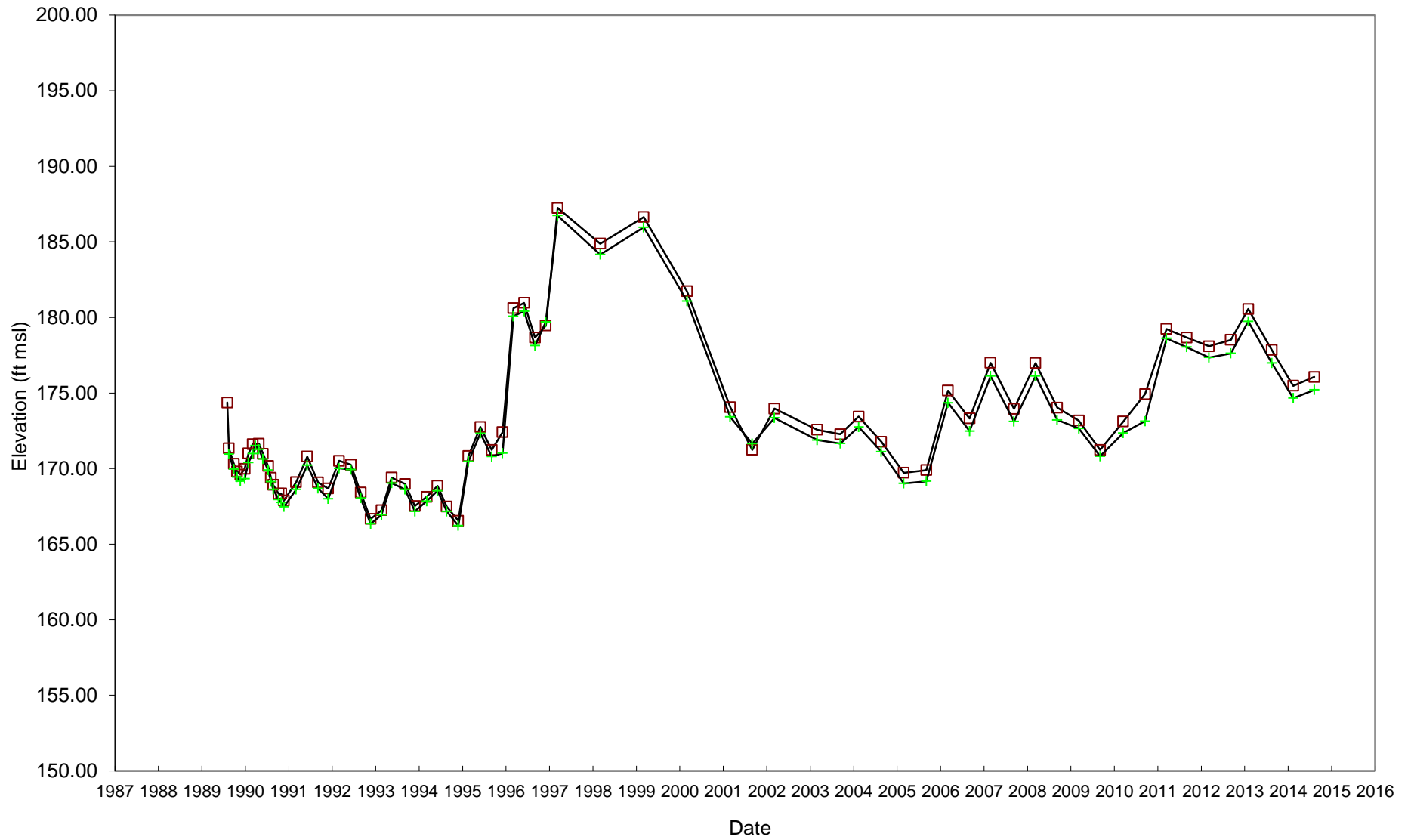
Leichner Landfill Water Levels



LB-13S decommissioned 9/2001

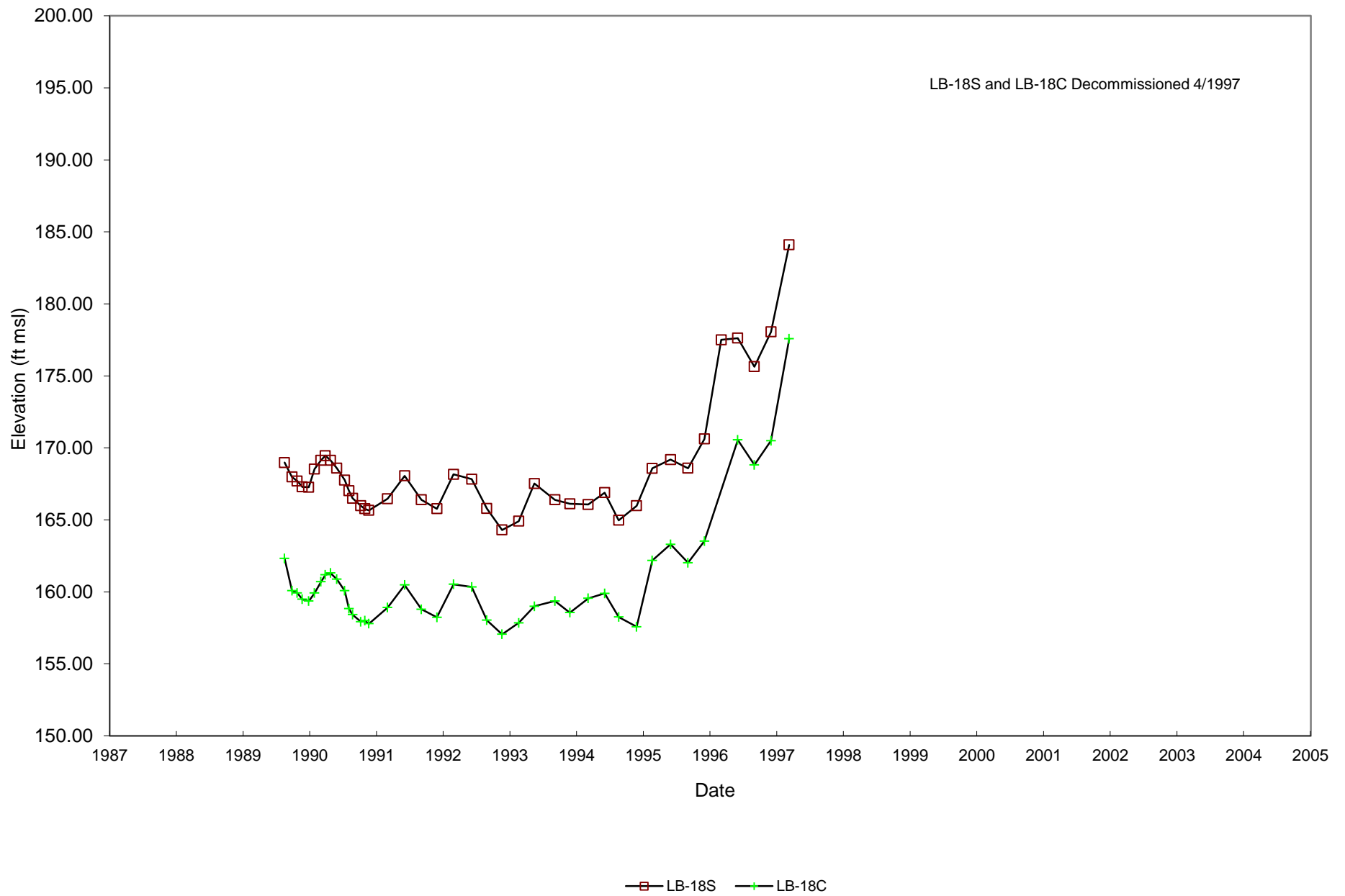
LB-13S
 LB-13I
 LB-13C
 LB-13D

Leichner Landfill Water Levels

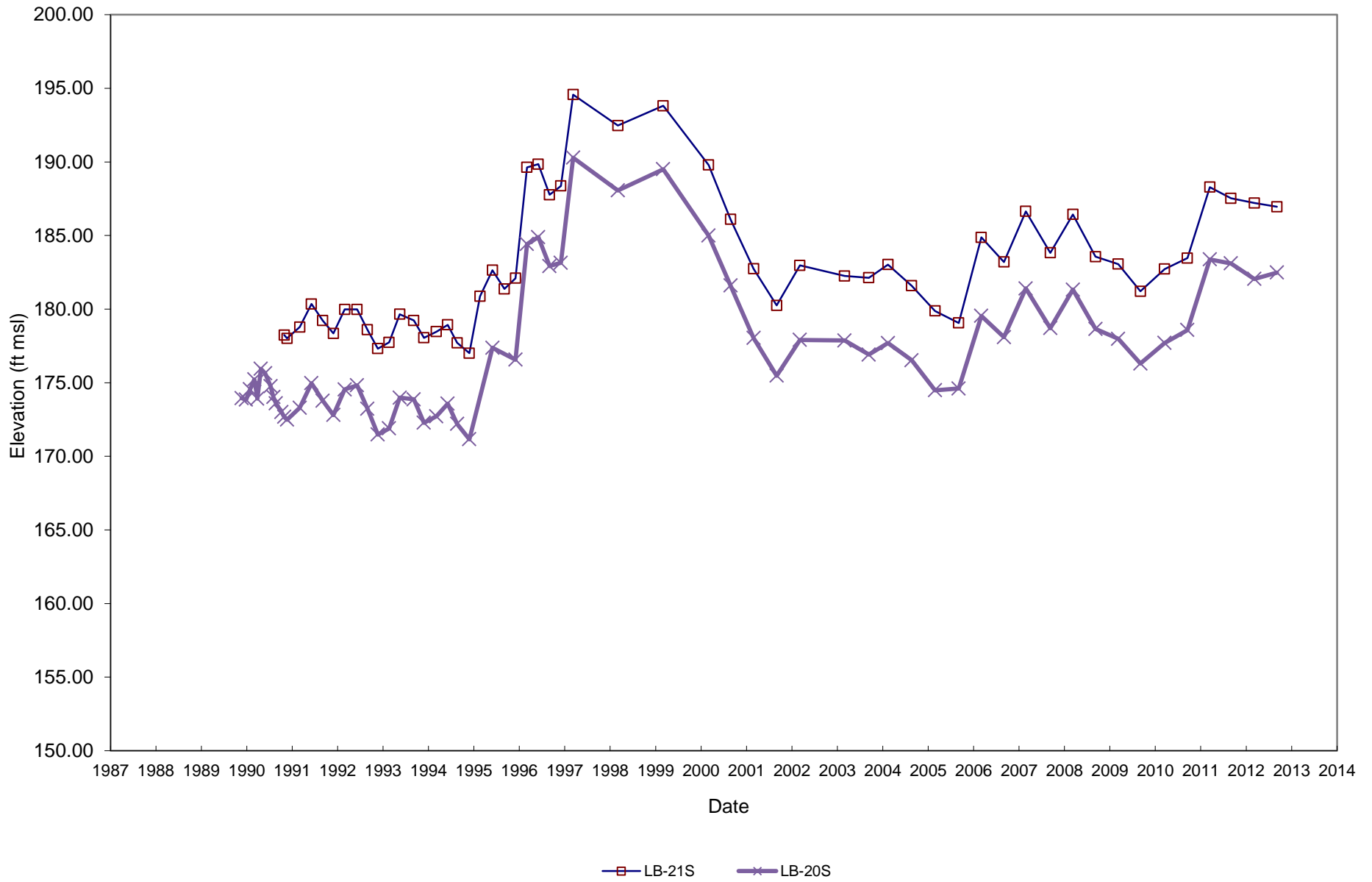


—□— LB-17I —+— LB-17D

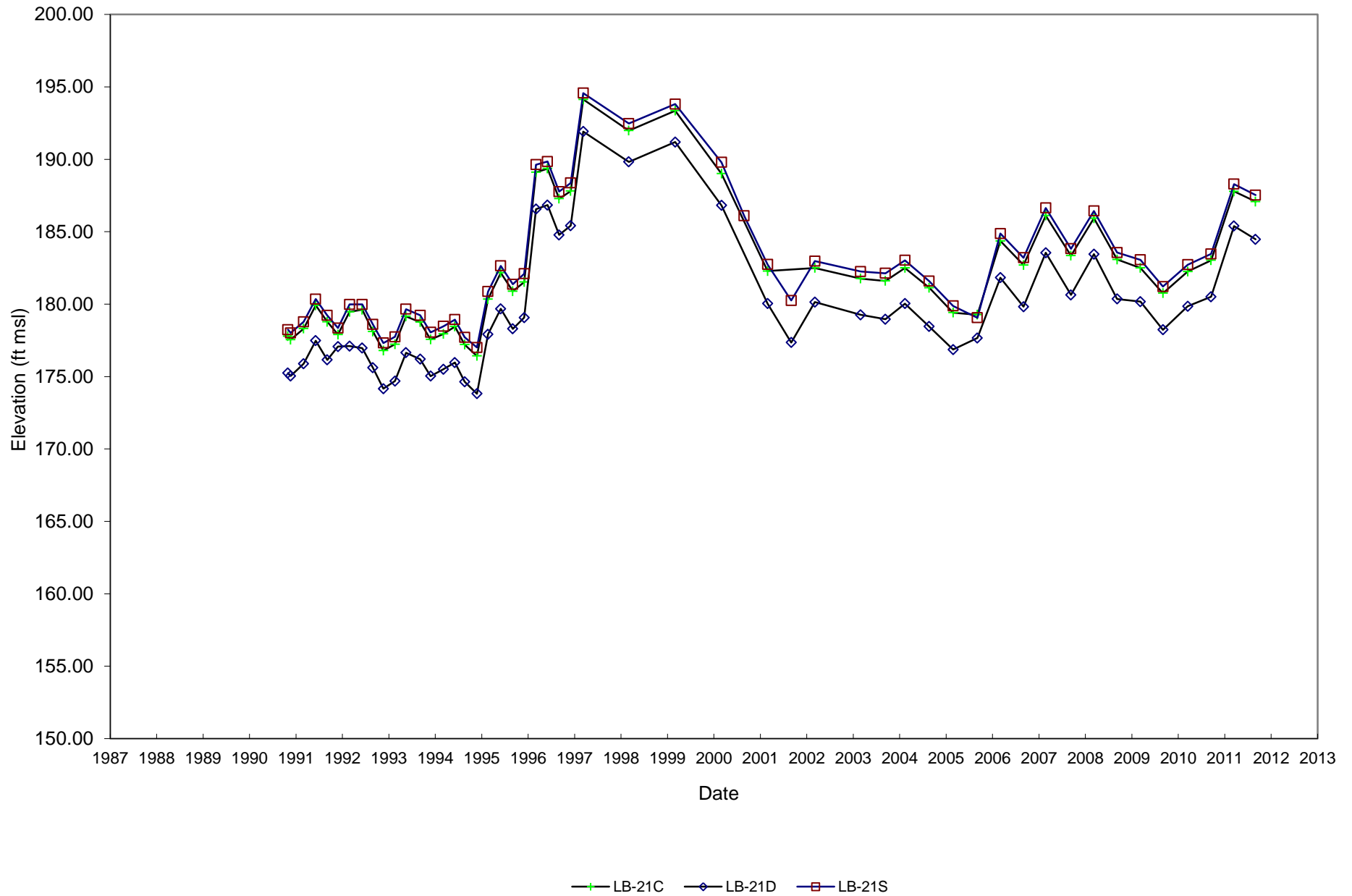
Leichner Landfill Water Levels



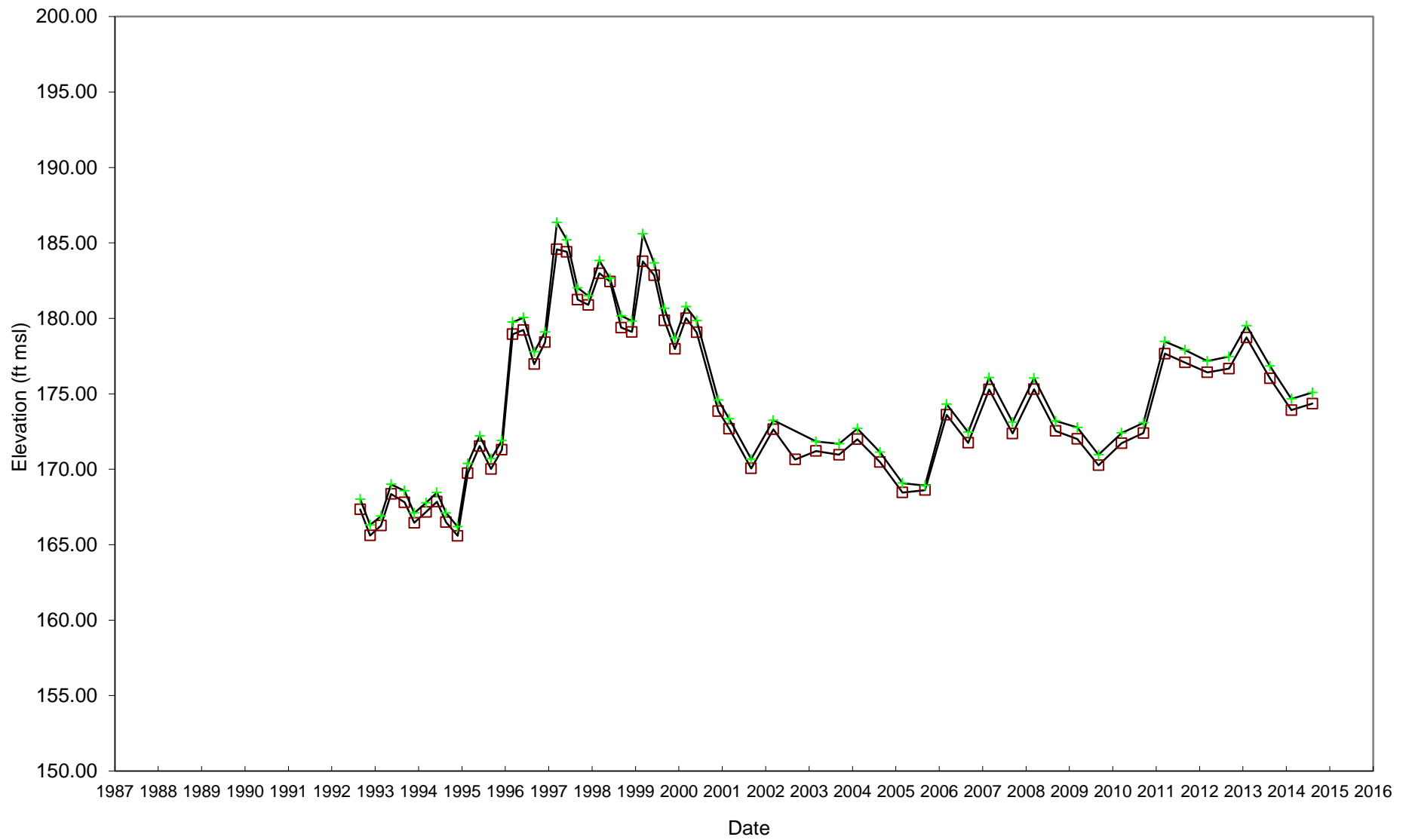
Leichner Landfill Water Levels



Leichner Landfill Water Levels

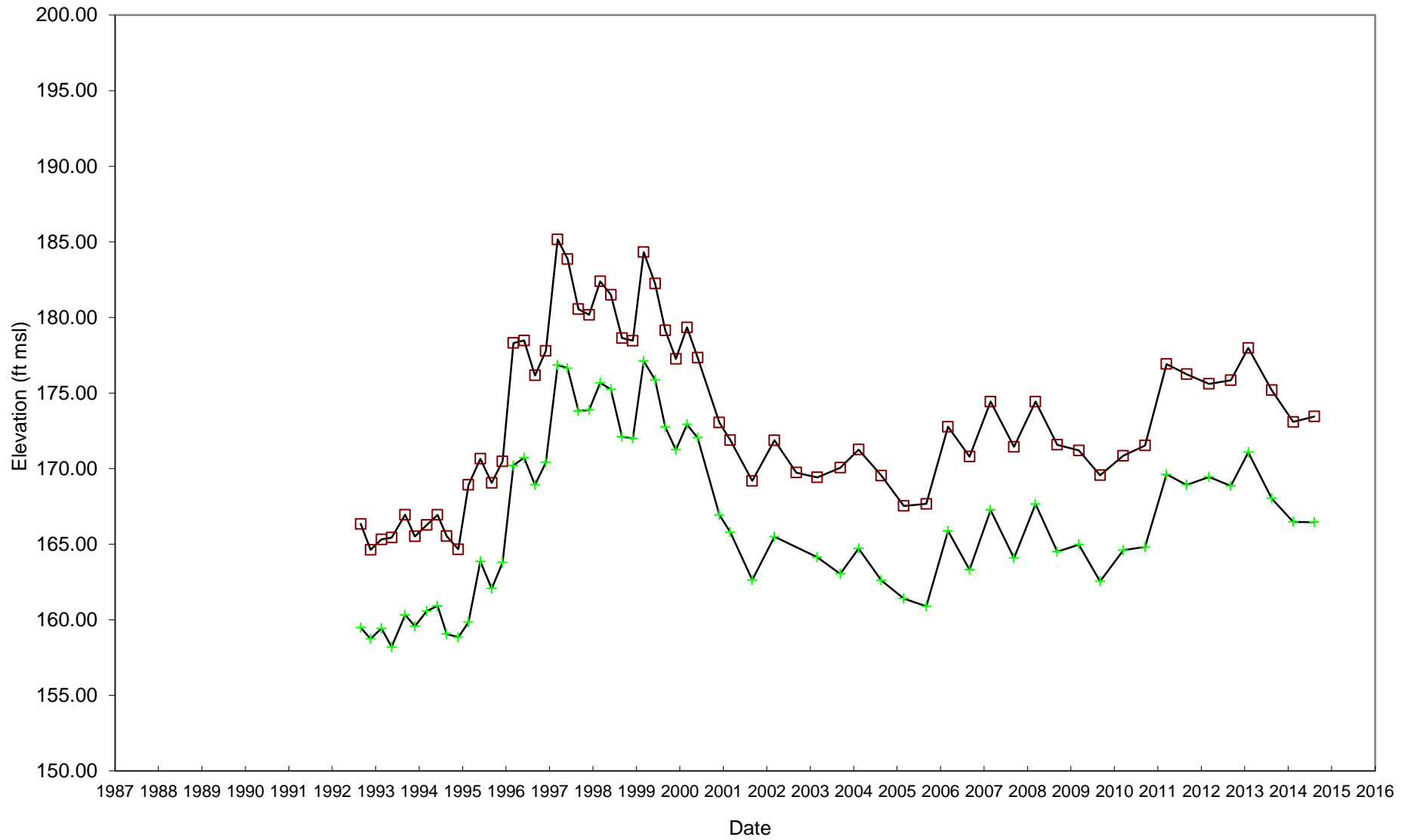


Leichner Landfill Water Levels



—□— LB-26I —+— LB-26D

Leichner Landfill Water Levels



—□— LB-27I —+— LB-27D

APPENDIX E

Quality Assurance/Quality Control Reviews of 2014 Laboratory Analytical Data

First Quarter (February) 2014 QA/QC Reviews

**SCS Engineers QA/QC Review
Groundwater - 1Q 2014 Groundwater Monitoring Event
Leichner Brothers Landfill
Test America-Beaverton Report No. 250-17236-1**

Samples: LB-021714-01 (LB-5D), LB-021714-02 (LB-5S), LB-021714-03 (LB-17D), LB-021714-04 (LB-17I), LB-021714-05 (LB-26D), LB-021714-06 (LB-26I), LB-021714-07 (LB-26I/DUP1), and trip blank.

Sample Date: 02/17/2014
Laboratory Sample Received Date: 02/17/2014
Sample Receipt Temperature: 2.4°C
Laboratory Data Received Date: 02/24/2014
QA/QC Review Date: 03/31/2014 (TMA)

VOCs

Method Blanks	All analytes were reported as non-detect, except for 1,2,4-trimethylbenzene detected above the method detection limit but below the reporting limit (J Flag) in batch 250-24573. It should be noted that this J Flags represent an approximate value. No corrective action was necessary because 1,2,4-trimethylbenzene was not detected in any of the monitoring well samples.
Surrogates	All sample surrogates were within QC limits.
LCS	All % recoveries and surrogates were within QC limits.
LCSD	All relative percent differences (RPDs) were within QC limits except for acetone in batch 250-24573 (* Flag). This is noted and qualified in the case narrative.

Dissolved Metals

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries were within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits.

General Chemistry

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits. All % recoveries were within QC limits except for chloride in batch 250-24591 (F1 flag). This is noted and qualified in the case narrative.
Duplicates	All RPDs were within QC limits.

Hold Times

All analytical hold times were met.

Reporting Limit Exceedances

All project-specific reporting limits were met.

Field QA/QC

Field Duplicate

A field duplicate sample LB-021714-07 (DUP1) was collected at monitoring well LB-26I (LB-021714-06) on 02/17/2014. All calculated RPDs were within 20% except for dissolved iron at 36.08%. It should be noted that the concentrations of dissolved iron detected in the LB-26I and DUP1 samples were less than 5 times the reporting limit value; consequently, these results are not controlled by RPDs.

Trip Blank

A laboratory supplied trip blank was carried into the field on 02/17/2014 with all samples collected on the same date and returned to the lab for volatile organic compound (VOC) analysis. All trip blank analytes were reported as non-detect, and all surrogate recoveries were within control limits.

Notes

Chloroform was reported as an estimated concentration in the LB-5S sample because it was detected below the method reporting limit (MRL) but above the method detection limit (MDL) (J Flag). Chloroform is a common laboratory contaminant.

Data Validation

Upon final review of lab report 250-17236-1 for Leichner Landfill, SCS Engineers finds the data are valid for their intended use (03/31/2014; TMA).

**SCS Engineers QA/QC Review
Groundwater - 1Q 2014 Groundwater Monitoring Event
Leichner Brothers Landfill
Test America-Beaverton Report No. 250-17278-1**

Samples: LB-021814-08 (LB-13D), LB-021814-09 (LB-13I/FB1), LB-021814-10 (LB-13I), LB-021814-11 (LB-4D), LB-021814-12 (LB-4SR), LB-021814-13 (LB-27D), LB-021814-14 (LB-27I), and trip blank.

Sample Date: 02/18/2014

Laboratory Sample Received Date: 02/18/2014

Sample Receipt Temperature: 1.6°C

Laboratory Data Received Date: 02/25/2014

QA/QC Review Date: 03/31/2014 (TMA)

VOCs

Method Blanks	All analytes were reported as non-detect.
Surrogates	All sample surrogates were within QC limits.
LCS	All % recoveries and surrogates were within QC limits.
LCSD	All relative percent differences (RPDs) were within QC limits.

Dissolved Metals

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries were within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits.

General Chemistry

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits. All % recoveries were within QC limits.
Duplicates	All RPDs were within QC limits.

Hold Times

All analytical hold times were met.

Reporting Limit Exceedances

All project-specific reporting limits were met.

Field QA/QC

Field/Equipment Blank

An equipment blank sample (LB-021814-09) was collected near monitoring well LB-13I on 02/18/2014 using lab supplied deionized water. All analytes were reported as non-detect.

Trip Blank

A laboratory supplied trip blank was carried into the field on 02/18/2014 with all samples collected on the same date and returned to the lab for volatile organic compound (VOC) analysis. All trip blank analytes were reported as non-detect, and all surrogate recoveries were within control limits.

Notes

None.

Data Validation

Upon final review of lab report 250-17278-1 for Leichner Landfill, SCS Engineers finds the data are valid for their intended use (03/31/2014; TMA).

**SCS Engineers QA/QC Review
Groundwater - 1Q 2014 Groundwater Monitoring Event
Leichner Brothers Landfill
Test America-Beaverton Report No. 250-17311-1**

Samples: LB-021914-15 (LB-10DR), LB-021914-16 (LB-10SR), LB-021914-17 (LB-1D), LB-021914-18 (LB-1S), LB-021914-19 (LB-1S/DUP2), LB-021914-20 (LB-20), LB-021914-21 (LB-3D), LB-021914-22 (LB-3S), LB-021914-23 (LB-6S), and trip blank.

Sample Date: 02/19/2014
Laboratory Sample Received Date: 02/19/2014
Sample Receipt Temperature: 5.7°C
Laboratory Data Received Date: 02/25/2014
QA/QC Review Date: 03/31/2014 (TMA)

VOCs

Method Blanks	All analytes were reported as non-detect.
Surrogates	All sample surrogates were within QC limits.
LCS	All % recoveries and surrogates were within QC limits.
LCSD	All relative percent differences (RPDs) were within QC limits.

Dissolved Metals

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries were within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits.

General Chemistry

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries within control limits.
Matrix Spikes	All % recoveries were within QC limits except for chloride in batch 250-24658 (F1 flag). This is noted and qualified in the case narrative.
MSD	All RPDs were within QC limits. All % recoveries were within QC limits.
Duplicates	All RPDs were within QC limits.

Hold Times

All analytical hold times were met.

Reporting Limit Exceedances

All project-specific reporting limits were met.

Field QA/QC

Field Duplicate

A field duplicate sample LB-021914-19 (DUP2) was collected at monitoring well LB-26I (LB-021714-06) on 02/17/2014. All calculated RPDs were within 20%.

Trip Blank

A laboratory supplied trip blank was carried into the field on 02/18/2014 with all samples collected on the same date and returned to the lab for volatile organic compound (VOC) analysis. All trip blank analytes were reported as non-detect, and all surrogate recoveries were within control limits.

Notes

1,4-dichlorobenzene was reported as an estimated concentration in the LB-20S sample because it was detected below the method reporting limit (MRL) but above the method detection limit (MDL) (J Flag).

Chloroform was reported as an estimated concentration in the LB-3S sample because it was detected below the method reporting limit (MRL) but above the method detection limit (MDL) (J Flag). Chloroform is a common laboratory contaminant.

Data Validation

Upon final review of lab report 250-17311-1 for Leichner Landfill, SCS Engineers finds the data are valid for their intended use (03/31/2014; TMA).

Third Quarter (August) QA/QC Reviews

**SCS Engineers QA/QC Review
Groundwater - 3Q 2014 Groundwater Monitoring Event
Leichner Landfill
Test America-Beaverton Report No. 250-20810-1**

Samples: LB-081314-01 (LB-5S), LB-081314-03 (FB1), LB-081314-03 (LB-27I), LB-081314-04 (LB-13I), LB-081314-05 (LB-26I), LB-081314-06 (LB-6S), LB-081314-07 (LB-6S/DUP1), and trip blank.

Sample Date: 08/13/2014

Laboratory Sample Received Date: 08/14/2014

Sample Receipt Temperature: 4.0°C

Laboratory Data Received Date: 08/29/2014

QA/QC Review Date: 09/03/2014 (TMA)

VOCs

Method Blanks	All analytes were reported as non-detect, except for 1,2,4-trichlorobenzene and naphthalene detected above the method detection limit but below the reporting limit (J Flags) in batch 250-29690. It should be noted that this J Flags represent an approximate value. No corrective action was necessary because 1,2,4-trichlorobenzene and naphthalene were not detected in any of the monitoring well samples.
Surrogates	All sample surrogates were within QC limits.
LCS	All % recoveries and surrogates were within QC limits.
LCSD	All relative percent differences (RPDs) were within QC limits.

Dissolved Metals

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries were within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits.

General Chemistry

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All % recoveries were within QC limits.
Duplicates	All RPDs were within QC limits.

Hold Times

All analytical hold times were met.

Reporting Limit Exceedances

All project-specific reporting limits were met.

Field QA/QC

Field Duplicate

A field duplicate sample LB-081314-07 (DUP1) was collected at monitoring well LB-6S (LB-081314-06) on 08/13/2014. All calculated RPDs were within 20%.

Field/Equipment Blank

An equipment blank sample (LB-081314-02) was collected near monitoring well LB-27I on 08/13/2014 using lab supplied deionized water. All analytes were reported as non-detect except for chloroform at an estimate value of 0.30 ug/L (RL = 0.50 ug/L and MDL = 0.10 ug/L) (J Flag).

Trip Blank

A laboratory supplied trip blank was carried into the field on 08/13/2014 with all samples collected on the same date and returned to the lab for volatile organic compound (VOC) analysis. All trip blank analytes were reported as non-detect, and all surrogate recoveries were within control limits.

Notes

None.

Data Validation

Upon final review of lab report 250-20810-1 for Leichner Landfill, SCS Engineers finds the data are valid for their intended use (09/03/2014; TMA).

**SCS Engineers QA/QC Review
Groundwater - 3Q 2014 Groundwater Monitoring Event
Leichner Landfill
Test America-Beaverton Report No. 250-20827-1**

Samples: LB-081414-08 (LB-10SR), LB-081414-09 (LB-1S), and trip blank.

Sample Date: 08/14/2014

Laboratory Sample Received Date: 08/14/2014

Sample Receipt Temperature: 5.5°C

Laboratory Data Received Date: 08/29/2014

QA/QC Review Date: 09/03/2014 (TMA)

VOCs

Method Blanks	All analytes were reported as non-detect, except for 1,2,4-trichlorobenzene and naphthalene detected above the method detection limit but below the reporting limit (J Flags) in batch 250-29690. It should be noted that this J Flags represent an approximate value. No corrective action was necessary because 1,2,4-trichlorobenzene and naphthalene were not detected in any of the monitoring well samples.
Surrogates	All sample surrogates were within QC limits.
LCS	All % recoveries and surrogates were within QC limits.
LCSD	All relative percent differences (RPDs) were within QC limits.

Dissolved Metals

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries were within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits.

General Chemistry

Method Blanks	All analytes were reported as non-detect.
LCS	All % recoveries within control limits.
Matrix Spikes	All % recoveries were within QC limits.
MSD	All RPDs were within QC limits. All % recoveries were within QC limits.
Duplicates	All RPDs were within QC limits.

Hold Times

All analytical hold times were met.

Reporting Limit Exceedances

All project-specific reporting limits were met.

Field QA/QC

Trip Blank

A laboratory supplied trip blank was carried into the field on 08/14/2014 with all samples collected on the same date and returned to the lab for volatile organic compound (VOC) analysis. All trip blank analytes were reported as non-detect, and all surrogate recoveries were within control limits.

Notes

None.

Data Validation

Upon final review of lab report 250-20827-1 for Leichner Landfill, SCS Engineers finds the data are valid for their intended use (09/03/2014; TMA).

APPENDIX F

Summary of 2014 Groundwater Statistical Calculations

Leichner Landfill
Groundwater Statistics - March 2009 through August 2014 Data
95 Percent Upper Confidence Limits on the Mean

Parameter	LB-1S					LB-1D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	10	10	< comp level	NC	M(19)	5	5	< comp level	NC	M(7.7)
Nitrate (mg/L)	10	10	< comp level	NC	M(8.7)	5	5	< comp level	NC	M(6.14)
TDS (mg/L)	10	10	< comp level	NC	M(260)	5	5	< comp level	NC	M(200)
Metals (mg/L)										
Iron (dissolved)	10	1	< comp level	NC	All ND	5	1	< comp level	NC	M(0.036)
Manganese (dissolved)	10	1	< comp level	NC	M(0.002)	5	1	< comp level	NC	M(0.0058)
VOCs (µg/L)										
1,1-Dichloroethene	9	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	9	0	NC	NC	All ND	5	0	NC	NC	All ND

Parameter	LB-3S					LB-3D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	5	5	< comp level	NC	M(3.7)	5	5	< comp level	NC	M(4.6)
Nitrate (mg/L)	5	5	< comp level	NC	M(4.3)	5	5	< comp level	NC	M(5.76)
TDS (mg/L)	5	5	< comp level	NC	M(188)	5	5	< comp level	NC	M(201)
Metals (mg/L)										
Iron (dissolved)	5	0	< comp level	NC	All ND	5	0	< comp level	NC	All ND
Manganese (dissolved)	5	0	< comp level	NC	All ND	5	0	< comp level	NC	All ND
VOCs (µg/L)										
1,1-Dichloroethene	5	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	5	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	5	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	5	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	5	0	NC	NC	All ND	5	0	NC	NC	All ND

Leichner Landfill
Groundwater Statistics - March 2009 through August 2014 Data
95 Percent Upper Confidence Limits on the Mean

Parameter	LB-4SR (background)					LB-4D (background)				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	5	5	< comp level	NC	M(5.36)	5	5	< comp level	NC	M(4.7)
Nitrate (mg/L)	5	5	< comp level	NC	M(4.89)	5	5	< comp level	NC	M(8.7)
TDS (mg/L)	5	5	< comp level	NC	M(191)	5	5	< comp level	NC	M(180)
Metals (mg/L)										
Iron (dissolved)	5	0	< comp level	NC	All ND	6	0	< comp level	NC	All ND
Manganese (dissolved)	5	1	< comp level	NC	M(0.0034)	6	0	< comp level	NC	All ND
VOCs (µg/L)										
1,1-Dichloroethene	5	0	NC	NC	All ND	6	0	NC	NC	All ND
1,4-Dichlorobenzene	5	0	NC	NC	All ND	6	0	NC	NC	All ND
Tetrachloroethene	5	0	NC	NC	All ND	6	0	NC	NC	All ND
Trichloroethene	5	0	NC	NC	All ND	6	0	NC	NC	All ND
Vinyl Chloride	5	0	NC	NC	All ND	6	0	NC	NC	All ND

Parameter	LB-5S					LB-5D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	12	12	< comp level	NC	M(7.3)	5	5	< comp level	NC	M(11.3)
Nitrate (mg/L)	12	12	< comp level	NC	M(6.19)	5	5	< comp level	NC	M(1.7)
TDS (mg/L)	12	12	< comp level	NC	M(210)	5	5	< comp level	NC	M(240)
Metals (mg/L)										
Iron (dissolved)	12	2	< comp level	NC	All ND	5	0	< comp level	NC	All ND
Manganese (dissolved)	12	1	< comp level	NC	All ND	5	1	< comp level	NC	M(0.0026)
VOCs (µg/L)										
1,1-Dichloroethene	11	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	11	0	NC	NC	All ND	5	0	NC	NC	All ND

Leichner Landfill
Groundwater Statistics - March 2009 through August 2014 Data
95 Percent Upper Confidence Limits on the Mean

Parameter	LB-6S					LB-20S				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	16	16	< comp level	NC	M(9.8)	5	5	< comp level	NC	M(22.1)
Nitrate (mg/L)	16	16	< comp level	NC	M(3.53)	5	1	< comp level	NC	M(0.1)
TDS (mg/L)	16	16	< comp level	NC	M(229)	5	5	< comp level	NC	M(361)
Metals (mg/L)										
Iron (dissolved)	16	5	Lognormal*	0.11	M(0.379)	5	5	Lognormal	0.15	M(0.368)
Manganese (dissolved)	16	4	< comp level	0.01	M(0.031)	5	5	Normal	2.17	3.26
VOCs (µg/L)										
1,1-Dichloroethene	15	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	16	0	NC	NC	All ND	5	2	< comp level		M(0.25)
Tetrachloroethene	16	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	16	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	15	0	NC	NC	All ND	5	0	NC	NC	All ND

* MTCASat 97 indicated lognormal distribution; however, the UCL 95 cannot be determined because more than 50 percent of the data are censored (i.e., non-detect).

Parameter	LB-10SR					LB-10DR				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	12	12	< comp level	NC	M(32)	5	5	< comp level	NC	M(26.0)
Nitrate (mg/L)	12	12	< comp level	NC	M(5.97)	5	5	< comp level	NC	M(2.3)
TDS (mg/L)	12	12	< comp level	NC	M(330)	5	5	< comp level	NC	M(329)
Metals (mg/L)										
Iron (dissolved)	12	1	< comp level	NC	All ND	5	2	< comp level	NC	M(0.047)
Manganese (dissolved)	12	6	< comp level	NC	M(0.0058)	5	5	< comp level	NC	M(0.032)
VOCs (µg/L)										
1,1-Dichloroethene	11	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	12	1	NC	0.15	All ND	5	0	NC	NC	All ND
Vinyl Chloride	11	0	NC	NC	All ND	5	0	NC	NC	All ND

Leichner Landfill
Groundwater Statistics - March 2009 through August 2014 Data
95 Percent Upper Confidence Limits on the Mean

Parameter	LB-13I					LB-13D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	11	11	< comp level	NC	M(12)	5	5	< comp level	NC	M(4.6)
Nitrate (mg/L)	11	11	< comp level	NC	M(5.31)	5	5	< comp level	NC	M(5.4)
TDS (mg/L)	11	11	< comp level	NC	M(220)	5	5	< comp level	NC	M(193)
Metals (mg/L)										
Iron (dissolved)	11	0	< comp level	NC	All ND	5	0	< comp level	NC	All ND
Manganese (dissolved)	11	2	< comp level	NC	M(0.0041)	5	0	< comp level	NC	All ND
VOCs (µg/L)										
1,1-Dichloroethene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	11	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	11	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	11	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	10	0	NC	NC	All ND	5	0	NC	NC	All ND

Parameter	LB-17I					LB-17D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	5	5	< comp level	NC	M(27.4)	5	5	< comp level	NC	M(19)
Nitrate (mg/L)	5	0	< comp level	NC	All ND	5	0	< comp level	NC	All ND
TDS (mg/L)	5	5	< comp level	NC	M(306)	5	5	< comp level	NC	M(230)
Metals (mg/L)										
Iron (dissolved)	5	5	Lognormal	7.48	8.90	5	5	< comp level	0.100	M (0.12)
Manganese (dissolved)	5	5	Lognormal	1.27	M(1.55)	5	5	Lognormal	3.99	4.52
VOCs (µg/L)										
1,1-Dichloroethene	6	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	6	1	NC	0.26	M(0.26)	5	0	NC	NC	All ND
Tetrachloroethene	6	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	6	1	NC	0.81	M(0.81)	5	0	NC	NC	All ND
Vinyl Chloride	6	0	NC	NC	All ND	5	0	NC	NC	All ND

**Leichner Landfill
Groundwater Statistics - March 2009 through August 2014 Data
95 Percent Upper Confidence Limits on the Mean**

Parameter	LB-26I					LB-26D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	10	10	< comp level	NC	M(8.52)	5	5	< comp level	NC	M(5.2)
Nitrate (mg/L)	10	10	< comp level	NC	M(5.2)	5	5	< comp level	NC	M(6.5)
TDS (mg/L)	10	10	< comp level	NC	M(229)	5	5	< comp level	NC	M(194)
Metals (mg/L)										
Iron (dissolved)	10	2	< comp level	NC	M(0.064)	5	0	< comp level	NC	All ND
Manganese (dissolved)	10	7	< comp level	NC	M(0.010)	5	1	< comp level	NC	M(0.0034)
VOCs (µg/L)										
1,1-Dichloroethene	9	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	9	1	NC	0.044	M(0.044)	5	0	NC	NC	All ND

**Leichner Landfill
Groundwater Statistics - March 2009 through August 2014 Data
95 Percent Upper Confidence Limits on the Mean**

Parameter	LB-27I					LB-27D				
	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b	No. Analyses	No. Detected	Distribution ^a	Mean	UCL 95 ^b
Inorganics										
Chloride (mg/L)	12	12	< comp level	NC	M(51)	5	5	< comp level	NC	M(13)
Nitrate (mg/L)	12	8	< comp level	NC	M(1.82)	5	5	< comp level	NC	M(4.2)
TDS (mg/L)	10	10	< comp level	NC	M(464)	5	5	< comp level	NC	M(245)
Metals (mg/L)										
Iron (dissolved)	12	1	< comp level	NC	M(0.032)	5	2	< comp level	NC	M(0.057)
Manganese (dissolved)	12	12	Normal	0.36	0.44	5	2	< comp level	NC	M(0.018)
VOCs (µg/L)										
1,1-Dichloroethene	10	0	NC	NC	All ND	5	0	NC	NC	All ND
1,4-Dichlorobenzene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Tetrachloroethene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Trichloroethene	12	0	NC	NC	All ND	5	0	NC	NC	All ND
Vinyl Chloride	10	1	NC	0.053	M(0.053)	5	0	NC	NC	All ND

Notes:

mg/L = milligrams per liter; µg/L = micrograms per liter; NC = not calculated, more than 50% samples were non-detect; Non = neither normal nor lognormal distribution;

M = default to maximum value per Statistical Guidance for Ecology Site Managers

for the following scenarios: (a) more than 50% non-detect values, (b) both normal and lognormal distributions were rejected by MTCASat,

and (c) UCL calculated using MTCASat was higher than the maximum value of the data set.

^a Distribution was determined using MTCASat 97 program and Statistical Guidance for Ecology Site Managers.

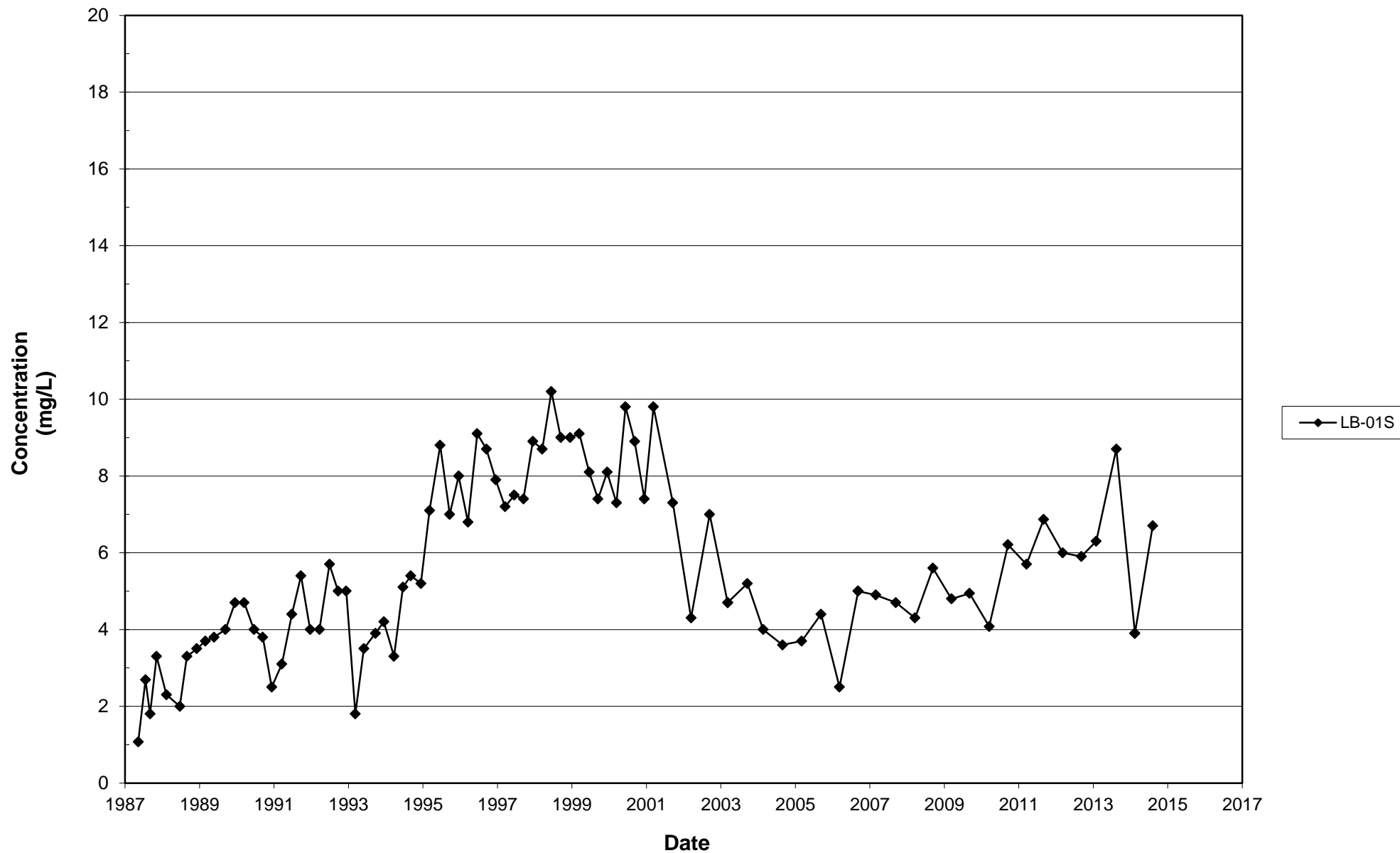
^b UCL 95 was calculated using MTCASat 97 program and Statistical Guidance for Ecology Site Managers.

APPENDIX G

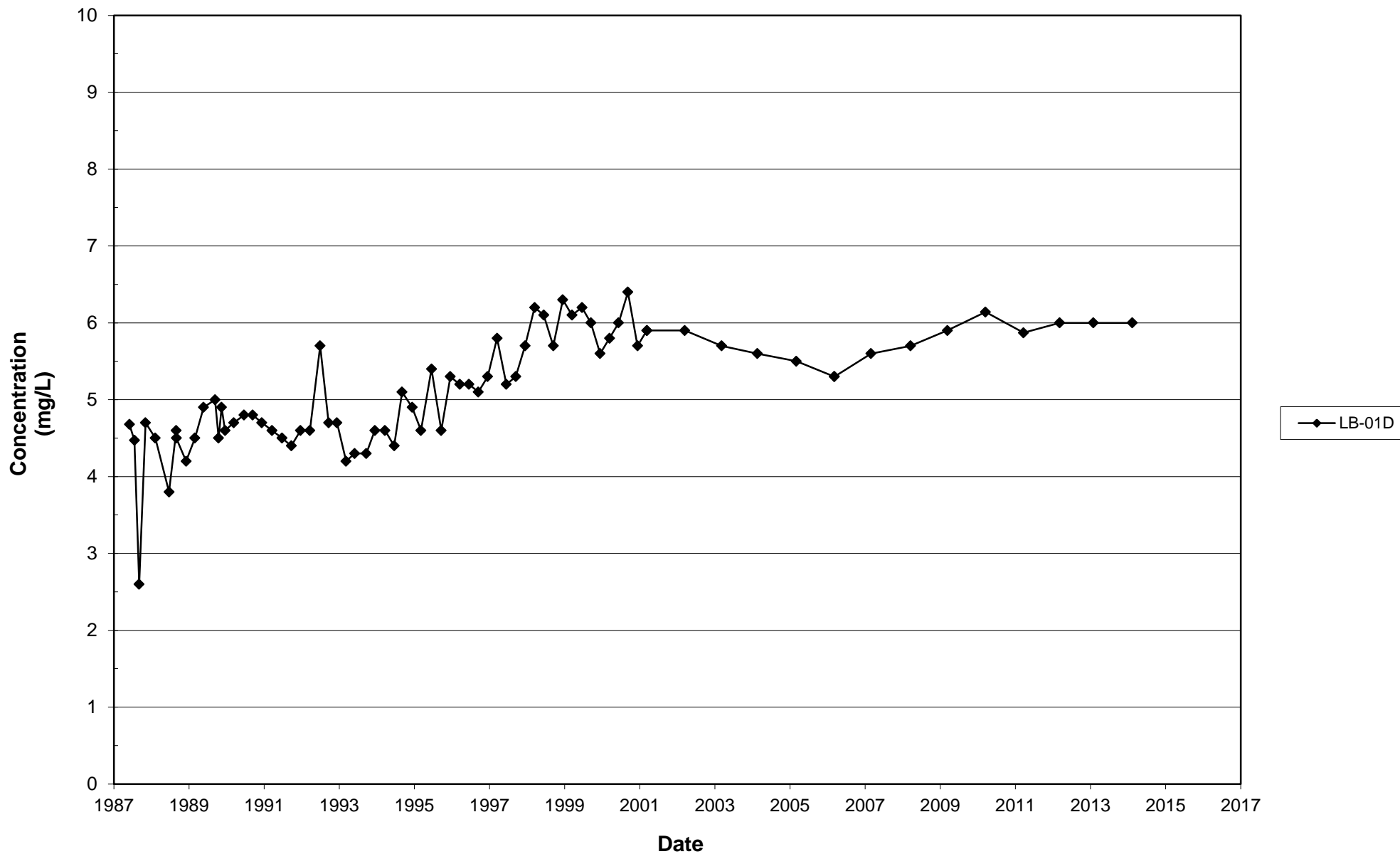
Groundwater Time-Concentration Graphs

Nitrate

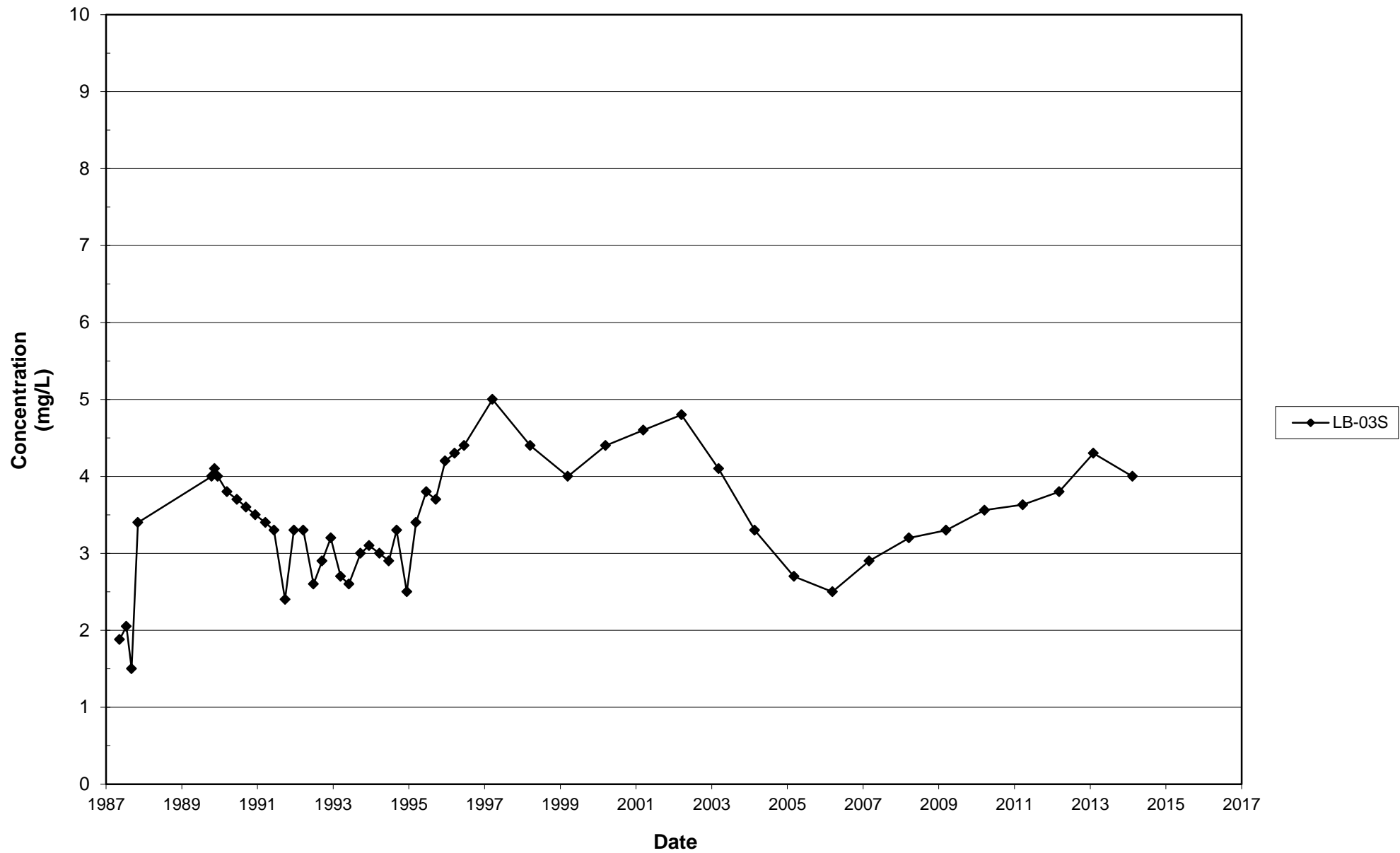
Leichner Landfill
Nitrate, LB-01S
1987 - 2014



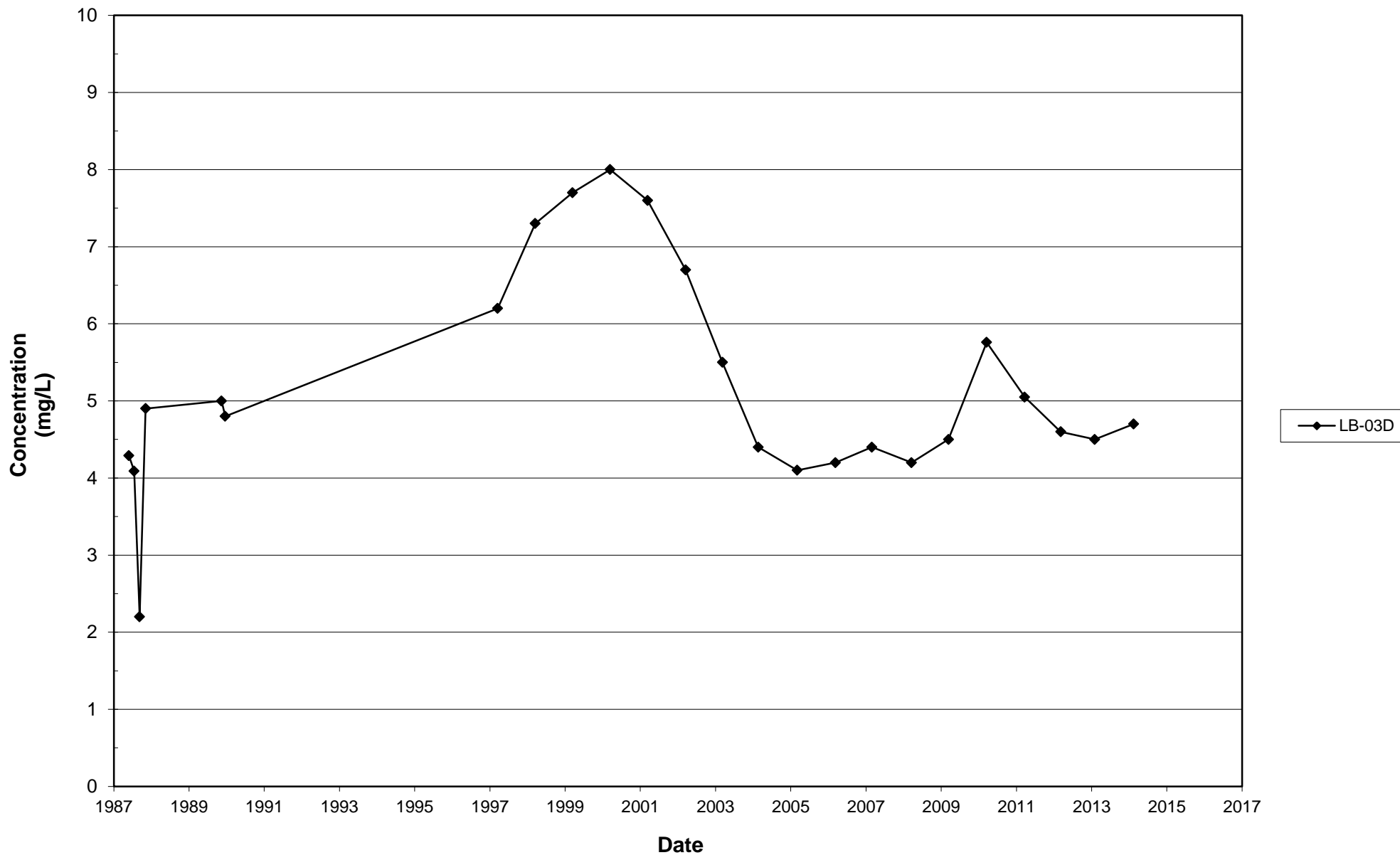
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1987 - 2014



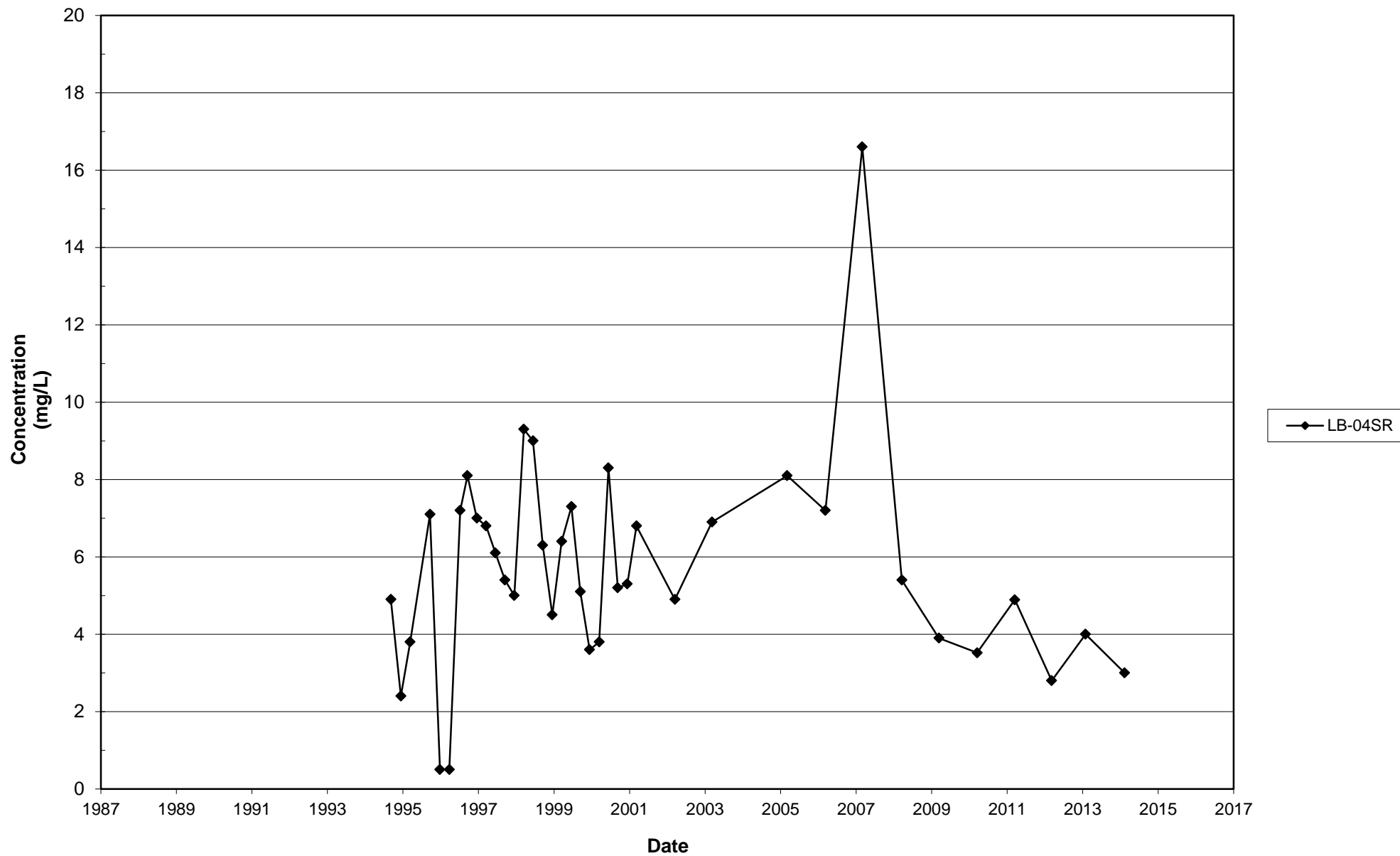
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1987 - 2014



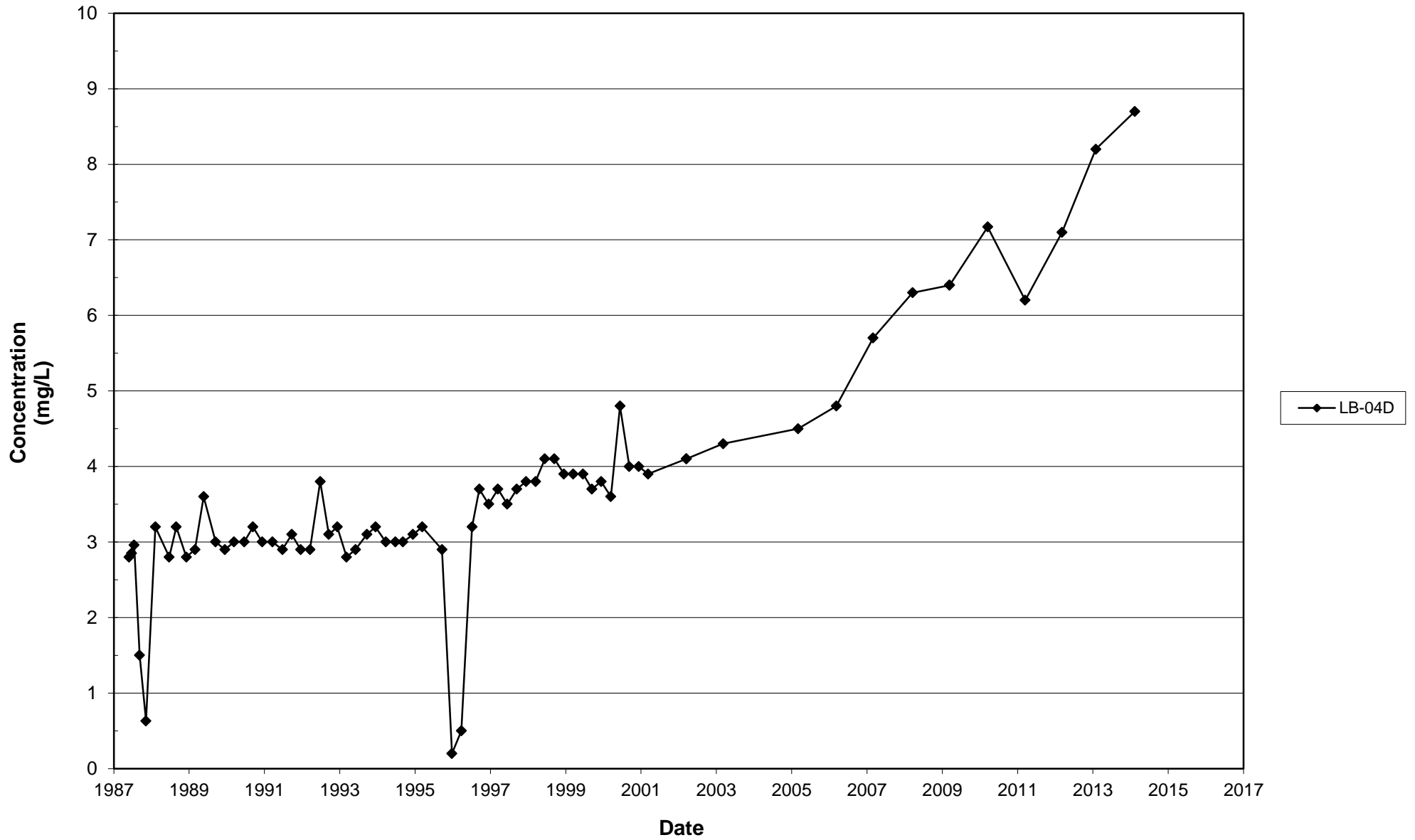
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1987 - 2014



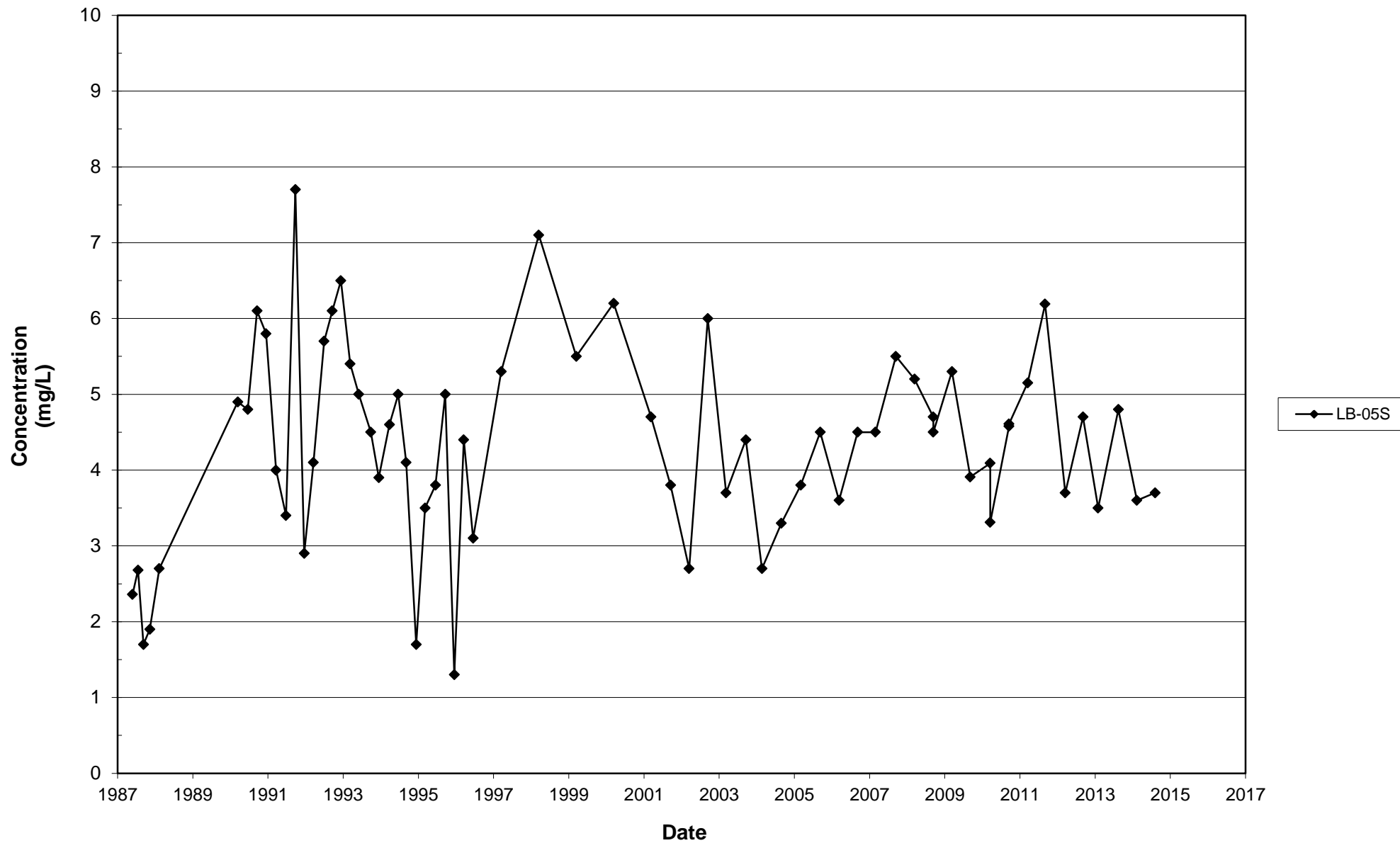
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1987 - 2014



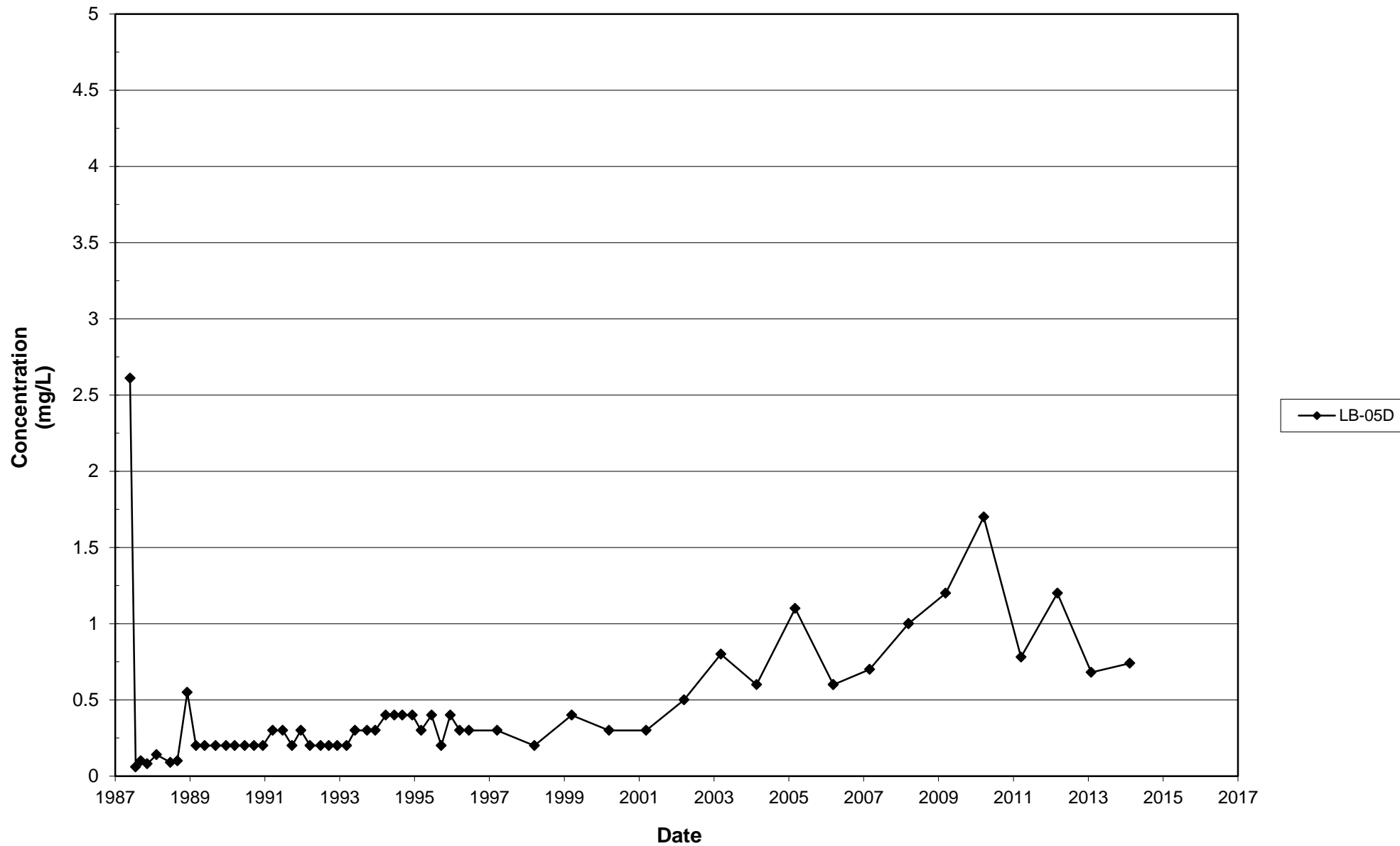
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1987 - 2014



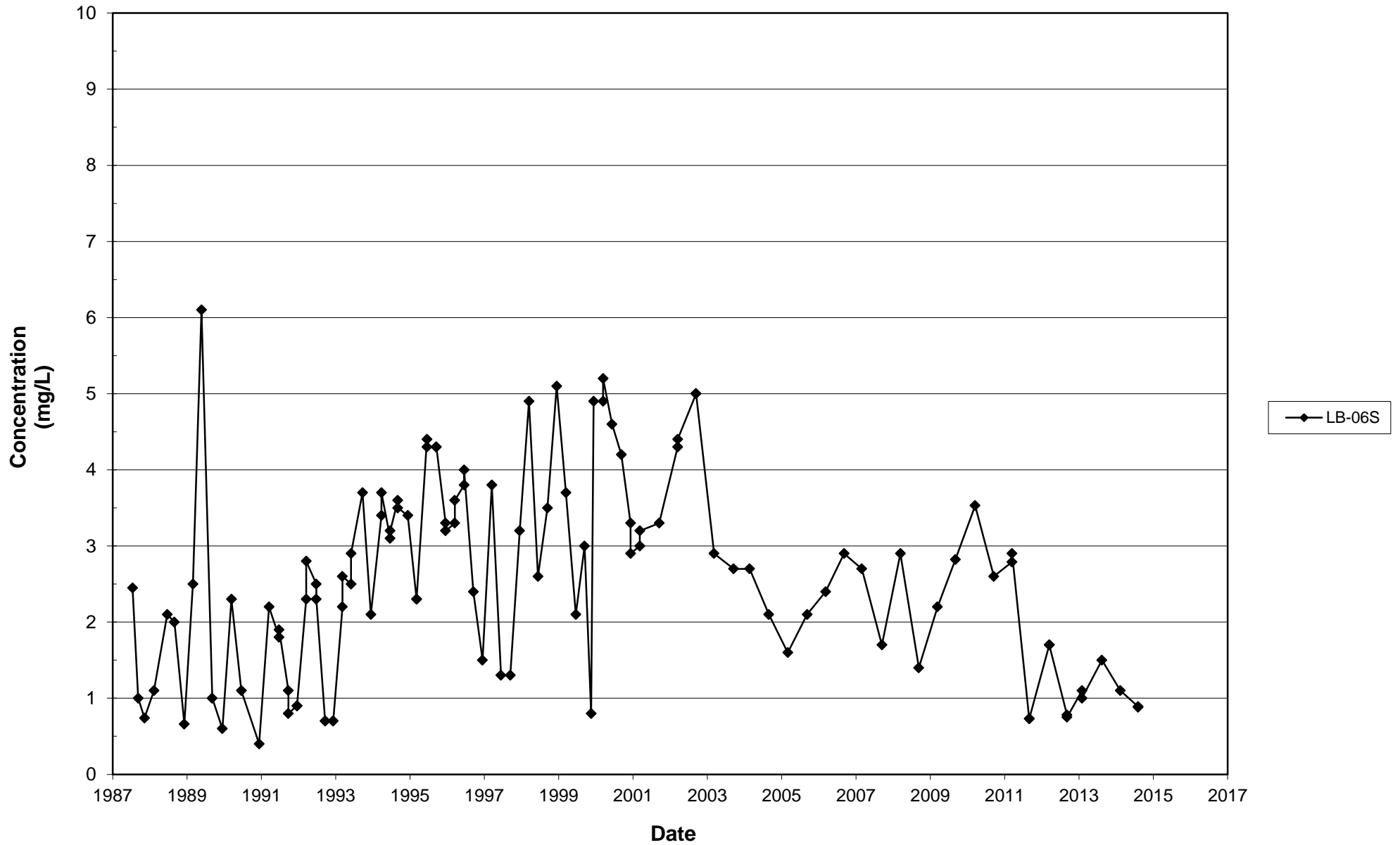
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1987 - 2014



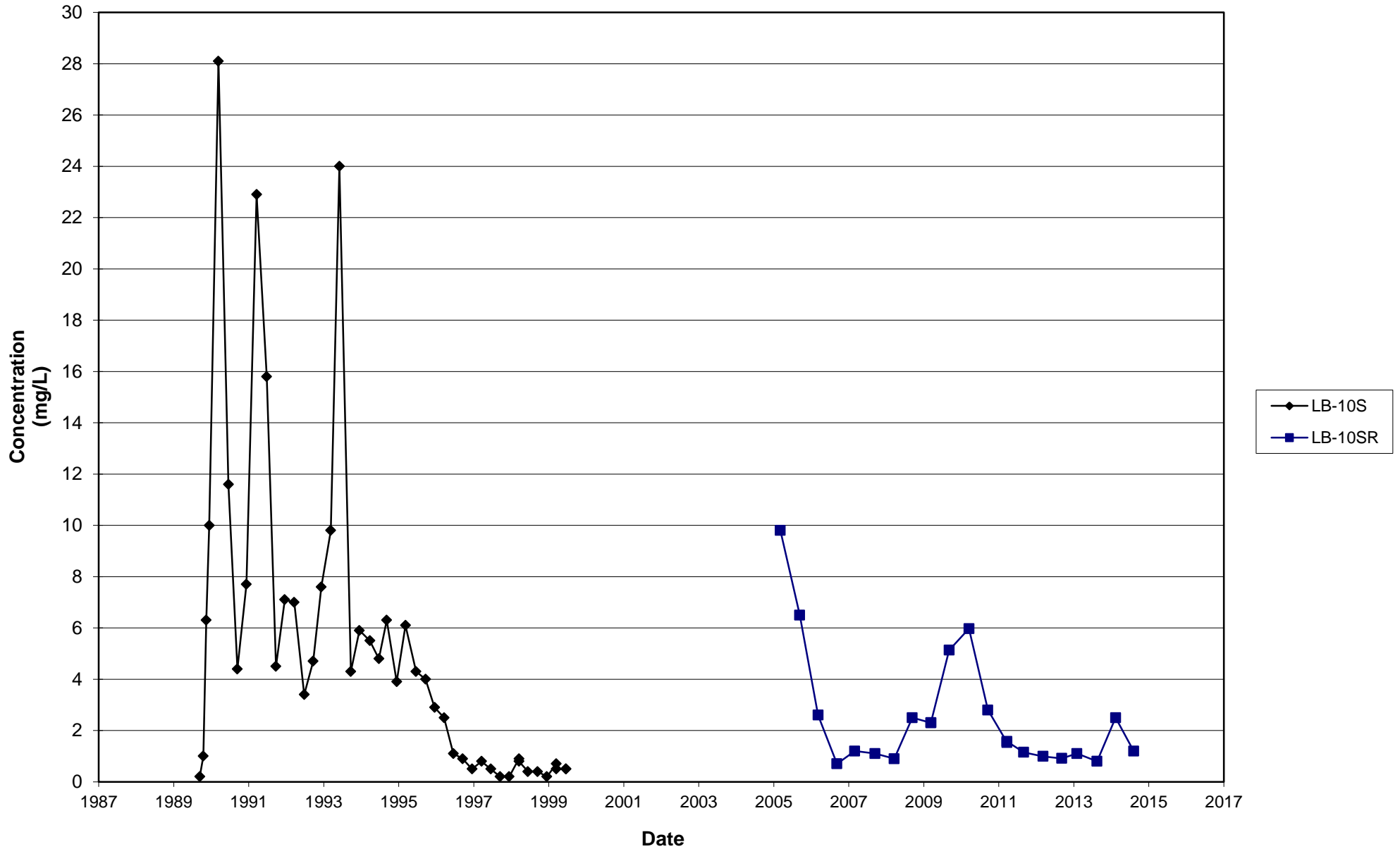
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1987 - 2014



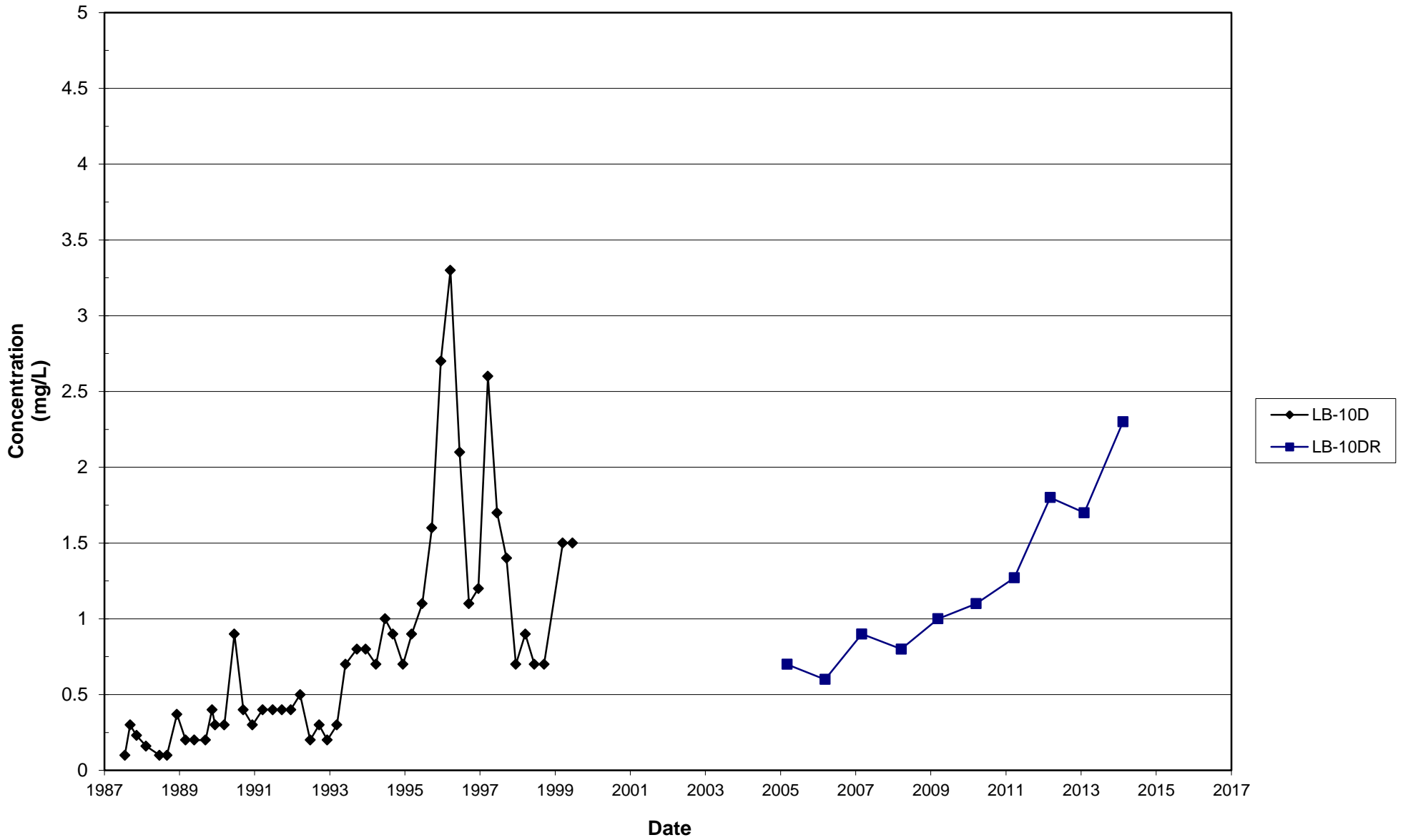
Leichner Landfill
Nitrate, LB-06S
1987 - 2014



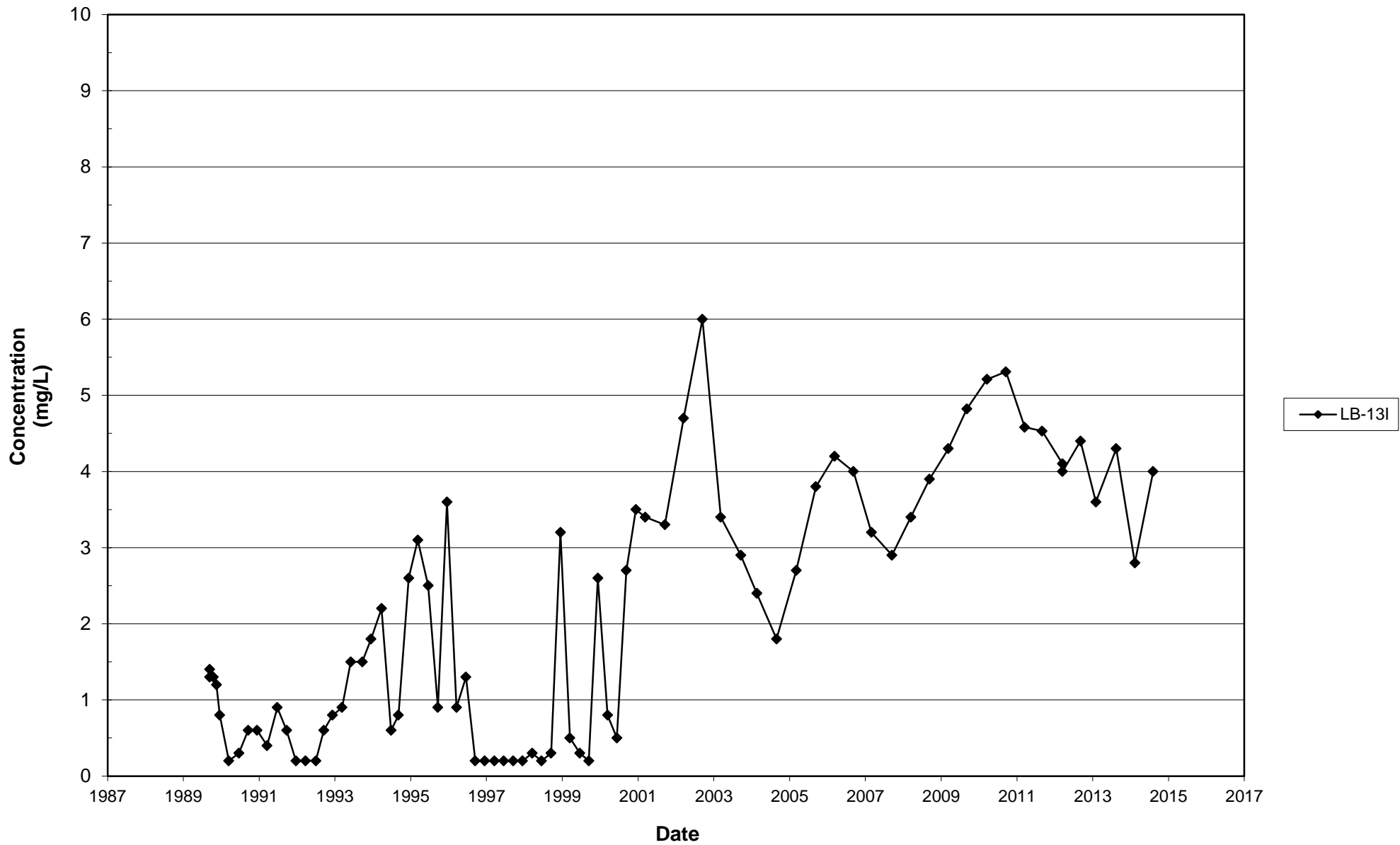
Leichner Landfill
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1987 - 2014



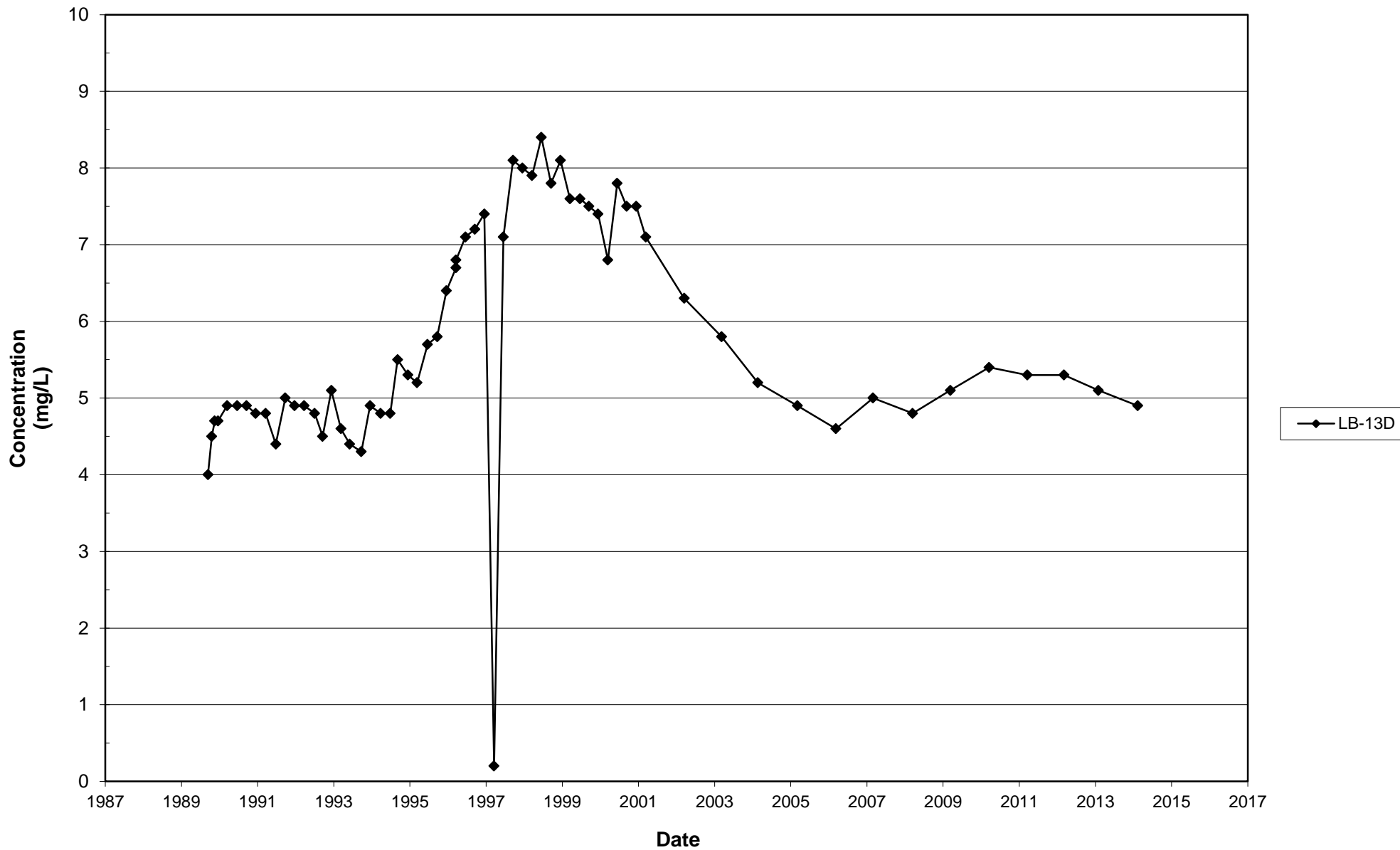
Leichner Landfill
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1987 - 2014



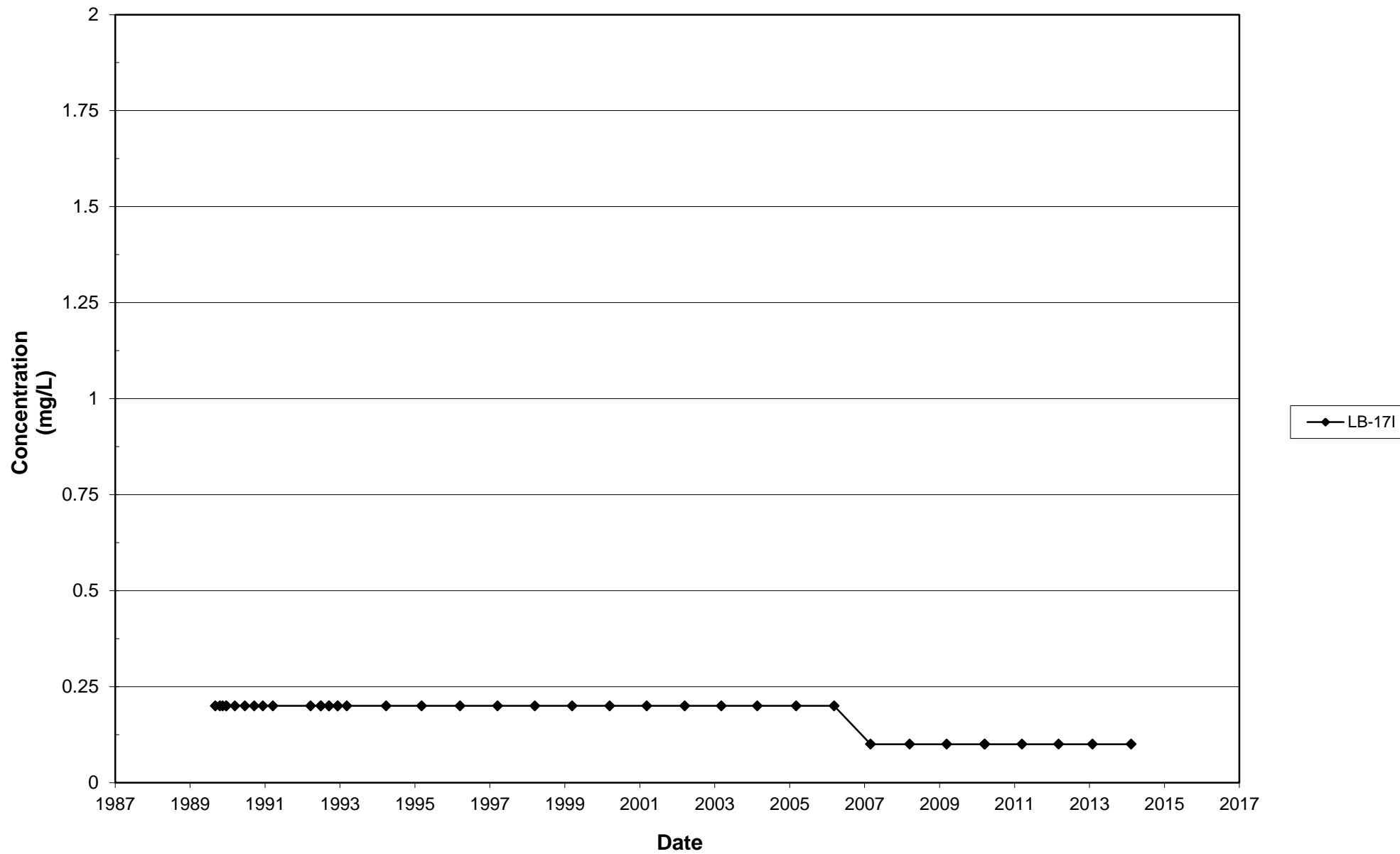
Leichner Landfill
Nitrate, LB-13I
1987 - 2014



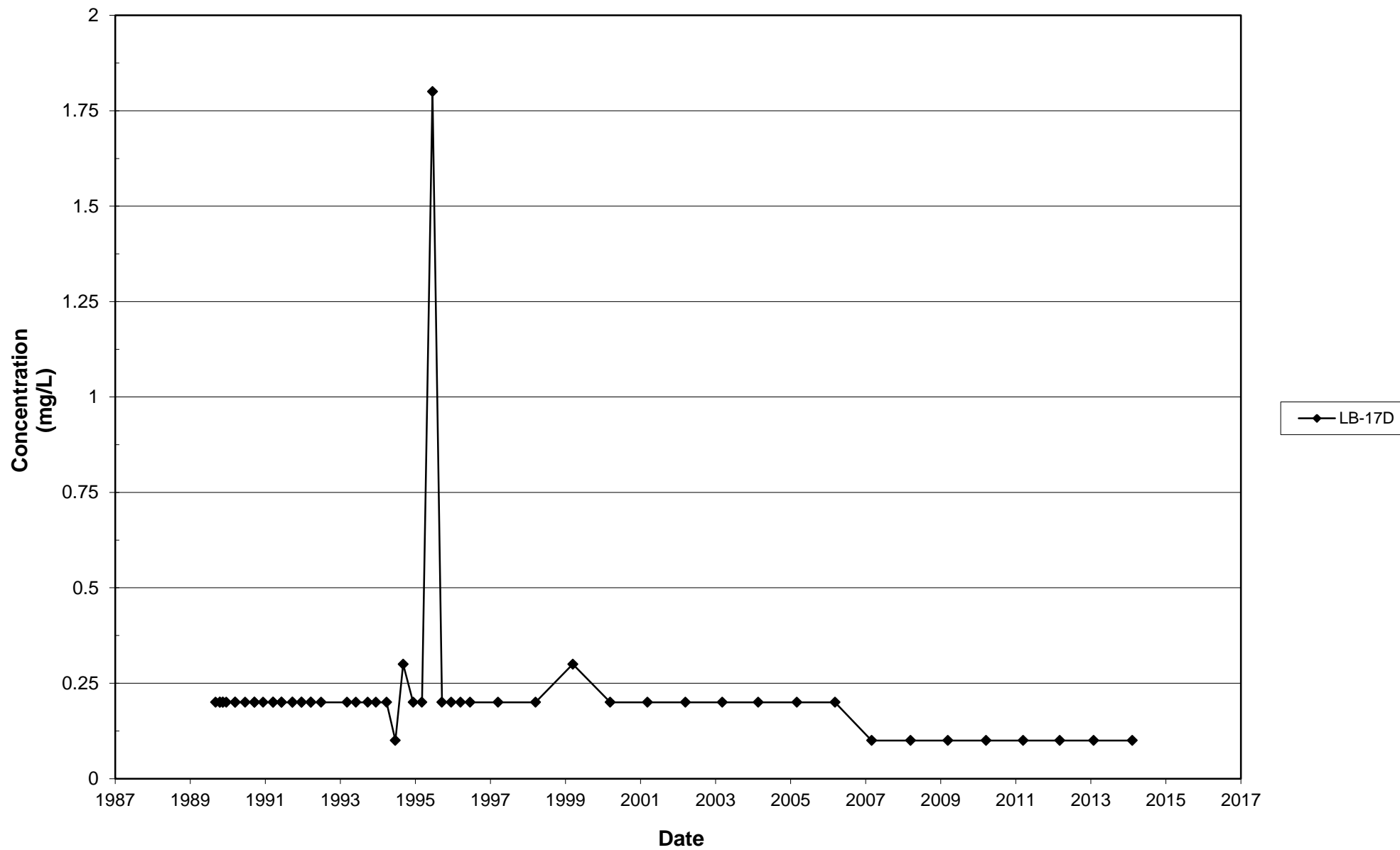
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Nitrate, LB-13D
1987 - 2014



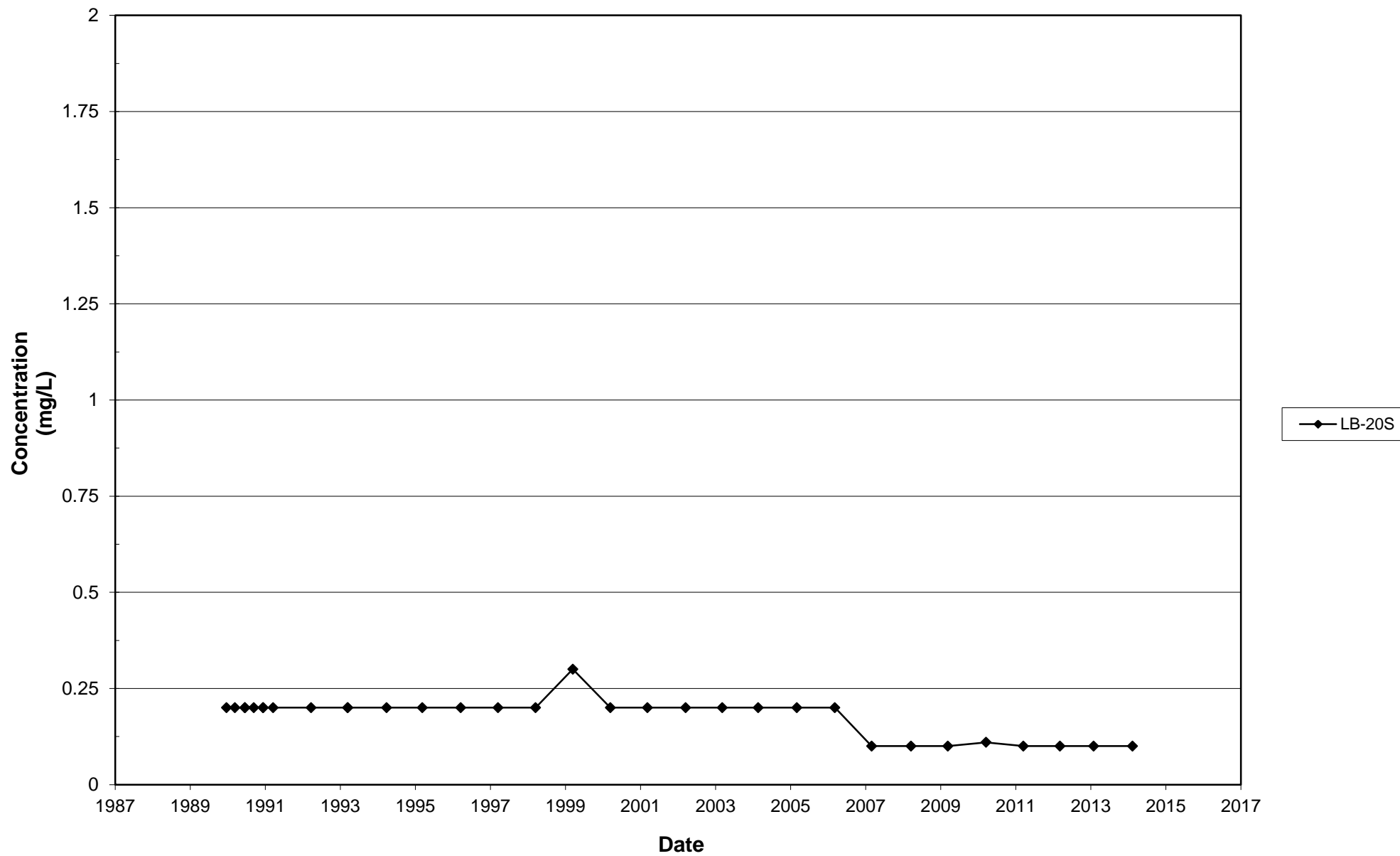
Leichner Landfill
Nitrate, LB-17I
1987 - 2014



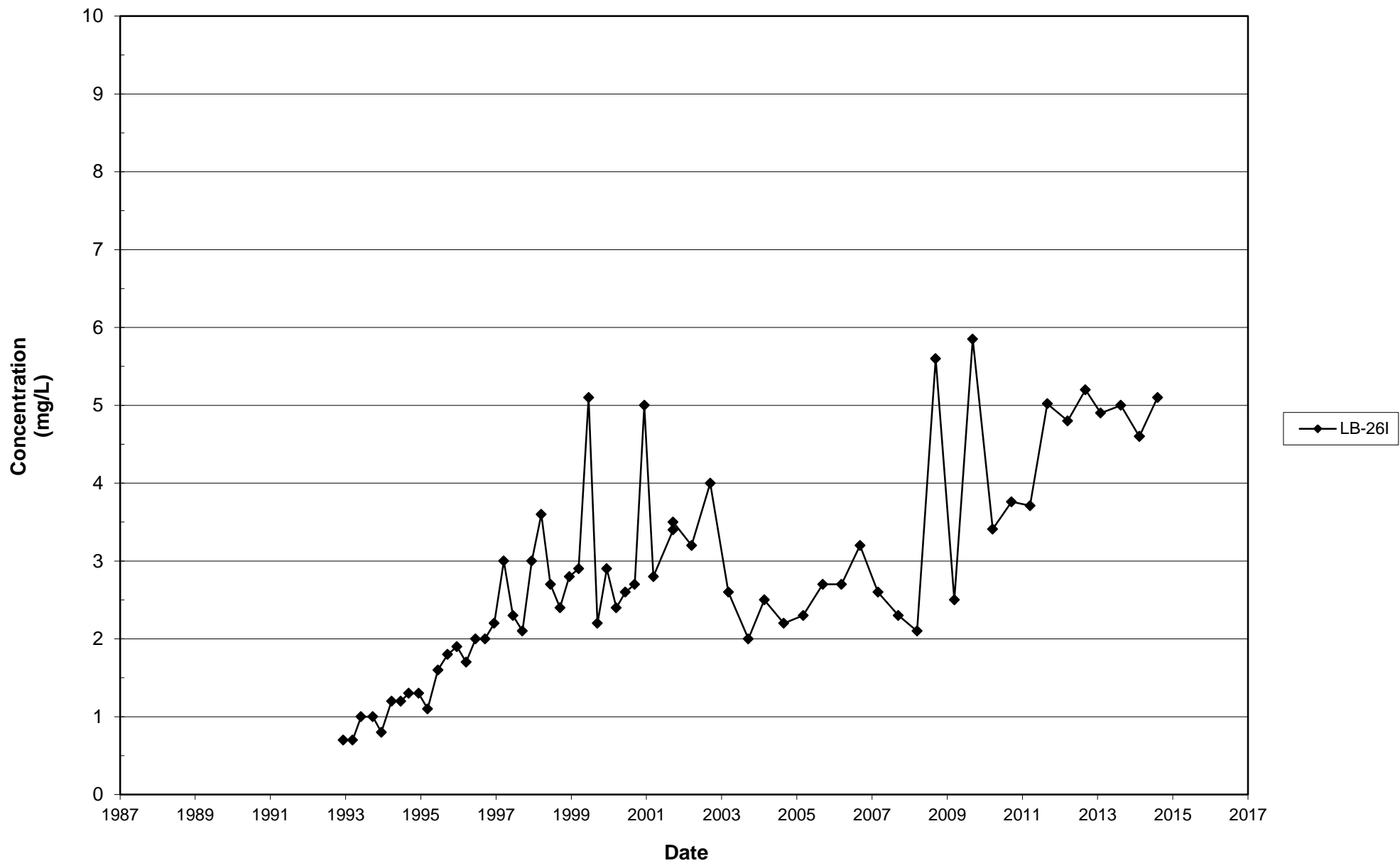
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Nitrate, LB-17D
1987 - 2014



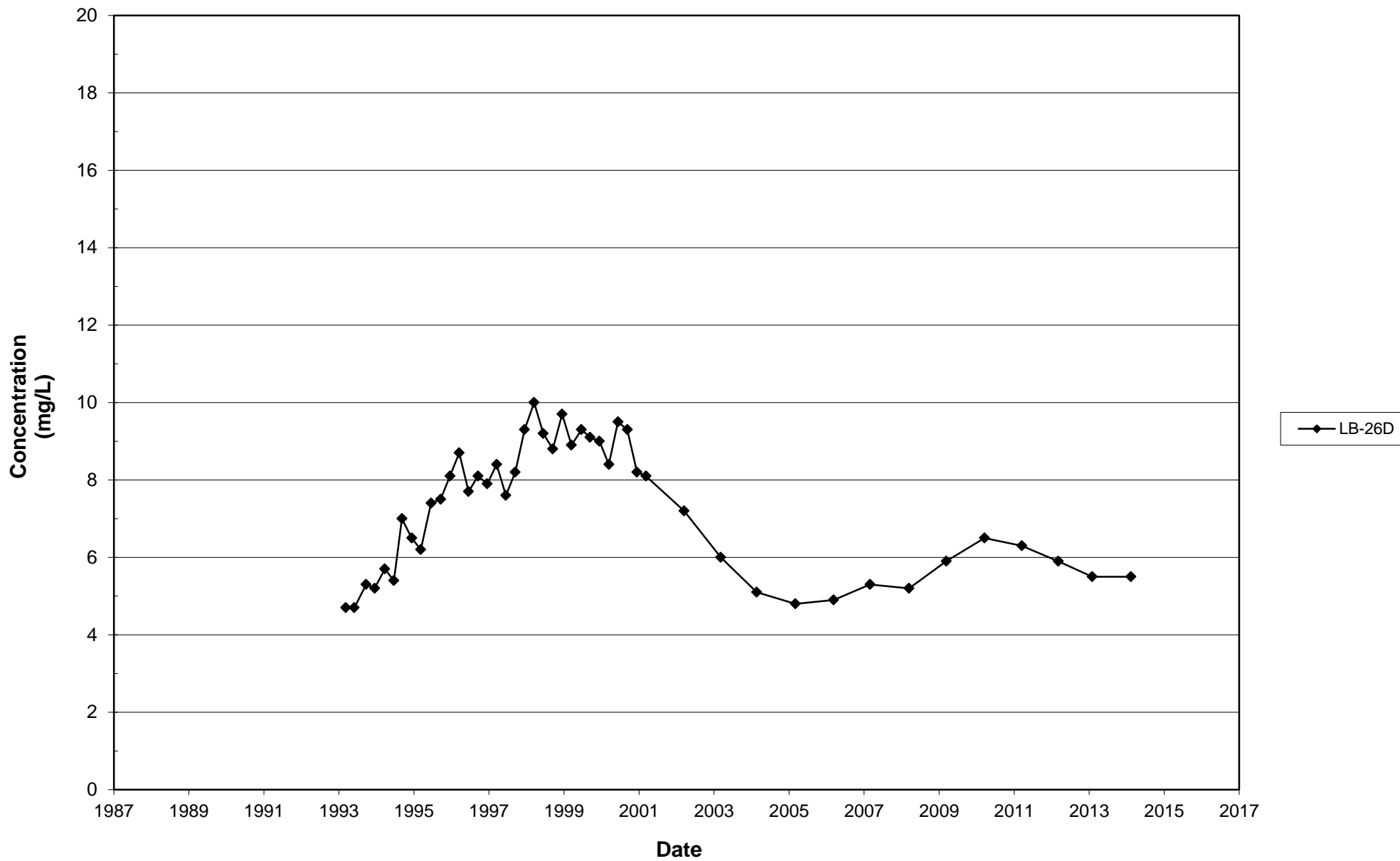
Leichner Landfill
Nitrate, LB-20S
1987 - 2014



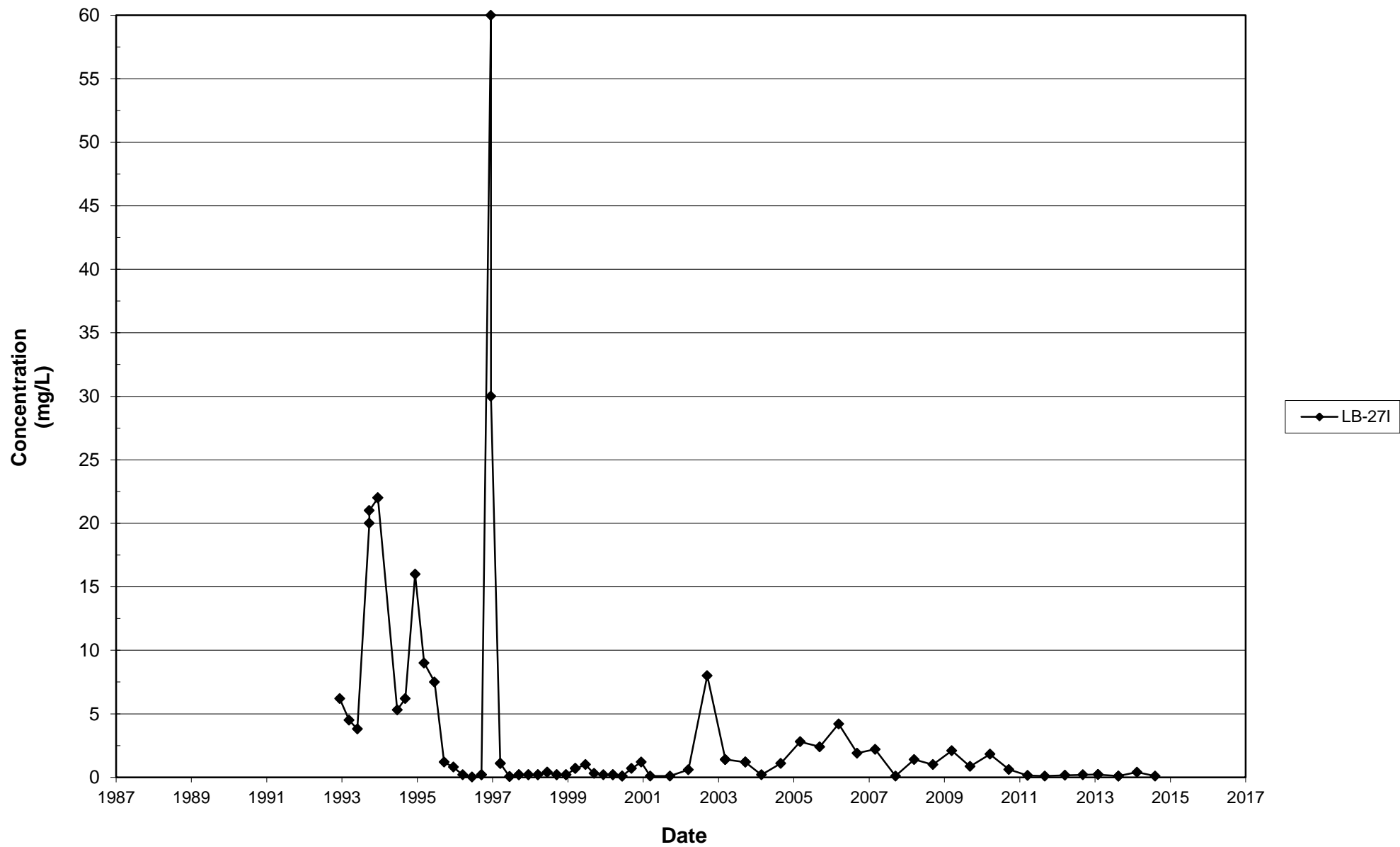
Leichner Landfill
Nitrate, LB-26I
1987 - 2014



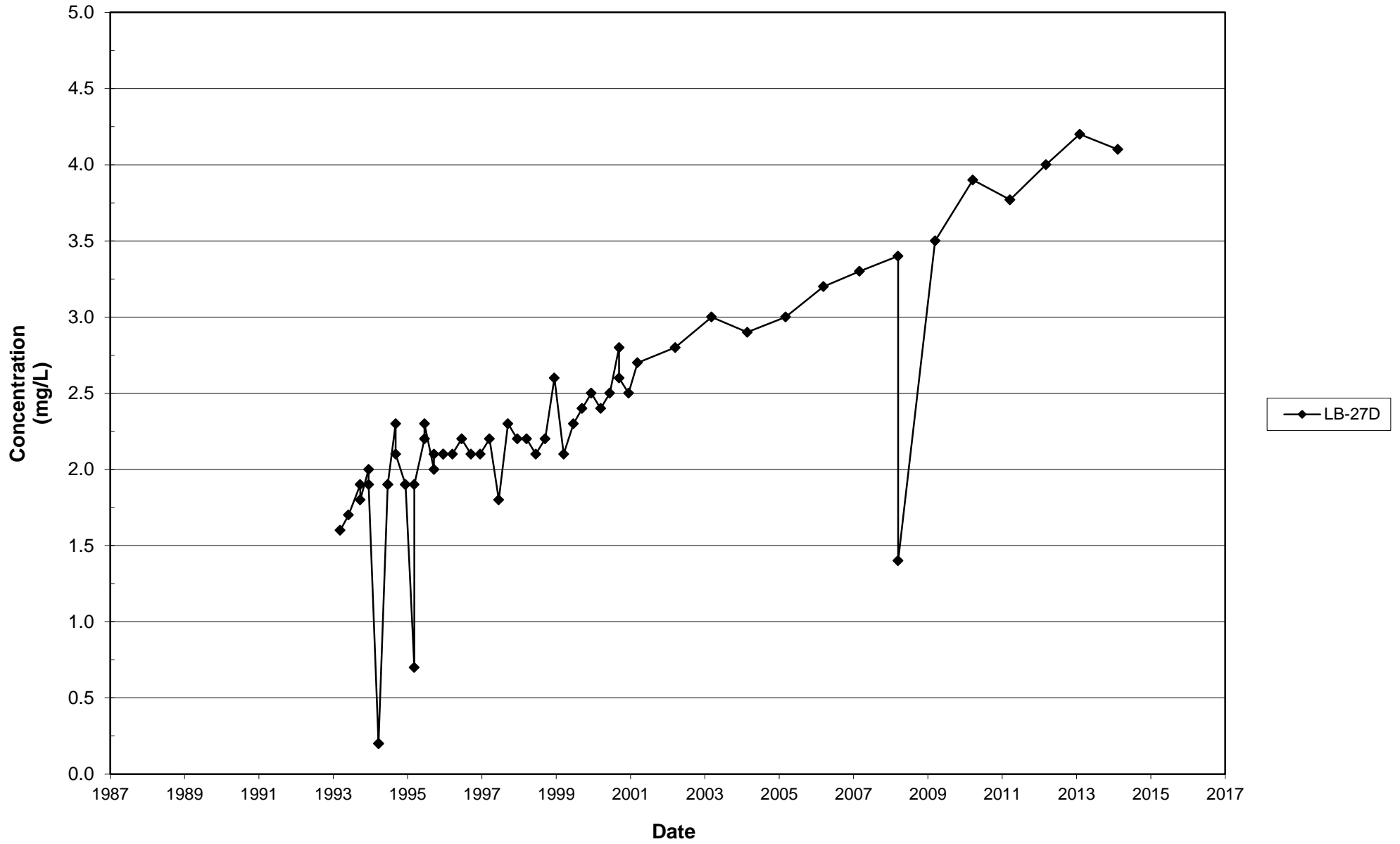
Leichner Landfill
Nitrate, LB-26D
1987 - 2014



Leichner Landfill
Nitrate, LB-27I
1987 - 2014

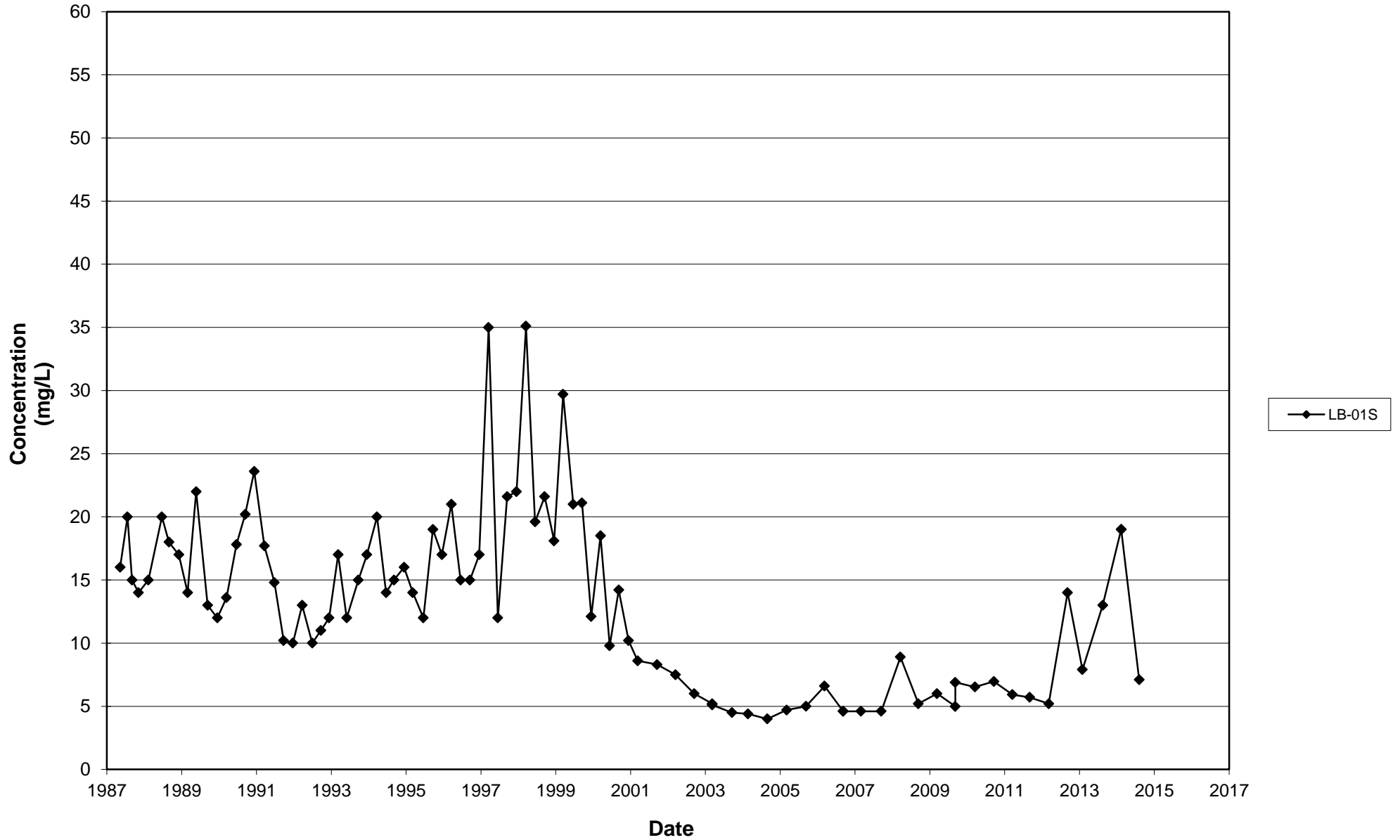


Leichner Landfill
Nitrate, LB-27D
1987 - 2014

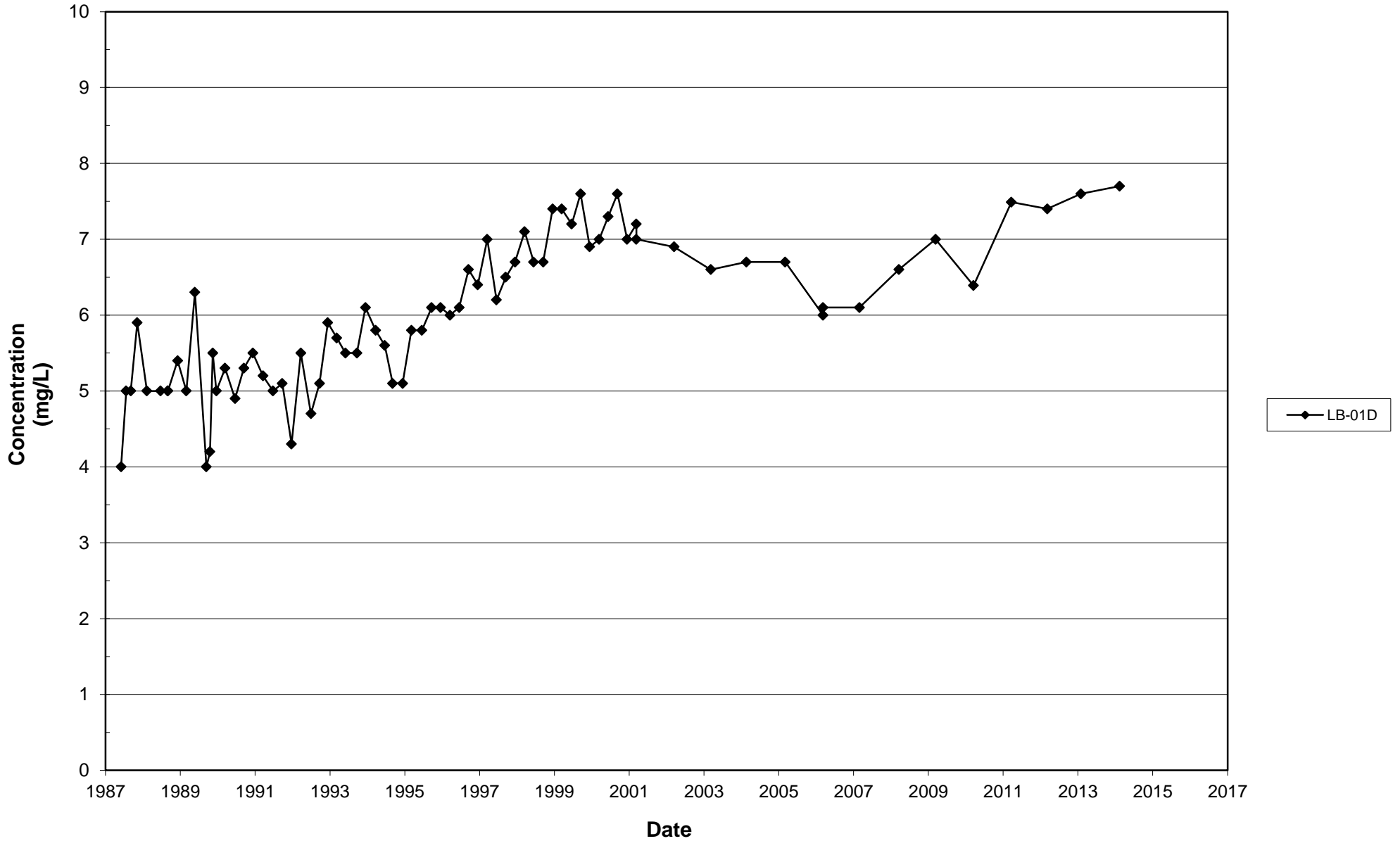


Chloride

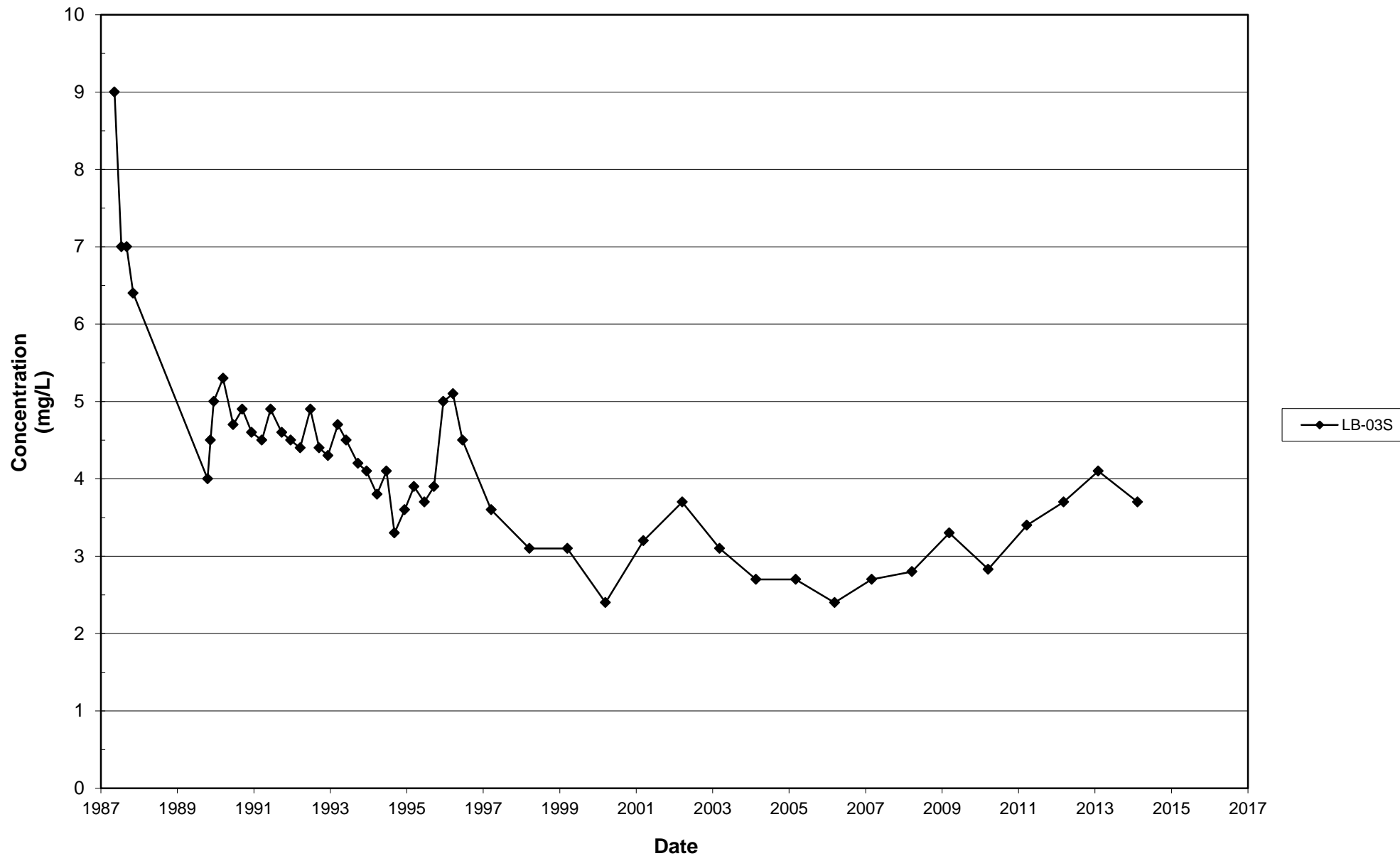
Leichner Landfill
Chloride, LB-01S
1987 - 2014



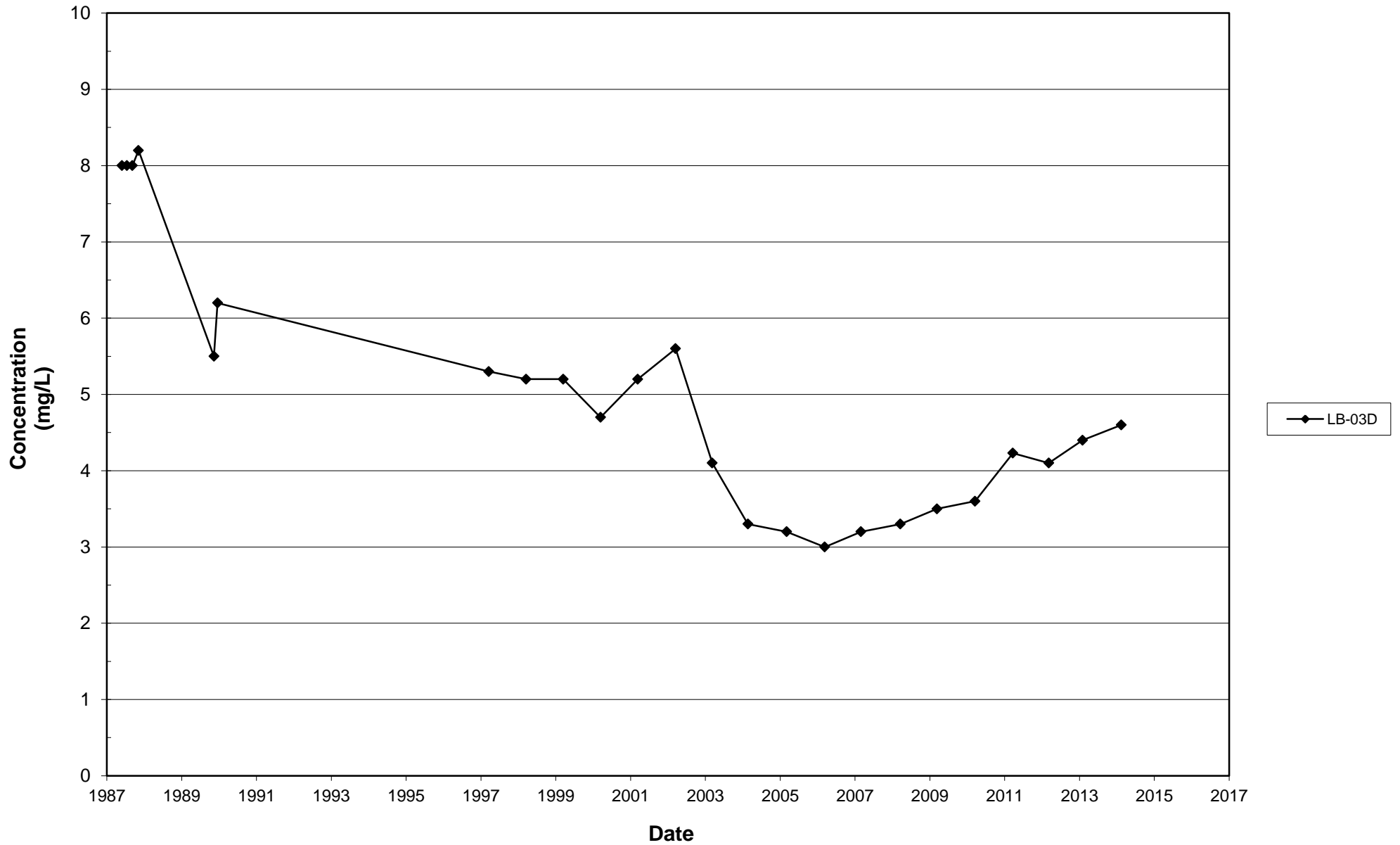
Leichner Landfill
Chloride, LB-01D
1987 - 2014



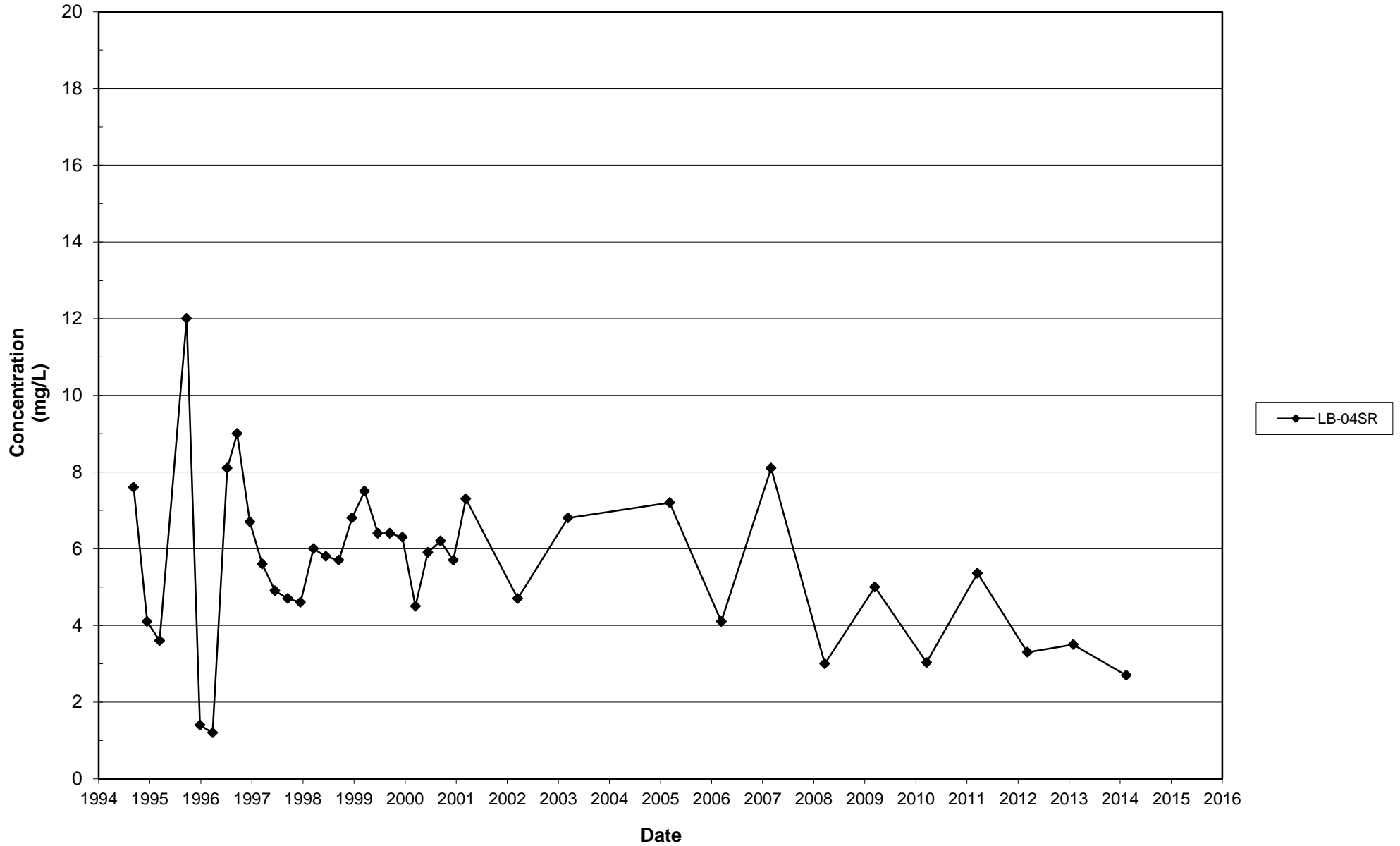
Leichner Landfill
Chloride, LB-03S
1987 - 2014



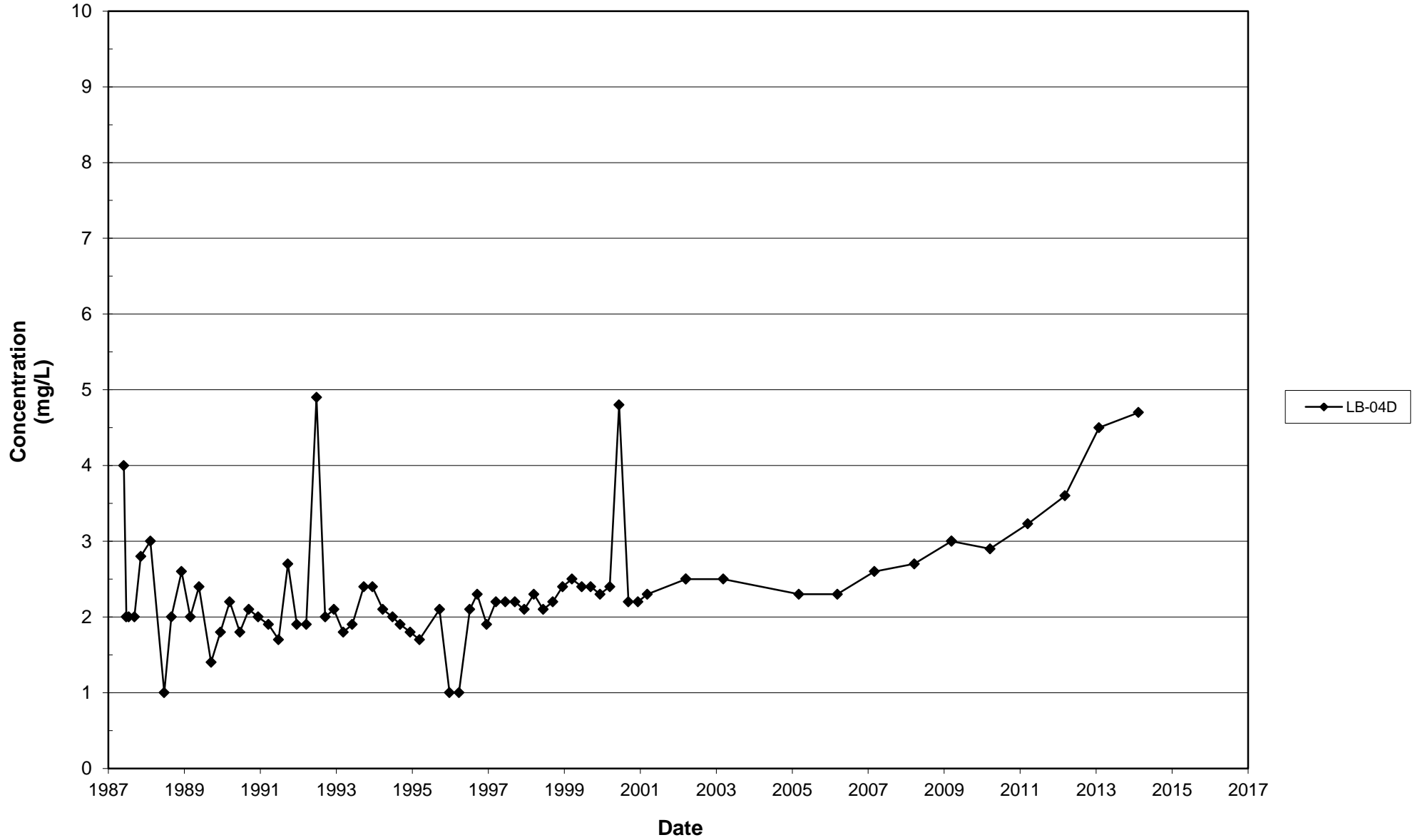
Leichner Landfill
Chloride, LB-03D
1987 - 2014



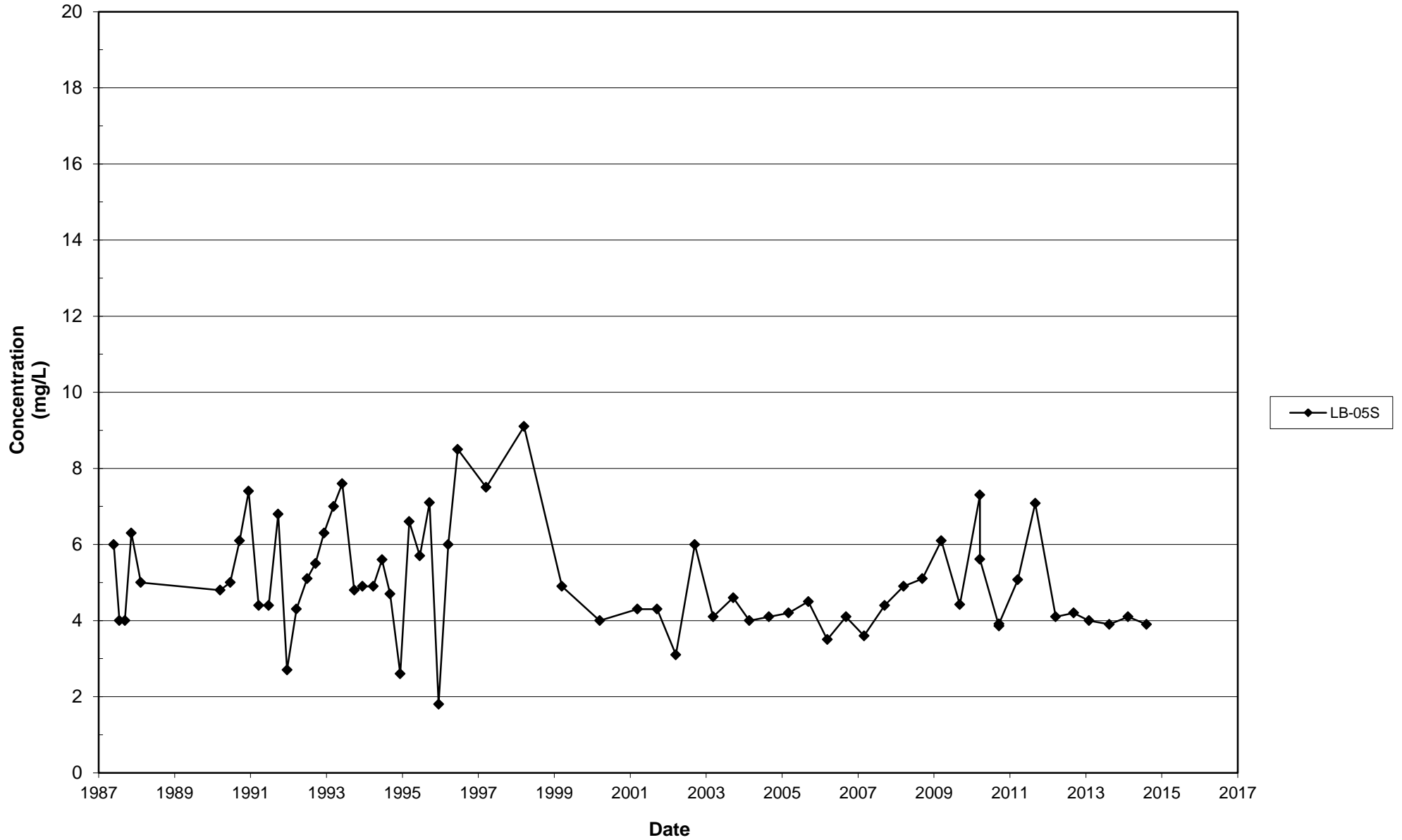
Leichner Landfill
Chloride, LB-04SR
1994 - 2014



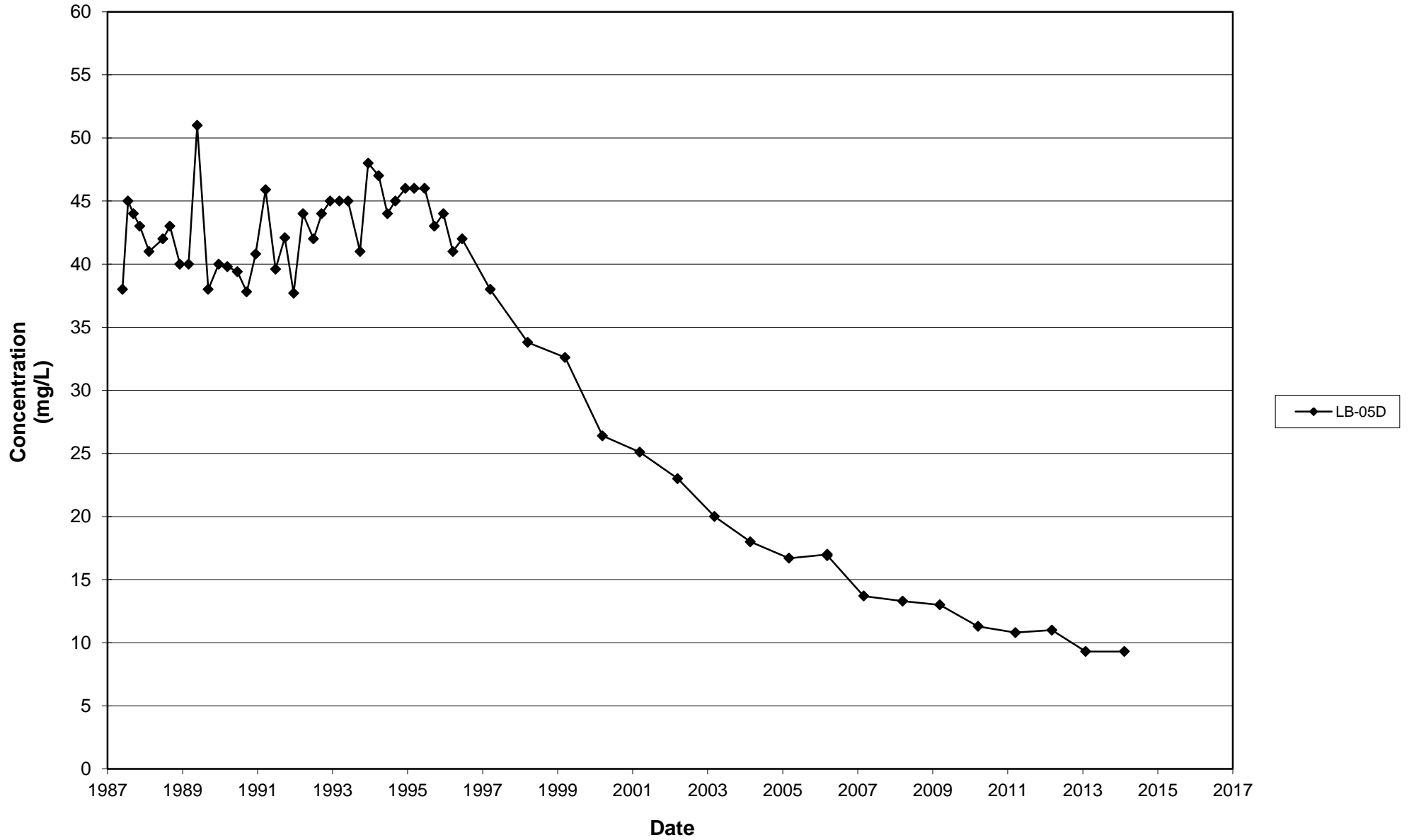
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Chloride, LB-04D
1987 - 2014



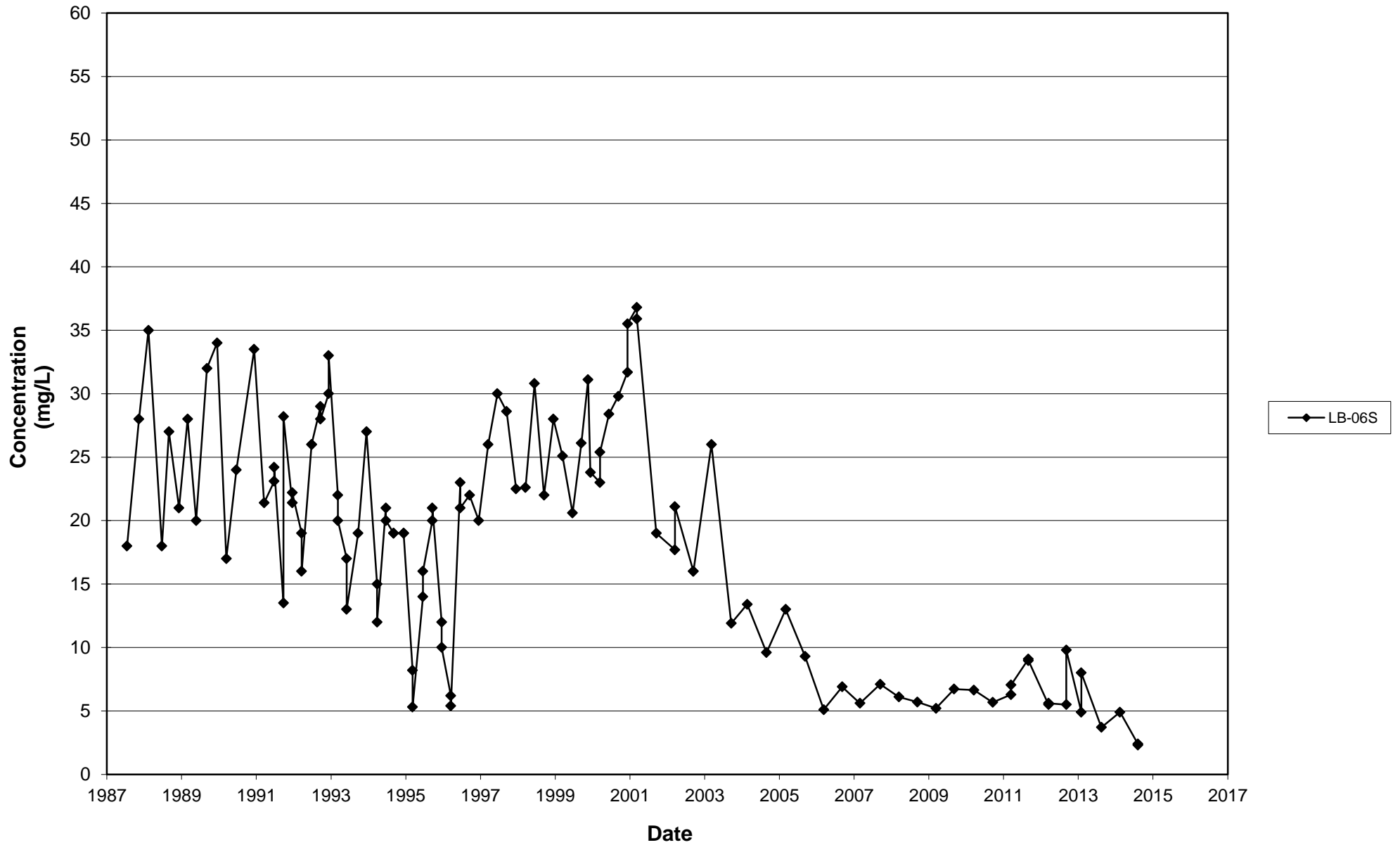
Leichner Landfill
Chloride, LB-05S
1987 - 2014



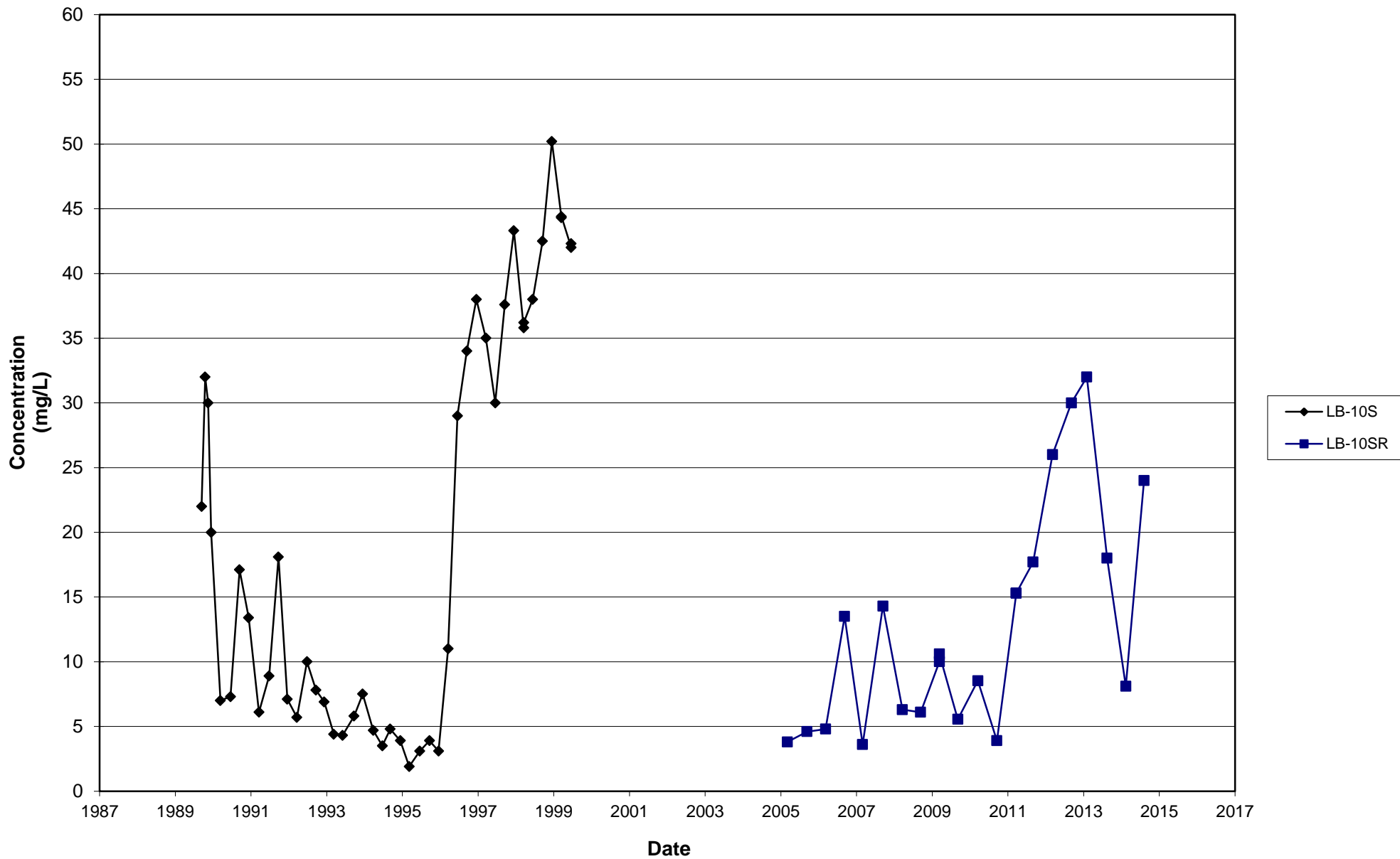
Leichner Landfill
Chloride, LB-05D
1987 - 2014



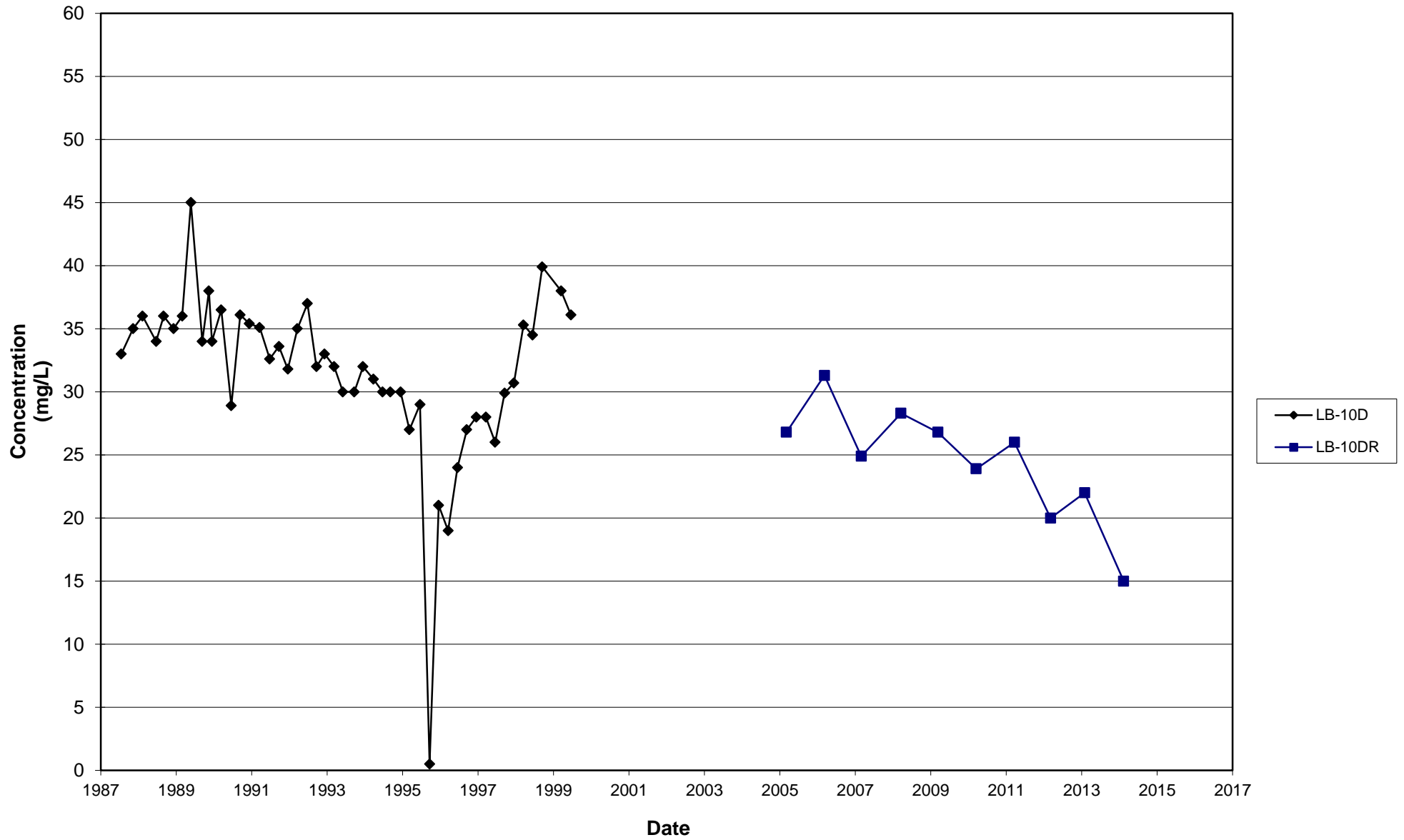
Leichner Landfill
Chloride, LB-06S
1987 - 2014



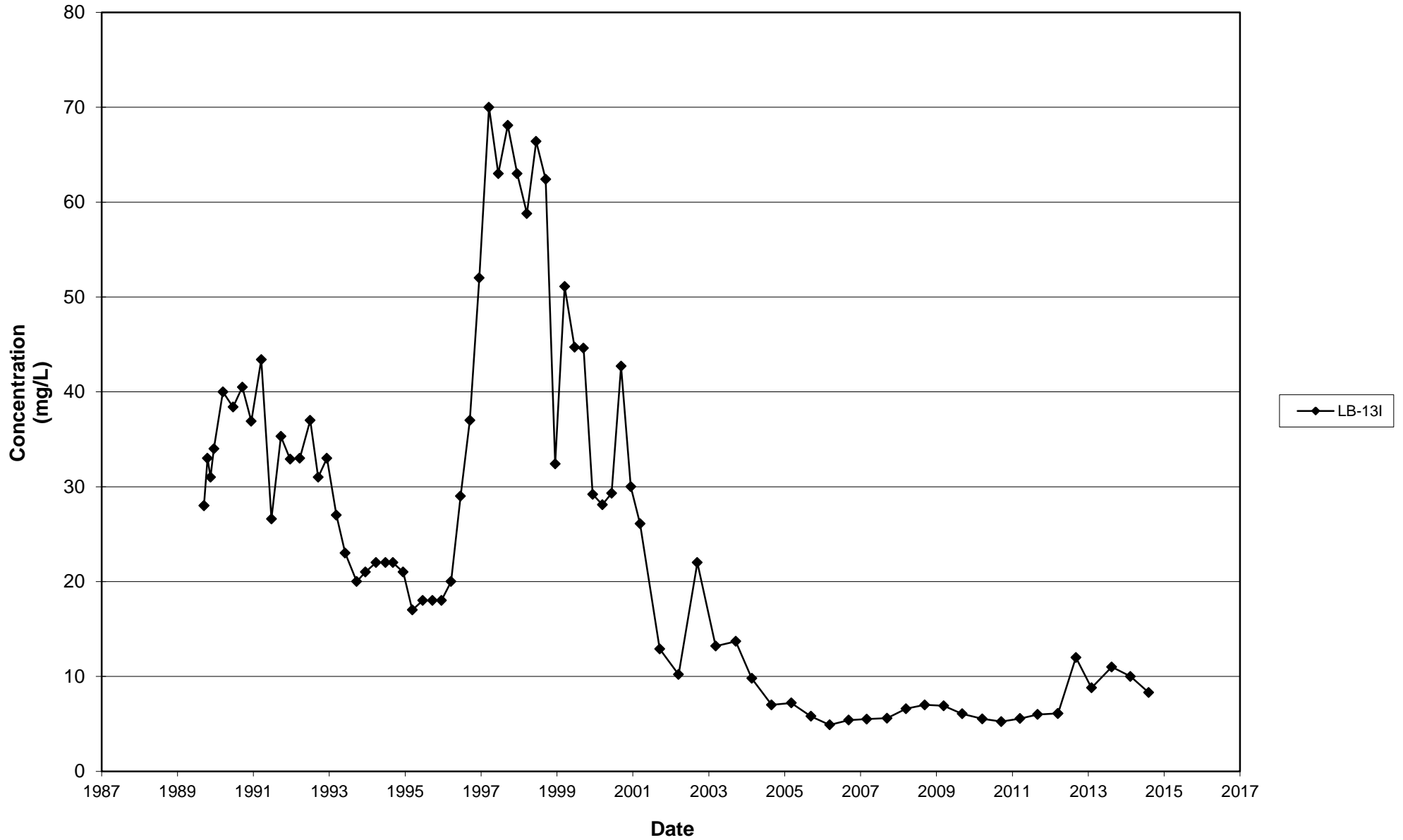
Leichner Landfill
Chloride, LB-10S and LB-10SR
1987 - 2014



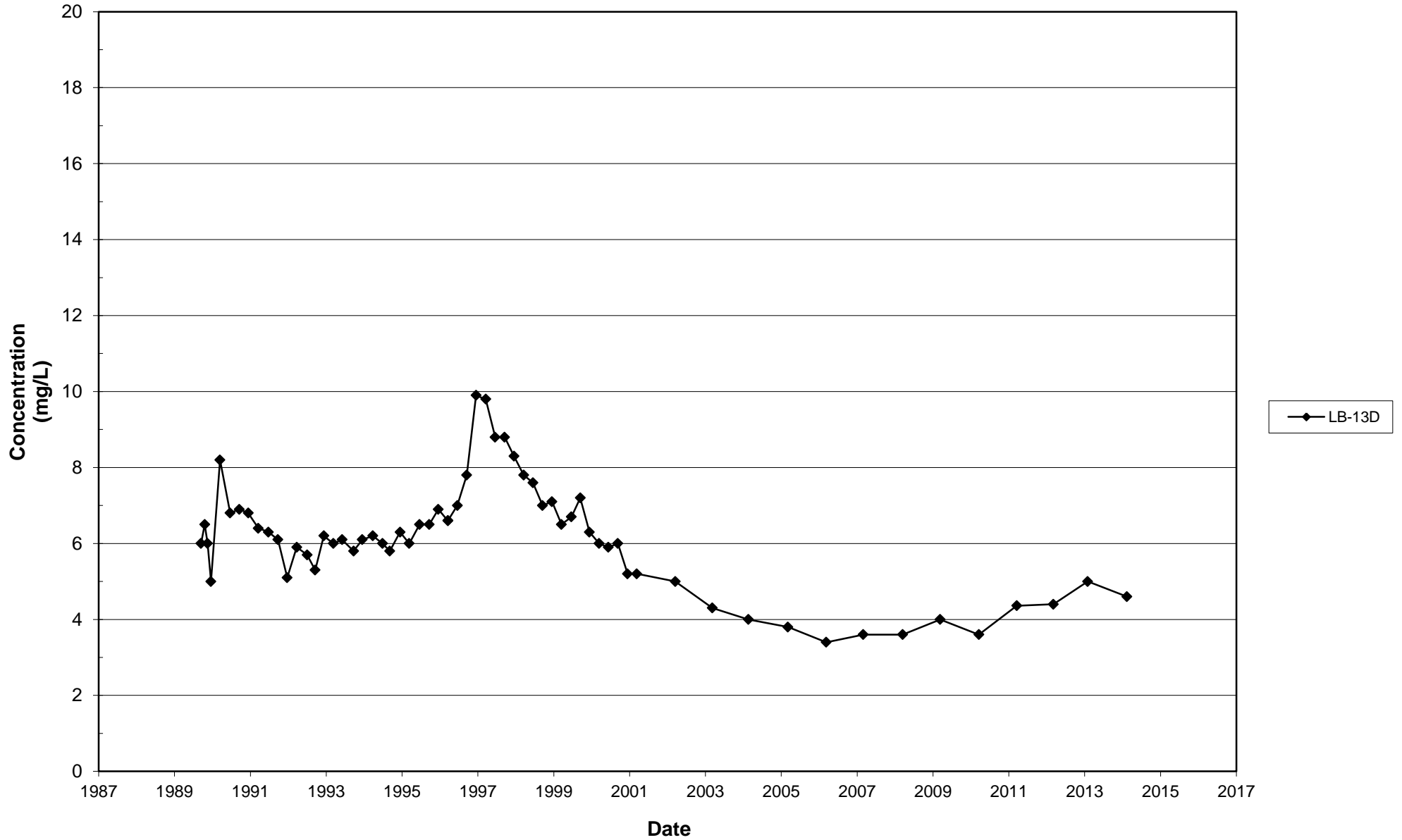
Leichner Landfill
Chloride, LB-10D and LB-10DR
1987 - 2014



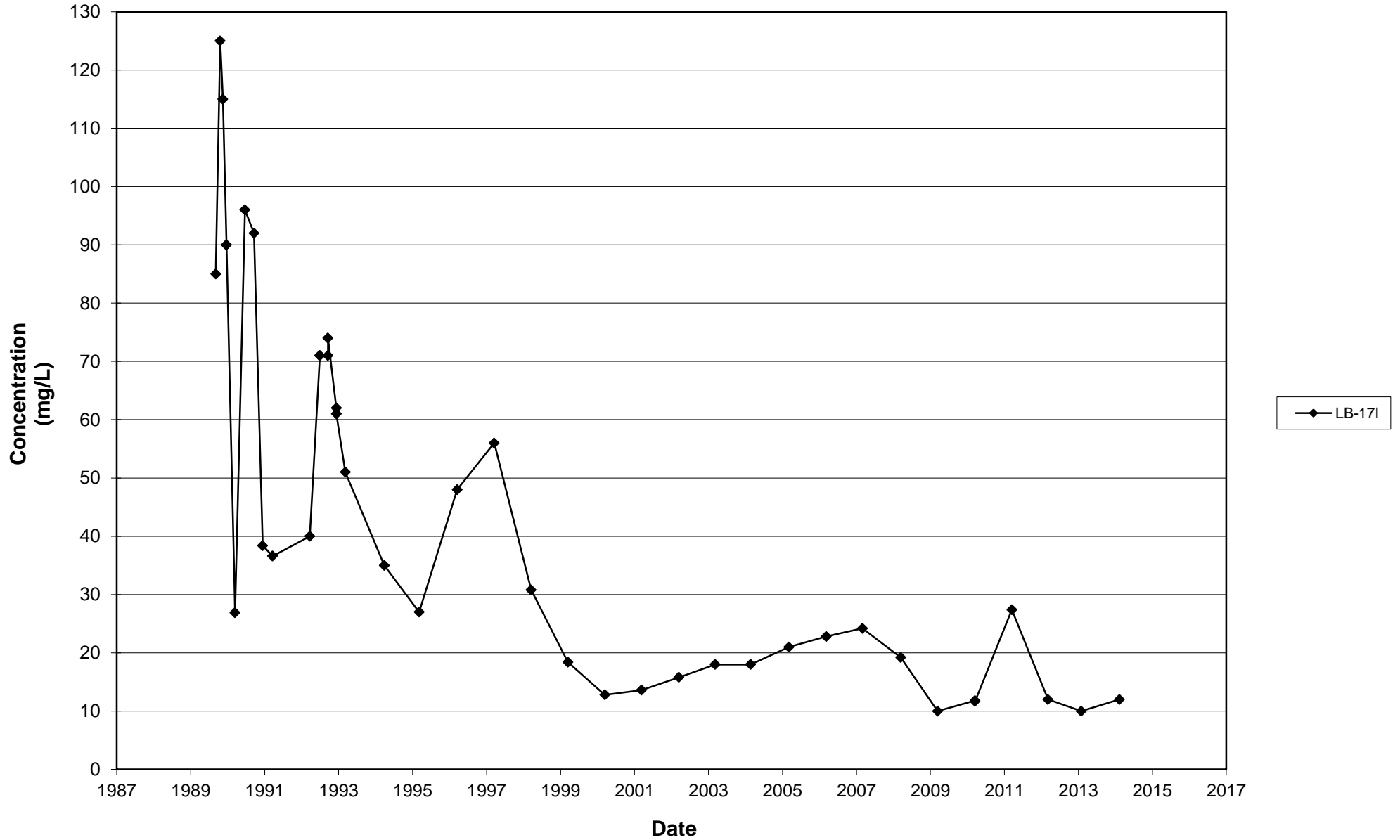
Leichner Landfill
Chloride, LB-13I
1987 - 2014



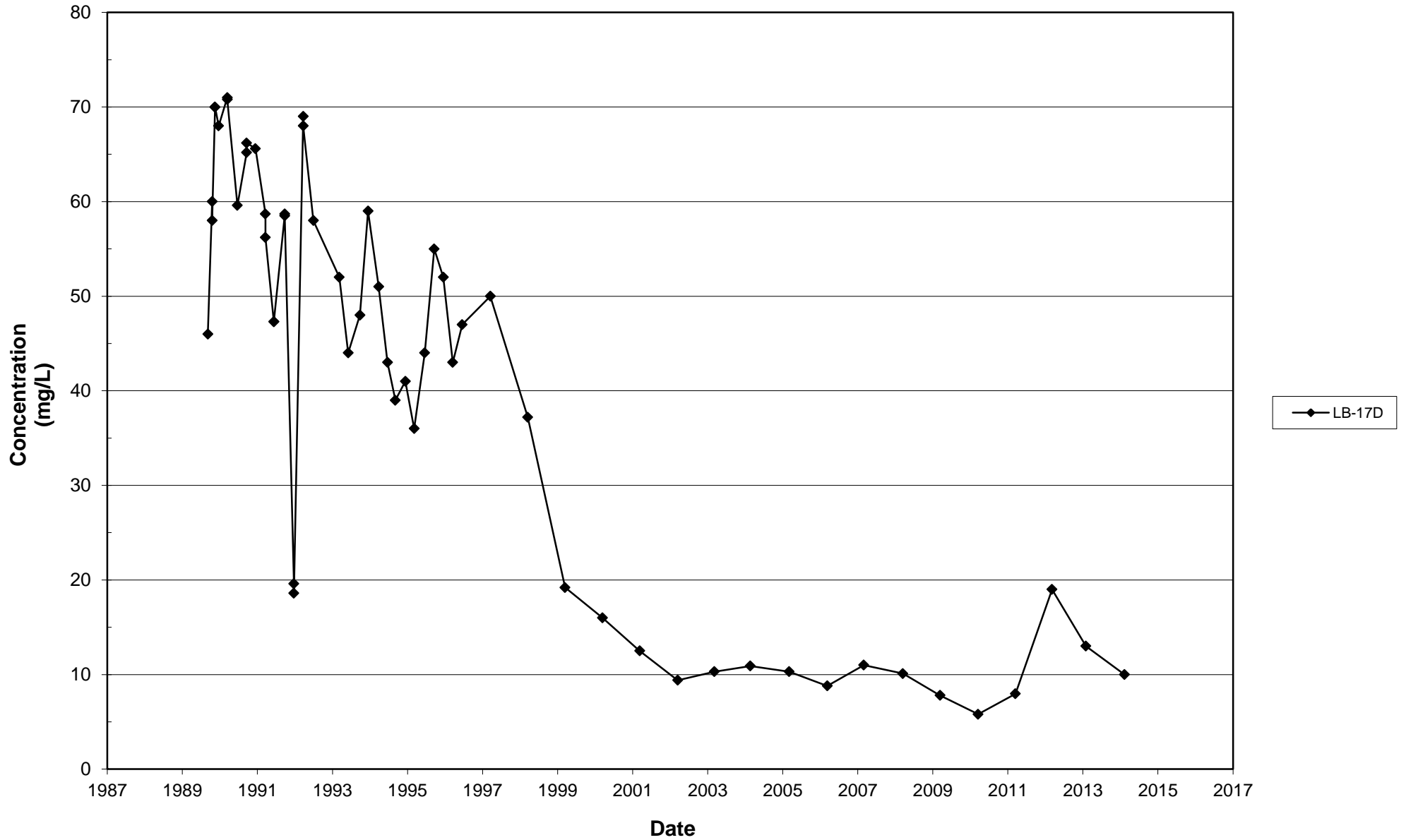
Leichner Landfill
Chloride, LB-13D
1987 - 2014



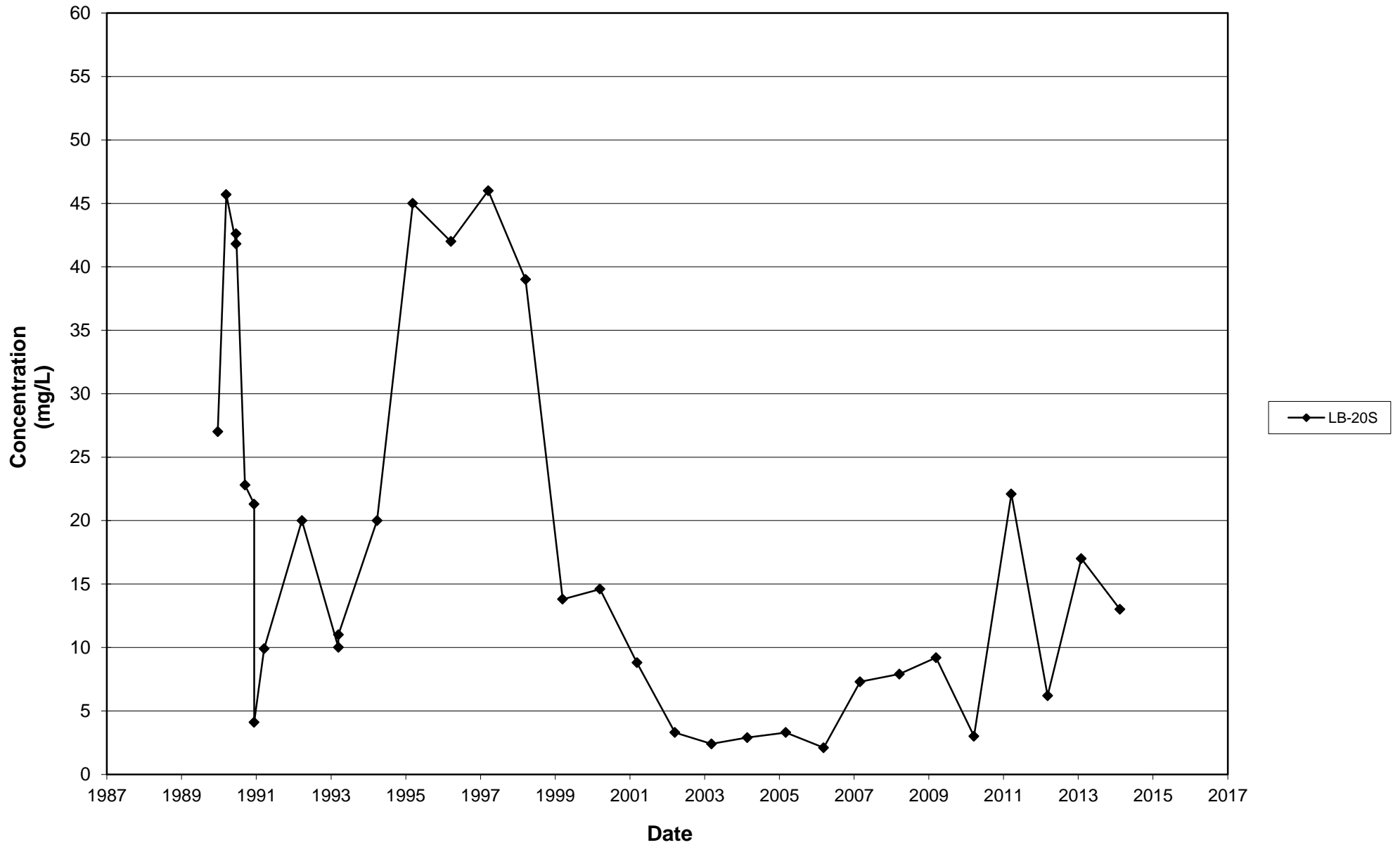
Leichner Landfill
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1987 - 2014



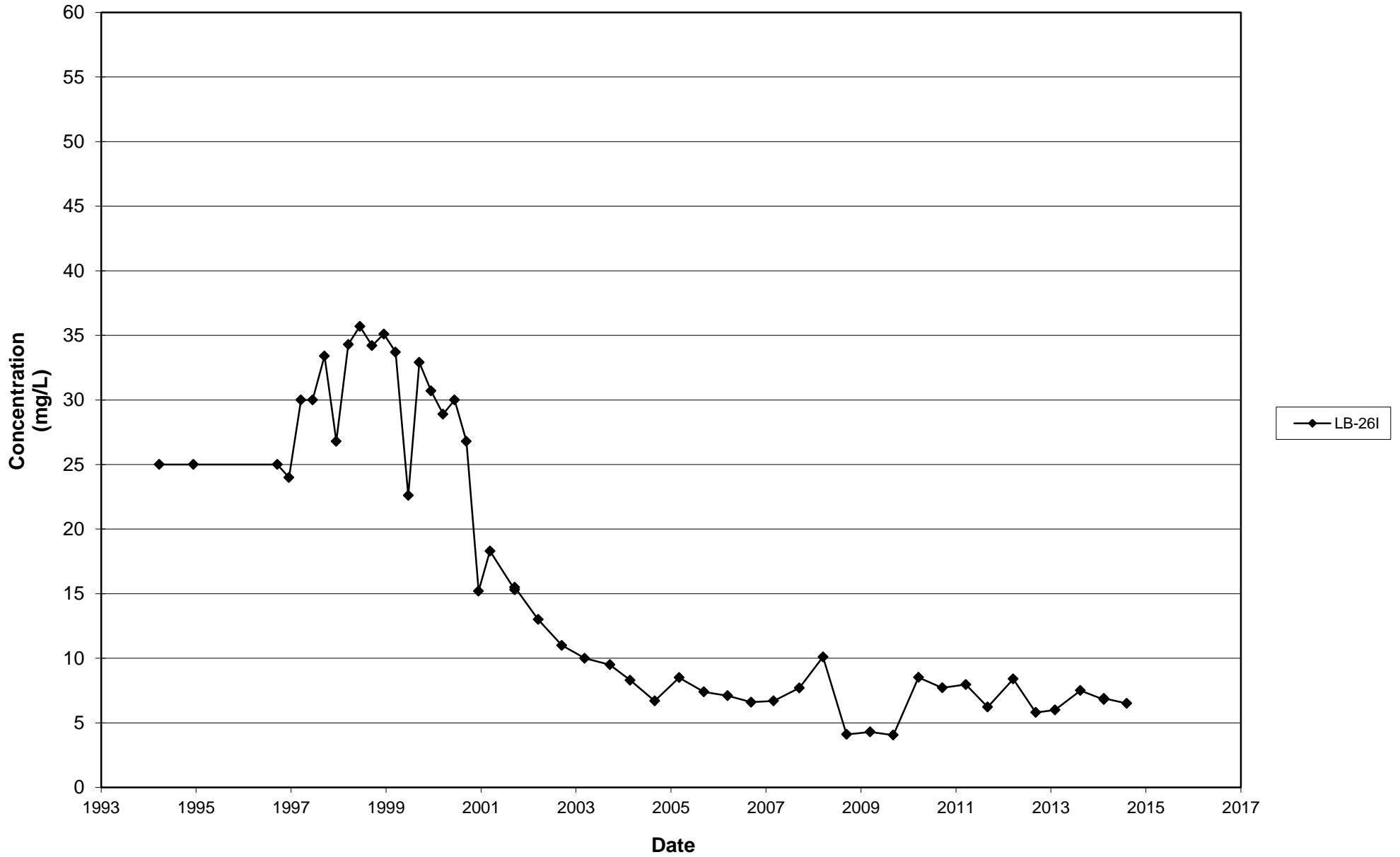
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Chloride, LB-17D
1987 - 2014



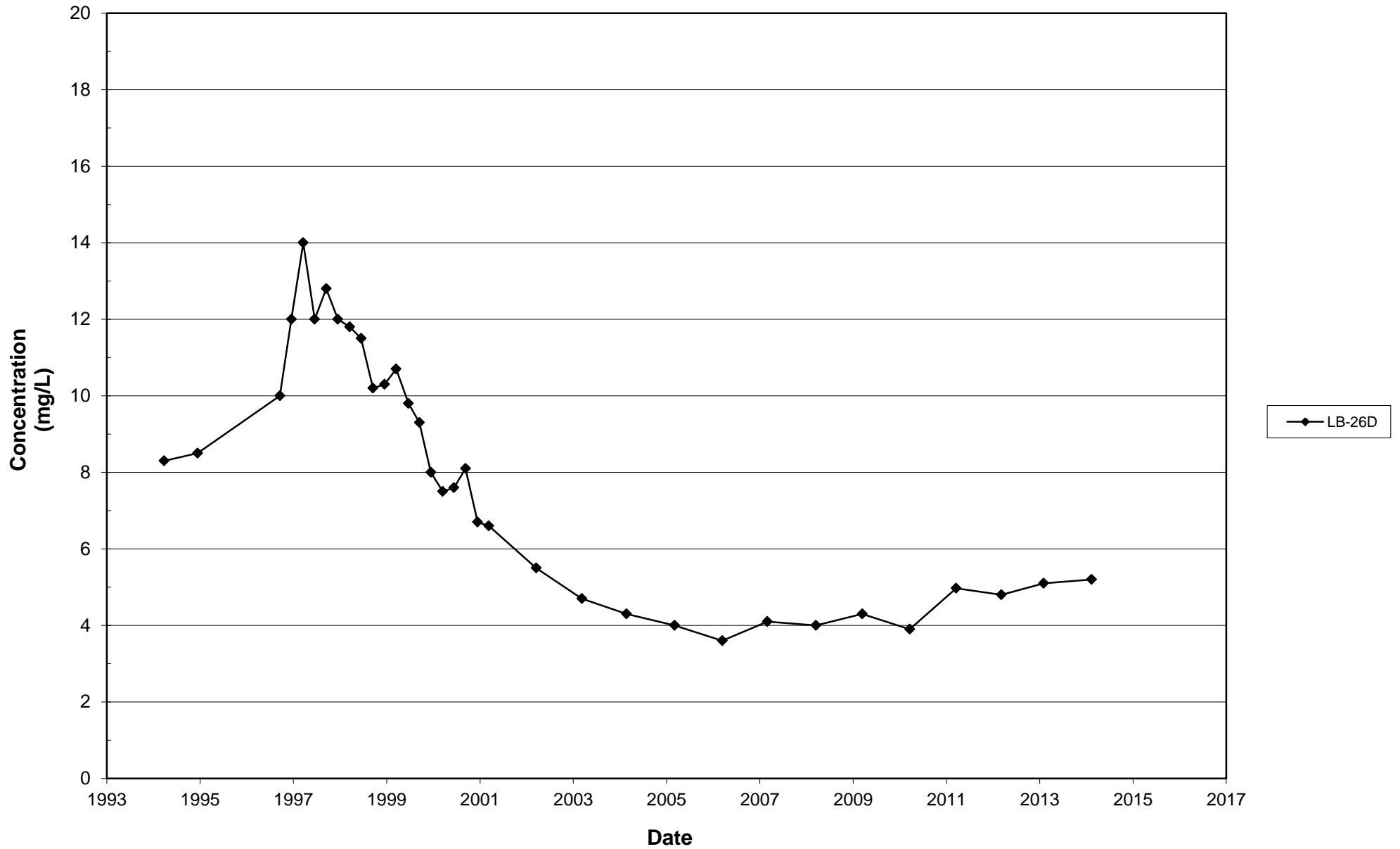
Leichner Landfill
Chloride, LB-20S
1987 - 2014



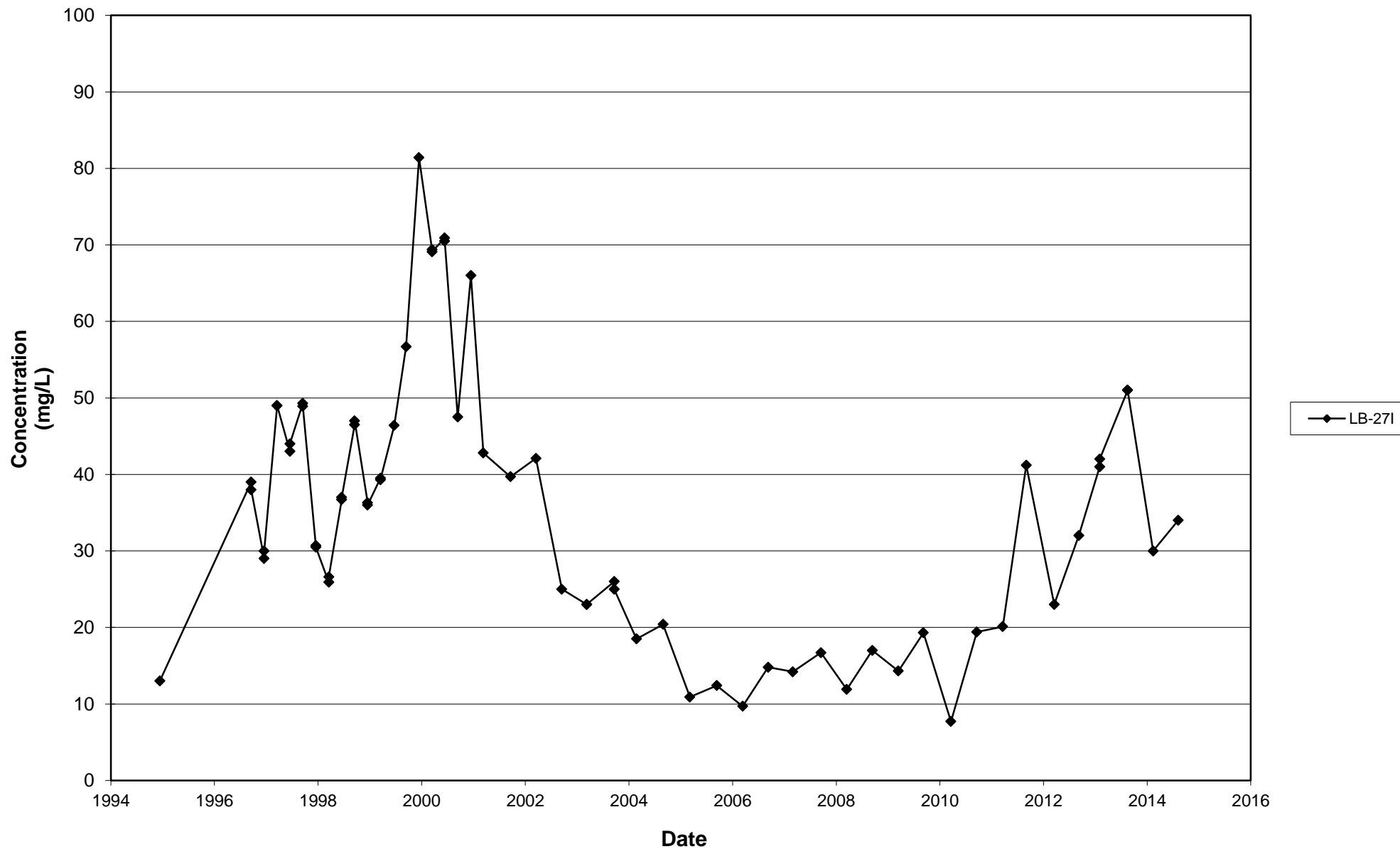
Leichner Landfill
Chloride, LB-26I
1987 - 2014



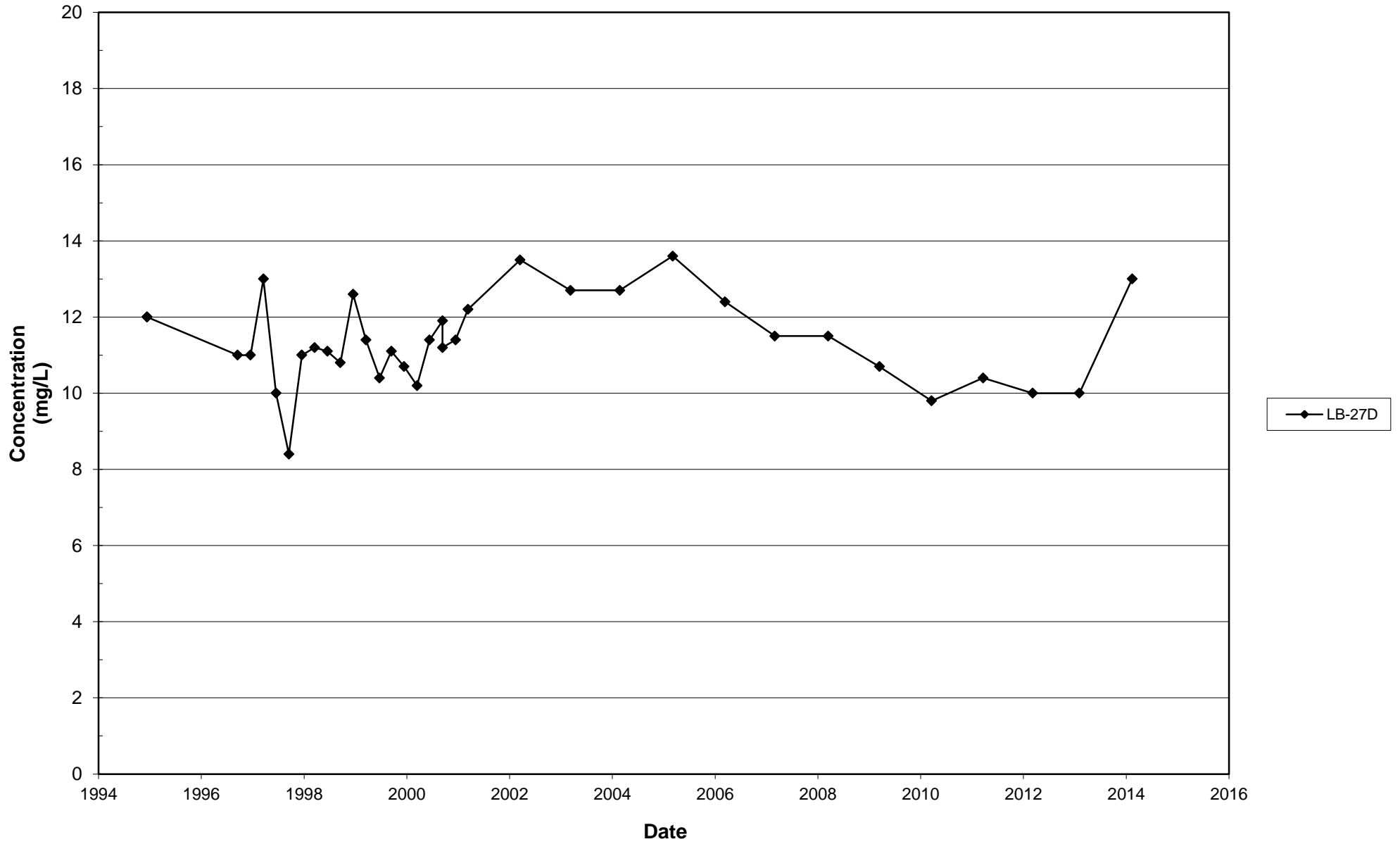
Leichner Landfill
Chloride, LB-26D
1987 - 2014



Leichner Landfill
Chloride, LB-27I
1994 - 2014

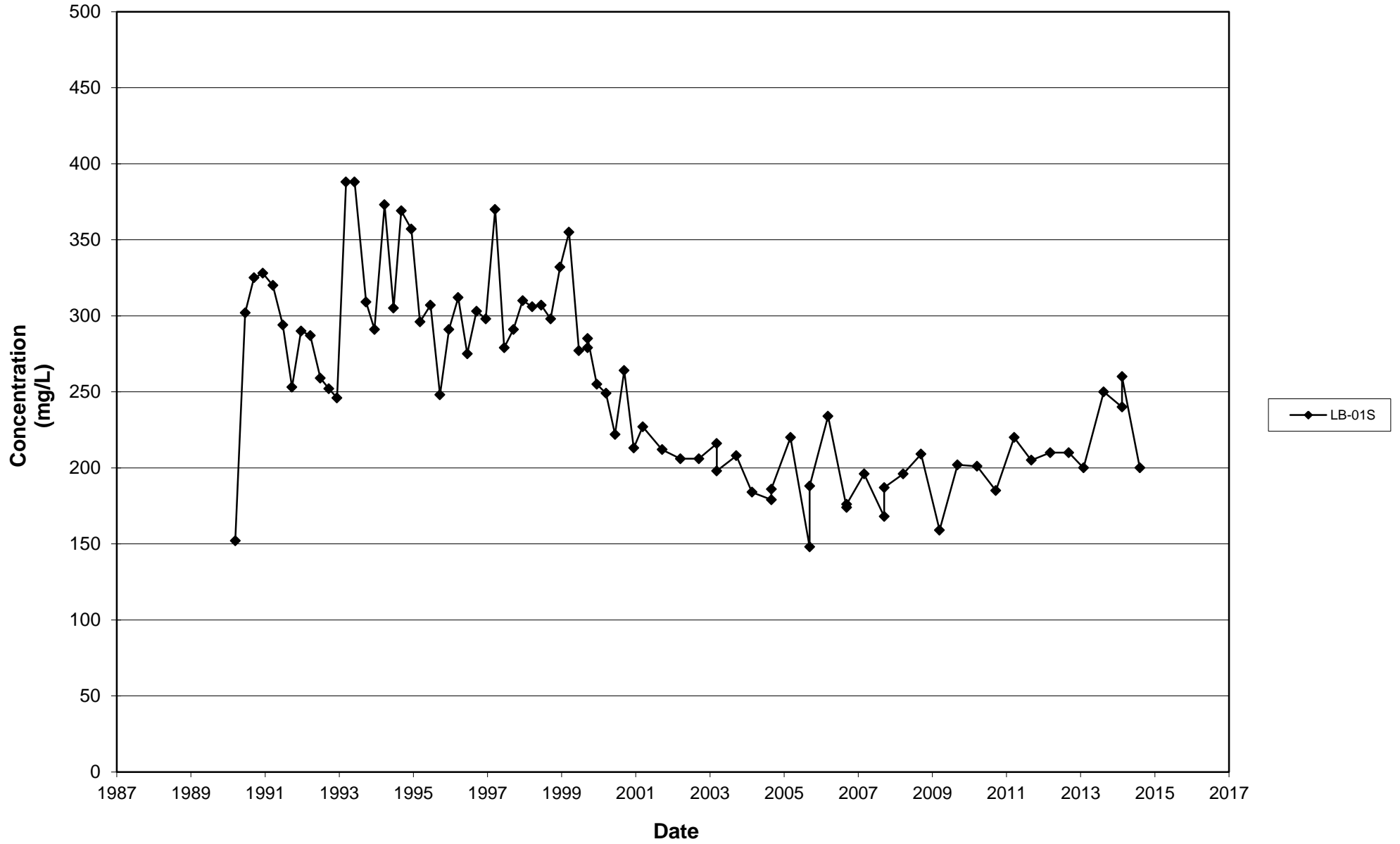


Leichner Landfill
Chloride, LB-27D
1994 - 2014

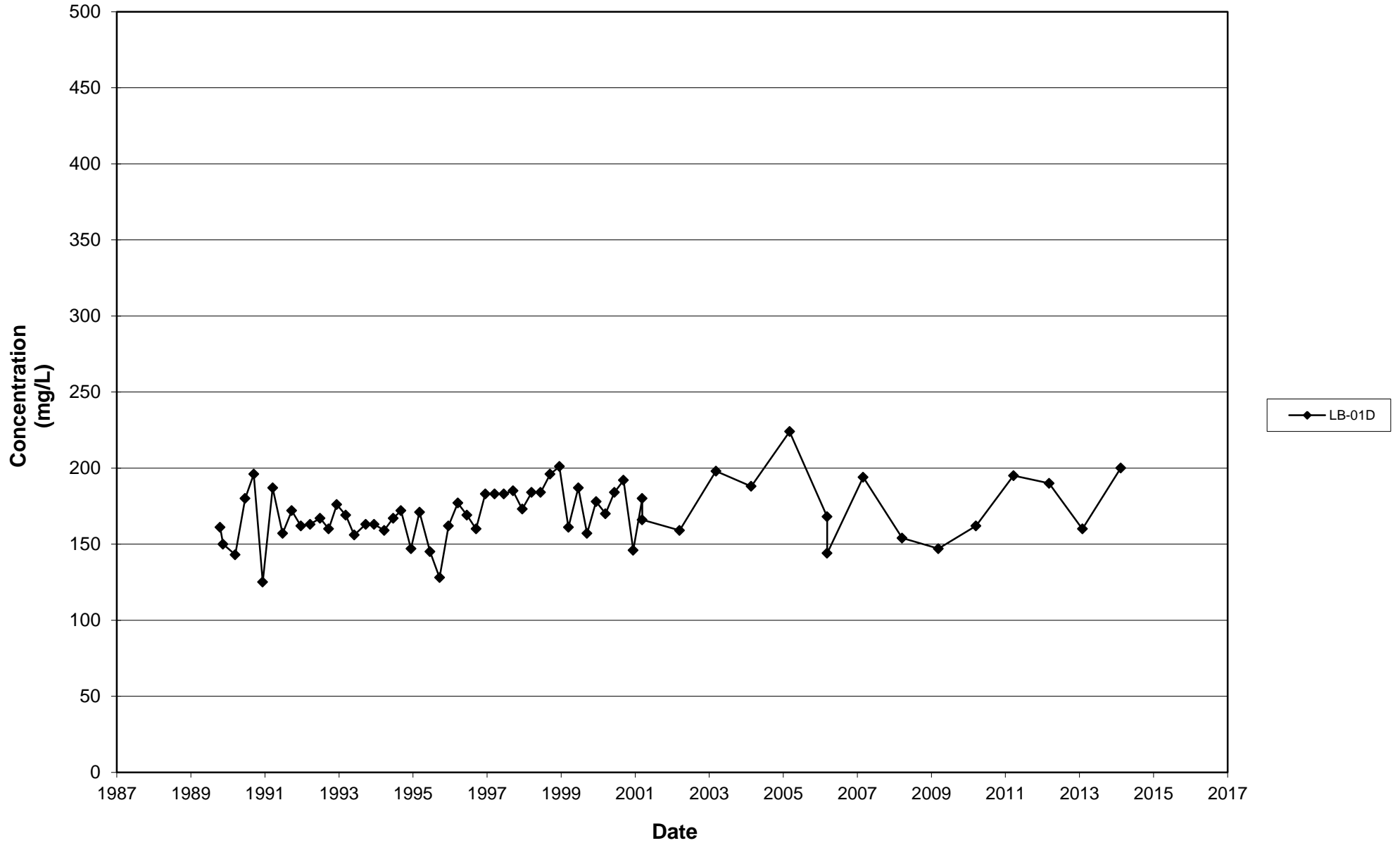


Total Dissolved Solids

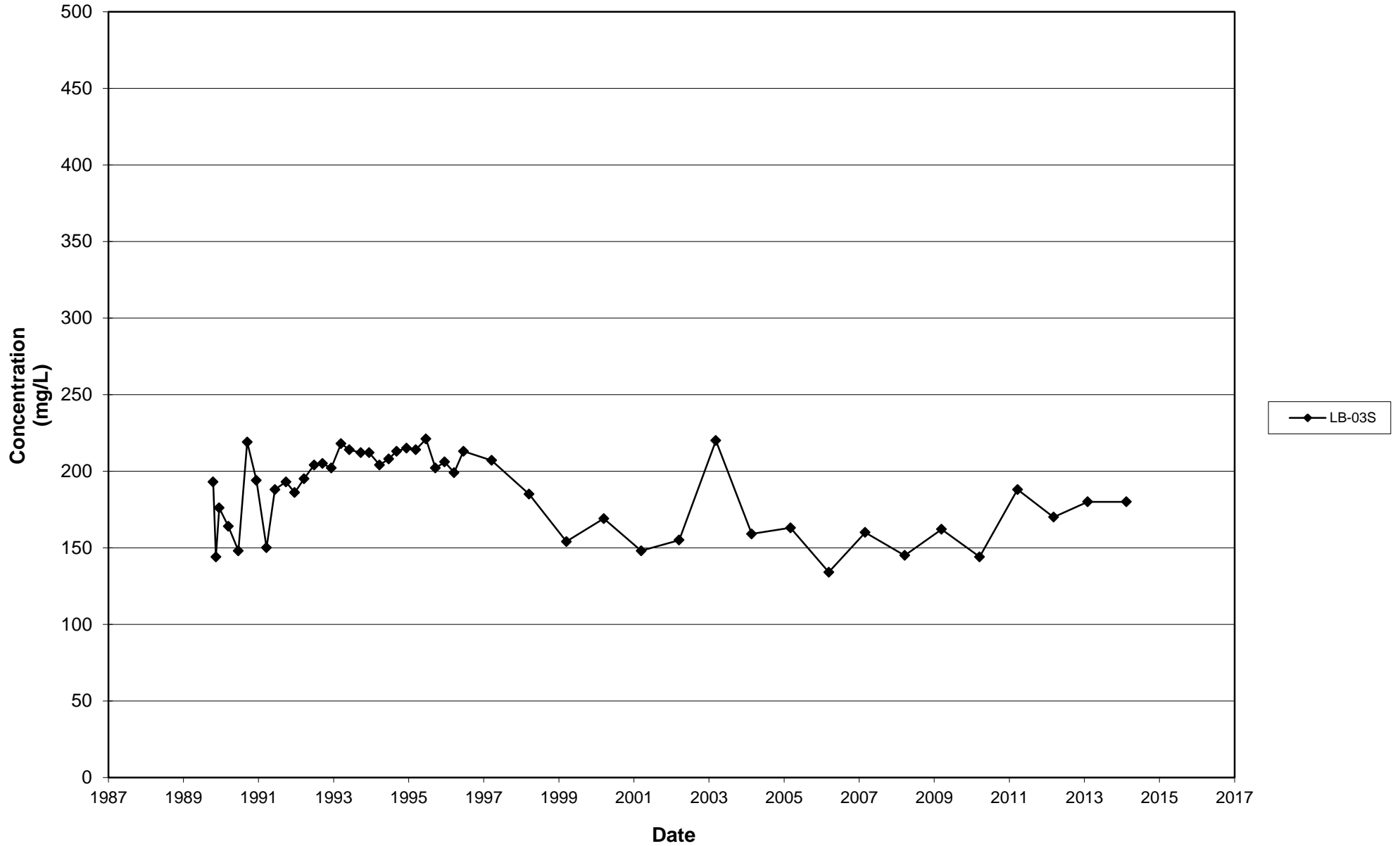
**Leichner Landfill
Total Dissolved Solids, LB-01S
1987 - 2014**



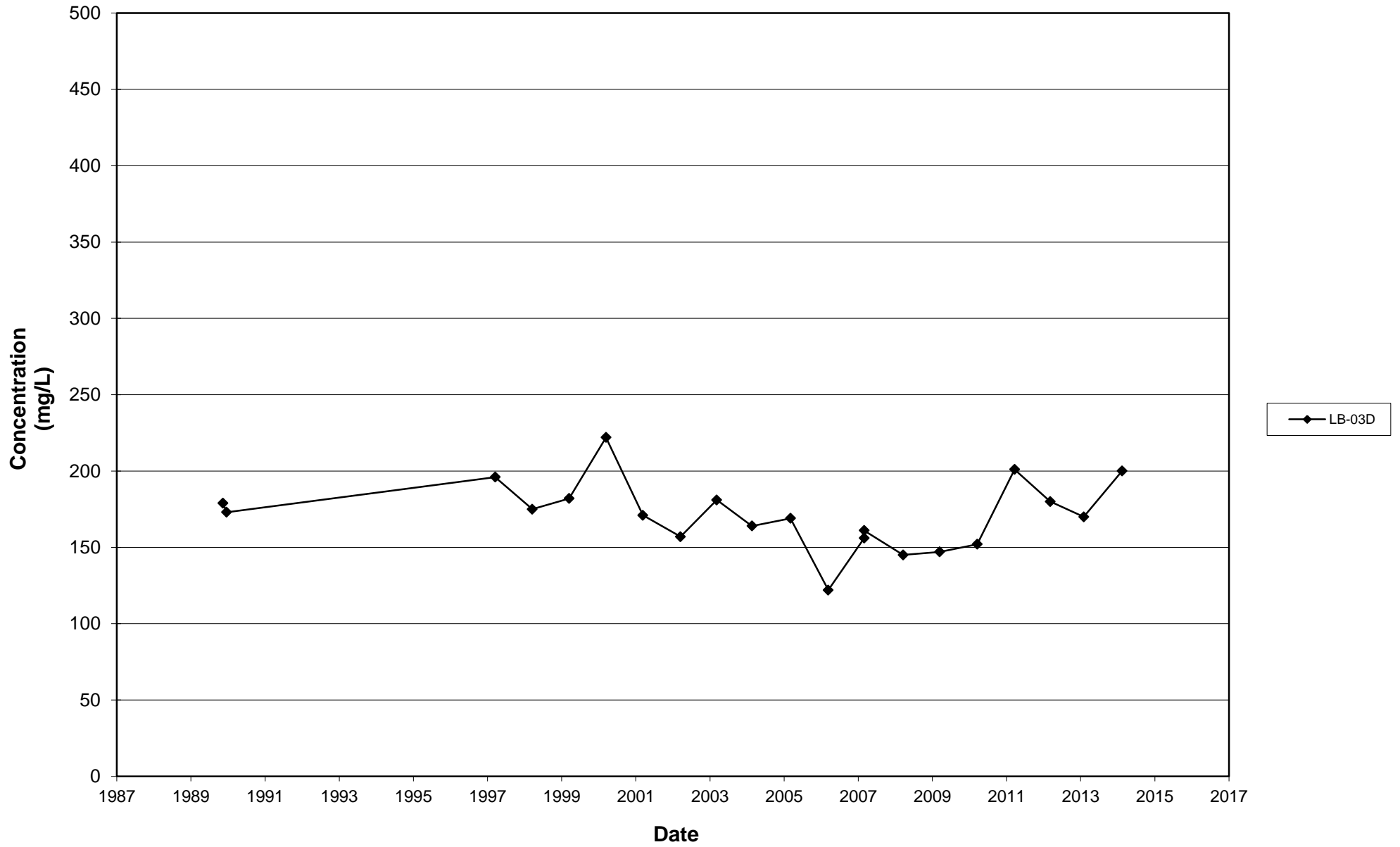
Leichner Landfill
Total Dissolved Solids, LB-01D
1987 - 2014



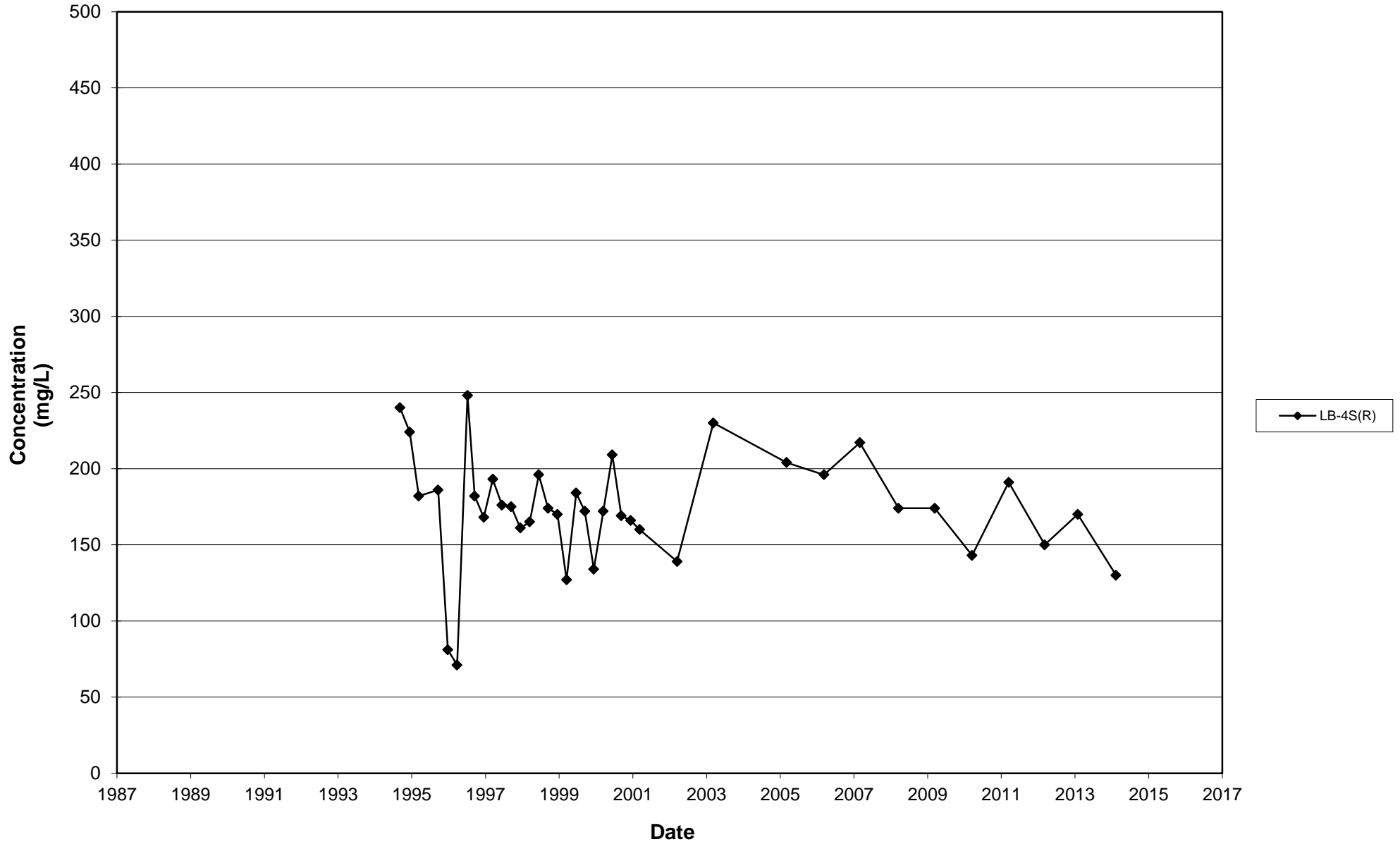
Leichner Landfill
Total Dissolved Solids, LB-03S
1987 - 2014



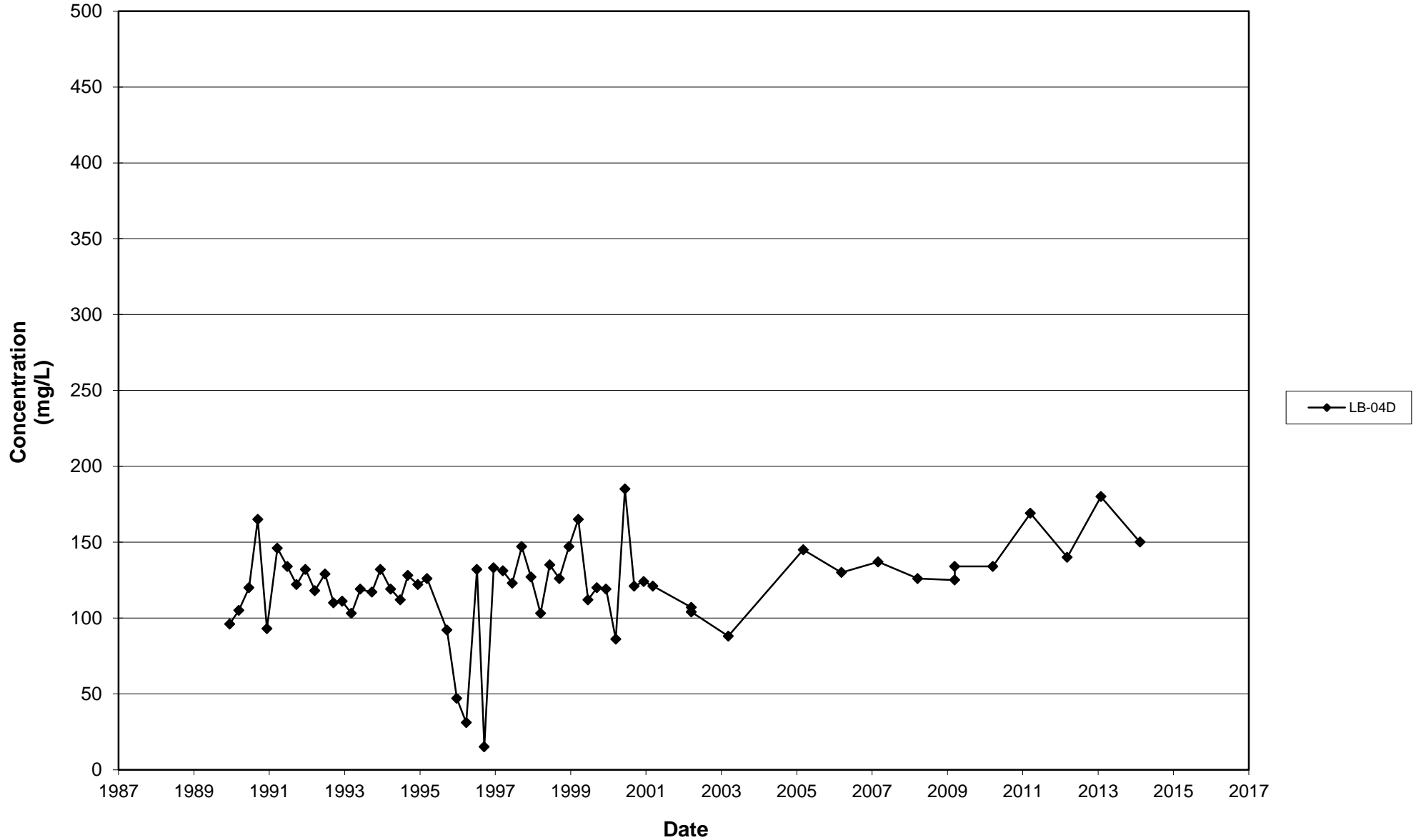
Leichner Landfill
Total Dissolved Solids, LB-03D
1987 - 2014



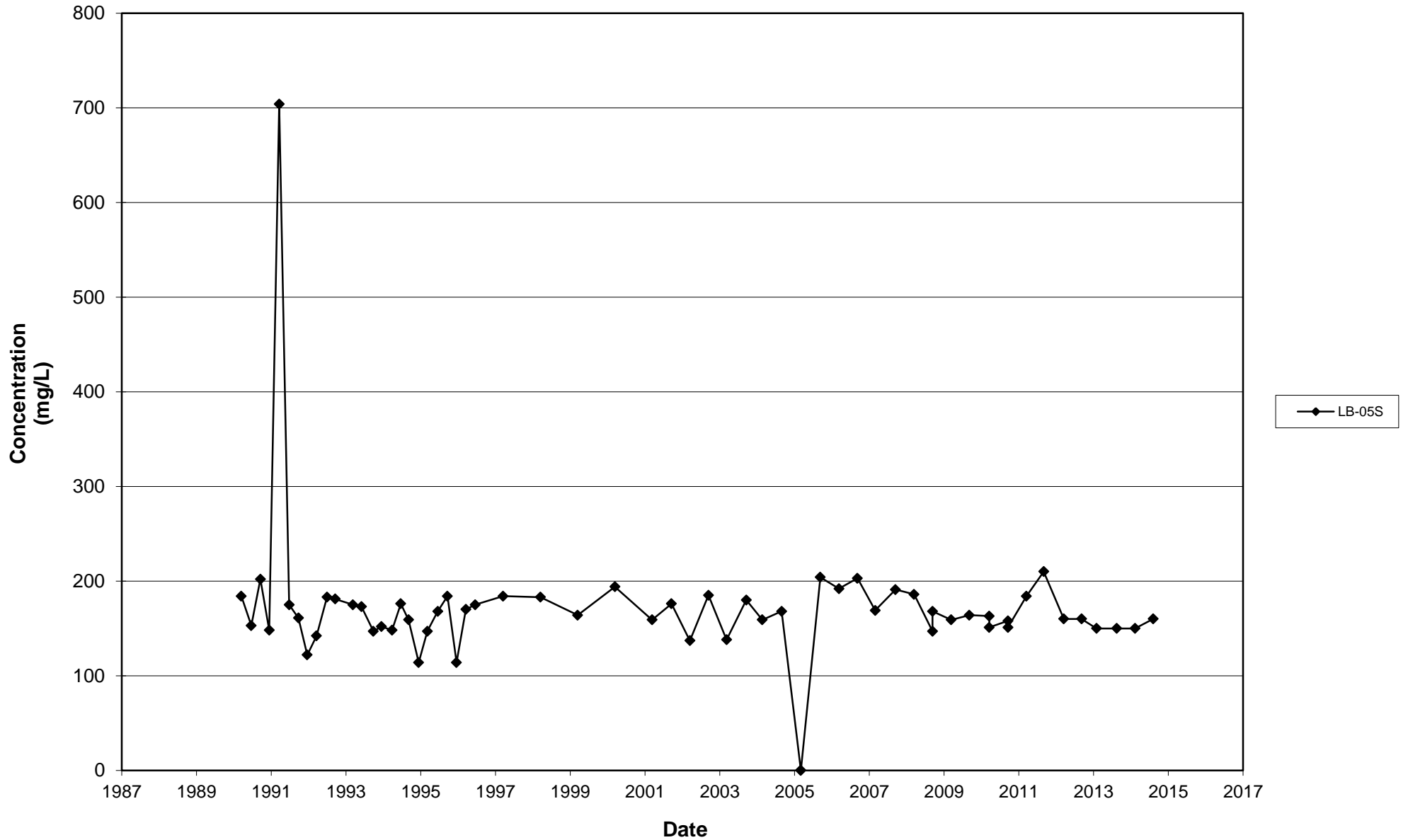
Leichner Landfill
Total Dissolved Solids, LB-04SR
1987 - 2014



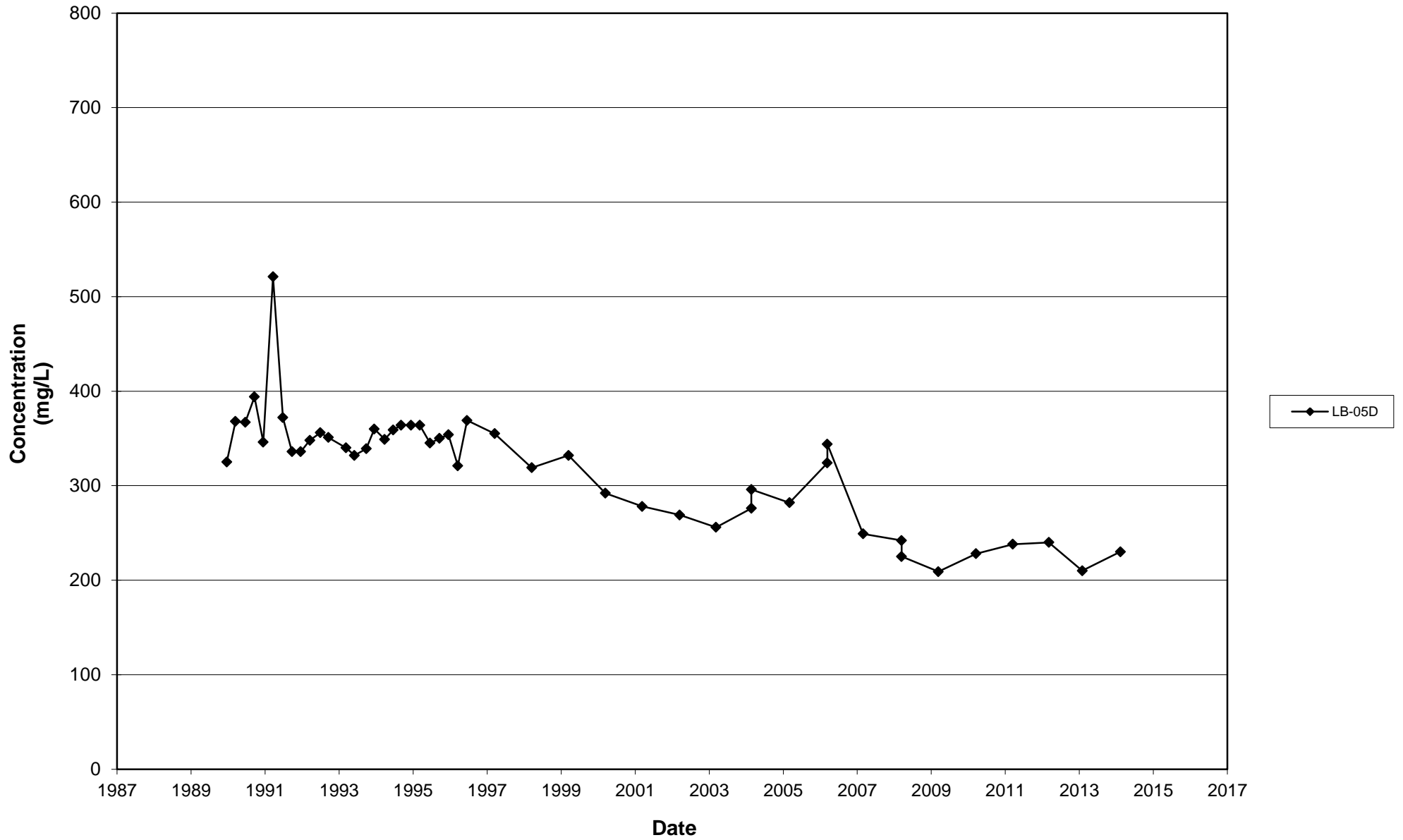
Leichner Landfill
Total Dissolved Solids, LB-04D
1987 - 2014



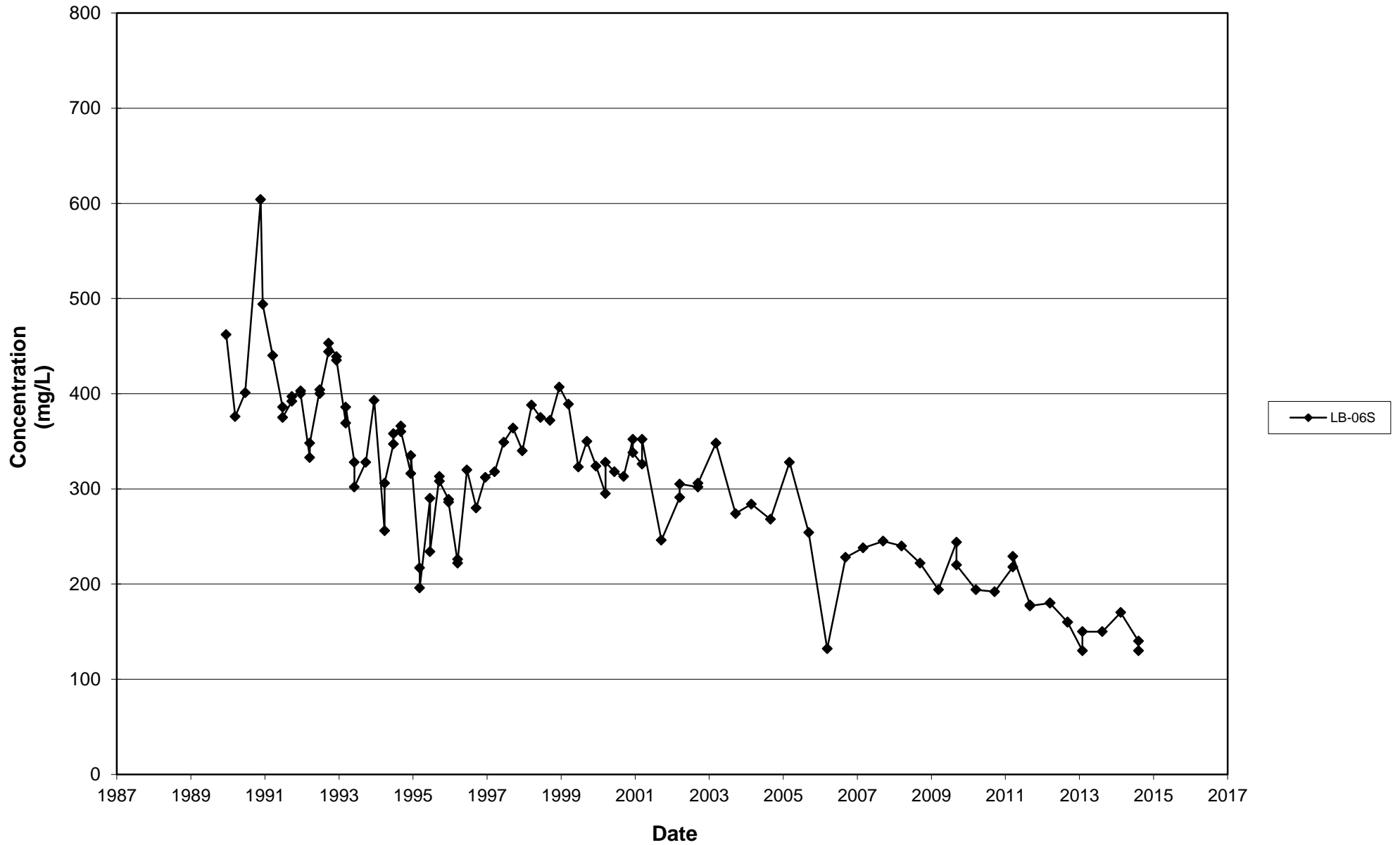
Leichner Landfill
Total Dissolved Solids, LB-05S
1987 - 2014



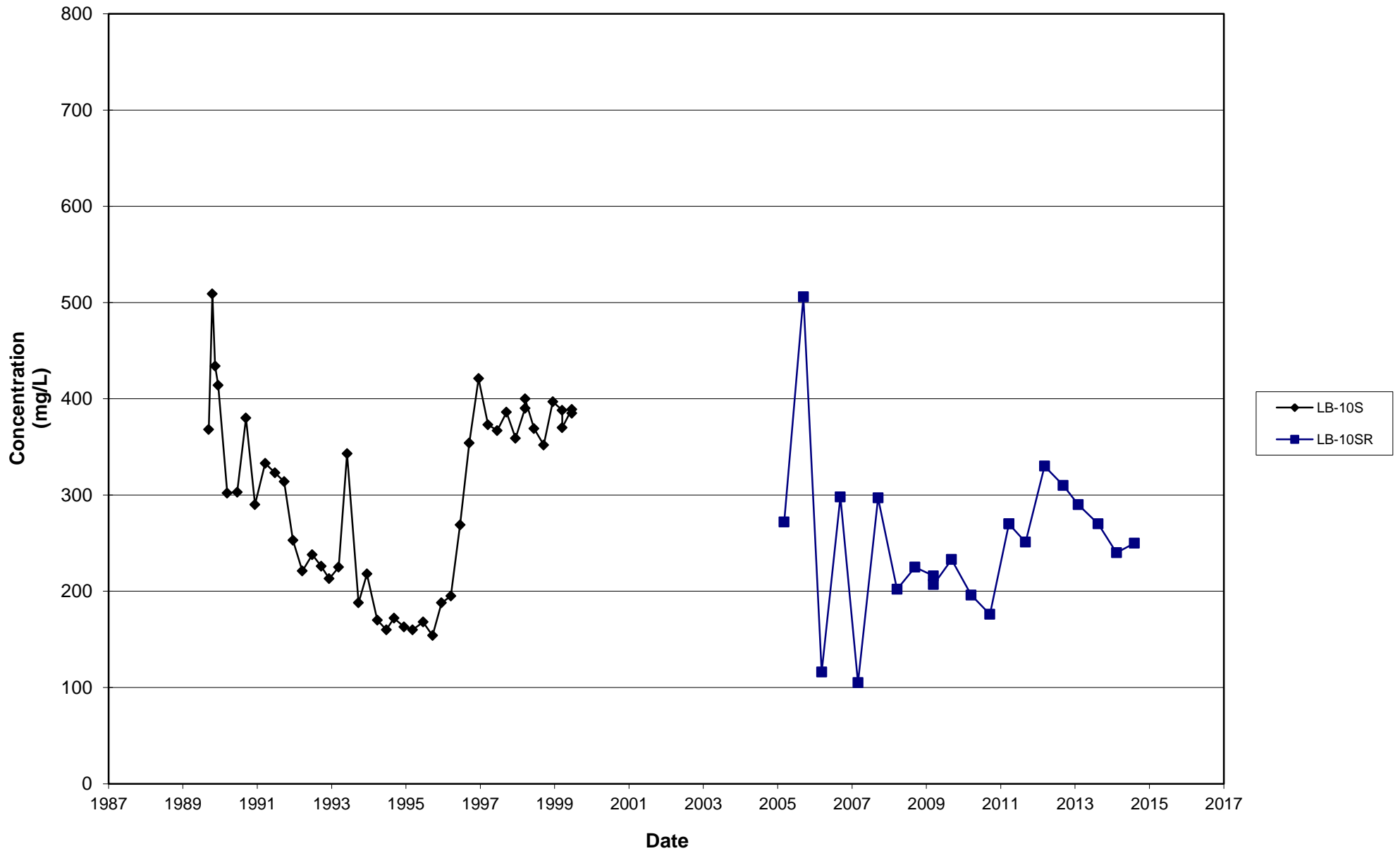
Leichner Landfill
Total Dissolved Solids, LB-05D
1987 - 2014



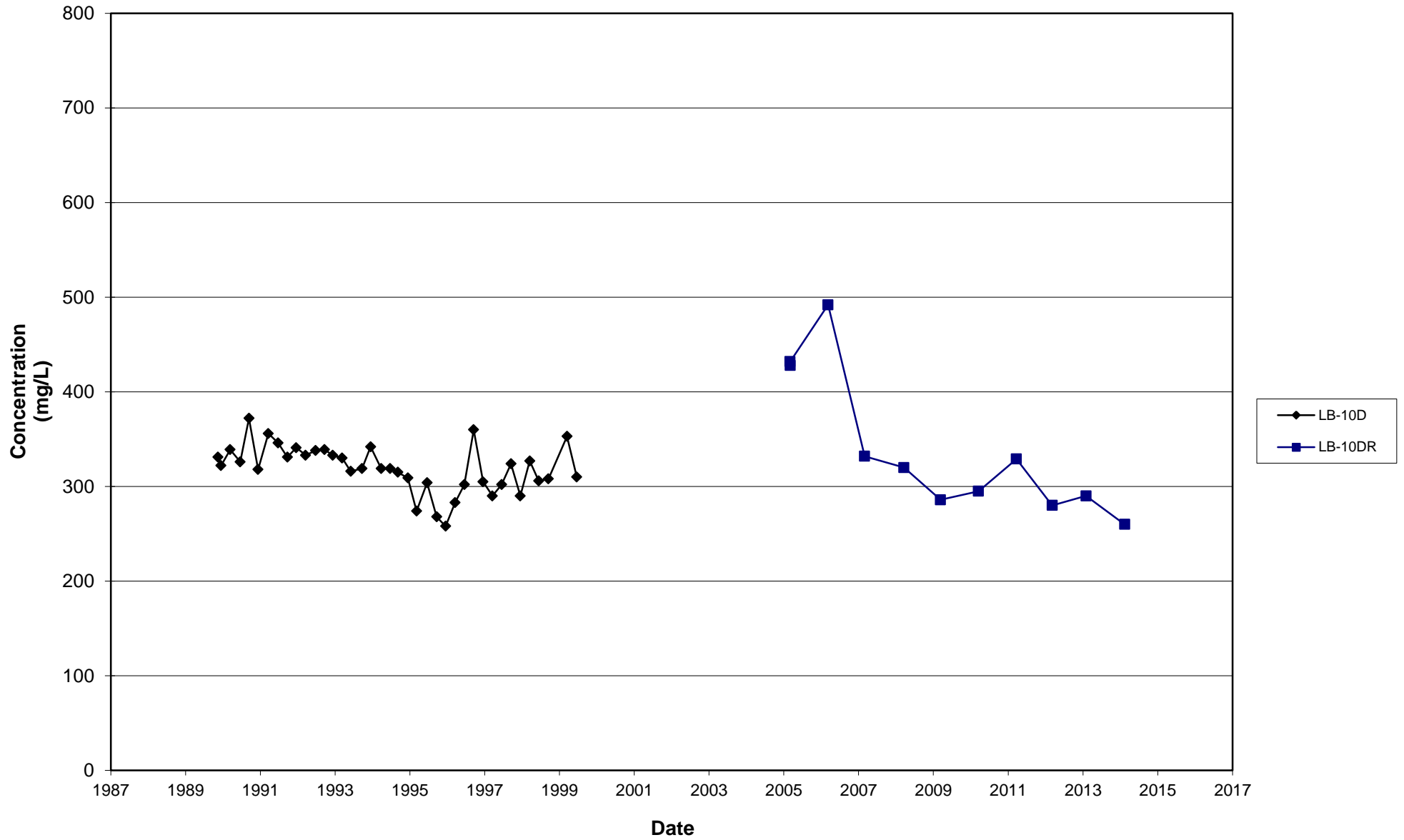
Leichner Landfill
Total Dissolved Solids, LB-06S
1987 - 2014



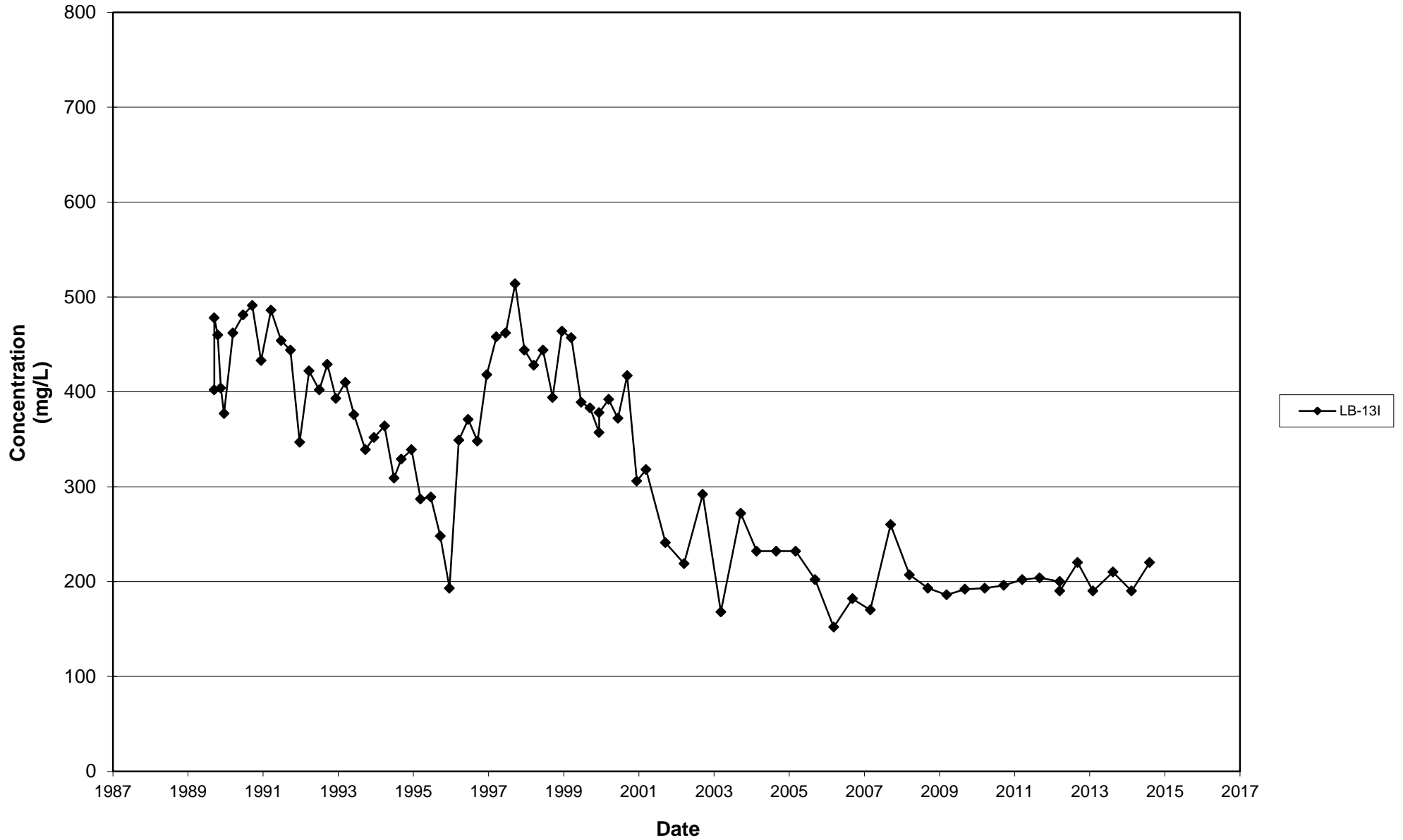
Leichner Landfill
Total Dissolved Solids, LB-10S and LB-10SR
1987 - 2014



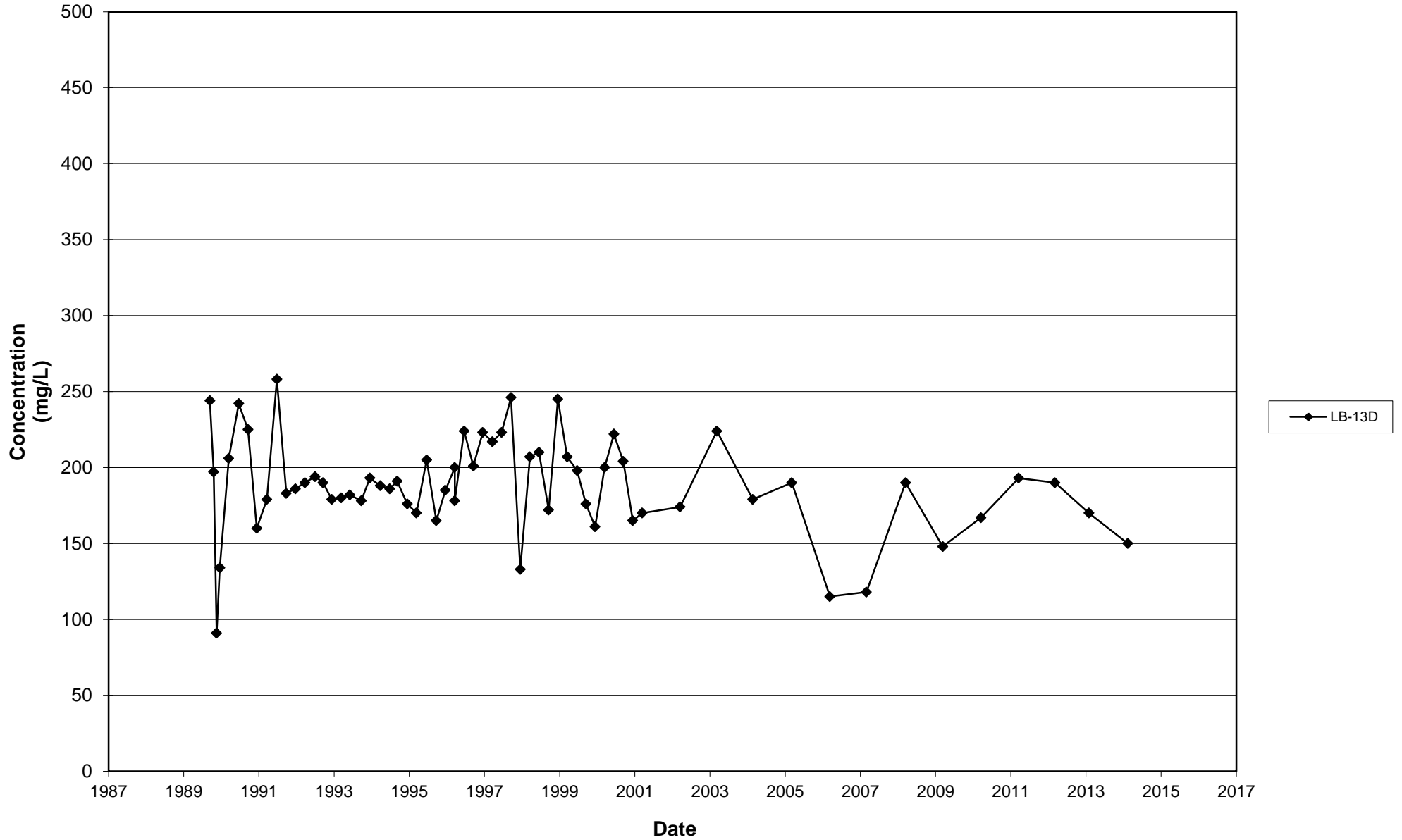
Leichner Landfill
Total Dissolved Solids, LB-10D and LB-10DR
1987 - 2014



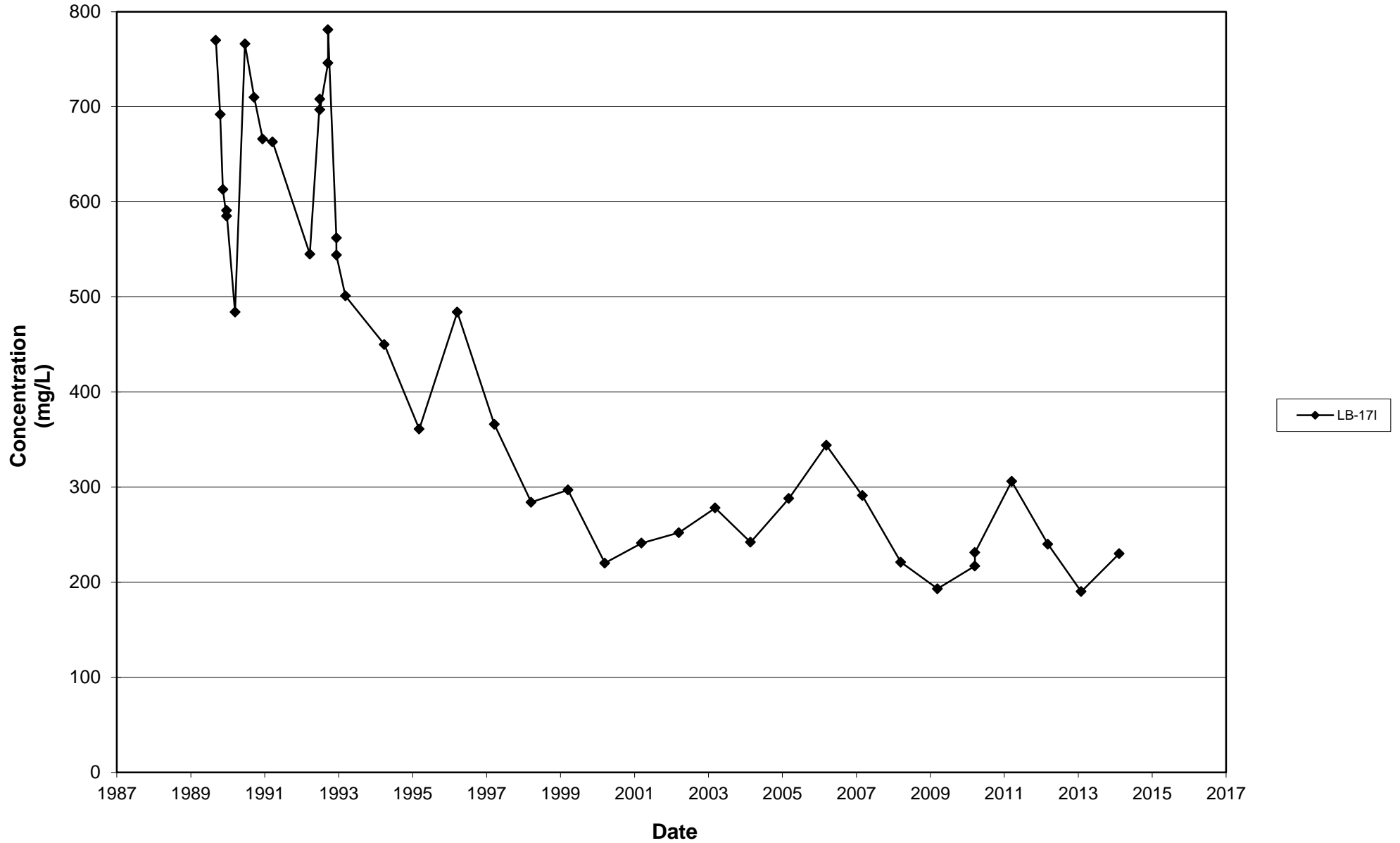
Leichner Landfill
Total Dissolved Solids, LB-13I
1987 - 2014



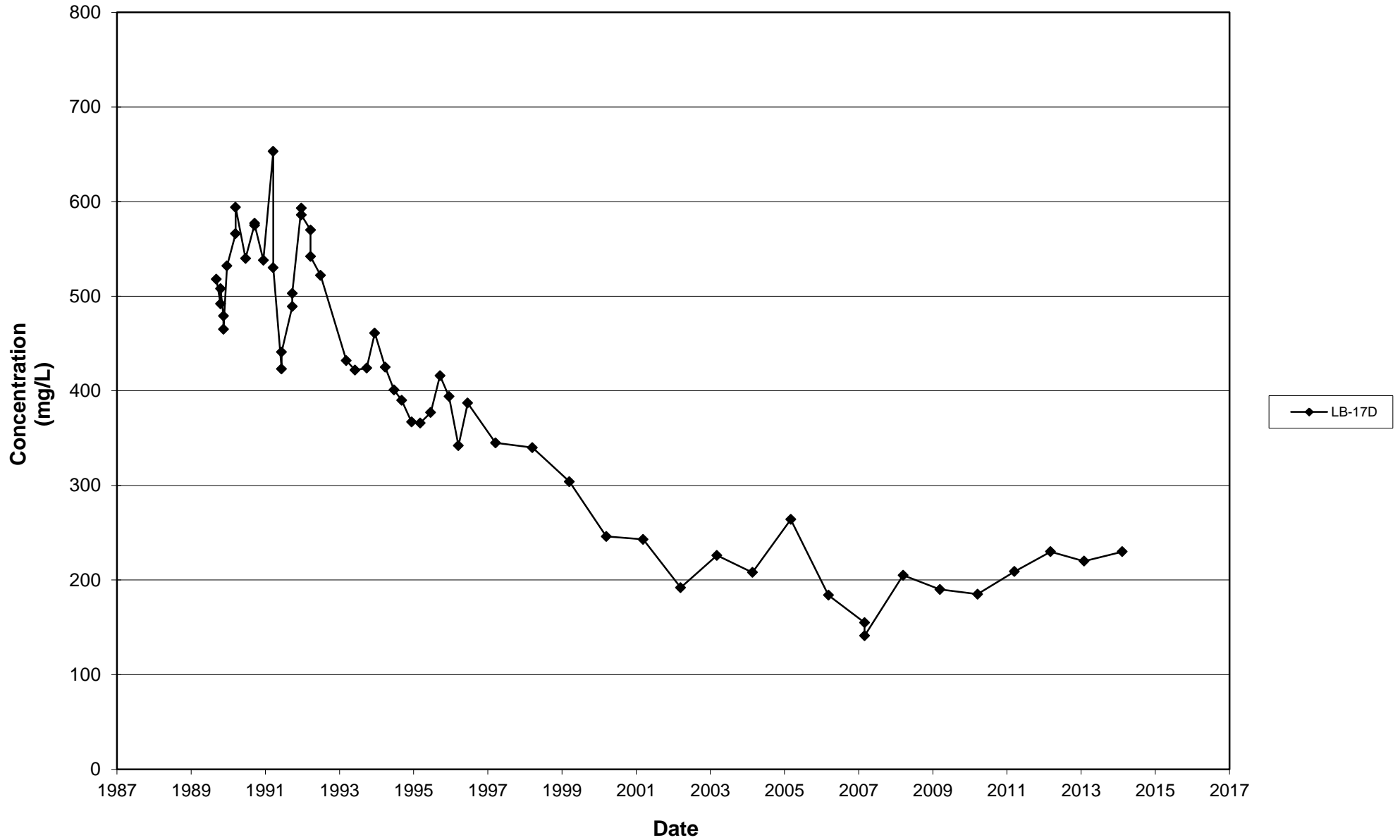
Leichner Landfill
Total Dissolved Solids, LB-13D
1987 - 2014



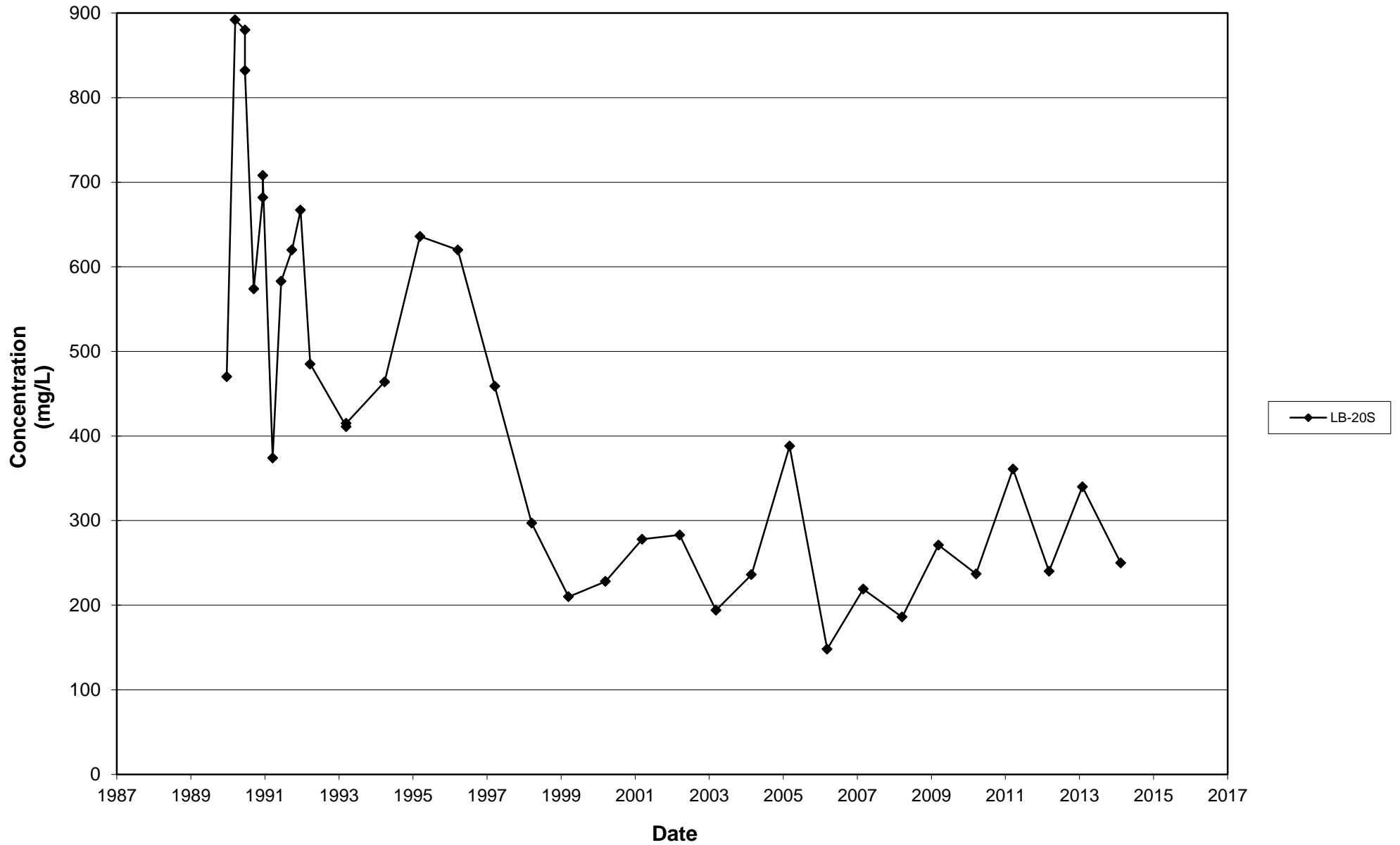
Leichner Landfill
Total Dissolved Solids, LB-17I
1987 - 2014



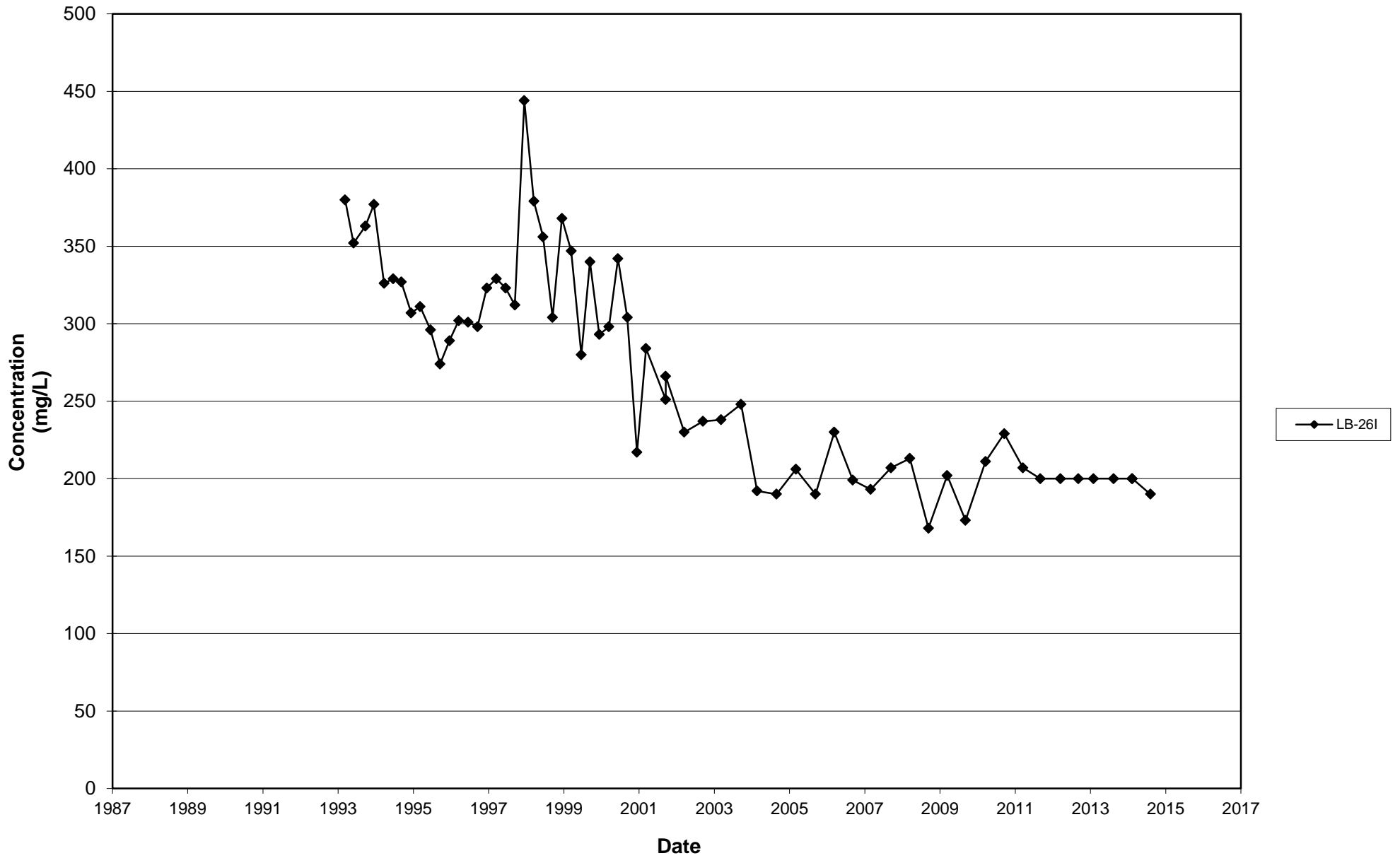
**Leichner Landfill
Total Dissolved Solids, LB-17D
1987 - 2014**



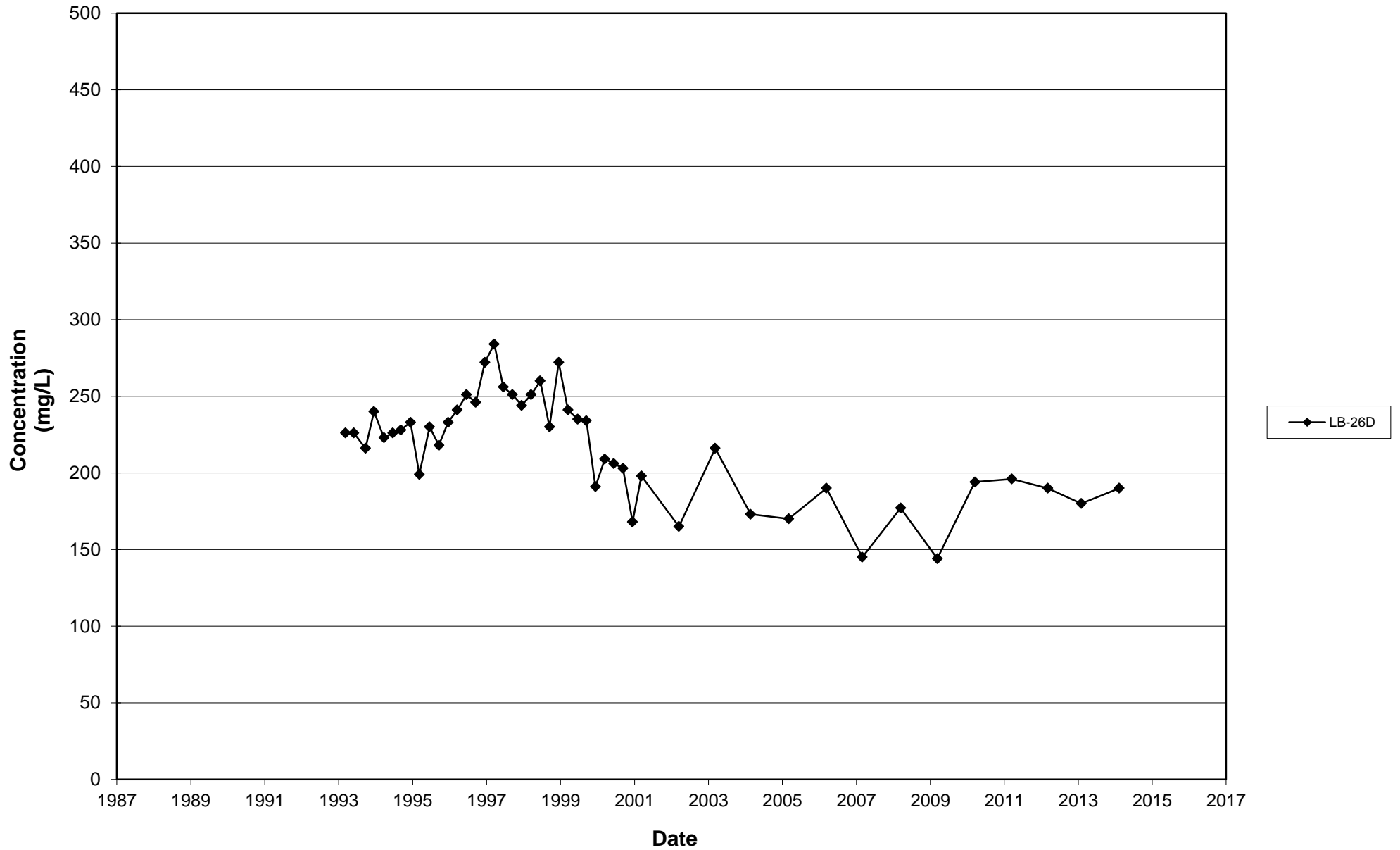
Leichner Landfill
Total Dissolved Solids, LB-20S
1987 - 2014



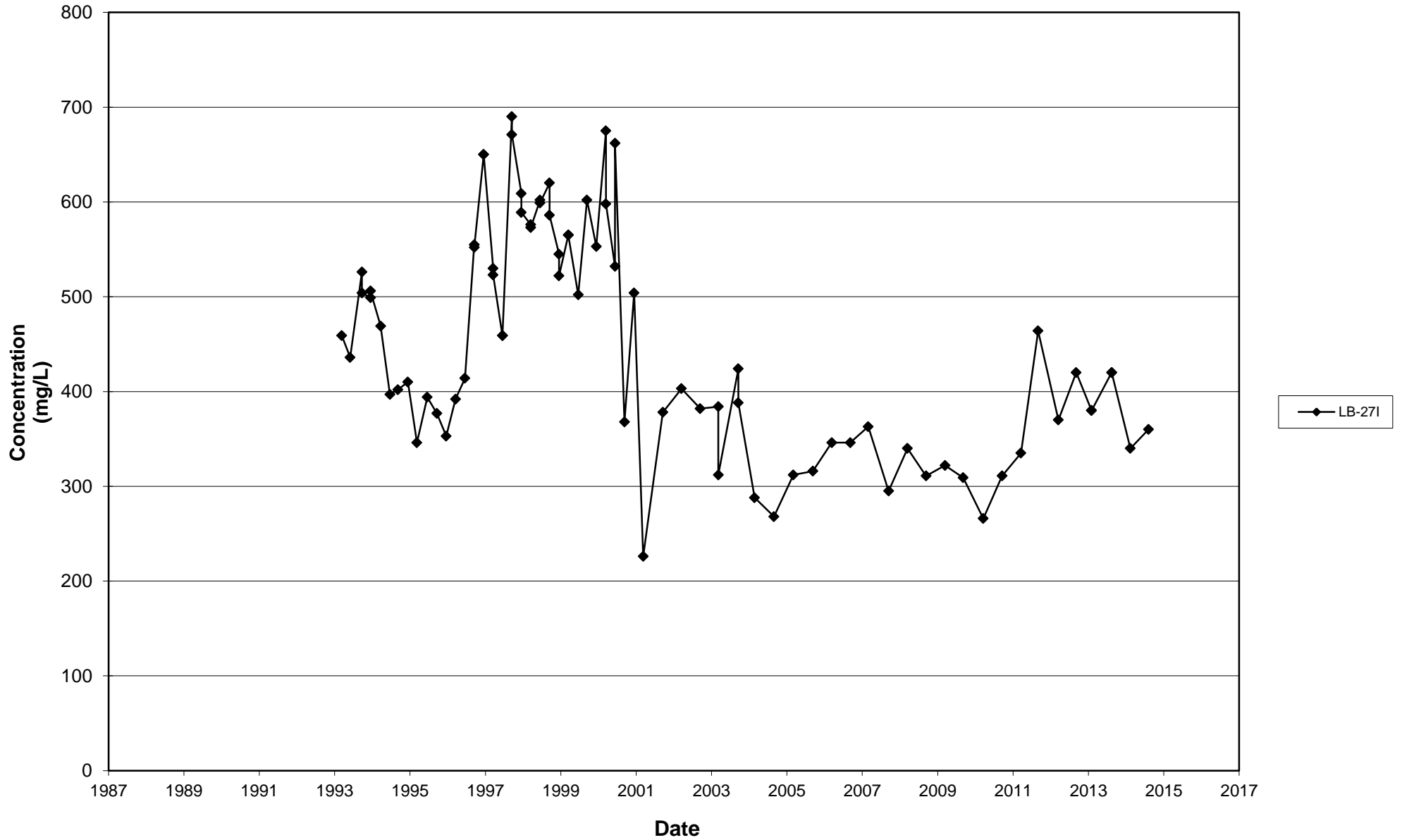
Leichner Landfill
Total Dissolved Solids, LB-26I
1987 - 2014



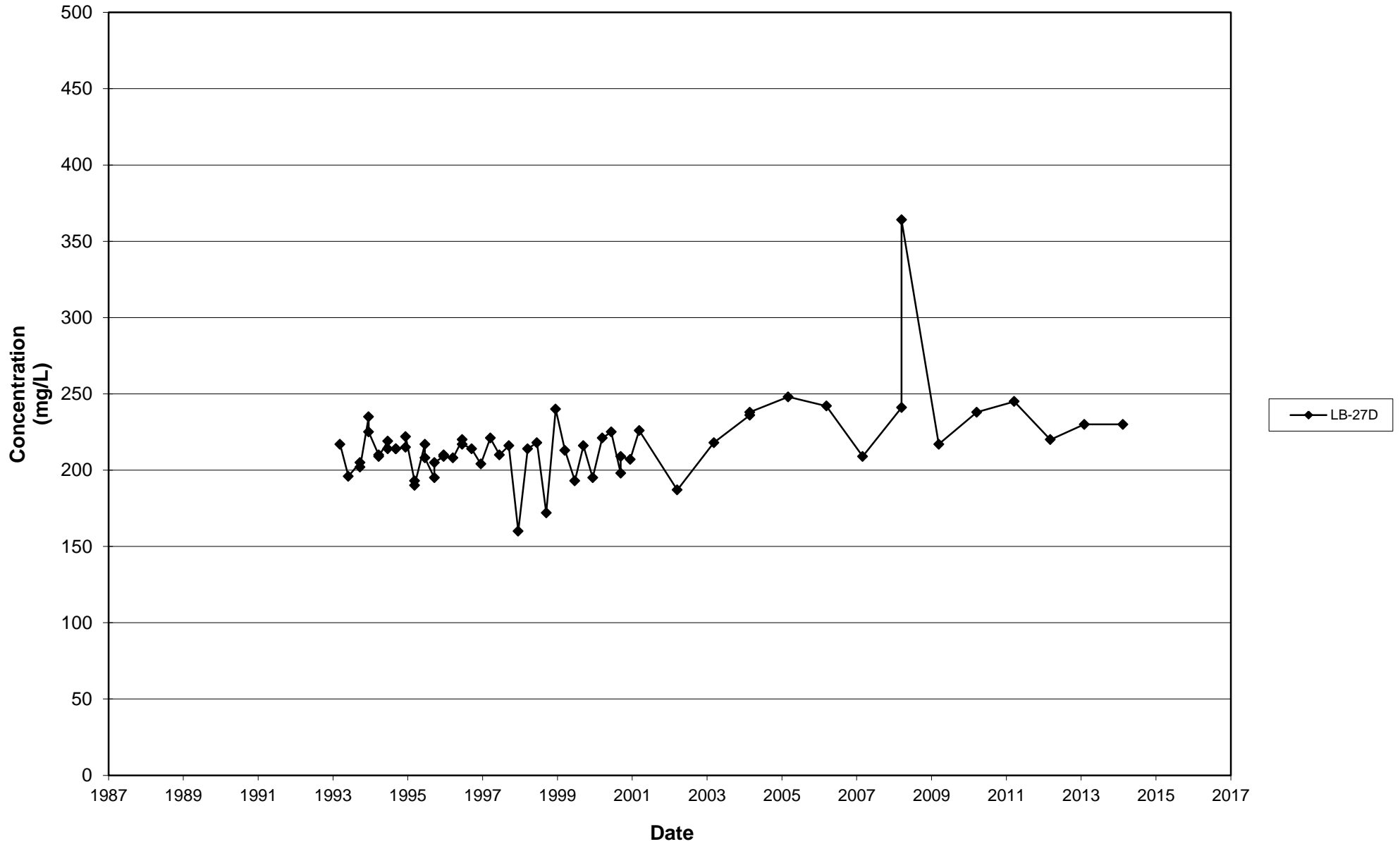
**Leichner Landfill
Total Dissolved Solids, LB-26D
1987 - 2014**



Leichner Landfill
Total Dissolved Solids, LB-27I
1987 - 2014

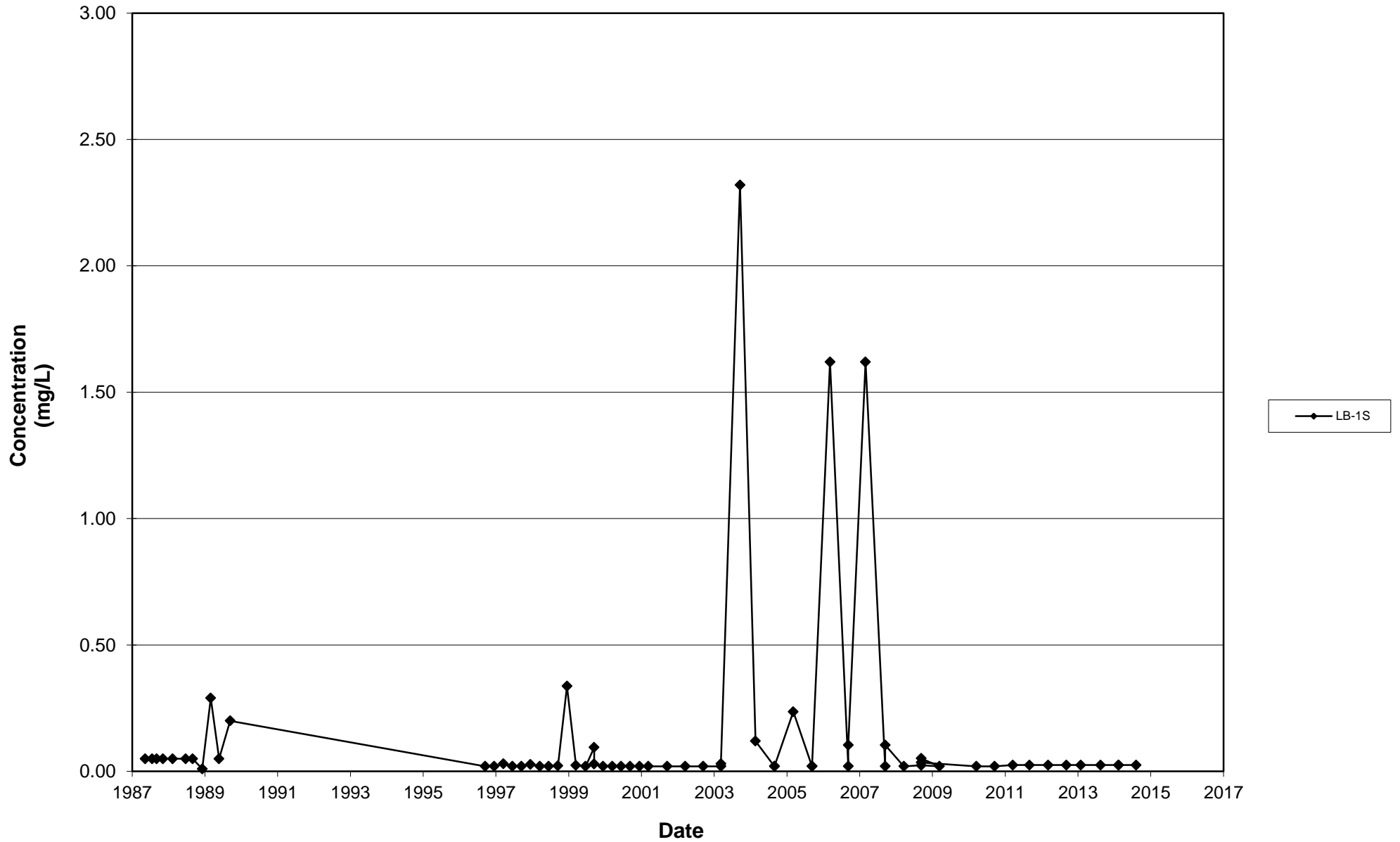


Leichner Landfill
Total Dissolved Solids, LB-27D
1987 - 2014

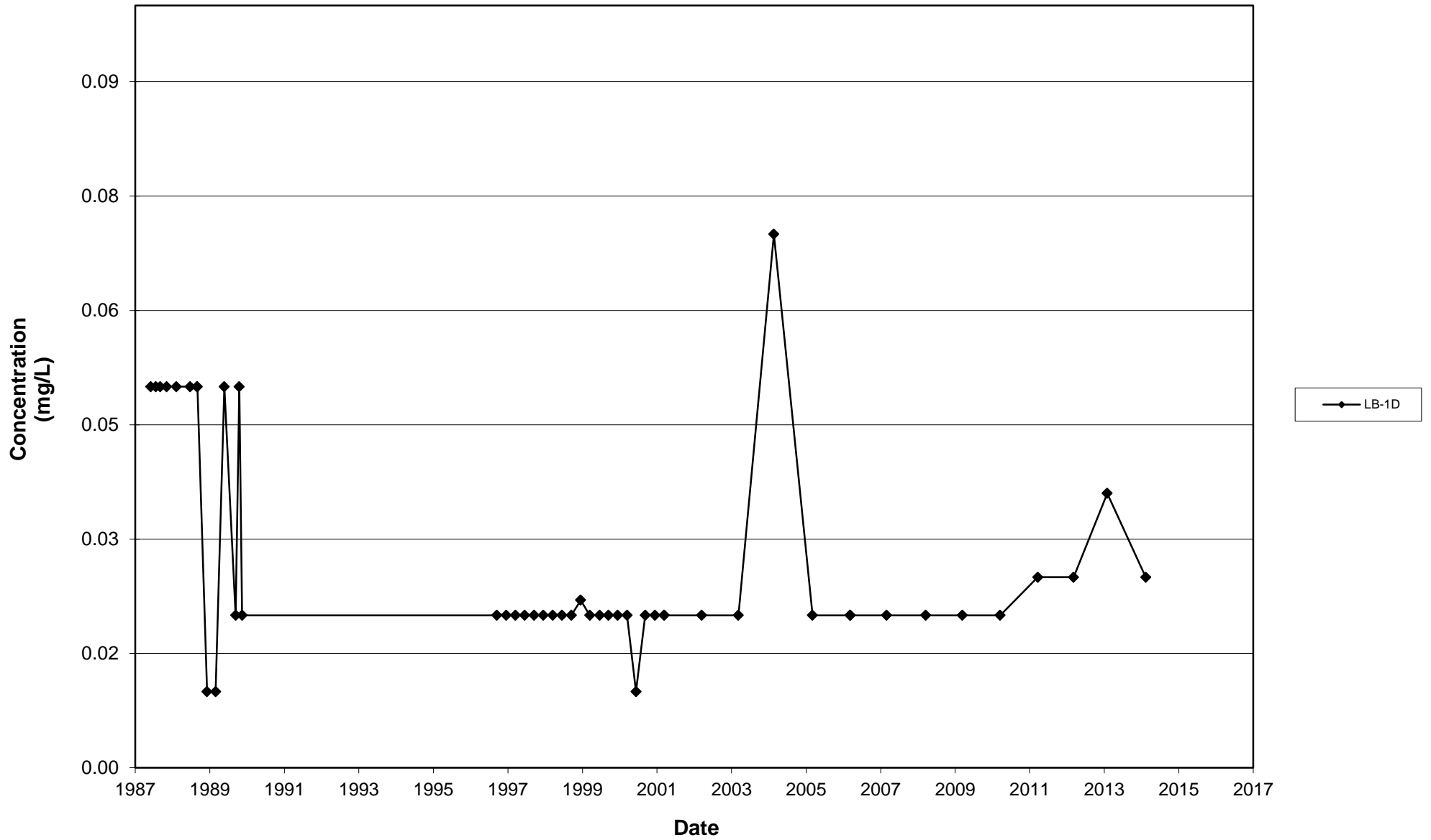


Dissolved Iron

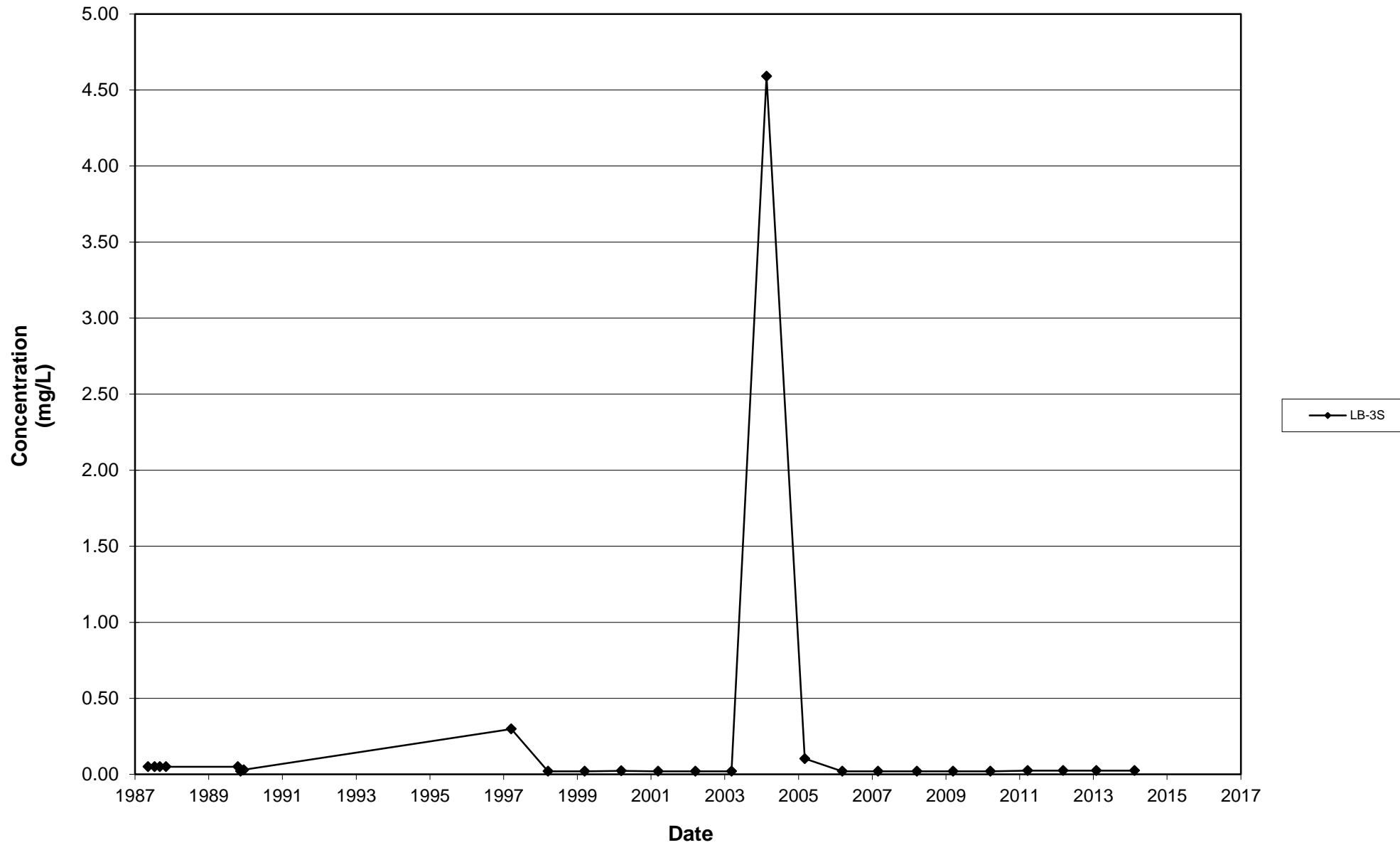
Leichner Landfill
Dissolved Iron, LB-01S
1987 - 2014



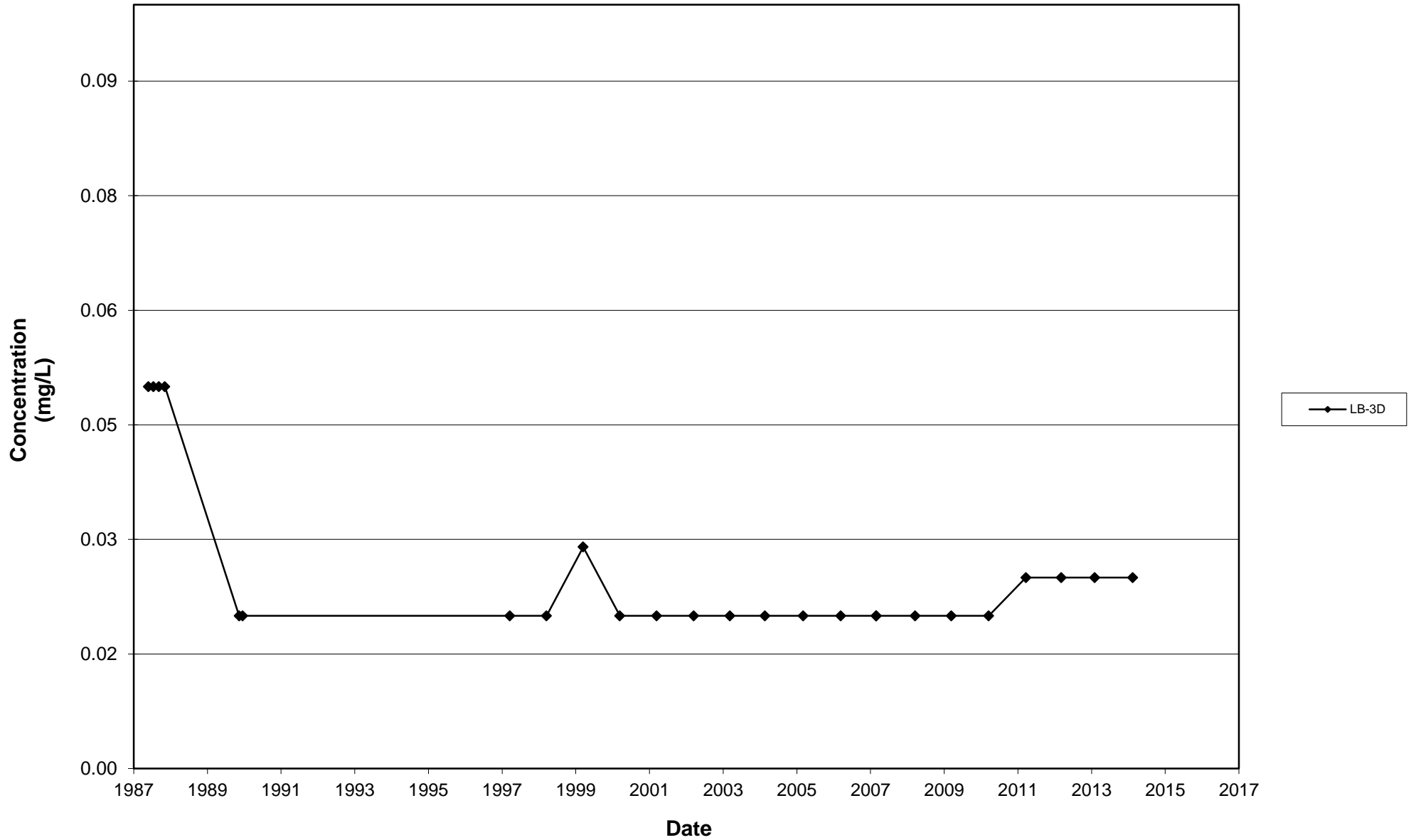
Leichner Landfill
Dissolved Iron, LB-01D
1987 - 2014



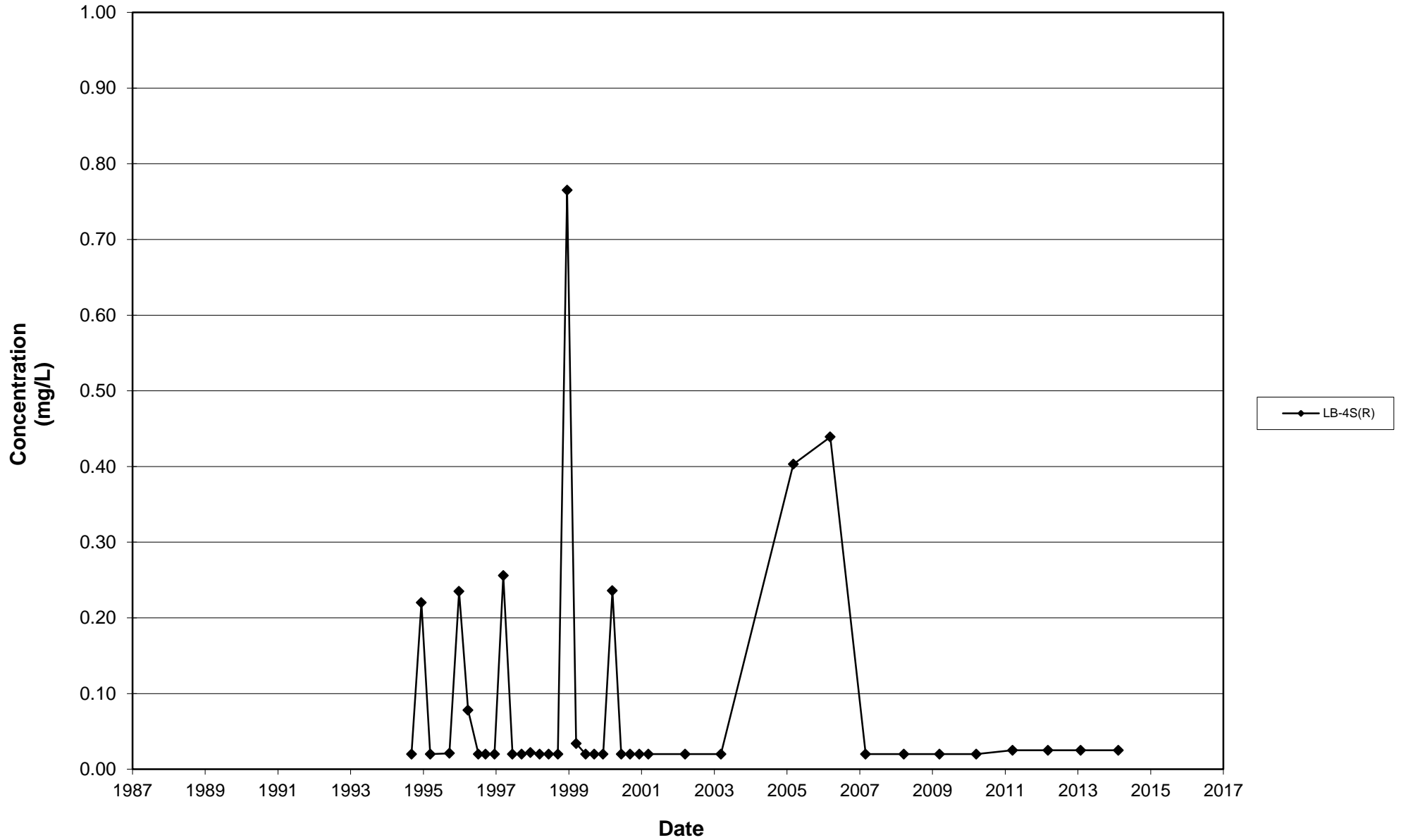
Leichner Landfill
Dissolved Iron, LB-03S
1987 - 2014



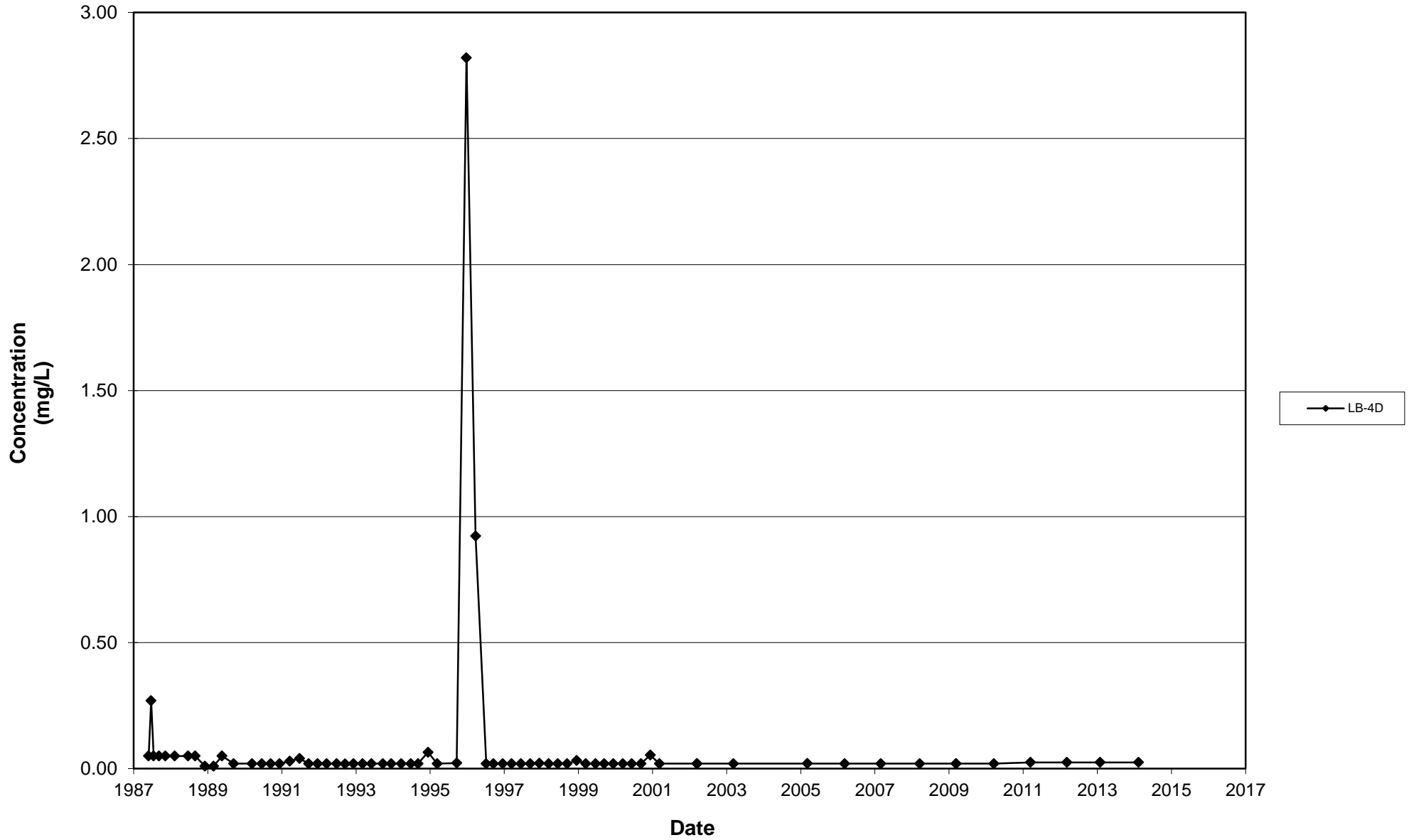
Leichner Landfill
Dissolved Iron, LB-03D
1987 - 2014



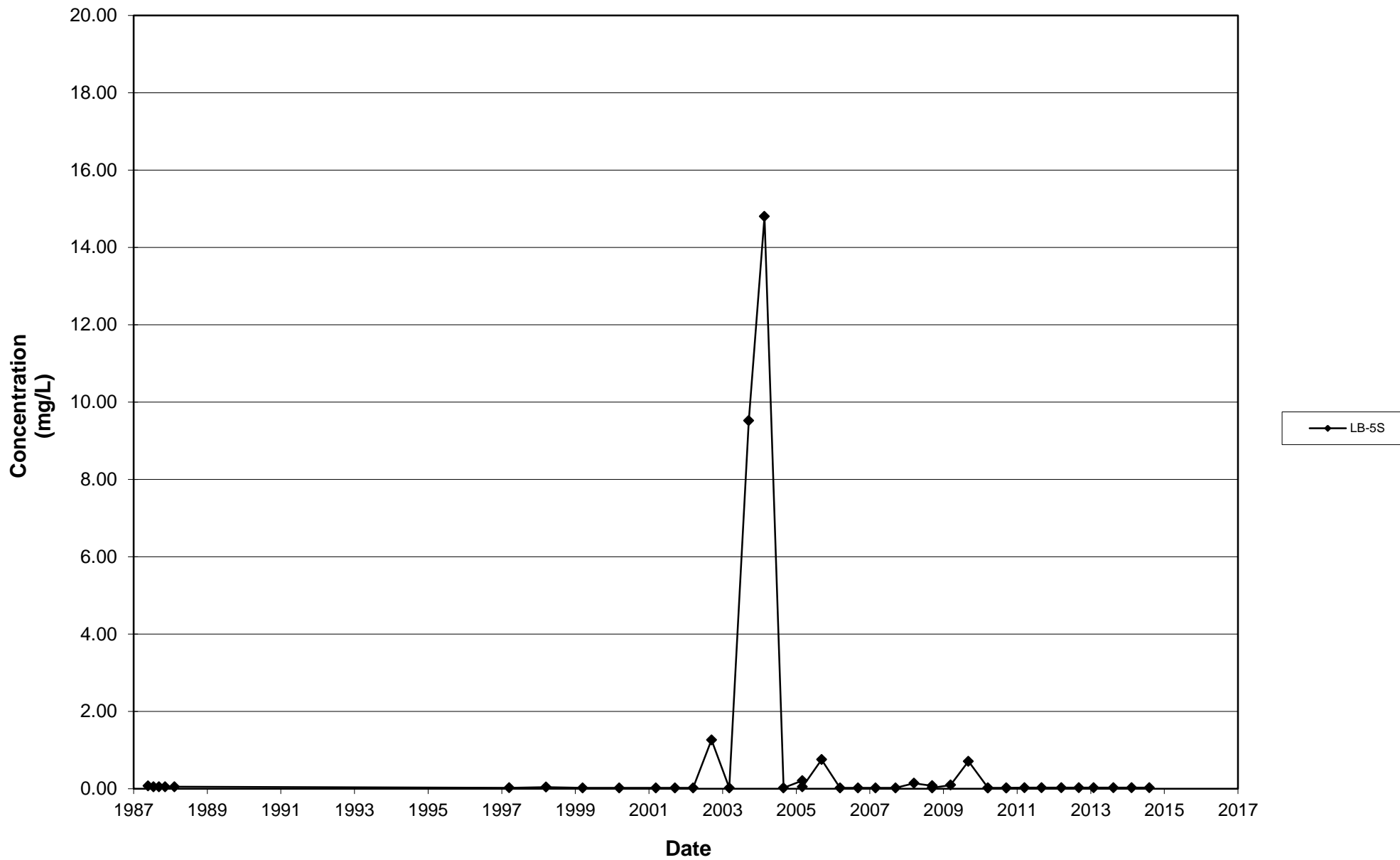
Leichner Landfill
Dissolved Iron, LB-04SR
1987 - 2014



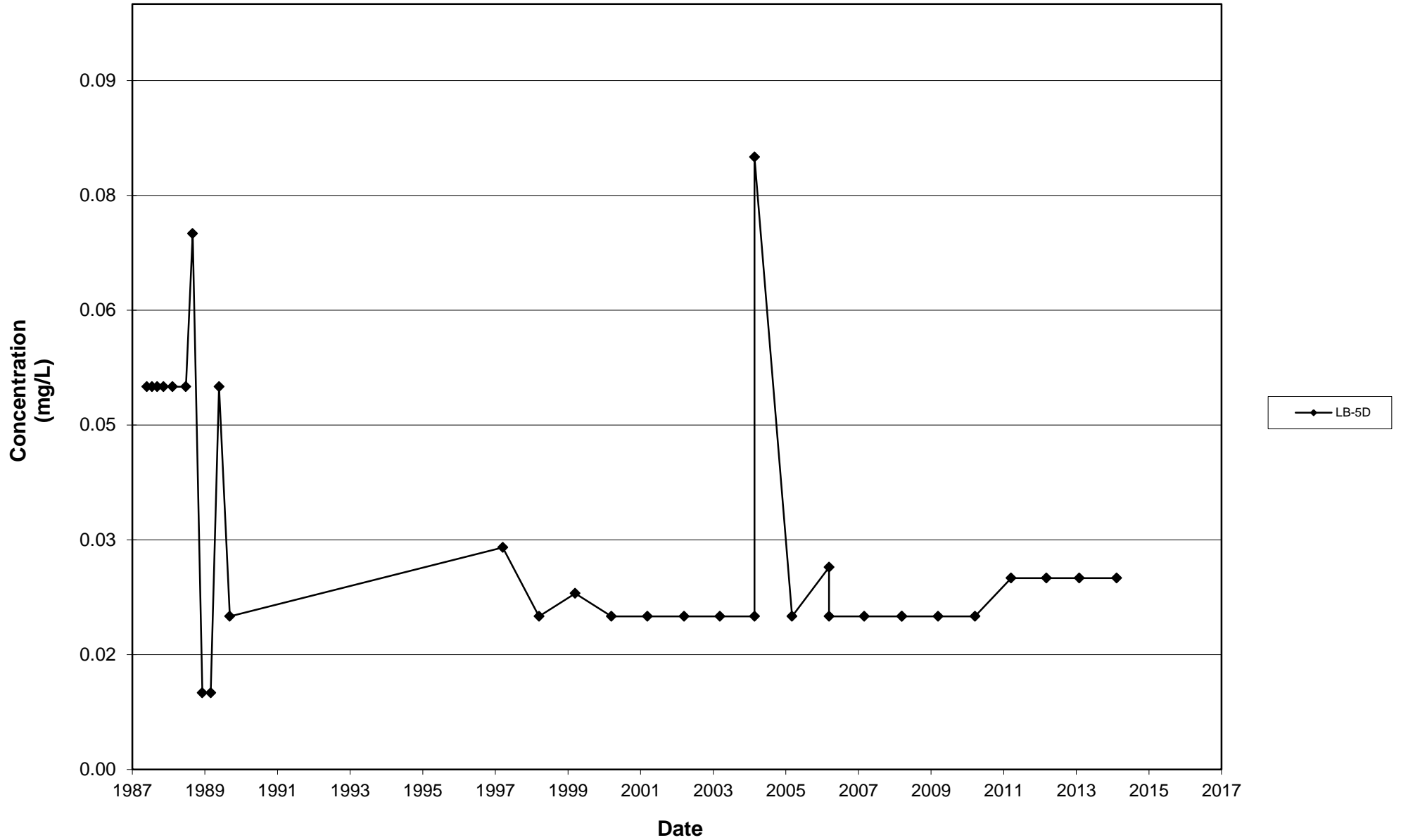
Leichner Landfill
Dissolved Iron, LB-04D
1987 - 2014



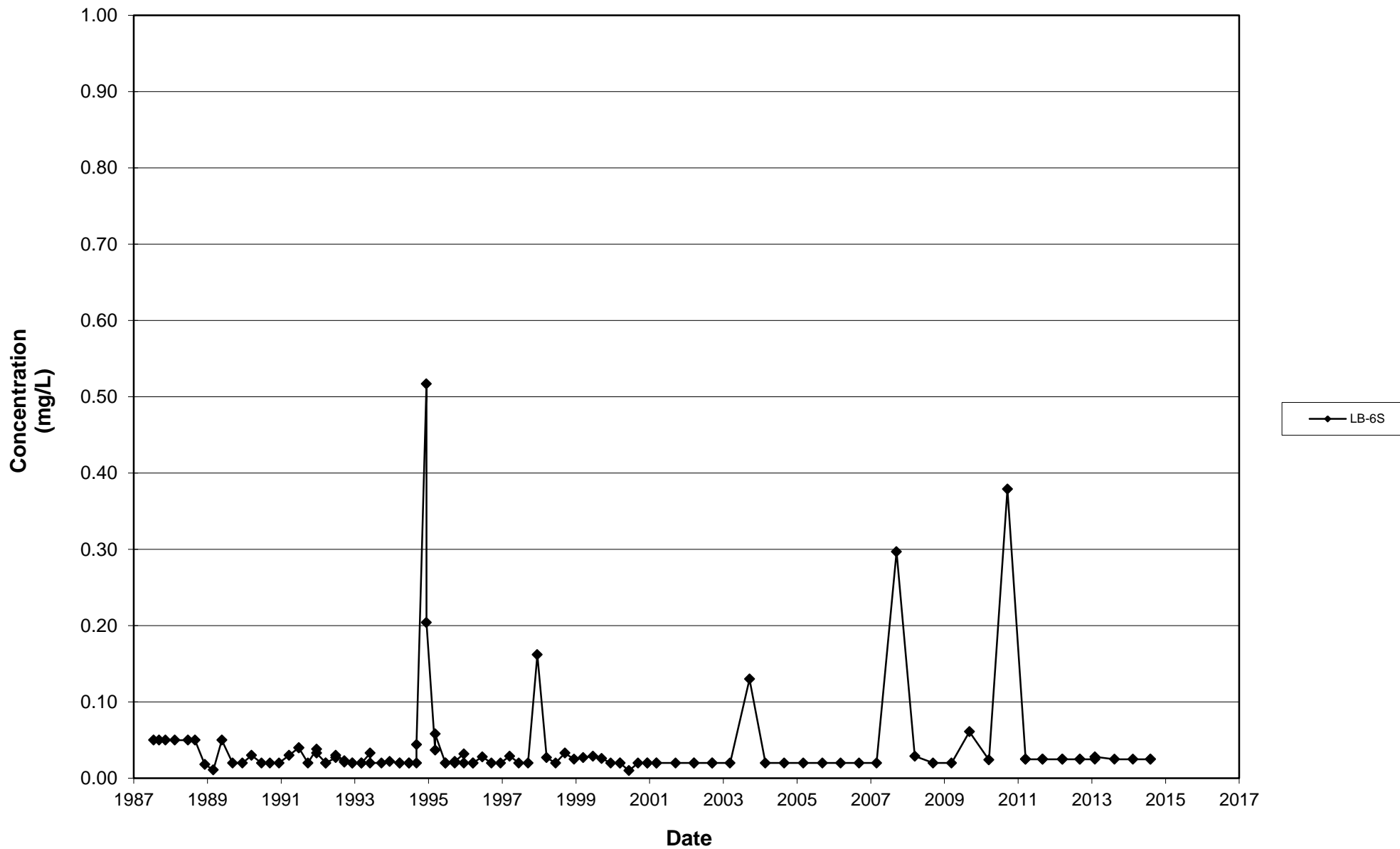
Leichner Landfill
Dissolved Iron, LB-05S
1987 - 2014



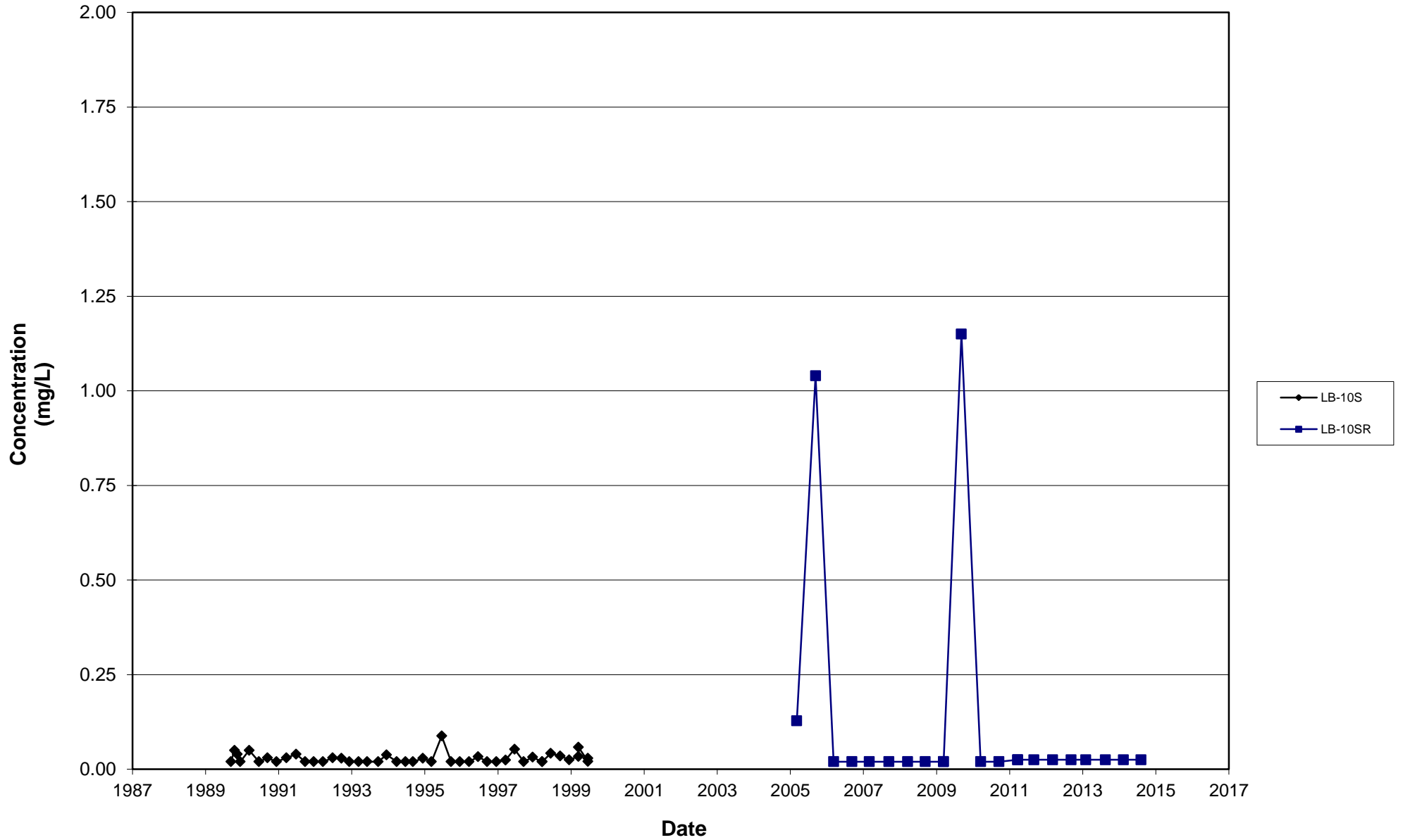
Leichner Landfill
Dissolved Iron, LB-05D
1987 - 2014



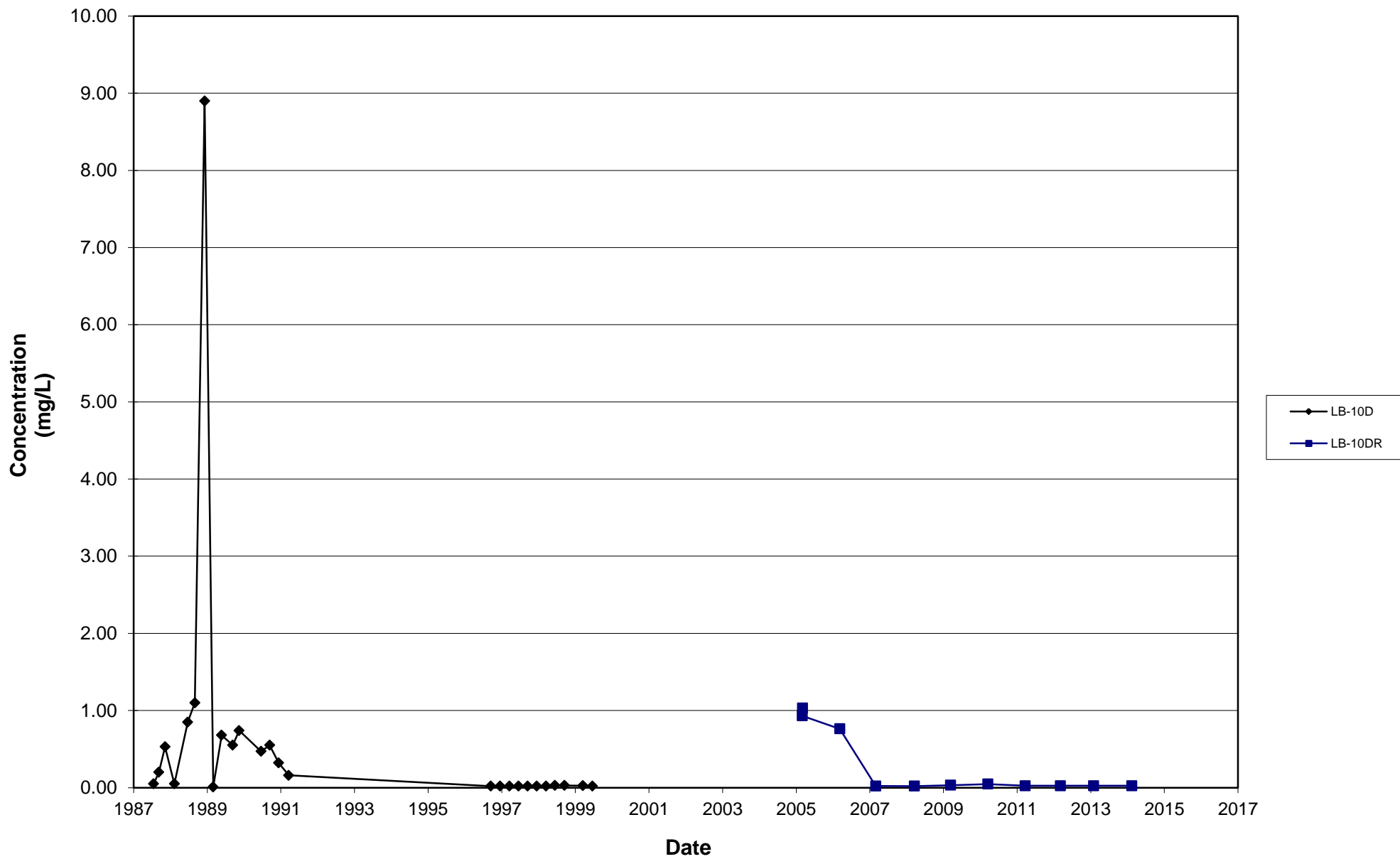
Leichner Landfill
Dissolved Iron, LB-06S
1987 - 2014



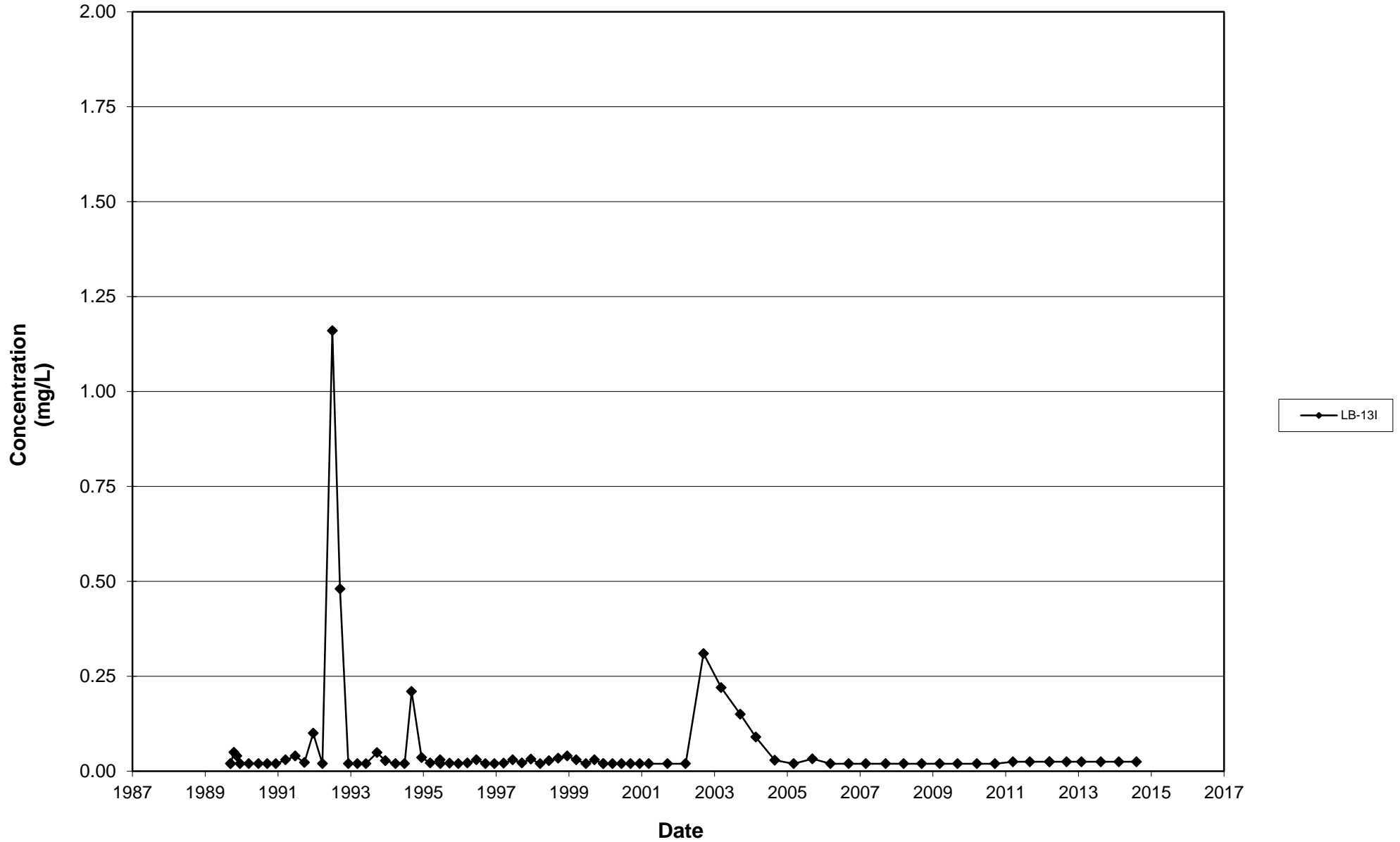
Leichner Landfill
Dissolved Iron, LB-10S and LB-10SR
1987 - 2014



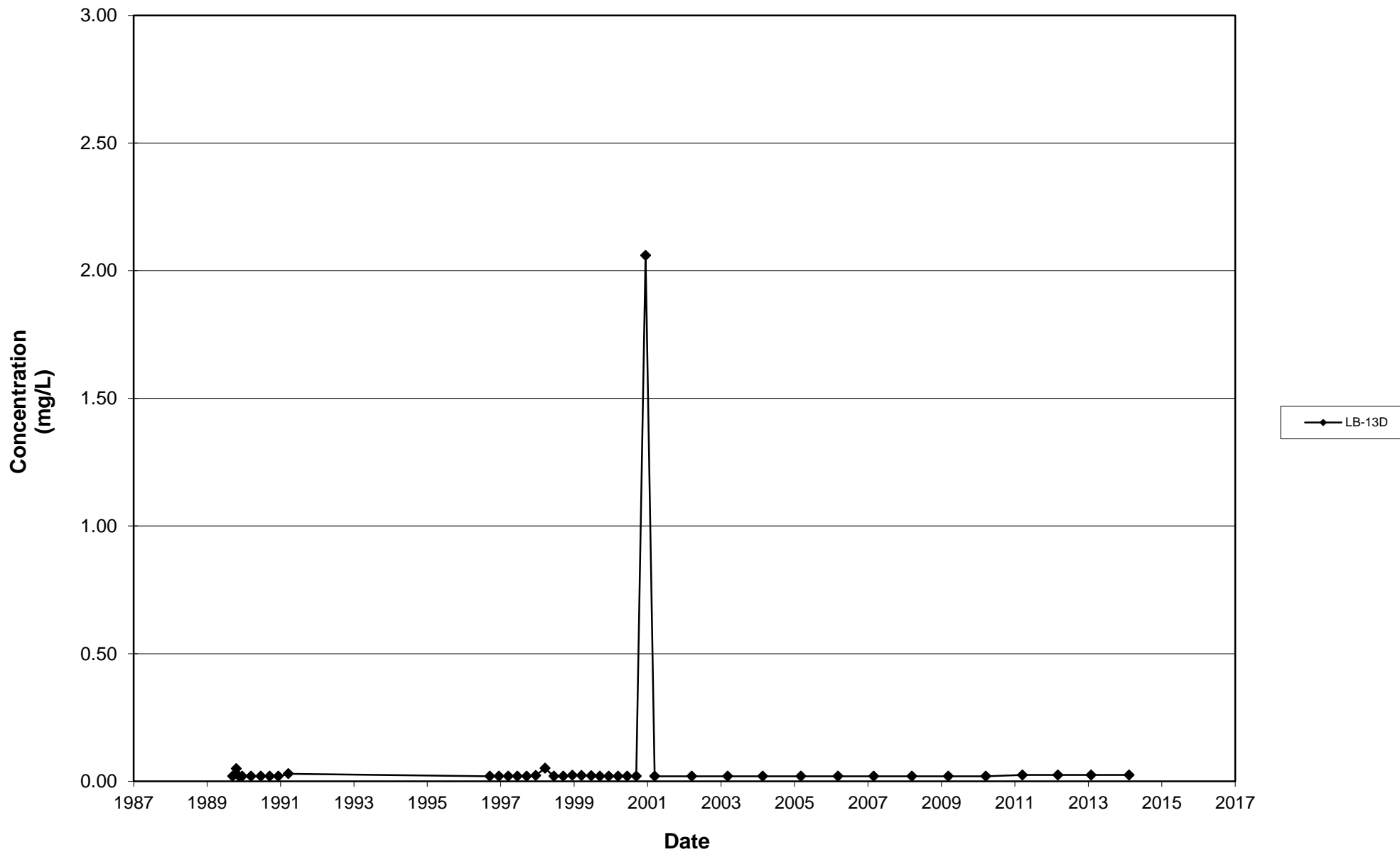
Leichner Landfill
Dissolved Iron, LB-10D and LB-10DR
1987 - 2014



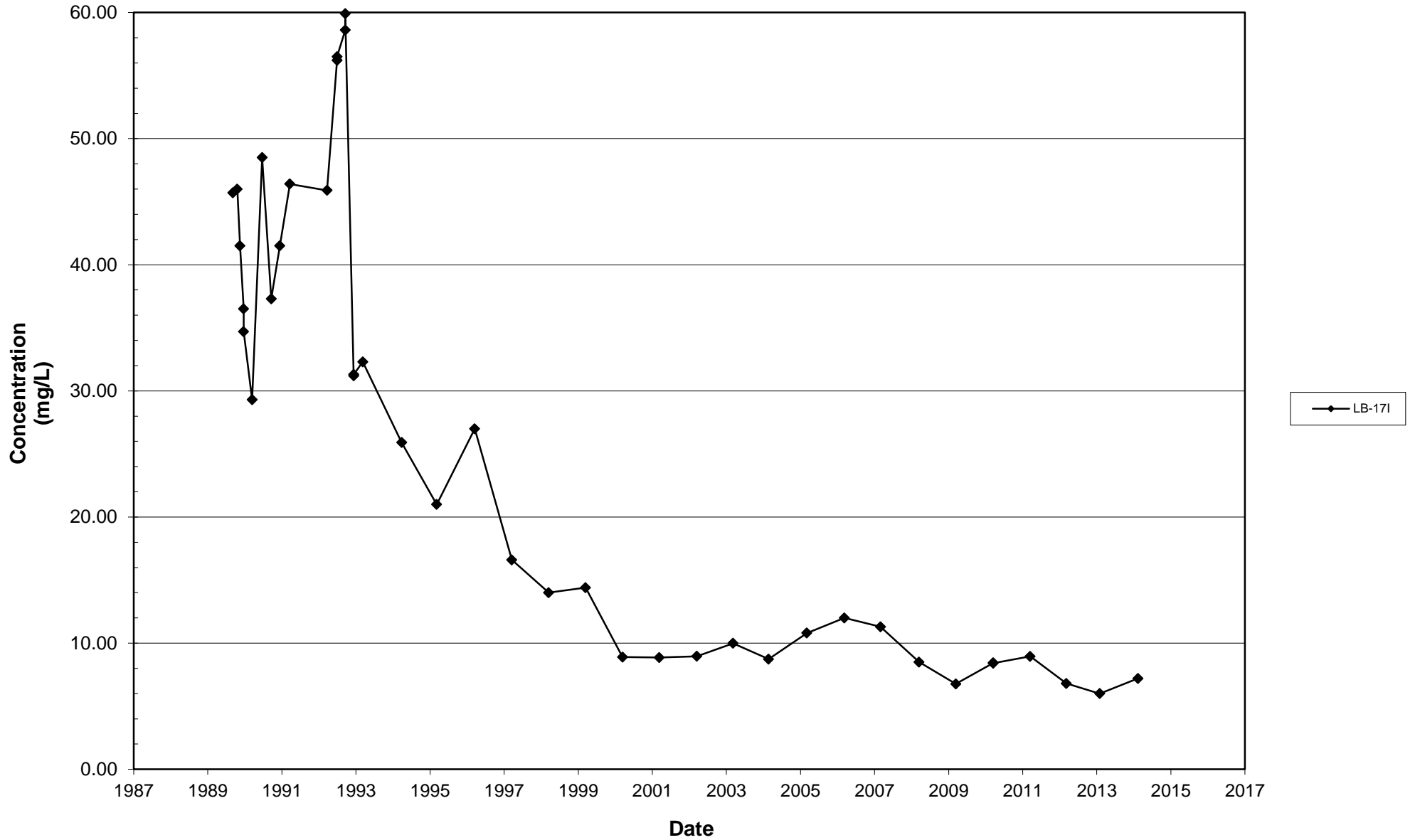
Leichner Landfill
Dissolved Iron, LB-13I
1987 - 2014



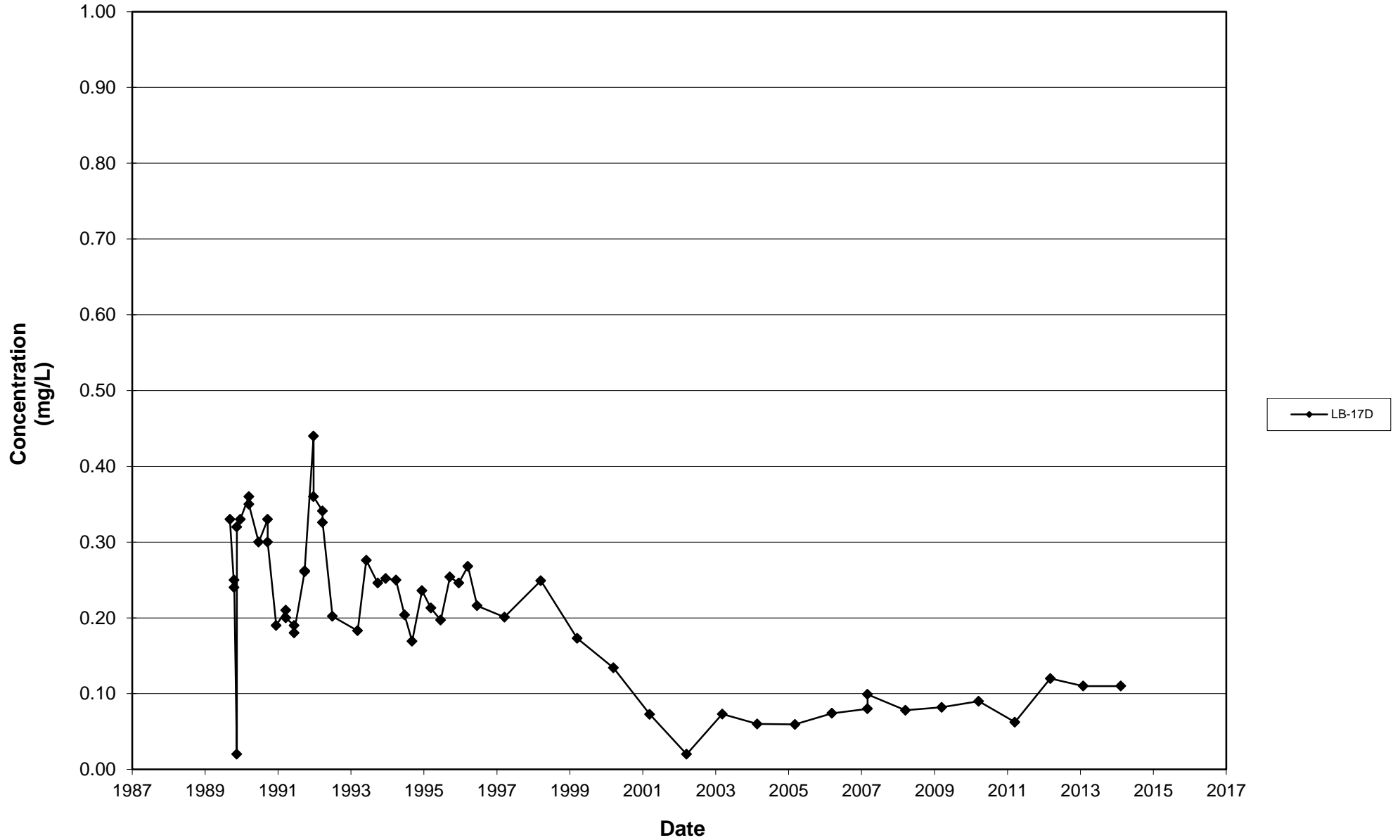
Leichner Landfill
Dissolved Iron, LB-13D
1987 - 2014



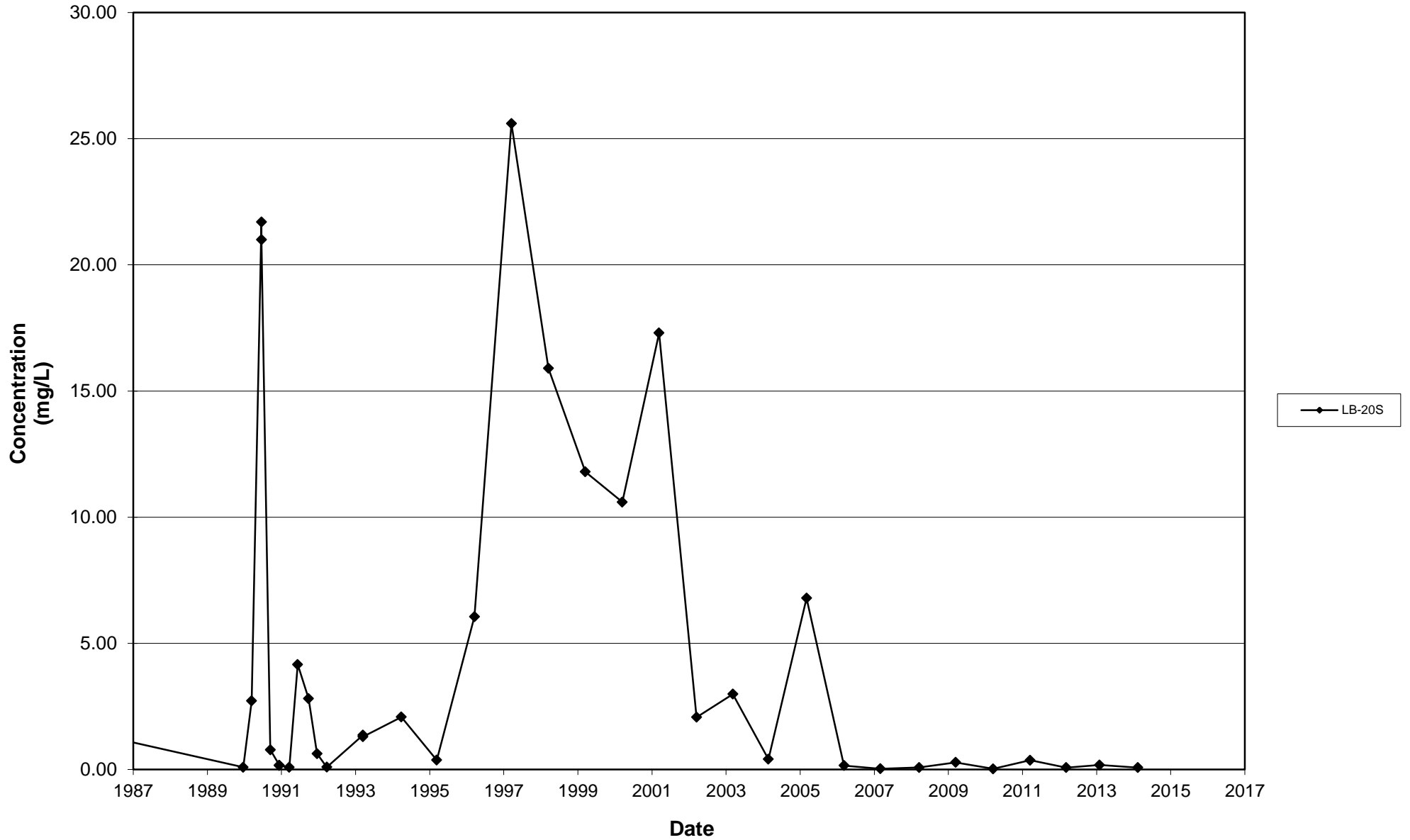
Leichner Landfill
Dissolved Iron, LB-17I
1987 - 2014



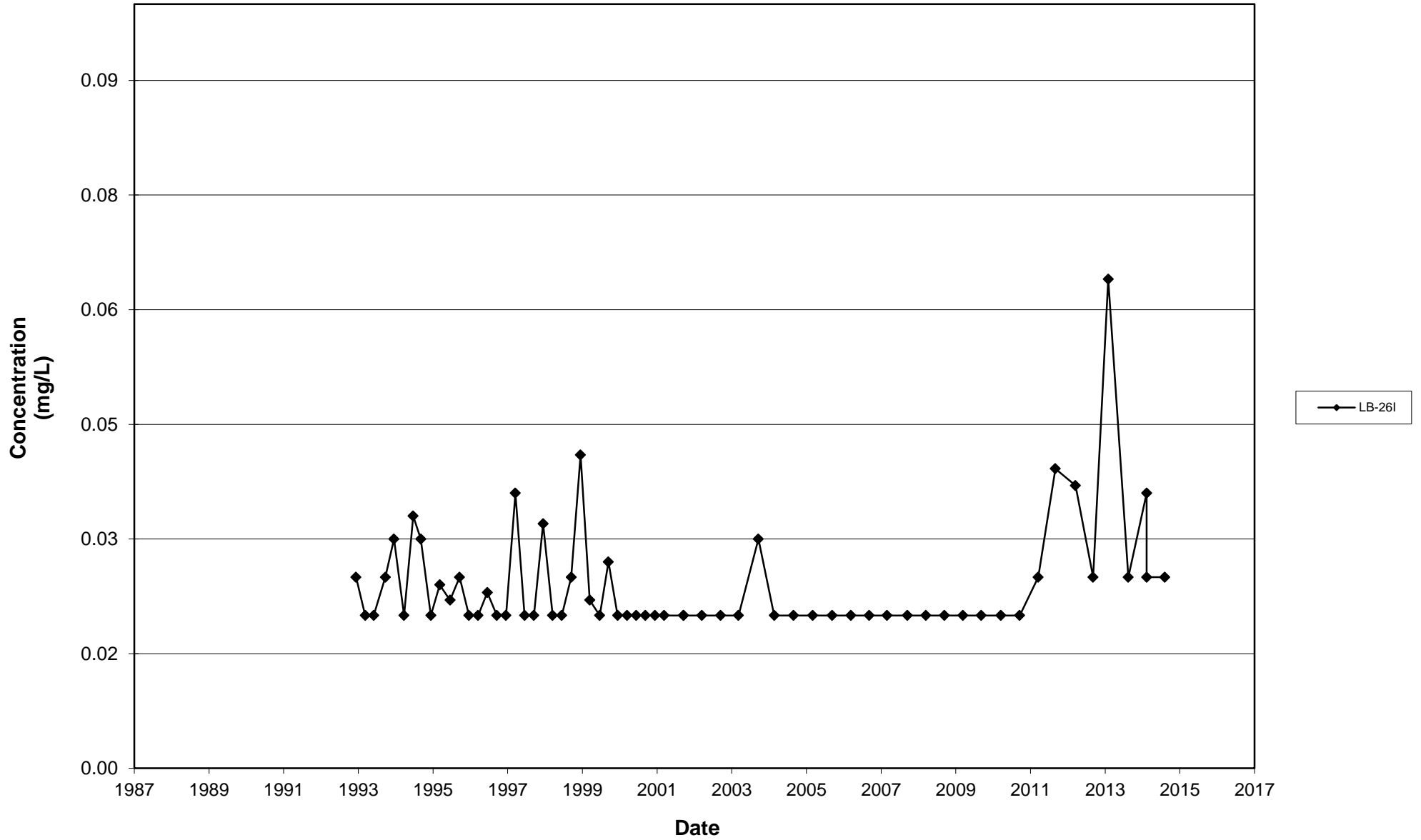
Leichner Landfill
Dissolved Iron, LB-17D
1987 - 2014



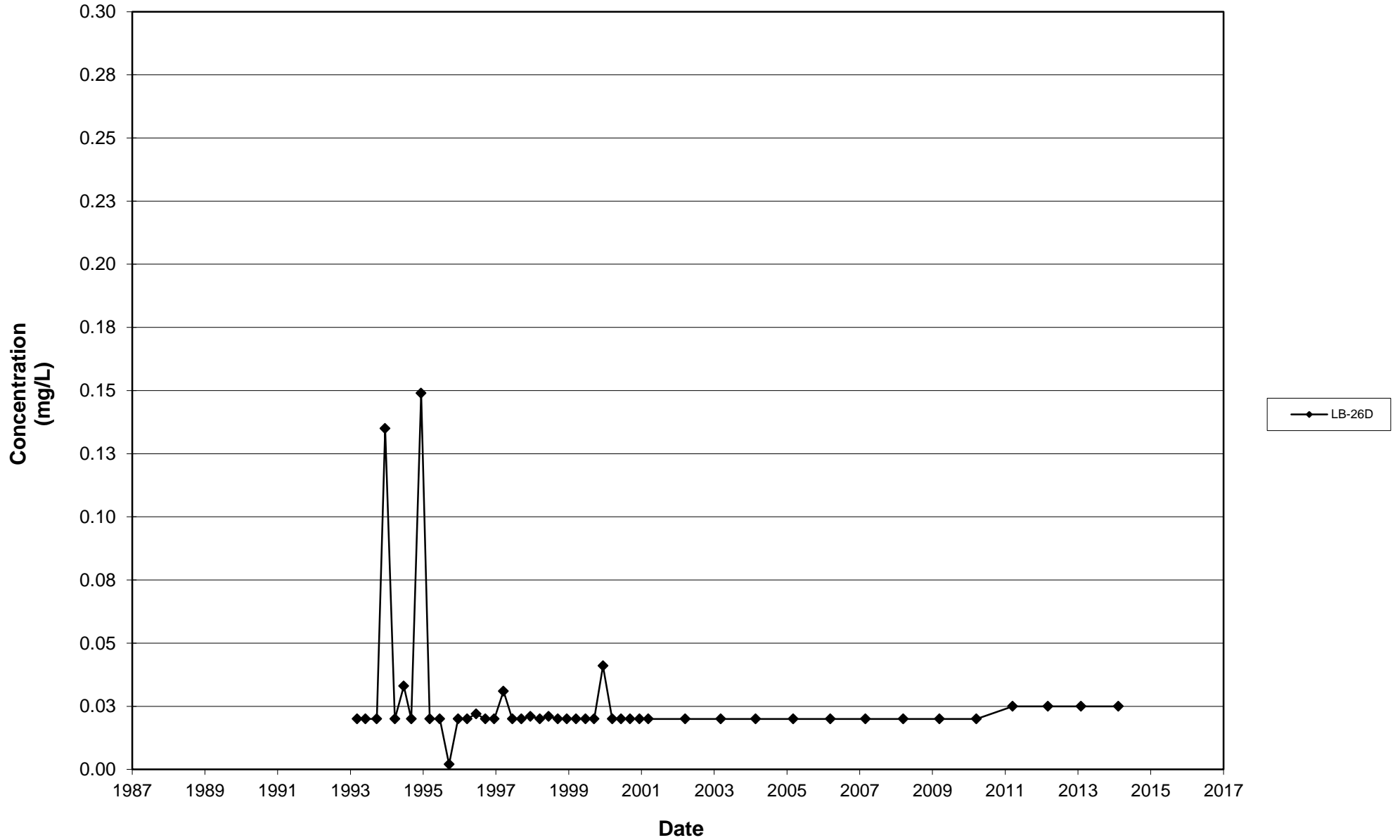
Leichner Landfill
Dissolved Iron, LB-20S
1987 - 2014



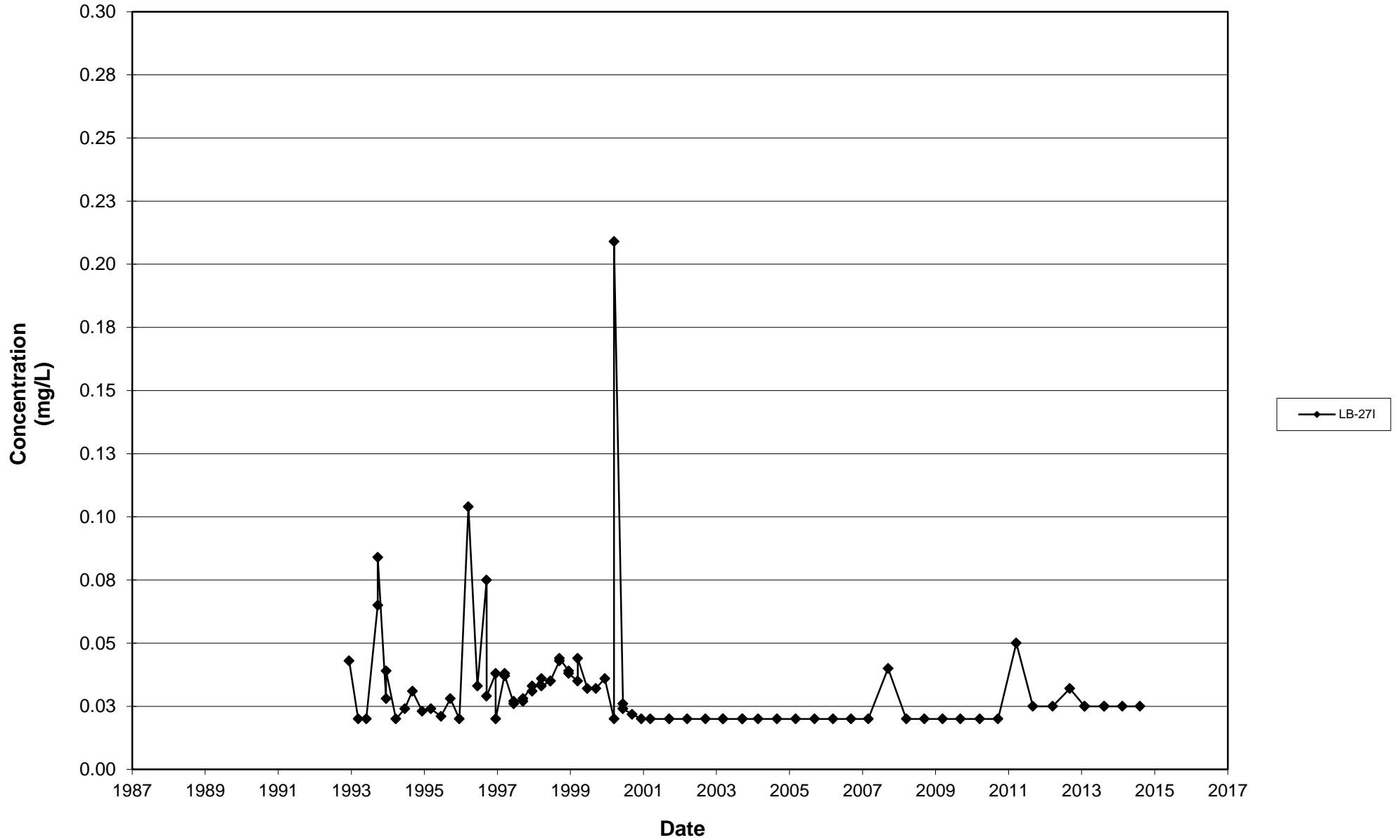
Leichner Landfill
Dissolved Iron, LB-26I
1987 - 2014



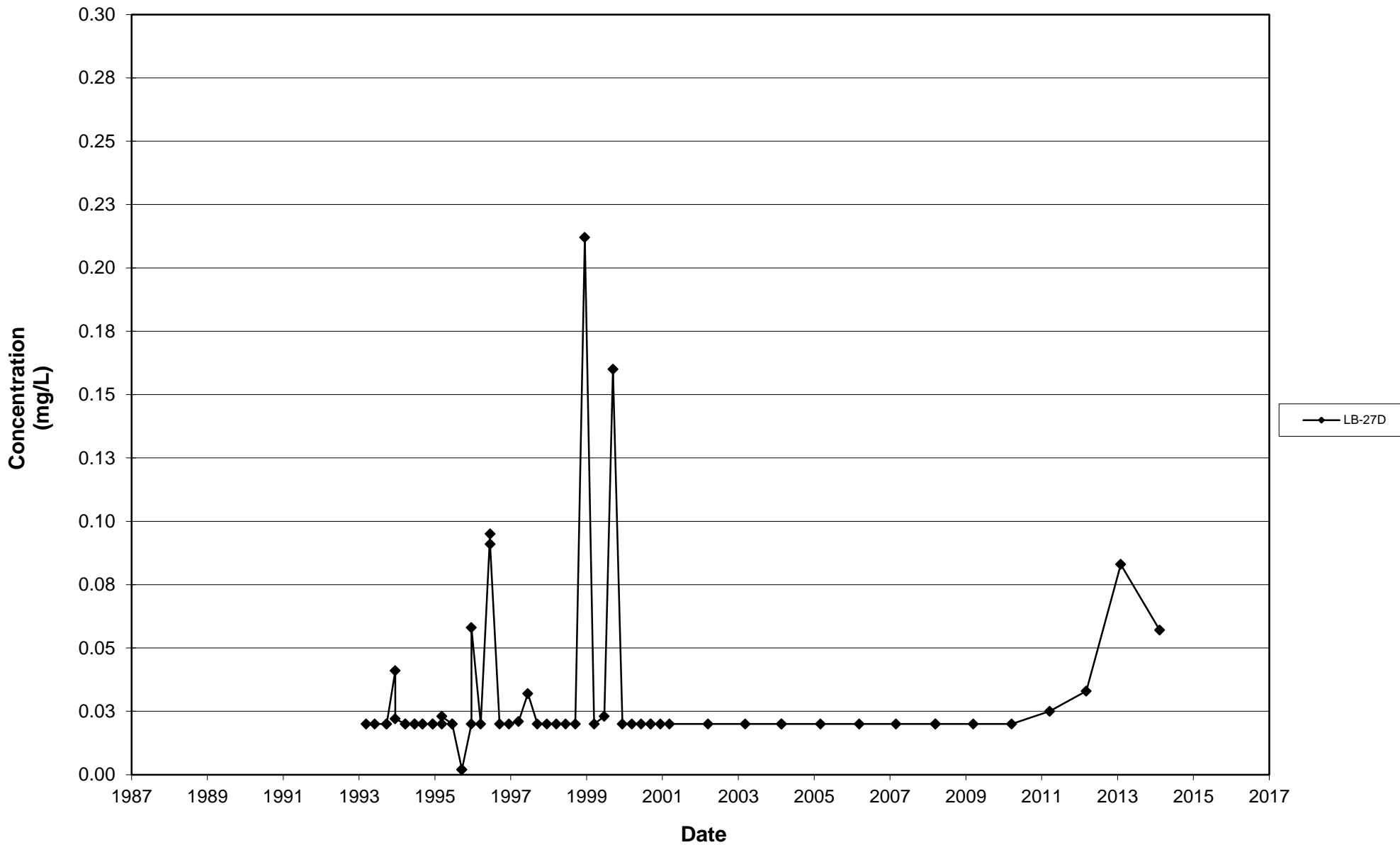
Leichner Landfill
Dissolved Iron, LB-26D
1987 - 2014



Leichner Landfill
Dissolved Iron, LB-27I
1987 - 2014

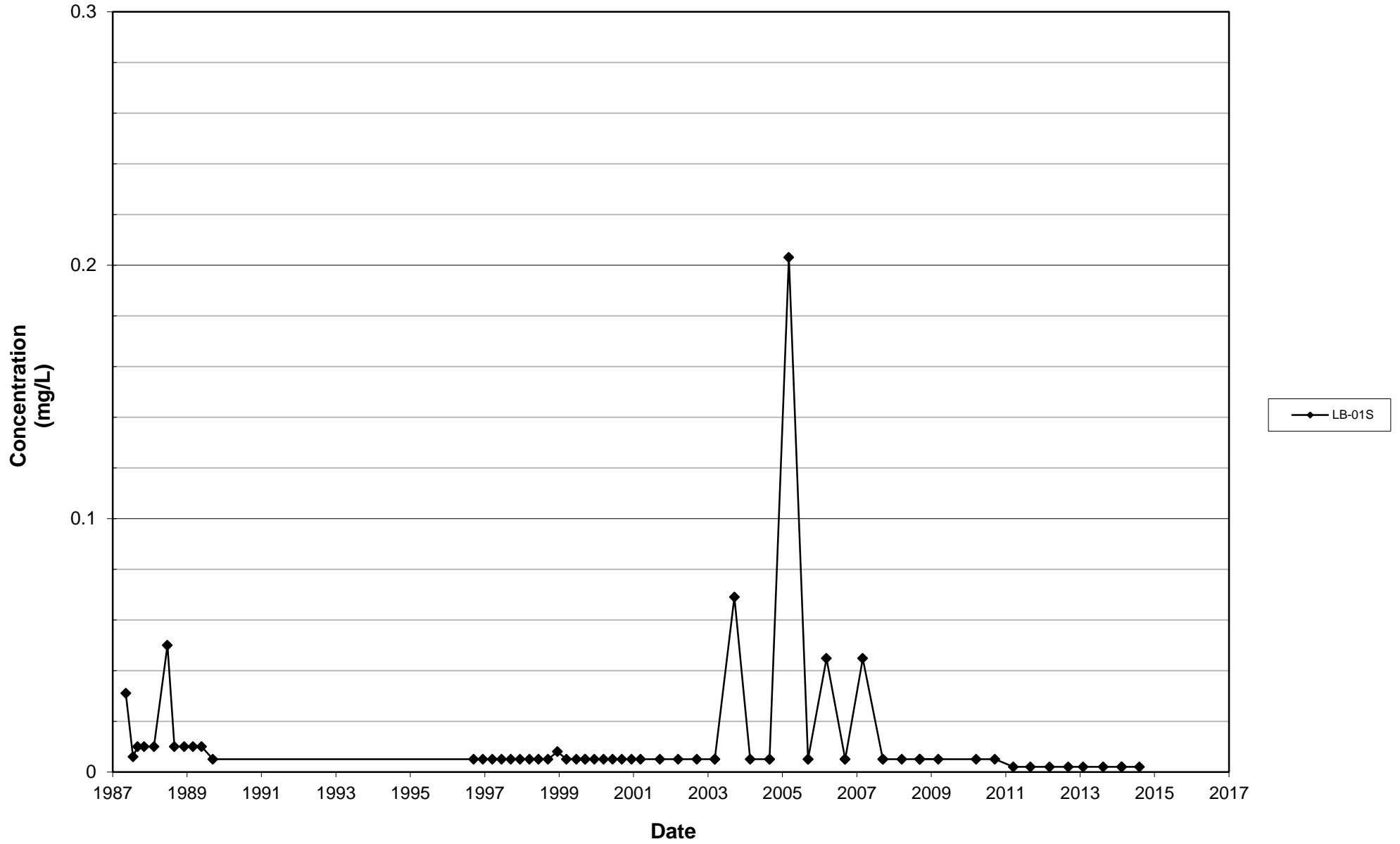


Leichner Landfill
Dissolved Iron, LB-27D
1987 - 2014

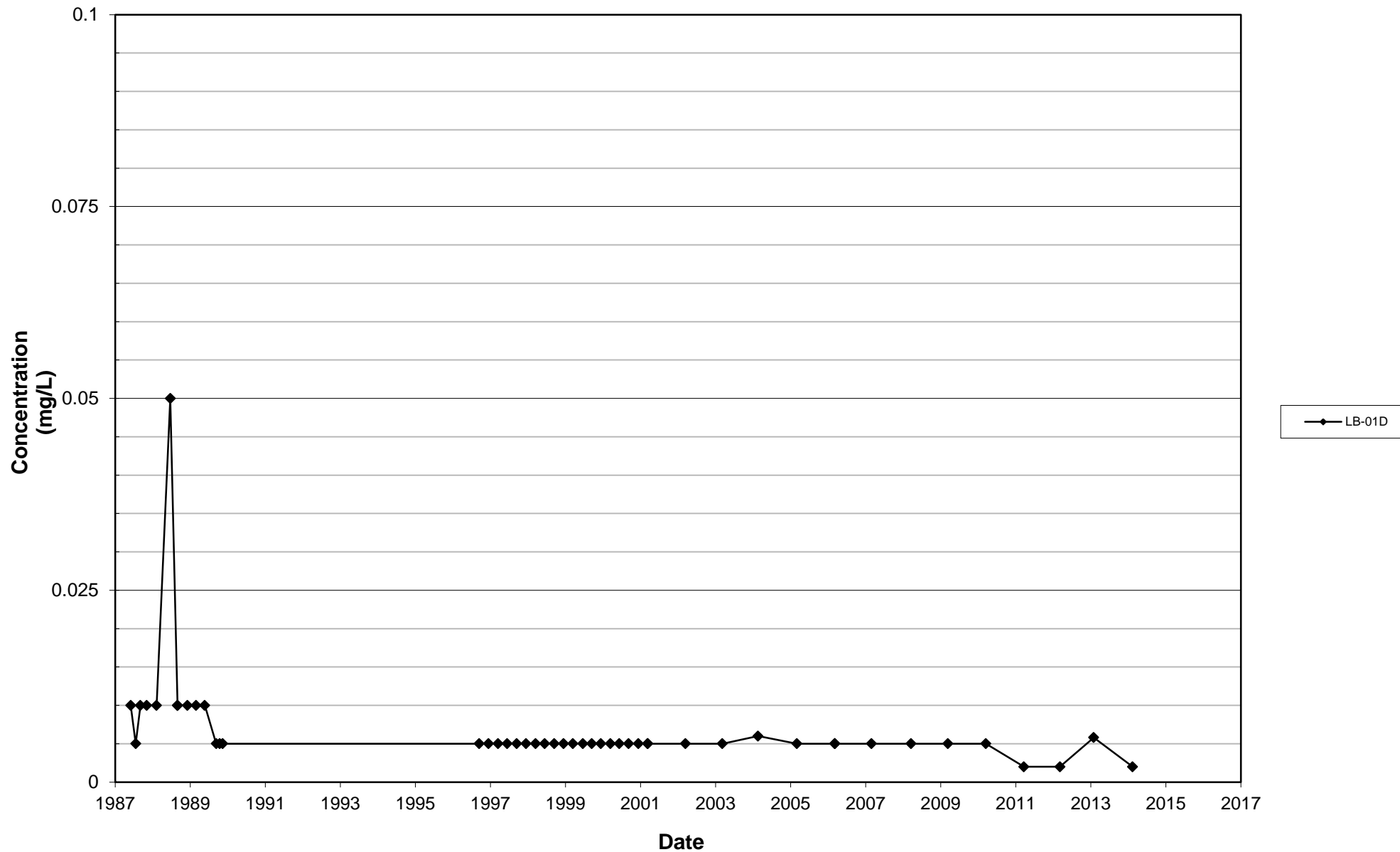


Dissolved Manganese

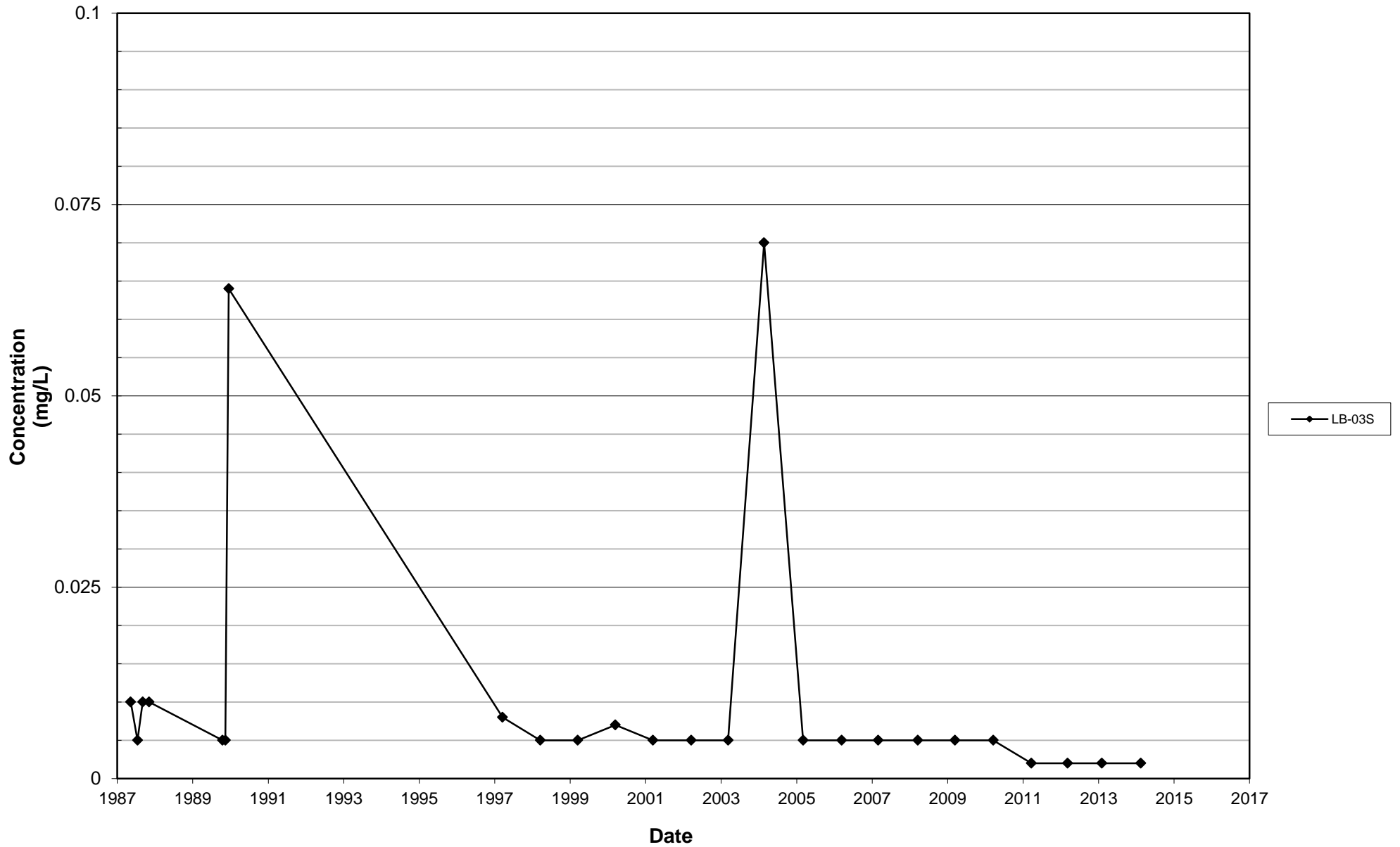
Leichner Landfill
Dissolved Manganese, LB-01S
1987 - 2014



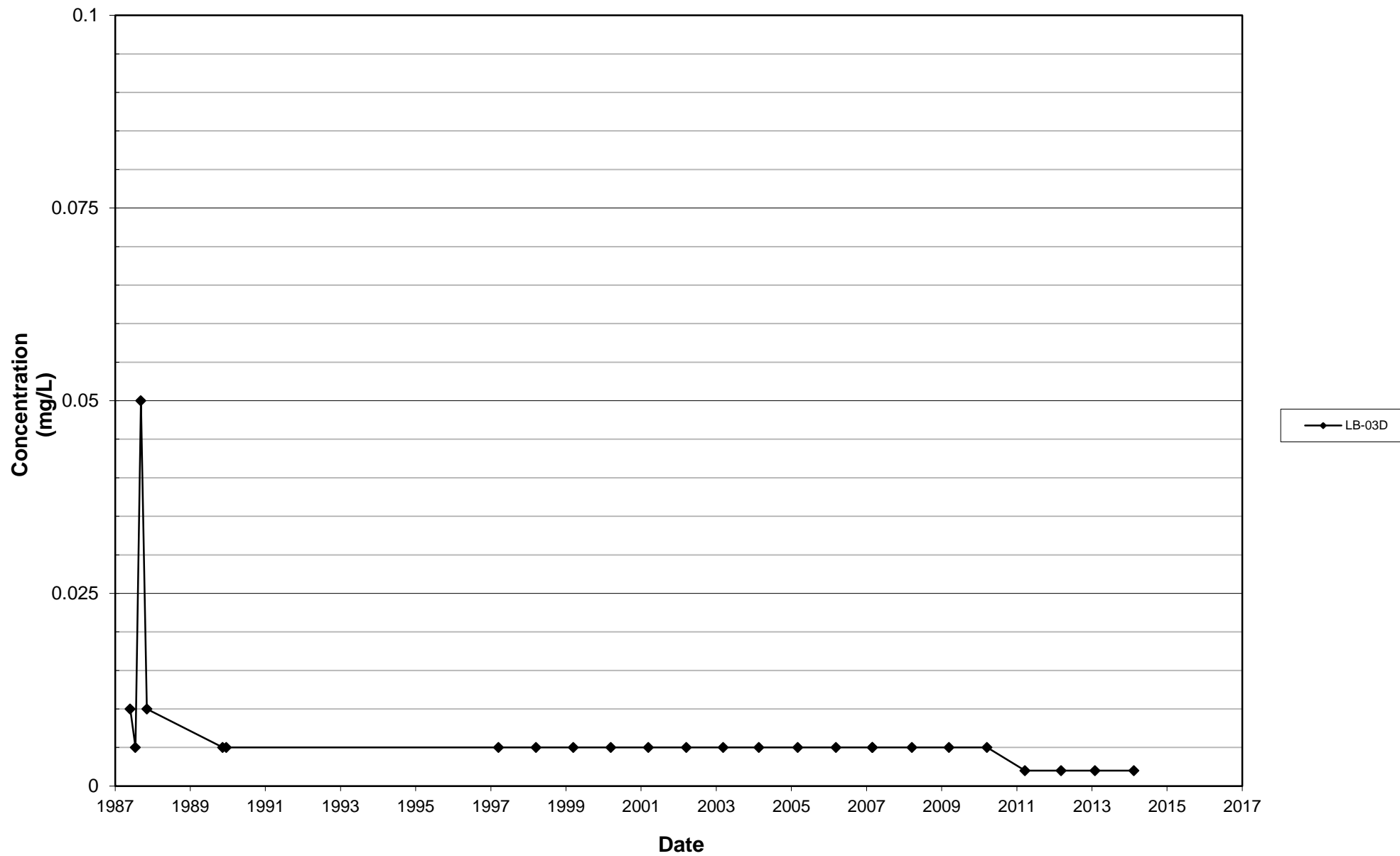
Leichner Landfill
Dissolved Manganese, LB-01D
1987 - 2014



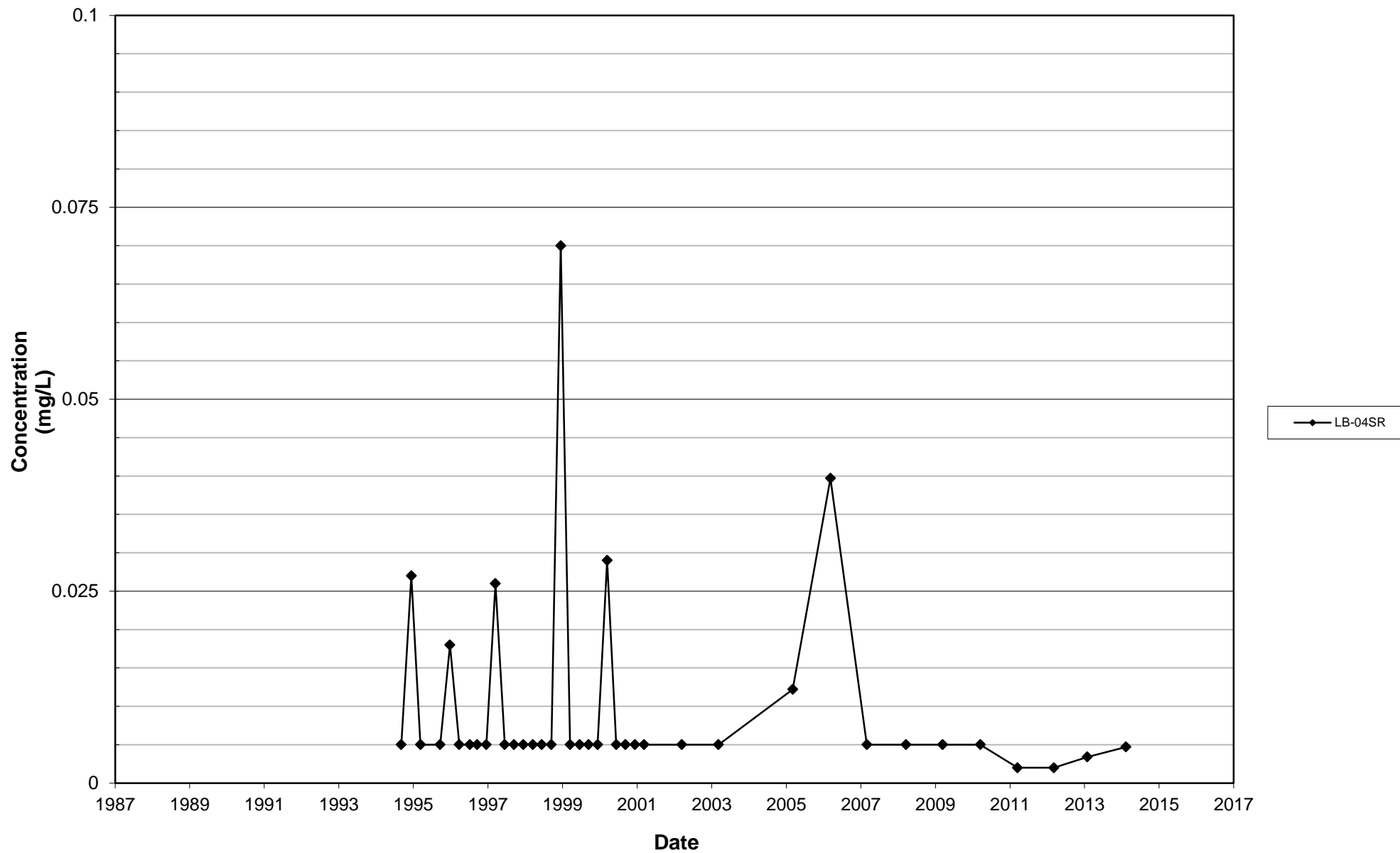
Leichner Landfill
Dissolved Manganese, LB-03S
1987 - 2014



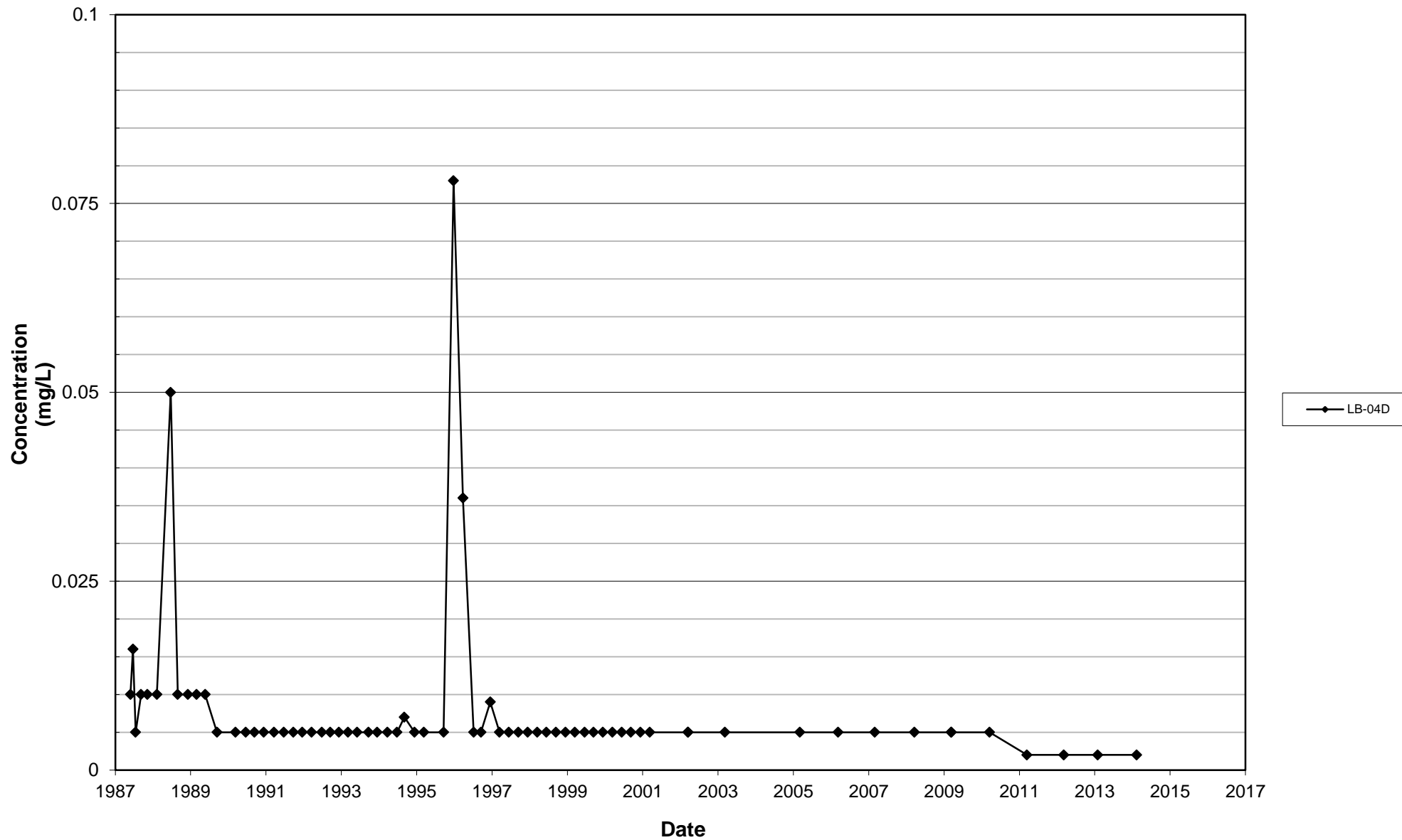
Leichner Landfill
Dissolved Manganese, LB-03D
1987 - 2014



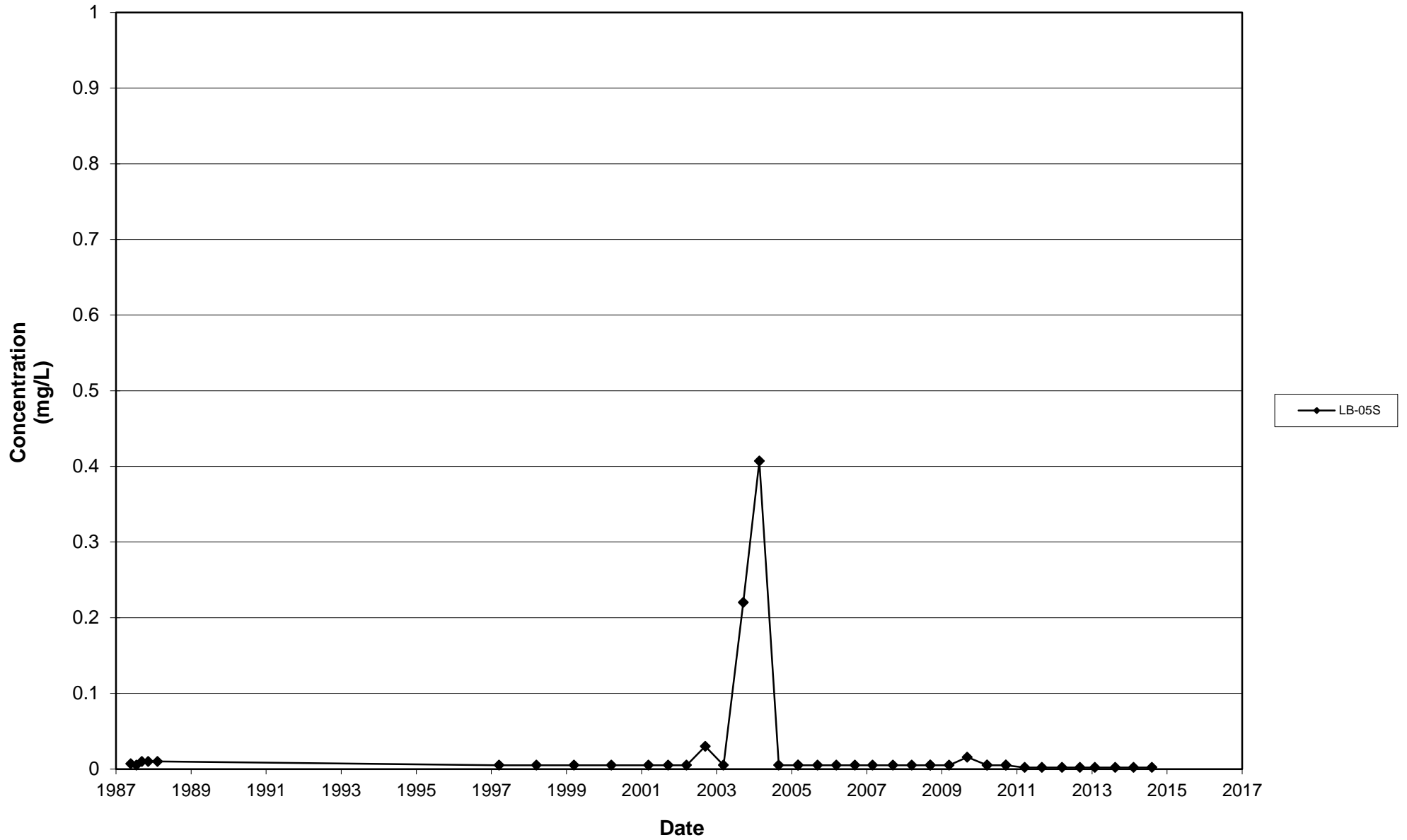
**Leichner Landfill
Dissolved Manganese, LB-04SR
1987 - 2014**



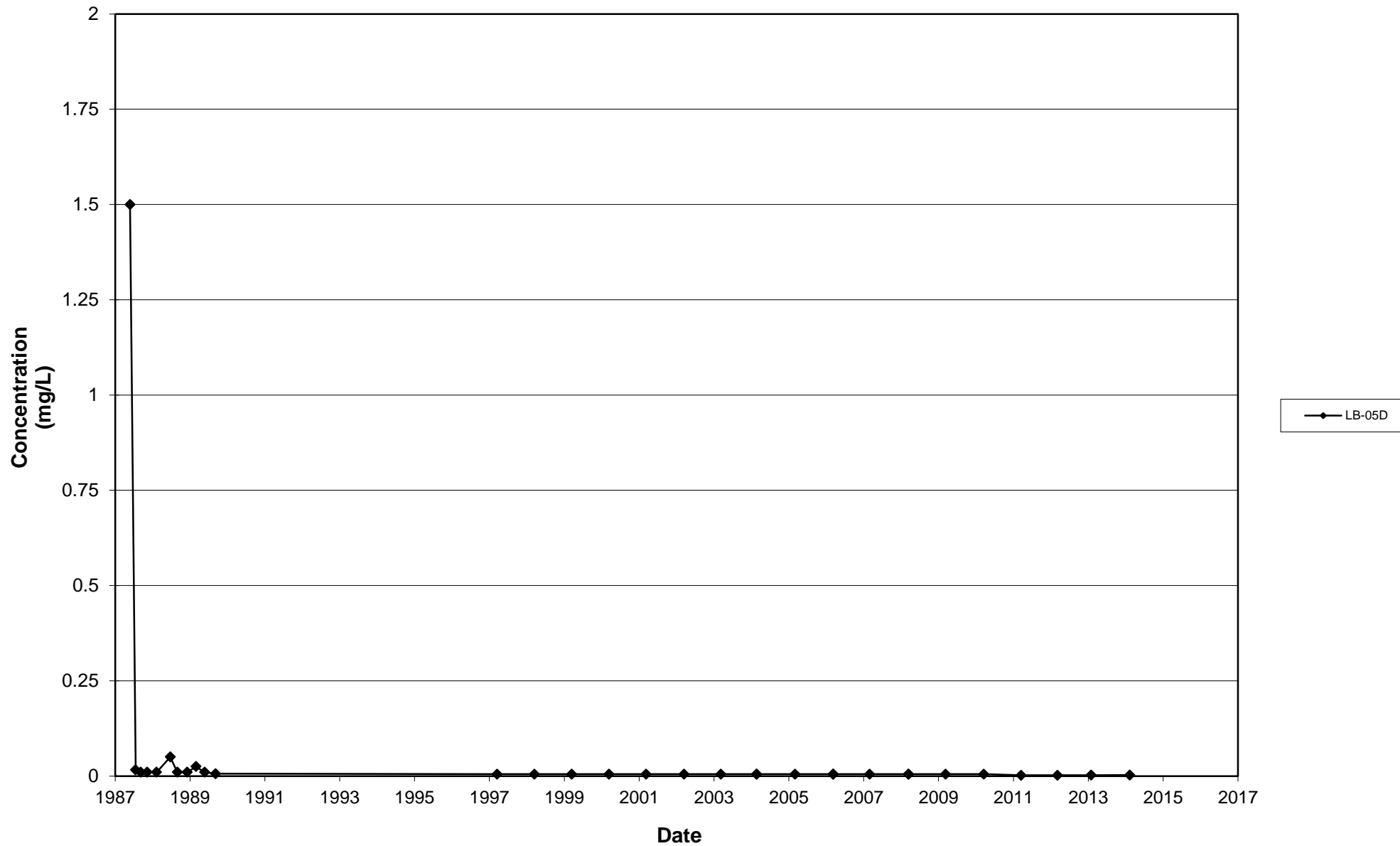
Leichner Landfill
Dissolved Manganese, LB-04D
1987 - 2014



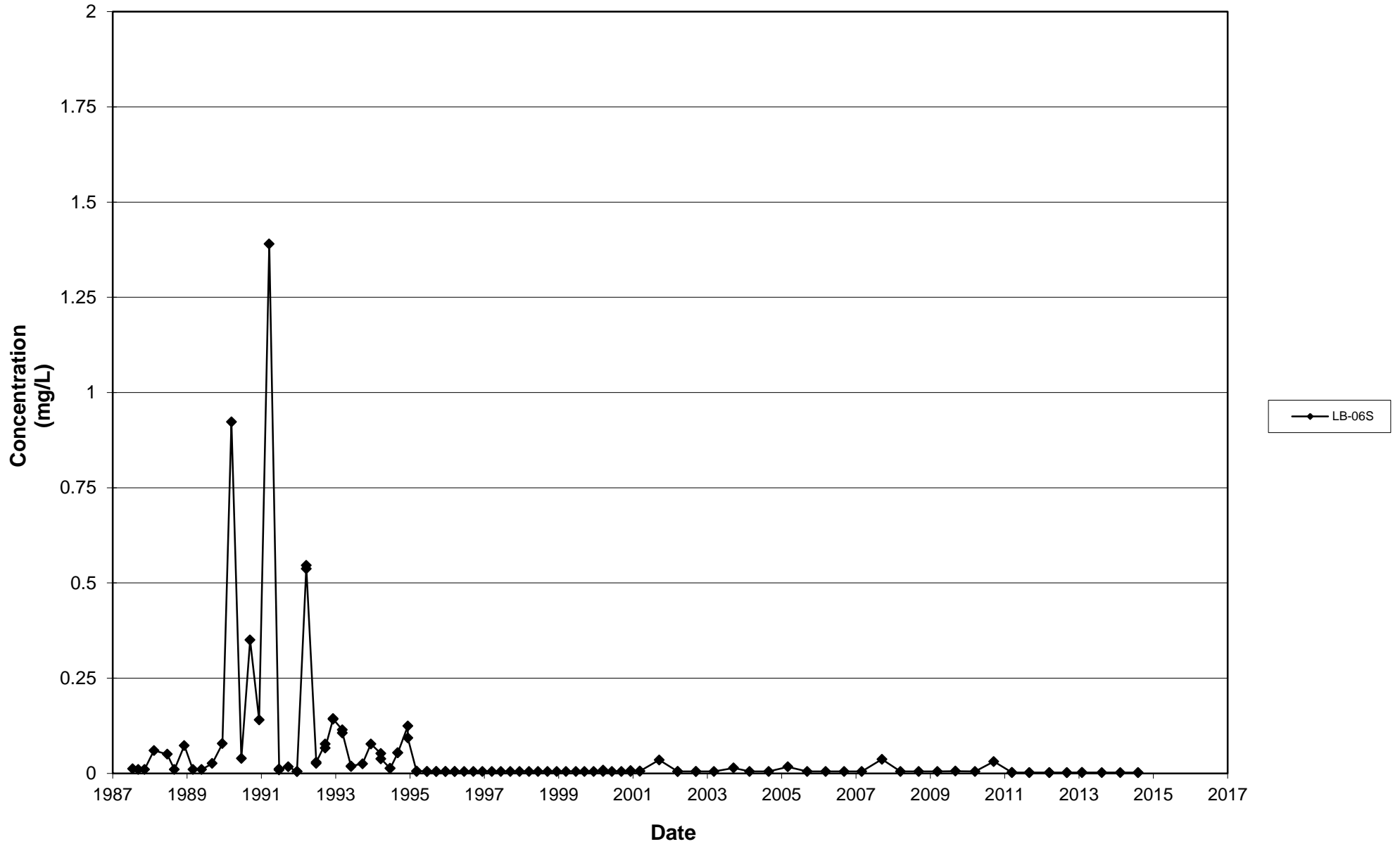
Leichner Landfill
Dissolved Manganese, LB-05S
1987 - 2014



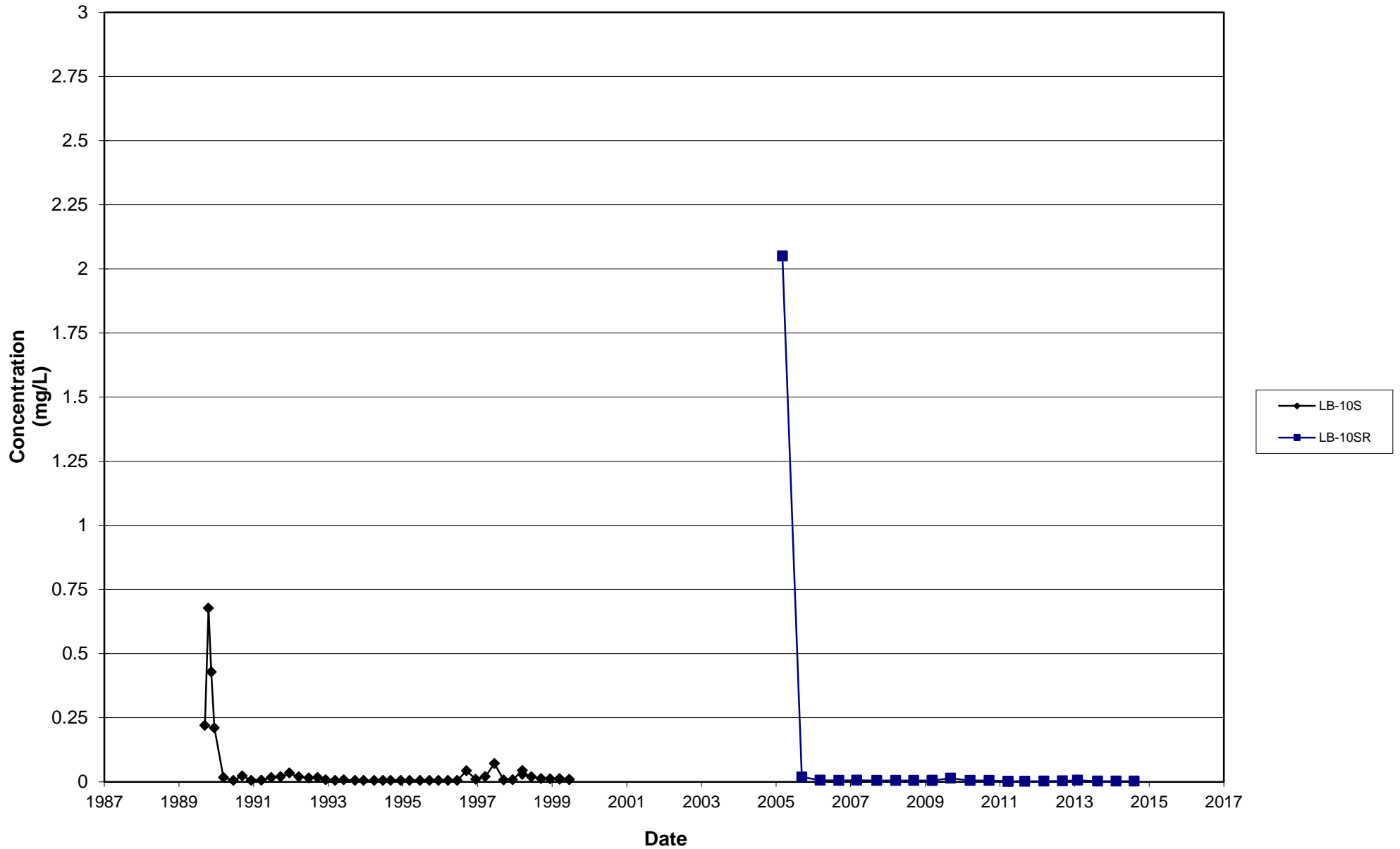
Leichner Landfill
Dissolved Manganese, LB-05D
1987 - 2014



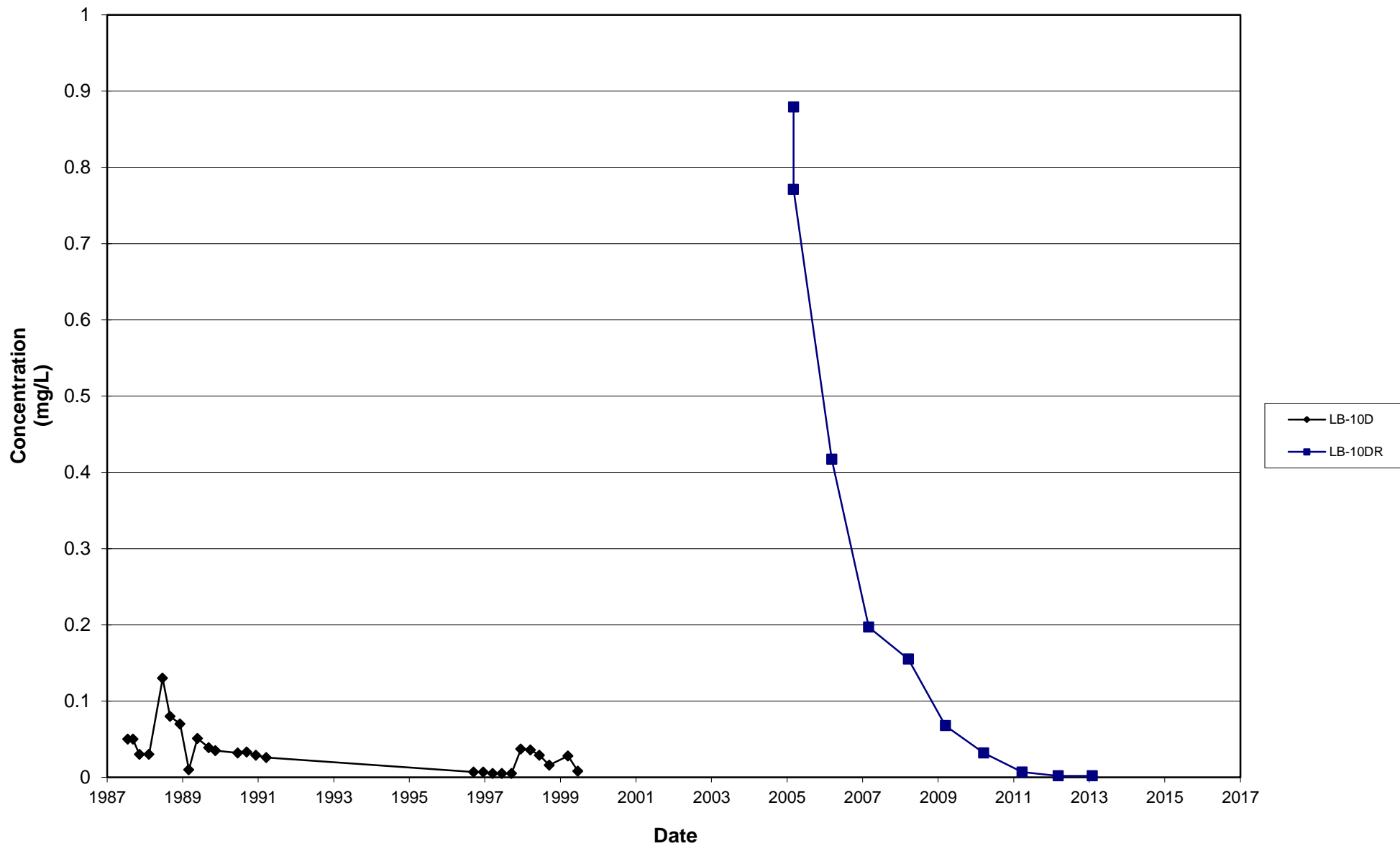
Leichner Landfill
Dissolved Manganese, LB-06S
1987 - 2014



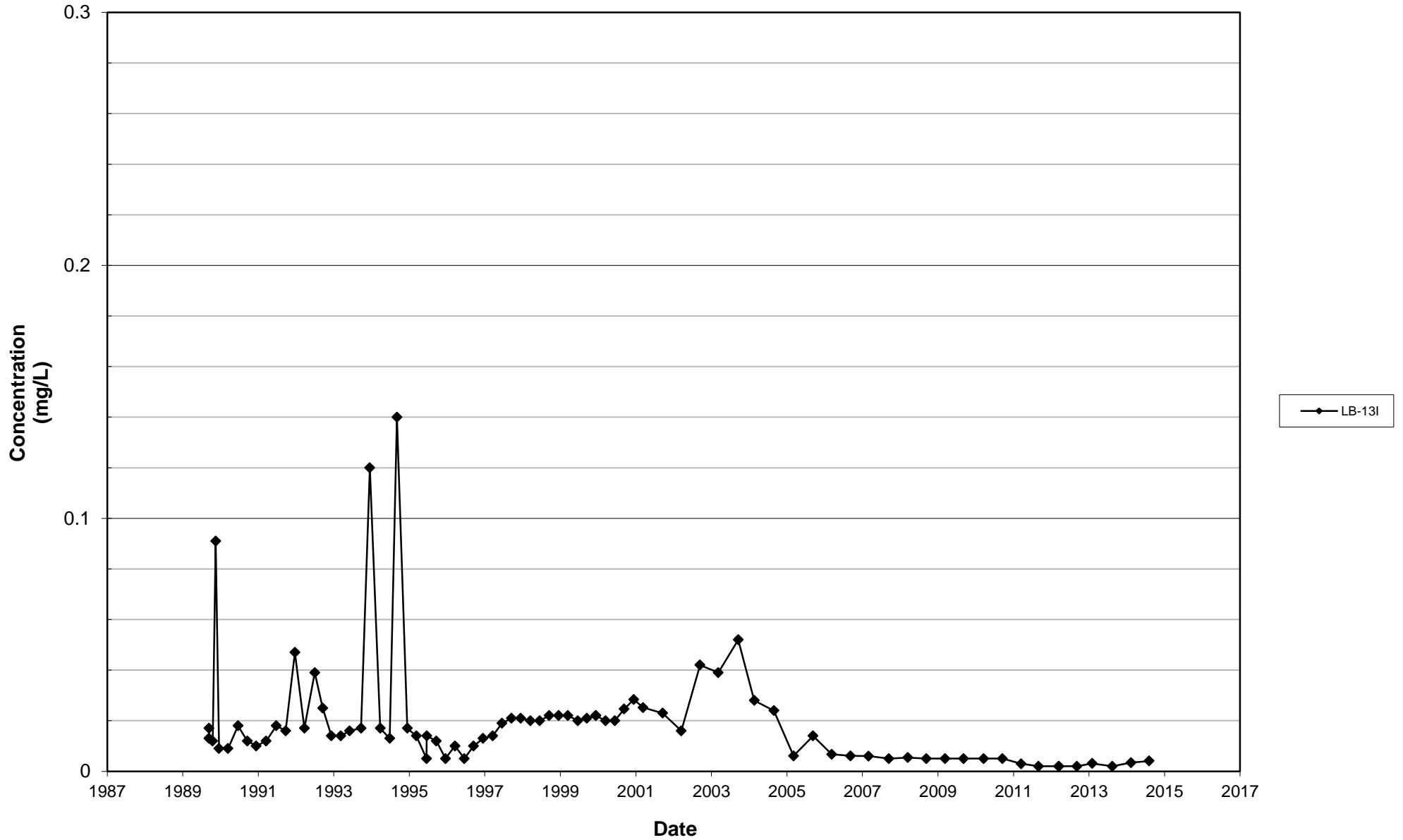
Leichner Landfill
Dissolved Manganese, LB-10S and LB-10SR
1987 - 2014



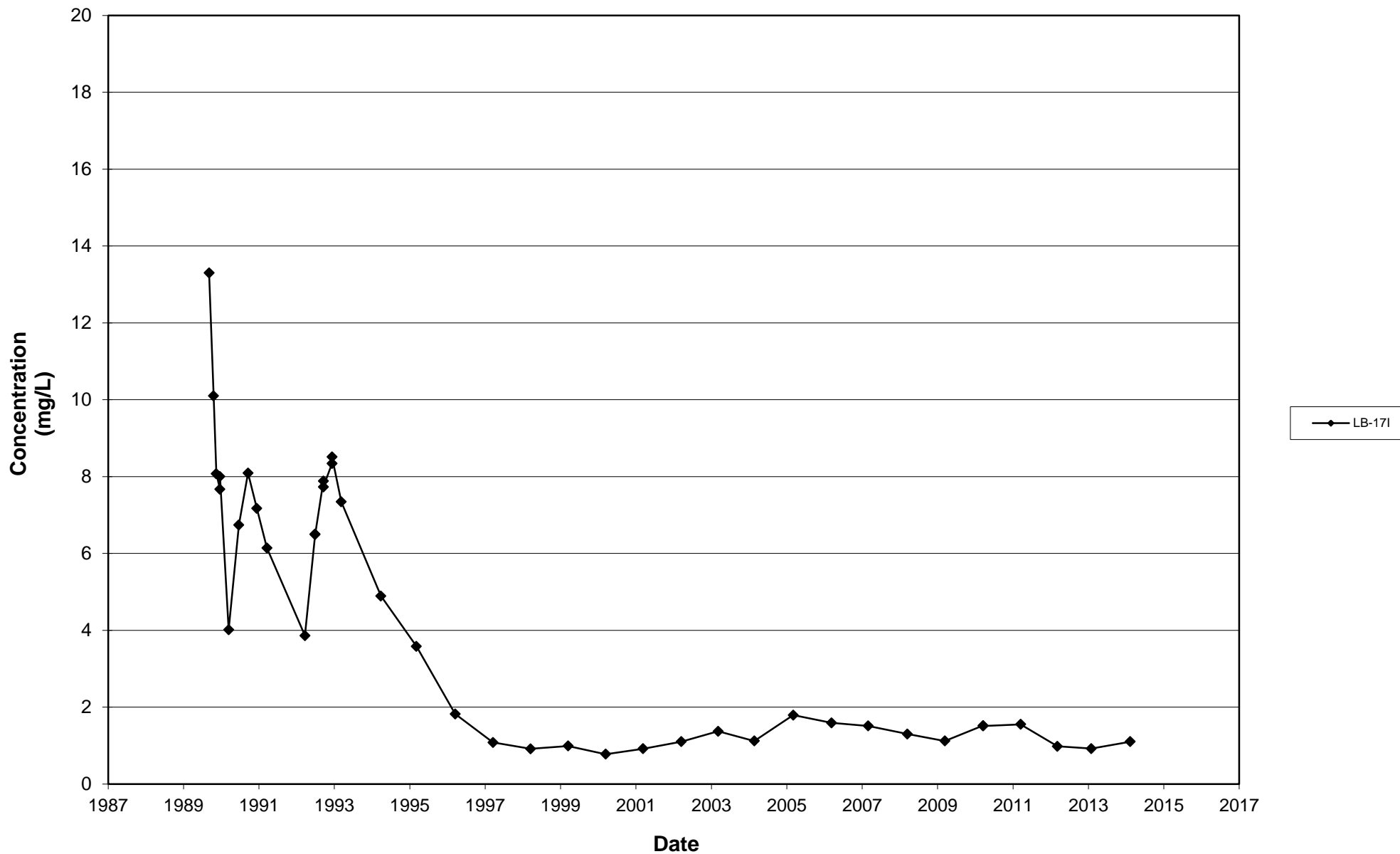
Leichner Landfill
Dissolved Manganese, LB-10D and LB-10DR
1987 - 2014



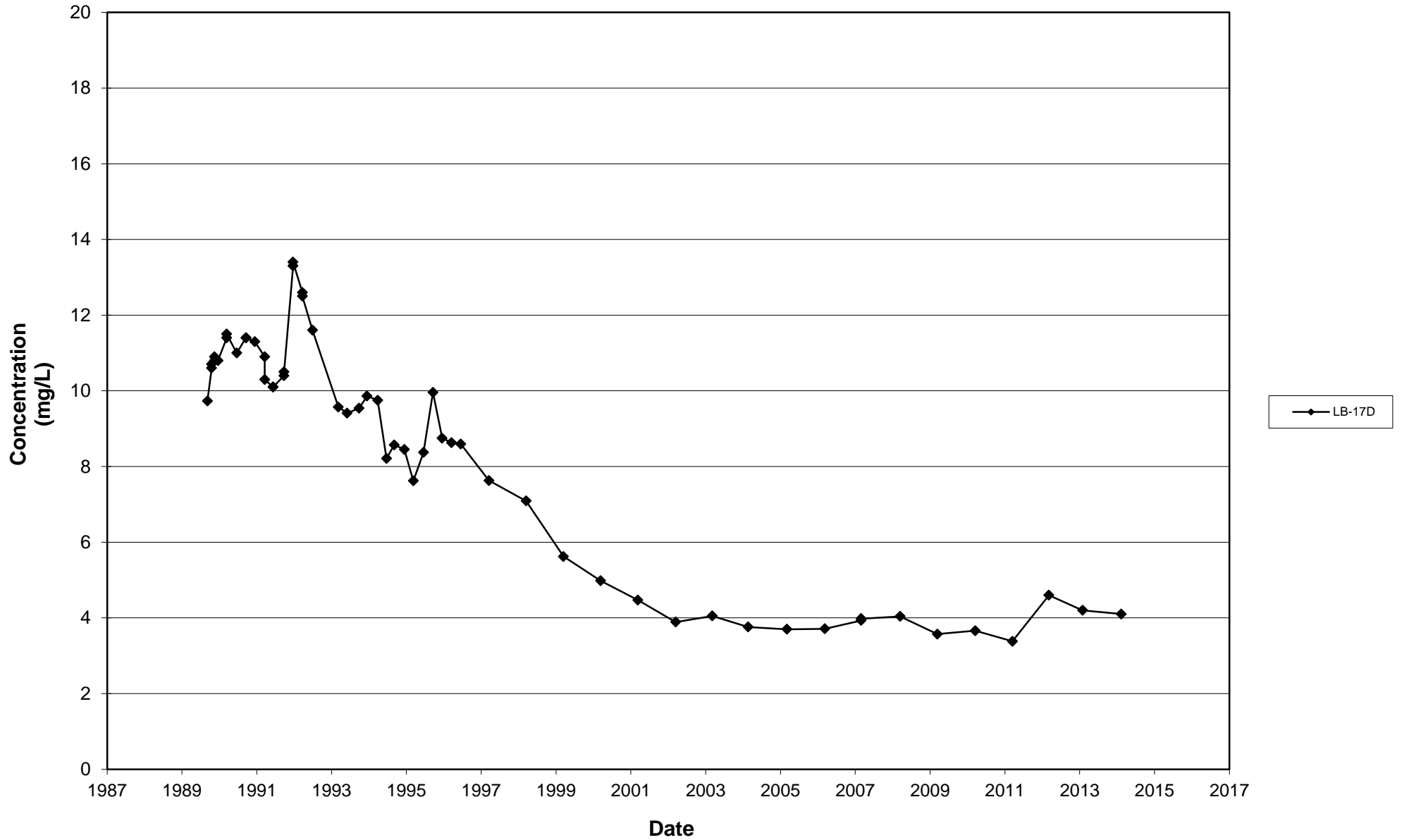
Leichner Landfill
Dissolved Manganese, LB-13I
1987 - 2014



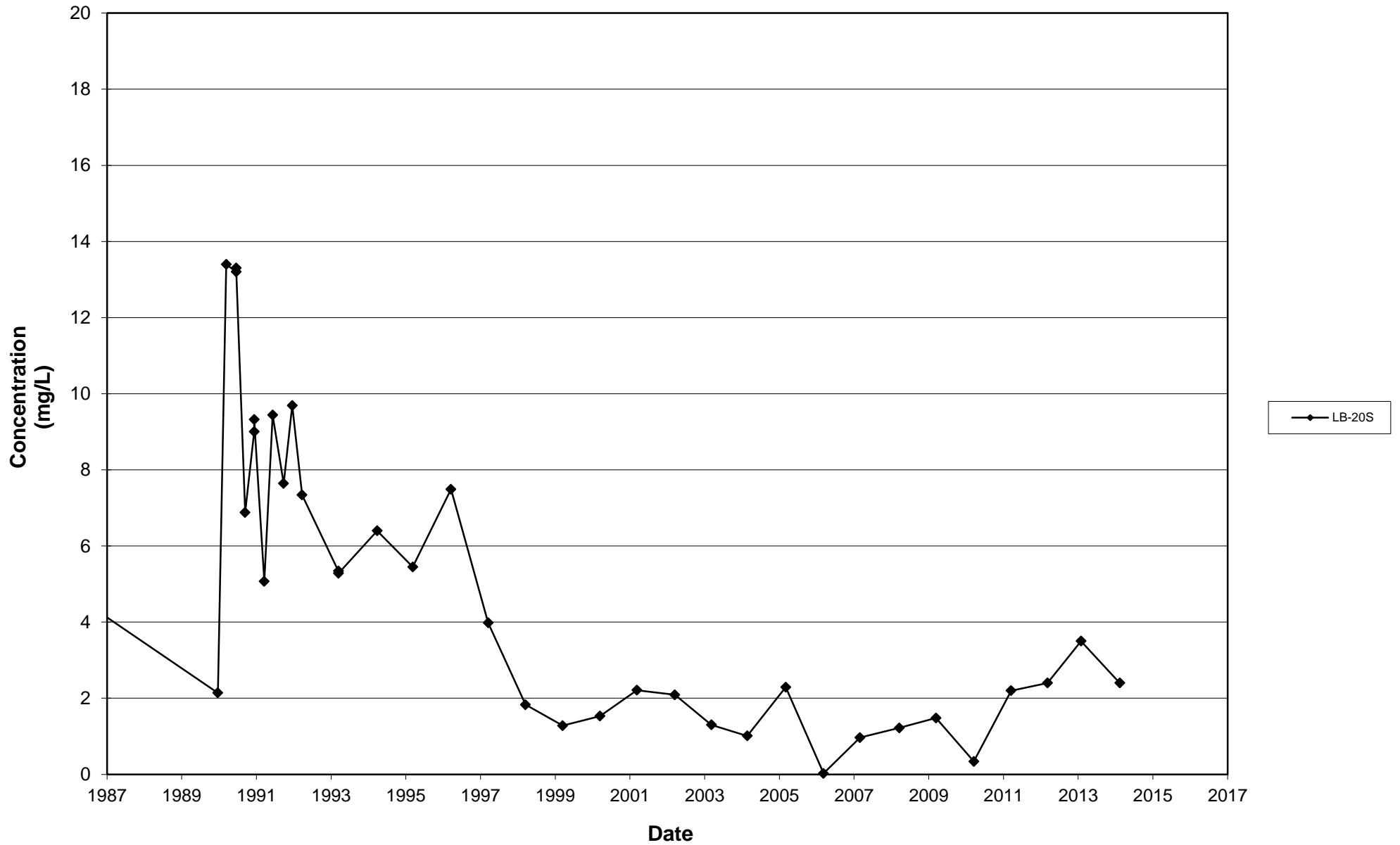
Leichner Landfill
Dissolved Manganese, LB-17I
1987 - 2014



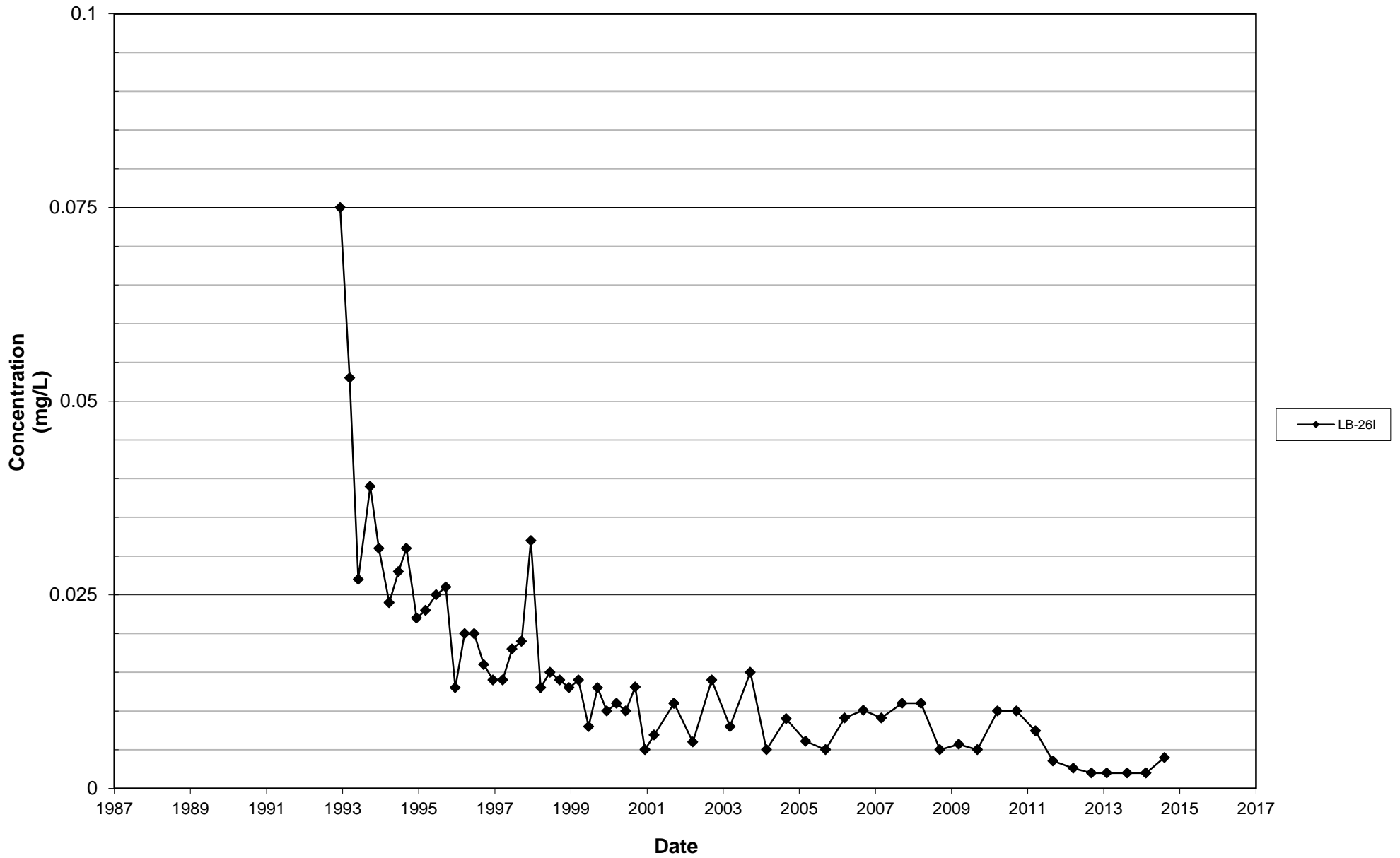
Leichner Landfill
Dissolved Manganese, LB-17D
1987 - 2014



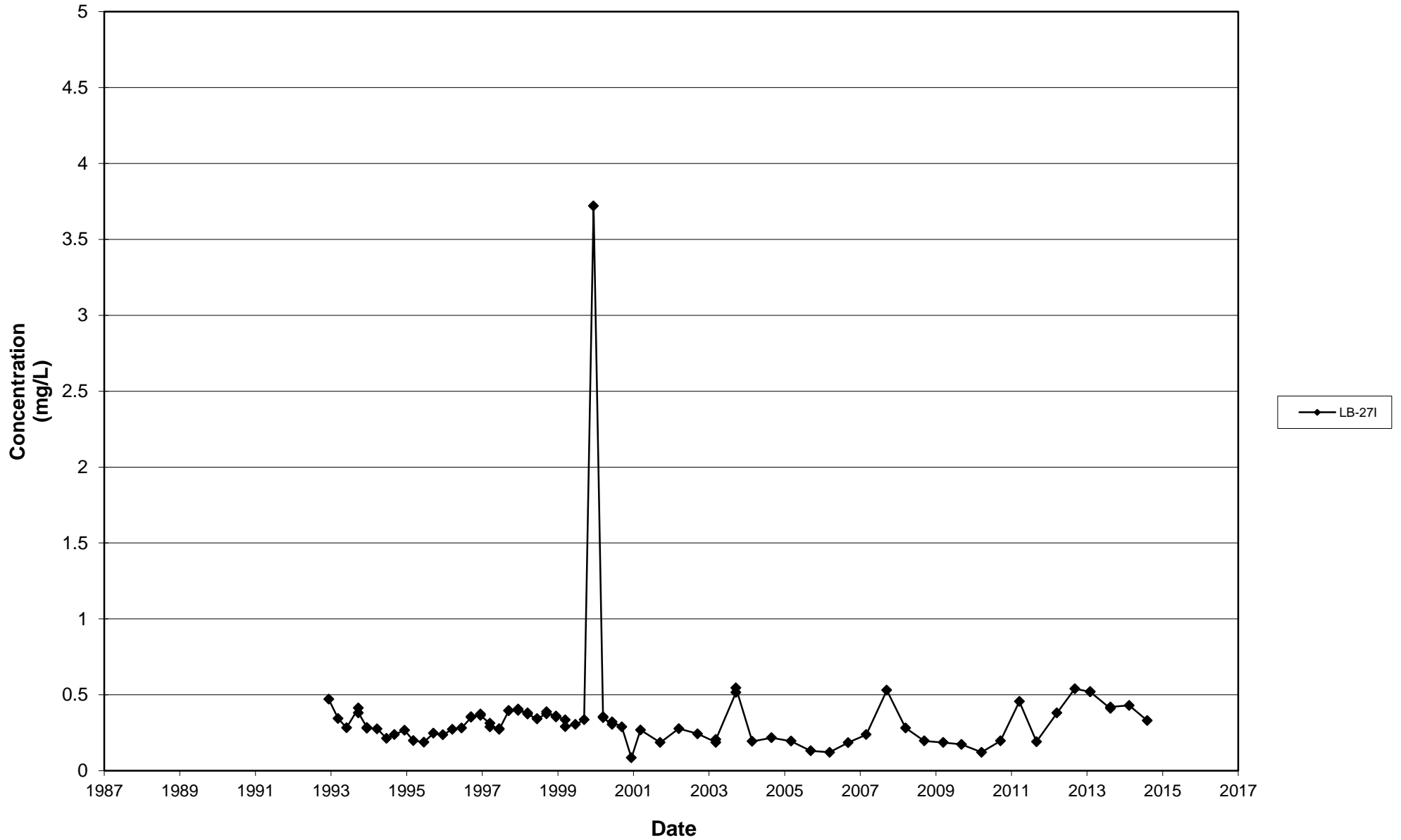
Leichner Landfill
Dissolved Manganese, LB-20S
1987 - 2014



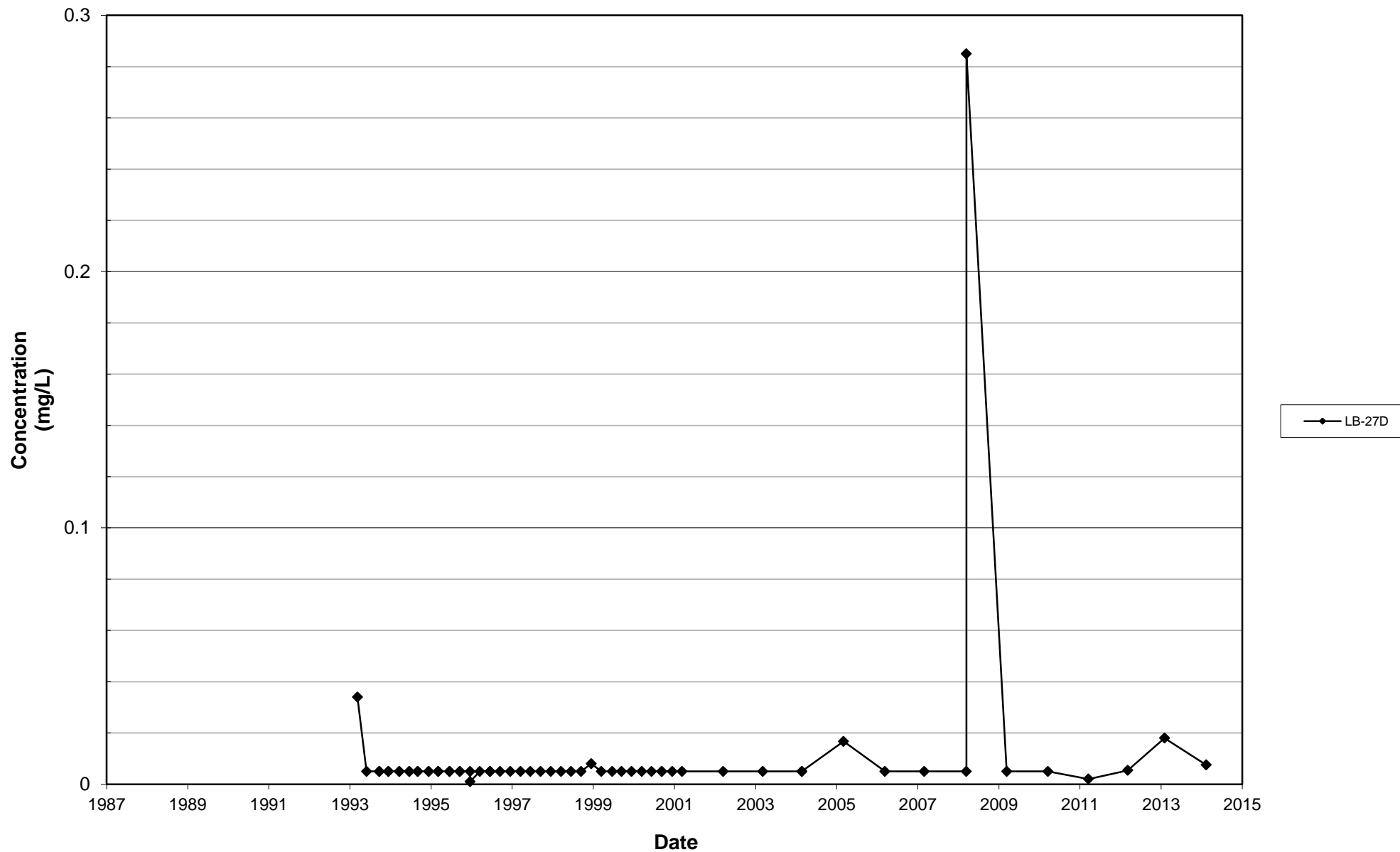
Leichner Landfill
Dissolved Manganese, LB-26I
1987 - 2014



Leichner Landfill
Dissolved Manganese, LB-27I
1987 - 2014



Leichner Landfill
Dissolved Manganese, LB-27D
1987 - 2014



APPENDIX H

2014 Landfill Gas Probe Monitoring Data

**2014 Compliance Landfill Gas Monitoring Probe Data
Leichner Landfill**

Probe	Date and Time	Methane (Percent by Volume)	Carbon Dioxide (Percent by Volume)	Oxygen (Percent by Volume)	Balance (Percent by Volume)	Relative Pressure (Inches of Water)
GP-1A	3/18/2014 10:04	0	2	18.9	79.1	0.03
GP-1A	5/30/2014 9:26	0	2.4	18.3	79.3	0.10
GP-1A	9/11/2014 9:00	0	1.9	19.5	78.6	-0.01
GP-1A	12/19/2014 10:47	0	2	19.2	78.8	0.08
GP-1B	3/18/2014 10:06	0	2	19	79	0.04
GP-1B	5/30/2014 9:27	0	2.2	18.4	79.4	0.10
GP-1B	9/11/2014 9:01	0	1.8	19.7	78.5	-0.01
GP-1B	12/19/2014 10:49	0	1.8	19.2	79	0.10
GP-02	3/18/2014 10:09	0	1.7	19	79.3	0.04
GP-02	5/30/2014 9:23	0	3.6	17	79.4	0.10
GP-02	9/11/2014 9:04	0	3.7	18.1	78.2	0.00
GP-02	12/19/2014 10:53	0	2.9	17.8	79.3	0.09
GP-03	3/18/2014 8:10	0	2	17.7	80.3	0.03
GP-03	5/30/2014 7:21	0	2.8	16.9	80.3	0.08
GP-03	9/11/2014 7:26	0	4.1	16.9	79	-0.03
GP-03	12/19/2014 10:42	0	3.4	16.8	79.8	0.04
GP-03	12/19/2014 10:58	0	1.5	20.4	78.1	0.07
GP-4A	3/18/2014 8:01	0	3.2	16.5	80.3	0.04
GP-4A	5/30/2014 7:15	0	3.2	16.2	80.6	-0.01
GP-4A	9/11/2014 7:18	0	3.2	17.5	79.3	-0.05
GP-4A	12/19/2014 11:08	0	2.3	16.4	81.3	0.08
GP-4B	3/18/2014 10:37	0	3.3	14.3	82.4	0.03
GP-4B	5/30/2014 7:16	0	3.8	13.3	82.9	0.10
GP-4B	9/11/2014 7:20	0	3.5	17.4	79.1	-0.04
GP-4B	12/19/2014 11:10	0	2.7	17	80.3	0.11
GP-05	3/18/2014 7:58	0	3.7	16.4	79.9	0.04
GP-05	5/30/2014 7:12	0	4	15.9	80.1	0.10
GP-05	9/11/2014 7:16	0	4.5	15.8	79.7	-0.06
GP-05	12/19/2014 10:38	0	4.6	14.8	80.6	0.05
GP-06	3/18/2014 7:43	0	4.1	14.9	81	0.08
GP-06	5/30/2014 7:06	0	5.1	14.1	80.8	0.12
GP-06	9/11/2014 7:09	0	5.4	14.1	80.5	-0.07
GP-06	12/19/2014 10:31	0	5.4	12.9	81.7	-0.05
GP-07	3/18/2014 9:59	4.1	4.4	7.1	84.4	0.03
GP-07	5/30/2014 7:09	3.8	11.6	5	79.6	0.11
GP-07	9/11/2014 7:12	3.3	15.9	0.7	80.1	-0.07
GP-07	12/19/2014 9:49	10.1	10.5	0	79.4	-0.02
GP-07	12/19/2014 13:08	9.6	10.1	0	80.3	0.11
GP-07	12/22/2014 11:48	5.9	7.3	0	86.8	0.00
GP-07	12/22/2014 13:53	5.7	7.3	0	87	-17.01
GP-8R	3/18/2014 8:05	0	1.2	19.5	79.3	0.03
GP-8R	5/30/2014 7:19	0	1.8	18.6	79.6	0.10



**2014 Compliance Landfill Gas Monitoring Probe Data
Leichner Landfill**

Probe	Date and Time	Methane (Percent by Volume)	Carbon Dioxide (Percent by Volume)	Oxygen (Percent by Volume)	Balance (Percent by Volume)	Relative Pressure (Inches of Water)
GP-8R	9/11/2014 7:23	0	1.9	19.8	78.3	-0.04
GP-8R	12/19/2014 11:04	0	0.8	19.9	79.3	0.03
GP-9A	3/18/2014 8:27	0	4.4	15.5	80.1	0.01
GP-9A	5/30/2014 7:47	0	8.2	10.6	81.2	0.01
GP-9A	9/11/2014 7:38	0	9.3	7.6	83.1	-0.05
GP-9A	12/19/2014 11:18	13.9	17.9	0	68.2	-0.01
GP-9A	12/22/2014 11:39	11.4	19.1	0	69.5	0.00
GP-9A	12/22/2014 14:00	10.7	18.8	0	70.5	-0.02
GP-9B	3/18/2014 8:28	1.1	13	2.7	83.2	0.01
GP-9B	5/30/2014 7:49	1.2	14.8	0.8	83.2	0.00
GP-9B	9/11/2014 7:39	0.7	16.9	0	82.4	-0.05
GP-9B	12/19/2014 11:20	1.1	14.7	0.2	84	-0.08
GP-10A	3/18/2014 8:23	0	5.3	11.2	83.5	0.01
GP-10A	5/30/2014 7:51	0	6.6	10.8	82.6	0.01
GP-10A	9/11/2014 7:41	0	6.9	12.6	80.5	-0.06
GP-10A	12/19/2014 11:23	0	8.5	11.3	80.2	0.02
GP-10B	3/18/2014 8:25	0	2.7	18	79.3	0.00
GP-10B	5/30/2014 7:52	0	2.6	17.5	79.9	0.02
GP-10B	9/11/2014 7:43	0	1.9	19.3	78.8	-0.03
GP-10B	12/19/2014 11:24	0	4.4	17.6	78	0.11
GP-11	3/18/2014 8:21	0	0.9	19.4	79.7	0.00
GP-11	5/30/2014 7:55	0	2.7	15.9	81.4	0.02
GP-11	9/11/2014 7:45	0	2.1	18.8	79.1	-0.04
GP-11	12/19/2014 11:27	0	2.5	18.6	78.9	0.03
GP-12	3/18/2014 8:18	0	0.7	21	78.3	0.00
GP-12	5/30/2014 7:57	0	0.8	20.3	78.9	-0.48
GP-12	9/11/2014 7:47	0	0.7	20.5	78.8	-0.03
GP-12	12/19/2014 11:29	0	1.4	20.3	78.3	-0.03
GP-13	3/18/2014 8:33	0	2.3	17.4	80.3	0.02
GP-13	5/30/2014 7:59	0	2.1	17.3	80.6	0.03
GP-13	9/11/2014 7:50	0	2.1	18.9	79	-0.04
GP-13	12/19/2014 11:38	0	1.9	17.4	80.7	0.02
GP-14	3/18/2014 8:36	0	1	20.5	78.5	0.02
GP-14	5/30/2014 8:10	0	0.8	20.2	79	0.03
GP-14	9/11/2014 7:53	0	0.5	20.7	78.8	-0.02
GP-14	12/19/2014 11:41	0	1.3	20.1	78.6	0.06
GP-15	3/18/2014 8:40	0	1.1	20.2	78.7	0.01
GP-15	5/30/2014 8:08	0	1.2	19.4	79.4	-0.24
GP-15	9/11/2014 7:56	0	1.7	19.4	78.9	-0.01
GP-15	12/19/2014 11:43	0	1.4	19.8	78.8	0.07
GP-16D	3/18/2014 8:45	0	1.6	19.6	78.8	0.01
GP-16D	5/30/2014 8:16	0	2.6	17.7	79.7	0.05



**2014 Compliance Landfill Gas Monitoring Probe Data
Leichner Landfill**

Probe	Date and Time	Methane (Percent by Volume)	Carbon Dioxide (Percent by Volume)	Oxygen (Percent by Volume)	Balance (Percent by Volume)	Relative Pressure (Inches of Water)
GP-16D	9/11/2014 8:01	0	4.7	16.8	78.5	-0.02
GP-16D	12/19/2014 11:48	0	2	19	79	-0.01
GP-16S	3/18/2014 8:47	0	1	20.4	78.6	0.01
GP-16S	5/30/2014 8:18	0	1.9	19	79.1	-0.36
GP-16S	9/11/2014 8:03	0	2	19.3	78.7	-0.01
GP-16S	12/19/2014 11:51	0	2.1	20	77.9	0.06
GP-17D	3/18/2014 8:50	0	4	16.4	79.6	0.00
GP-17D	5/30/2014 8:22	0	7.3	14.3	78.4	0.06
GP-17D	9/11/2014 8:06	0	4.4	17.5	78.1	-0.01
GP-17D	12/19/2014 11:53	0	3.4	16.9	79.7	0.05
GP-17S	3/18/2014 8:52	0	3.6	17.6	78.8	0.00
GP-17S	5/30/2014 8:23	0	4.2	17.5	78.3	0.06
GP-17S	9/11/2014 8:07	0	3.1	18.7	78.2	-0.02
GP-17S	12/19/2014 11:55	0	3.7	18	78.3	0.03
GP-18D	3/18/2014 8:59	0	2.5	18.6	78.9	0.00
GP-18D	5/30/2014 8:32	0	2.5	18.1	79.4	0.06
GP-18D	9/11/2014 8:13	0	2.9	18.1	79	-0.02
GP-18D	12/19/2014 11:59	0	3.2	18	78.8	0.08
GP-18S	3/18/2014 9:01	0	1.5	20	78.5	0.01
GP-18S	5/30/2014 8:33	0	1.5	19.4	79.1	0.00
GP-18S	9/11/2014 8:15	0	1.5	19.8	78.7	-0.02
GP-18S	12/19/2014 12:00	0	2.2	19.3	78.5	0.09
GP-19D	3/18/2014 9:07	0	2.4	18.9	78.7	0.01
GP-19D	5/30/2014 8:38	0	2.2	18.8	79	0.07
GP-19D	9/11/2014 8:19	0	3	18.1	78.9	-0.01
GP-19D	12/19/2014 12:05	0	2.4	17.8	79.8	0.10
GP-19S	3/18/2014 9:08	0	1.4	20.4	78.2	-0.05
GP-19S	5/30/2014 8:40	0	1.5	19.5	79	0.06
GP-19S	9/11/2014 8:21	0	1.8	19.4	78.8	-0.02
GP-19S	12/19/2014 12:07	0	2.7	18	79.3	0.16
GP-20	3/18/2014 9:15	0	8.9	6.7	84.4	0.02
GP-20	5/30/2014 8:47	0	8.3	9.3	82.4	0.09
GP-20	9/11/2014 8:27	0	8.7	10	81.3	0.00
GP-20	12/19/2014 12:14	0	9.3	4.5	86.2	0.15
GP-21A	3/18/2014 10:45	0	0.6	20.5	78.9	0.04
GP-21A	5/30/2014 8:55	0	1	20.2	78.8	0.10
GP-21A	9/11/2014 8:34	0	1	20.4	78.6	0.00
GP-21A	12/19/2014 12:21	0	2.2	19.1	78.7	-0.01
GP-21B	3/18/2014 9:22	0	1.5	20	78.5	0.03
GP-21B	5/30/2014 8:57	0	1.3	19.7	79	0.10
GP-21B	9/11/2014 8:35	0	1.5	19.5	79	0.00
GP-21B	12/19/2014 12:23	0	1.9	18	80.1	-0.03



**2014 Compliance Landfill Gas Monitoring Probe Data
Leichner Landfill**

Probe	Date and Time	Methane (Percent by Volume)	Carbon Dioxide (Percent by Volume)	Oxygen (Percent by Volume)	Balance (Percent by Volume)	Relative Pressure (Inches of Water)
GP-22	3/18/2014 9:25	0	1	20.5	78.5	0.03
GP-22	5/30/2014 8:59	0	1.1	20	78.9	0.10
GP-22	9/11/2014 8:37	0	0.7	20.6	78.7	0.00
GP-22	12/19/2014 12:25	0	1.5	19.6	78.9	0.00
GP-23	3/18/2014 9:27	0	1.1	20.3	78.6	0.02
GP-23	5/30/2014 9:01	0	1.6	19.5	78.9	0.10
GP-23	9/11/2014 8:39	0	0.8	20.4	78.8	0.00
GP-23	12/19/2014 12:27	0	1.6	19.5	78.9	-0.04
GP-24A	3/18/2014 10:42	0	0.5	20.7	78.8	0.03
GP-24A	5/30/2014 9:04	0	1	19.9	79.1	0.10
GP-24A	9/11/2014 8:42	0	0.2	20.9	78.9	0.00
GP-24A	12/19/2014 12:29	0	1.4	19.7	78.9	-0.03
GP-24B	3/18/2014 9:30	0	0.5	20.8	78.7	0.03
GP-24B	5/30/2014 9:05	0	1.3	19.7	79	0.11
GP-24B	9/11/2014 8:43	0	0.2	20.9	78.9	0.00
GP-24B	12/19/2014 12:31	0	0.9	20	79.1	-0.01
GP-25A	3/18/2014 9:39	0	2.3	19.1	78.6	0.03
GP-25A	5/30/2014 9:12	0	3	18	79	0.11
GP-25A	9/11/2014 8:50	0	1.7	19.5	78.8	0.01
GP-25A	12/19/2014 12:37	0	2.3	18.8	78.9	0.00
GP-25B	3/18/2014 9:41	0	3.7	17.1	79.2	0.03
GP-25B	5/30/2014 9:13	0	4.1	16.6	79.3	0.11
GP-25B	9/11/2014 8:51	0	4.7	15.7	79.6	0.03
GP-25B	12/19/2014 12:40	0	3.7	17.1	79.2	-0.02
GP-26	3/18/2014 7:13	0	0.4	20.9	78.7	0.19
GP-26	5/30/2014 6:43	0	0.7	20.9	78.4	0.13
GP-26	9/11/2014 6:36	0	0.4	20.7	78.9	-0.09
GP-26	12/19/2014 12:46	0	0.8	20.2	79	0.00
GP-27	3/18/2014 7:15	0	0.5	20.8	78.7	0.20
GP-27	5/30/2014 6:46	0	0.6	20	79.4	0.14
GP-27	9/11/2014 6:40	0	0.8	20.6	78.6	-0.12
GP-27	12/19/2014 12:49	0	0.8	20	79.2	0.00
GP-28	3/18/2014 7:04	0	3.4	14.2	82.4	0.20
GP-28	5/30/2014 6:50	0	4.8	13.6	81.6	0.15
GP-28	9/11/2014 6:46	0	5.1	17.1	77.8	-0.06
GP-28	12/19/2014 10:06	0	5	13.9	81.1	-0.02
GP-29	3/18/2014 7:37	0	4.7	10.9	84.4	0.10
GP-29	5/30/2014 7:03	0	5.7	9.9	84.4	0.36
GP-29	9/11/2014 7:06	0	7	9.5	83.5	-0.09
GP-29	12/19/2014 10:23	0	6.9	8.5	84.6	0.00
GP-30A	3/18/2014 7:32	0	2.6	17.2	80.2	-0.21
GP-30A	5/30/2014 6:58	0	4.9	15	80.1	-1.17



**2014 Compliance Landfill Gas Monitoring Probe Data
Leichner Landfill**

Probe	Date and Time	Methane (Percent by Volume)	Carbon Dioxide (Percent by Volume)	Oxygen (Percent by Volume)	Balance (Percent by Volume)	Relative Pressure (Inches of Water)
GP-30A	9/11/2014 7:00	0	5	15.9	79.1	-0.16
GP-30A	12/19/2014 10:12	0	5.6	14.1	80.3	-0.01
GP-30B	3/18/2014 7:34	0	3.3	17	79.7	-0.01
GP-30B	5/30/2014 6:59	0	4.9	15.6	79.5	0.23
GP-30B	9/11/2014 7:02	0	4.9	16.3	78.8	-0.23
GP-30B	12/19/2014 10:16	0	3.9	16.3	79.8	0.04
GP-31	3/18/2014 9:04	0	1.2	20.3	78.5	0.02
GP-31	5/30/2014 8:36	0	1.1	19.9	79	0.07
GP-31	9/11/2014 8:17	0	1.2	20.1	78.7	-0.02
GP-31	12/19/2014 12:02	0	1.8	19.5	78.7	0.10
GP-32	3/18/2014 9:10	0	1.9	19.2	78.9	0.02
GP-32	5/30/2014 8:43	0	1.8	19.2	79	0.07
GP-32	9/11/2014 8:23	0	1.9	19	79.1	-0.02
GP-32	12/19/2014 12:09	0	2.8	17.1	80.1	0.12
GP-33	3/18/2014 9:13	0	1.6	19.1	79.3	0.02
GP-33	5/30/2014 8:45	0	1.8	19.1	79.1	0.08
GP-33	9/11/2014 8:25	0	3.9	11.2	84.9	0.01
GP-33	12/19/2014 12:12	0	6.9	7.1	86	0.14
GP-34	3/18/2014 9:18	0	3.6	16	80.4	0.03
GP-34	5/30/2014 8:51	0	3.1	16.7	80.2	0.08
GP-34	9/11/2014 8:29	0	4.1	14.7	81.2	0.01
GP-34	12/19/2014 12:16	0	6.8	11.6	81.6	0.16
GP-35	3/18/2014 9:20	0	2.3	17.5	80.2	0.02
GP-35	5/30/2014 8:53	0	2.1	17.7	80.2	0.09
GP-35	9/11/2014 8:31	0	3	17.4	79.6	0.00
GP-35	12/19/2014 12:19	0	4.4	12.5	83.1	-0.02
GP-36	3/18/2014 9:33	0	1.3	19.8	78.9	0.03
GP-36	5/30/2014 9:07	0	1.3	19.2	79.5	0.11
GP-36	9/11/2014 8:45	0	1.7	18.3	80	0.00
GP-36	12/19/2014 12:33	0	1.1	18.7	80.2	0.00
GP-37	3/18/2014 9:37	0	2.9	17.9	79.2	0.03
GP-37	5/30/2014 9:10	0	2.8	18.3	78.9	0.10
GP-37	9/11/2014 8:47	0	1.8	19.1	79.1	0.03
GP-37	12/19/2014 12:35	0	2.2	17.9	79.9	-0.01
GP-38	3/18/2014 7:08	0	1.7	19.9	78.4	0.20
GP-38	5/30/2014 6:39	0	1	19.9	79.1	0.12
GP-38	9/11/2014 6:34	0	1.4	19.6	79	-0.12
GP-38	12/19/2014 12:44	0	1.6	19.2	79.2	0.04

