Environmental Consultants
and Contractors

14945 SW Sequoia Parkway
Suite 180
Portland, OR 97224

503 639-9201
FAX 503 6584-6948
www.scsengineers.com

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LETTER OF TRANSMITTAL

TO Washington Department of Ecology
Southwest Region
300 Desmond Drive
Lacey, WA 98503

DATE February 27, 2014
JOB NO. 04214030.06/.08
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RE:

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REMARKS: SCS Engineers is submitting the enclosed report on behalf of and as approved by Mr. Mike Davis of Clark County, Environmental Services.
Only electronic copies were sent (via email) to the Leichner Landfill Oversight Committee members listed below except for CCPH (sent 1 hard copy).

COPY TO: Mike Davis (Clark County)
Joe Laxson (CCPH)
Melissa Sutton (CCPH)
Brian Carlson (City of Vancouver)
Craig Leichner (LBLRC)
Mark Leichner (LBLRC)

SIGNED Louis Caruso

SCS ENGINEERS







2013 Fourth Quarter and Annual Report

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

Prepared for:

Clark County
Bureau of Environmental Services
1300 Franklin St, 6th Fl, Ste 650
Vancouver, WA 98660
(360) 397-2323

Prepared by:

SCS ENGINEERS
14945 SW Sequoia Parkway, Suite 180
Portland, OR 97224
(503) 639-9201

February 27, 2014
File No. 04214030.06/.18

SCS ENGINEERS

2013 Fourth Quarter and Annual Report

Closed Leichner Landfill
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Prepared for:

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1300 Franklin St, 6th Fl, Ste 650
Vancouver, WA 98660
(360) 397-2323

Prepared by:

SCS ENGINEERS
14945 SW Sequoia Parkway, Suite 180
Portland, OR 97224
(503) 639-9201

State of Washington
1329
Licensed Geologist
LOUIS J. CARUSO

February 27, 2014
File No. 04214030.06./.18

Tiffany Andrews
Staff Environmental Professional
SCS ENGINEERS

Louis Caruso, L.G., L.H.G., 1329
Project Director
SCS ENGINEERS

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

1.0 INTRODUCTION

This 2013 fourth quarter and annual report presents the results of groundwater, stormwater, and landfill gas (LFG) compliance monitoring performed during 2013 at the closed Leichner Landfill Leichner Landfill located in Vancouver, Washington (Figure 1-1). The report also summarizes landfill maintenance and repairs activities performed during 2013. SCS Engineers (SCS) performed the monitoring, maintenance, and repair activities and prepared this report on behalf of Clark County 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 recently updated compliance monitoring plan (CMP) submitted to the Washington Department of Ecology (Ecology) and Clark County Public Health (CCPH) in July 2013 (SCS, 2013b) by. The July 2013 CMP included recent (since 2011) modifications to Leichner Landfill's monitoring programs approved by Ecology and CCPH, including the following:

- Modifying the schedule for performing LFG compliance monitoring of the perimeter LFG probes from monthly to quarterly.
- Requiring only field measurement of specific conductivity (instead of field and laboratory measurement) in groundwater samples collected from the site monitoring wells.
- Discontinuing laboratory analysis of vinyl chloride (VC) and 1,1-dichloroethene (1,1-DCE) from the groundwater analytical program.[1]
- Implementing low-flow purge sampling for collecting groundwater samples from the site monitoring wells.
- Performing stormwater monitoring and reporting, consistent with Leichner Landfill's renewed Industrial Stormwater General Permit (General Permit) effective January 1, 2010 and updated stormwater pollution control plan (SWPPP) dated July 2013 prepared by SCS (SCS, 2013c) on behalf of the County.

[1] Discontinuing laboratory analysis of VC and 1,1-DCE was approved by Ecology in an email correspondence to the County dated February 12, 2013 (Ecology, 2013) because after two years of testing for these two VOCs using a low-level U.S. Environmental Protection Agency (EPA) Method 8260B, VC and 1,1-DCE are not detected above the compliance level of micrograms per liter (µg/L).

- Installing and monitoring a new LFG compliance probe GP-8R to replace former probe GP-8 because GP-8 was not located along the site's point of compliance (i.e., the property boundary). Instead, it was located along the western edge of the landfill in Module 2 and was believed to be screened either directly adjacent to or potentially in waste material.

First, second, and third quarter progress reports for 2013 (SCS, 2013a; 2013d; and 2013f, respectively) were previously submitted to Ecology and CCPH. The quarterly progress reports (1) described groundwater, stormwater and LFG compliance monitoring activities, (2) presented field and analytical results of the compliance monitoring activities, if performed, (3) described monitoring and maintenance of the facility's gas collection and control system (GCCS), and (4) described other pertinent, non-routine activities performed during each quarterly monitoring period.

The first and third quarter 2013 progress reports provided field and laboratory data and results for the semiannual and annual groundwater monitoring events conducted in 2013. This included groundwater monitoring field sampling data sheets (FSDSs), laboratory analytical reports, and quality assurance/quality control (QA/QC) reviews of laboratory analytical data. Consequently, the previously submitted FSDSs, laboratory reports, and QA/QC reviews are not included with this annual report.[2]

This 2013 fourth quarter and annual report (1) summarizes first, second, and third quarter 2013 compliance monitoring results, (2) presents fourth quarter compliance monitoring data and results, and (3) provides a comprehensive evaluation of 2013 groundwater data, including statistical analyses of the groundwater data.

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, 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

[2] Groundwater monitoring is not performed during the fourth quarter period at Leichner Landfill, consequently, this report does not include groundwater monitoring FSDSs, laboratory reports, or QA/QC reviews.

aquifer and overlying aquitard have not been evaluated in the northern and western portions of the site.

1.3 REPORT ORGANIZATION

The remainder of this report is organized as follows:

- Section 2.0 summarizes 2013 compliance groundwater monitoring activities and results.
- Section 3.0 summarizes 2013 compliance stormwater monitoring activities and results.
- Section 4.0 summarizes 2013 compliance LFG probe monitoring activities and results.
- Section 5.0 summarizes maintenance and repair activities performed during 2013.

Supporting documentation is attached in the following:

- Appendix A: 2013 groundwater elevation data and hydrographs.
- Appendix B: 2013 and historical groundwater analytical data summary tables.
- Appendix C: Summary of 2013 groundwater statistical calculations.
- Appendix D: Time-concentration diagrams for inorganic parameters and dissolved metal in groundwater collected from site monitoring wells.
- Appendix E: 2013 LFG monitoring probe data.

A complete copy of this report is provided on the CD attached to the report back cover page.

2.0 GROUNDWATER MONITORING

2.1 GROUNDWATER MONITORING NETWORK AND SCHEDULE

The groundwater monitoring network consists of 20 monitoring wells screened in the alluvial WBZ or the Troutdale Formation aquifer. The monitoring well locations are shown in Figure 2-1. The following describes the monitoring 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, 2013b). Groundwater samples collected during the annual monitoring event in February 2013 included the following 20 monitoring wells: 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, and LB-27D. Groundwater samples collected during the semiannual monitoring event in August 2013 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) 2013 groundwater monitoring activities were performed in accordance with the procedures and methods described in the July 2013 CMP (SCS, 2013b). These modifications included using low-flow purge sampling for collecting groundwater samples from the site monitoring wells during the first and third quarter events in accordance with the methods described in the July 2013 CMP (SCS, 2013b). Field water-quality parameters (temperature, pH, specific conductance, dissolved oxygen) were monitored and recorded on FSDSs[3] during groundwater sampling; field parameter monitoring results are provided in Appendix B (see Table B-1).

Groundwater samples collected from the site monitoring wells in 2013 were analyzed for the following inorganic parameters and dissolved metals in accordance with the approved compliance monitoring program: nitrate as nitrogen (nitrate), total dissolved solids (TDS), chloride (Cl), dissolved iron (Fe), and dissolved manganese (Mn). The 2013 groundwater samples were also analyzed for VOCs using EPA Method 8260B.[4] Test America Laboratories, Inc., (TAL) in

[3] FSDSs were previously submitted in the first and third quarter 2013 progress reports (SCS, 2013a; 2013f), and consequently they are not included in this annual report.

[4] VOC analysis of groundwater samples did not include analysis of VC and 1,1-DCE because as previously noted, Ecology approved discontinuing analysis of these two VOCs beginning in the first quarter 2013 semiannual monitoring event.

Beaverton, Oregon, analyzed the groundwater samples collected from the site monitoring wells in 2013.

2.2 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

Static groundwater levels measured on February 4 and August 20, 2013, were converted to groundwater elevations and are presented in Appendix A. 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 2013 (see Figures 2-2 through 2-5). Groundwater flow in the alluvial WBZ was generally towards the west to southwest (see 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 2013 groundwater flow directions are consistent with historical interpretations of groundwater flow conditions at Leichner Landfill.

Groundwater elevation hydrographs are provided in Appendix A. The 2013 groundwater elevation data is generally within the range of elevations measured since 2001 and before 1996, 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-4 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 (about 3 feet or less) 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 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 (previously submitted in the first and third quarter 2013 progress reports [SCS, 2013a, 2013f]).

Field and laboratory data and QA/QC procedures were reviewed by SCS to evaluate whether the data met EPA quality control requirements. The results of QA/QC reviews of the laboratory results were previously provided in the first and third quarter 2013 progress reports (SCS, 2013a, 2013f). 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 2013, is provided in Appendix B (see Table B-2). As previously mentioned, VOCs were analyzed in groundwater samples collected in 2013 using EPA Method 8260B.[1,4] No confirmed detections of VOCs were identified in the groundwater samples collected in the first and third quarter 2013, including VOCs for which compliance levels have been established for Leichner Landfill (i.e., 1,4-dichlorobenzene, tetrachloroethene, and trichloroethene) (see Table B-2). One VOC (chloroethane) was detected at an extremely low concentration (i.e., 0.18µg/L) slightly above the method reporting limit (MRL) of 0.17µg/L in the duplicate sample collected from well LB-27I in August 2013, as previously reported in the third quarter 2013 progress report (SCS, 2013f). It should be noted that the chloroethane detection in the duplicate sample was not confirmed in the primary sample collected from well LB-27I in August 2013.

The 2013 VOC analytical data 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 maintaining VOC concentrations below MRLs (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) that comprise the current groundwater analytical program is provided in Appendix B (see Table B-3). Results of statistical analysis of laboratory data for these inorganic parameters and dissolved metals in groundwater samples collected from the site monitoring wells (including background [upgradient] monitoring wells LB-4SR and LB-4D) using the statistical methodology described below, is presented in Appendix C. Time-concentration diagrams for these parameters are provided in Appendix D.

In general, the 2013 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*

Statistical method used to analyze the Leichner Landfill groundwater quality data considered analyte concentrations from 2009 through 2013 to determine if the data showed 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 using the MTCA Stat 97 program[5]. 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.

[5] 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 deviations from lognormality. The formula may commonly yield estimated UCL-95 values substantially larger than anticipated when distributions are not truly lognormal, if variance or skewness is large (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:

- Cl data for wells LB-10DR, LB-17D, LB-20S, and LB-26D.
- Fe data for wells LB-17D and LB-20S.
- Mn data for wells LB-10DR and LB-17I.
- NO_3 data for wells LB-10DR and LB-27I.
- TDS data for wells LB-13D and LB-20S.

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 Section 2.3.3.2. In most of these cases, the constituents that showed UCL values in exceedance of the compliance levels had detected concentrations that were significantly below compliances.

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-5S (Fe only), LB-6S (Fe only), LB-10SR (Fe only), LB-10DR (Mn 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 UCL-95 exceedances are generally consistent with historical evaluations. Historical data indicate that Fe and Mn concentrations exhibit natural variability and fluctuate above and below the compliance levels at a few well locations, including upgradient well LB-4SR and cross-gradient wells LB-3S and LB-5S. This suggests that dissolved Fe and Mn concentrations in some of the monitoring wells with UCL-95 values above compliance levels may be attributed to natural variations in groundwater chemistry, particularly for those wells located offsite (i.e., LB-10SR and LB-10DR) or near the Leichner Landfill property boundary (i.e., LB-5S, LB-6S, and LB-27I). It should be noted that the detected concentrations of Fe and Mn in groundwater samples collected from these wells in 2013 did not exceed their respective compliance levels (see Appendix B, Table B-3), except for Fe and Mn in LB-17I groundwater, and Mn in groundwater collected from wells LB-17D, LB-20S, and LB-27I (consistent with historical data).

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 2013 and within the last 5 years. However, exceedances of the compliance levels for Fe and/or Mn in groundwater collected from these wells may be reflective, in part, of natural groundwater chemistry, as previously reported to Ecology, based on the following:

- Historical Fe and Mn concentrations in upgradient monitoring well LB-4SR and cross-gradient wells LB-3S, LB-5S, and LB-10SR screened in the shallow alluvium WBZ have shown sporadic exceedances above the compliance levels.

- Concentrations of Fe in groundwater from well LB-20S in 2013 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.

As noted by SCS in our review comments (SCS, 2011a) of the December 2010 Draft Periodic Review document (Ecology, 2010) and as further discussed with Ecology, a more comprehensive evaluation of groundwater chemistry at and in the vicinity of Leichner Landfill is likely needed to assess whether observed Fe and Mn concentrations are related, in part, to naturally-occurring groundwater conditions that reflect spatial variability in groundwater chemistry.

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 D)[6]. 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-4D and LB-27D and Cl concentrations in well LB-1D, which have shown recent increases in concentrations believe to be reflective of regional groundwater conditions.

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 1996 and 2000 (see time-concentration plots in Appendix C). 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 mitigated leachate generation. The concentrations of these inorganic parameters in groundwater collected from these wells have remained relatively constant since about 2000.

[6] Time concentration plots for the LB-10 series wells (LB-10S and LB-10D) are included until 1999. These wells were not sampled after 1999 because the owner did not grant access. LB-10S and LB-10D were decommissioned in October 2004 and replaced by wells LB-10SR and LB-10DR, respectively.

2.4 EVALUATION OF GROUNDWATER QUALITY RESULTS

Laboratory analytical results of groundwater samples collected from site monitoring wells in 2013 indicate that groundwater quality is not being affected by the closed landfill as evidenced by the following:

- Laboratory analysis of VOC using EPA Method 8260B continues to show VOCs at concentration below MRLs and 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 and stormwater control and collection, implemented in the mid-1990s have been effective at mitigating leachate generation and improving groundwater quality.

2.5 MODIFICATIONS TO GROUNDWATER MONITORING PROGRAM

The County has been in discussions with Ecology and CCPH regarding decommissioning off-site monitoring well LB-4SR, LB-4C, and LB-4D and plans to submit a work plan to Ecology and CCPH describing the methods and procedures for decommissioning these wells. The County plans to decommission the wells once it receives approval from Ecology and CCPH.

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 SWPPP (SCS, 2013c).

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 during 2013 the first, second, third, and fourth 2013 in accordance with the methods and schedule described in the General Permit and SWPPP (SCS, 2013c). The quarterly samples were collected on February 5, April 19, September 23, and October 1, 2013.

The quarterly stormwater samples were analyzed by TAL for the General Permit-required parameters including turbidity, pH, total copper and zinc, biological oxygen demand, TDS, ammonia as nitrogen, and select semi-volatile organic compounds (alpha-terpineol, benzoic acid, p-cresol, and phenol).

3.1.2 Monthly Visual Inspection

SCS performed monthly visual inspections in 2013 during a storm event when site conditions could result in stormwater being potentially discharged at Outfall 1. The inspections included an examination of stormwater discharge at Outfall 1 (if observed), the stormwater conveyance system (drainage ditches and culverts), and areas with storage of materials. 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. This procedure occurred in 2013.

3.1.3 Stormwater Monitoring Results

Stormwater discharge monitoring reports (DMRs) describing the results of stormwater analytical results obtained in 2013 were previously submitted to Ecology on a quarterly basis in accordance with the 2009 General Permit, using the Ecology WebDMR submittal system. The first, second, and third quarter stormwater monitoring results were also summarized in the first, second, and third quarter progress reports (SCS, 2013a; 2013d; and 2013f, respectively) previously submitted to

Ecology and CCPH. The fourth quarter 2013 DMR was submitted to Ecology electronically on November 11, 2013, using the Ecology WebDMR submittal system.

The analytical results of stormwater samples collected in 2013 indicated that stormwater quality benchmark concentrations specified in the General Permit were not exceeded.

3.1.4 Modifications to Stormwater Control and Collection System

Improvements to the stormwater collection and control system were completed along the western side of former Module 2 in September and October 2013. The construction activities consisted of the following two elements: (1) the installation of approximately 0.25 acres (approximately 10,000 square feet) of geomembrane for stormwater control and (2) construction of a runoff collection system that included installing approximately 270 feet of runoff collection trench and piping and making repairs to portions of the existing landfill cover system for the Module 2 area.

The stormwater improvement construction activities were accomplished in substantial conformance with the design intent, permit conditions, and construction drawings dated September 2, 2013, and with technical specifications dated July 29, 2013 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. Additionally, the site SWPPP will be updated to reflect the modifications to the Module 2 stormwater collection system.

During excavation of the trench for the subsurface vault for the stormwater improvement project on October 10, 2013, landfill waste was encountered outside the existing final cover system along the western perimeter of former Module 2. The waste appeared localized to the eastern portion of the vault excavation and did not extend west to the property line. SCS estimates that the western extent of waste in the trench was approximately 8 feet from the property line. Within the vault excavation, the vertical extent of the waste was greater than approximately 8 feet bgs (depth of base of excavation). Based on field observations in the vault excavation and in test pits excavated to delineate the extent of waste, it was estimated that waste material is present approximately 50 feet south of the vault and 100 feet north of it. The County notified CCPH and Ecology of these finding in a memorandum dated October 30, 2013 (SCS, 2013f), and intends to extend the existing liner in 2014 over the area where waste was encounter outside the landfill footprint.

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 due 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 (modified from a monthly schedule), as approved by Ecology (Ecology, 2011). Quarterly compliance monitoring of the LFG monitoring probes was performed on the following dates:

- First quarter 2013 completed on March 6, 7, and 8, 2013.
- Second quarter 2013 completed on June 5, 7, and 13, 2013.
- Third quarter 2013 completed on September 3 and 6, 2013.
- Fourth quarter 2013 completed on December 16 and 24, 2013.

4.2 COMPLIANCE LFG MONITORING RESULTS

LFG monitoring probe data for 2013, including fourth quarter data that have not been previously reported, are provided in Appendix E. The 2013 compliance monitoring data indicate methane concentrations were below the MFS (Chapter 173-304 WAC) regulatory limit of 5 percent methane by volume in probes located along the site property boundary (i.e., point of compliance), except for the following:

- Methane concentrations measured in LFG probes GP-7 (at 9.9 percent) and GP-9A (at 7.9 percent) exceeded the 5 percent methane compliance level on March 6, 2013. In response to these exceedances, adjustments to the GCCS LFG extractions wells were immediately performed. GP-7 and GP-9A were re-monitored on March 7 and 8, respectively. The re-monitoring indicated that methane concentrations were below the MFS compliance level (re-measured concentrations were 0.0 and 1.7 percent, respectfully, in probes GP-7 and GP-9A).

- Methane concentrations measured in LFG probes GP-7 (at 10.2 percent) and GP-9A (at 7.2 percent) exceeded the 5 percent methane compliance level on June 5, 2013. Adjustments to the GCCS LFG extraction wells successfully reduced methane concentrations in GP-7 (to 3.6 percent) on June 13 and in GP-9A (to 0 percent) on June 7.

- The methane concentration measured in LFG probe GP-7 (at 7.2 percent percent) exceeded the 5 percent methane compliance level on September 3, 2013. Adjustments to the GCCS LFG extraction wells in the vicinity of GP-7 successfully reduced methane concentrations in this probe to below the compliance level (i.e., the methane concentration was measured at 0.2 percent on September 6).

- The methane concentration measured in LFG probe GP-7 (at 8.9 percent percent) exceeded the 5 percent methane compliance level on December 16, 2013. Adjustments to the GCCS LFG extraction wells in the vicinity of GP-7 successfully reduced methane concentrations in this probe to below the compliance level (i.e., the methane concentration was measured at 1.9 percent on December 24).

4.3 LFG EXTRACTION WELLS

The LFG extraction wells (see Figure 4-1) were monitored and adjusted (balanced) semi-monthly (twice a month) during 2013 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 during 2013.

4.4 LFG FLARE MONITORING

The LFG flare systems were monitored regularly (i.e., at least weekly) in 2013. 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 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

Repair and maintenance activities for the first, second, and third quarters in 2013 were previously described in the first, second, and third quarter progress reports (SCS, 2013a; 2013d; and 2013f; respectively) previously submitted to Ecology and CCPH. The repair and maintenance activities performed in 2013, including the fourth quarter activities, are summarized in the following sections.

Routine operations, maintenance, and repair of the GCCS performed during 2013 generally included the following:

- Performed checks and adjustments to the operational settings of the LFG flare system.
- Performed maintenance and repairs (as needed) of the LFG flare system, condensate collection system, including the condensate sumps, airlines, discharge lines, and compressors.
- Performed minor maintenance and repairs (as needed) of the LFG extraction wells and conveyance piping (e.g., repair of hoses, fittings, and valves).
- Conducted semi-monthly adjustments (i.e., balancing) to the north and south LFG extraction wells.
- Replaced the compact flash card in the Yokogawa flare data recorder monthly and download of the monitoring data stored on the card.

Other noteworthy non-routine maintenance, repair, and replacement activities related to the Leichner Landfill's post-closure systems and equipment performed during each month in 2013 are described below.

5.1 FIRST QUARTER 2013

5.1.1 January

- Replaced damaged hoses and valves at several extraction wells and sampling ports: SW-2, SW-22, NE-2, NE-3, NE-11, SE-23, and NWNE composition sampling port.
- Filled seven gallon propane bottle at the flare.
- Installed identification tags on extraction wells NE-1, NE-2, NE-5, SE-5, SE-7, SW-2, and SW-4.
- Repaired oxygen leaks at condensate traps S-5 and S-7.

5.1.2 February

- Repaired the site's remote monitoring and control (RMC) system to allow for remote access to Yokogawa and to enable email distribution when alarm conditions are met.
- Replaced damaged 6-inch-diameter flexible hose on the header north of extraction well SW-15.
- Replaced damaged valves at extraction wells NW-1, NW-29, and SE-19.
- Replaced damaged sample ports at extraction wells: SW-2 and NE-18.
- Installed identification tag on extraction well SE-19.
- Filled five gallon propane bottle at the flare.
- Performed annual maintenance on the air compressor at the blower-flare station (BFS).
- Installed QED AP-4 auto pumps in condensate sumps S-1 and S-8. Installed new sump pump air regulators/filters in sumps N4 and N8.
- Prepared a foundation for a storage shed at the BFS. Prepared forms, tied and installed rebar, and poured concrete. The forms were removed and the shed concrete foundation was allowed to cure.

5.1.3 March

- Replaced a damaged 8-inch-long by 2-inch-diameter drip leg servicing condensate sump S7.
- Performed general maintenance of the flare station blowers, north detention pond pumps, and air compressor; activities performed included conducting inspections, adding oil to the pumps, and lubricating the blowers.
- Installed a new ¼-inch airline valve on the air dryer effluent line.
- Built and installed a cover for the air conditioner in the compressor shed.
- Removed the fence surrounding the BFS area to facilitate installation of the new storage shed; the fence was repaired after the shed installation was completed.
- Installed storage shed at BFS and coordinated electrical installation.

5.2 SECOND QUARTER 2013

5.2.1 April

- Rotated the primary blower from Blower 101 to Blower 102.
- Repaired three condensate traps (CT-S2, CT-N4, and CT-N1) to seal oxygen leaks. Repairs to CT-S2 included replacing a damaged 10 inch by 2 inch polyvinyl chloride (PVC) drip line and 10 inch flexible hose connection. Repairs to CT-N4 involved replacing the O-ring inside a 2-inch union fitting and re-priming the trap. Repairs to CT-N1 included replacing a 4-inch tee fitting and two sections of 4-inch flexible couplings.
- Made the following repairs to the GCCS: (1) replaced an 8-inch flexible coupling on the header north of SW-05, (2) replaced a 3-inch flexible coupling near SE-23, (3) replaced a 3-inch PVC tee fitting near NW-36, and (4) replaced a 2-inch PVC gate valve at gas well SE-23.
- Completed installation of new storage shed within BFS area. The installation included electrical work performed by a subcontractor that successfully passed the required inspection.
- Following the installation of the new on-site storage shed, cleaned out the shed on the Waste Connections facility and retain and stored usable equipment and materials in the new on-site shed.

5.2.2 May

- Staked the header between condensate sump CS-S7 and extraction well SE-11 in preparation for a subsurface locating service to locate the force main.
- Procured propane for the flare. Identified a leak on propane pilot piping assembly and repaired the leak.

5.2.3 June

- Switched the primary blower in operation from Blower 102 to Blower 101 in response to a noise complaint associated with the operation of Blower 102.
- Located and installed two pipe plugs on the South Detention Pond discharge line. Utilized GPS equipment to establish coordinates of proposed tie in to the force main.
- Cleaned and painted the above-ground protection steel casings for gas probe GP-28 and the following groundwater monitoring wells: LB-5C, LB-5S, LB-5D, LB-17S, LB-17D, LB-17I, LB-R2, LB-6S, LB-13D, LB-13S, LB-13I, LB-21D, LB-21S, LB-21C, LB-22S, LB-23S, LB-24S and MW-NE.

5.3 THIRD QUARTER 2013

5.3.1 July

- Painted the protective steel casings (and protective bollards if present) for a subset of 20 LFG compliance monitoring probes.
- Met with Emerald Services on site to oversee pumping of liquid from the 20,000 gallon storage tank inside the BFS enclosure.
- Electrical subcontractor (EC Electric) began installing the variable frequency drives (VFDs) used to control motor speed on the new blowers.
- Painted the protective steel casings at the following LFG compliance monitoring probes: GP-6 (including bollards), GP-7, GP-9, GP-10, GP-11, GP-12, GP-14R, GP-15, GP-16S, GP-16D, GP-17S, GP-17D, GP-19, GP-19S, GP-20, GP-31, GP-32, GP-33, GP-34, and GP-35.
- Backfilled a small excavation near the South Detention Pond that was trenched to accommodate installing a transducer as part of the RMC system installation activities performed in June.

5.3.2 August

- Completed annual flare O&M that included removing/cleaning the flame arrestor, cleaning flare site glass, removing debris from burner deck, painting the fail safe electric valve, replacing damaged propane line, filling propane bottle, and cleaning the knockout pot.
- Successfully installed two new blowers to replace existing blowers LFG #1 and LFG #2. This included completing the VFD installations.
- Purchased and installed designation labels on the protective casings of the site monitoring wells and gas probes.

5.3.3 September

- Performed general maintenance of the North and South Detention Pond pumps and air compressor.
- Electrical subcontractor (EC Electric) began troubleshooting the transducer and VFDs controllers, which will be used to control motor speed on the new blowers.

5.4 FOURTH QUARTER 2013

5.4.1 October

- Performed construction activities related to stormwater improvement project along western side of Module 2, including excavating/backfilling the collection trench and vault box excavation and installing the pneumatic pump, airline and stormwater discharge piping.

- Performed extensive pumping of stormwater into the collection trench excavation resulting from record rainfall in late September and early October 2013.

- Remove, stockpiled, and loaded into containers waste material encountered outside the Module 2 footprint during installation of the vault associated with the Module 2 stormwater improvement project.

- Excavated four test pits to assess the north-south extent of buried waste along the western side of Module 2 encountered during excavating the vault box trench.

5.4.2 November

- Performed general maintenance of the Module 2 stormwater recovery system. The pneumatic pump flow rate required adjusting to address increased stormwater collection.

- Re-plumbed extraction well NW-35 to the site gas extraction system header. NW-35 was taken off line during construction of the Module 2 stormwater improvement project in September and October 2013.

- Repaired air leaks from separated 6-inch gas extraction lines near NW-38, SW-20, SE-12 and SE-13. These air leaks contributed additional oxygen to the system that prevented the flare from properly function. The flare was successfully restarted immediately after repairing the leaks.

5.4.3 December

- Performed extensive repairs to GCCS wellheads and above-ground piping required during several days of continuous below-freezing temperatures in December 2013.

- Performed maintenance of North and South Detention Pond pumps and air compressor.

- Performed general maintenance of the Module 2 stormwater recovery system.

- Upgraded modem for RMC system at South Detention Pond.

- Repaired 6-inch header at extraction well NW-10.
- Installed a QED pump controller and pump at condensate trap S-4.
- Installed a QED pump controller and pump at condensate trap S-2.
- Installed flapper check valve and ball valve in discharge line from the stormwater collection system.
- Thawed the frozen discharge line from the stormwater collection system. The line was then covered with insulation tape.
- Removed corroded airline fittings to stormwater collection system and replaced with new stainless steel fittings with ball valves.

6.0 REFERENCES

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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
Inorganic Parameters																						
Chloride	250	mg/L	M(14)	7.70	4.01	4.40	5.48	3.93	M(7.3)	12.55	7.46	26.51	M(26.8)[c]	M(12)	4.86	M(27.4)	M(19)[c]	M(22.1)[c]	8.93	M(5.1)[c]	46.20	10.53
Nitrate	10	mg/L	6.80	6.08	4.11	5.45	4.80	7.58	4.97	1.81	2.60	3.57	M(1.8)[c]	4.77	5.39	All ND	All ND	M(0.1)	5.01	6.42	M(2.1)[c]	4.16
Total Dissolved Solids	500	mg/L	219.19	193.80	187.76	194.35	187.08	167.68	M(210)	240.42	200.13	280.37	315.10	204.04	M(193)[c]	269.64	227.46	M(361)[c]	213.81	201.28	401.43	241.89
Metals																						
Iron (dissolved)	0.3	mg/L	M(0.051)	M(0.036)	All ND	All ND	All ND	All ND	**M(0.707)**	All ND	**M(0.379)**	**M(1.15)**	M(0.047)	All ND	All ND	**8.76**	M(0.12)[c]	**M(0.368)[c]**	M(0.064)	All ND	M(0.032)	M(0.083)
Manganese (dissolved)	0.05	mg/L	M(0.002)	M(0.0058)	All ND	All ND	M(0.0034)	All ND	M(0.0157)	M(0.0022)	M(0.031)	0.007	**M(0.0677)[c]**	M(0.0031)	All ND	**M(1.55)[c]**	**4.44**	**3.10**	0.0063	M(0.0034)	**0.42**	M(0.018)
Volatile Organic Compounds																						
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	M(0.15)	All ND	All ND	All ND	M(0.81)	All ND	All ND	All ND	All ND	All ND	All ND
Vinyl Chloride	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	M(0.044)	All ND	M(0.053)	All ND

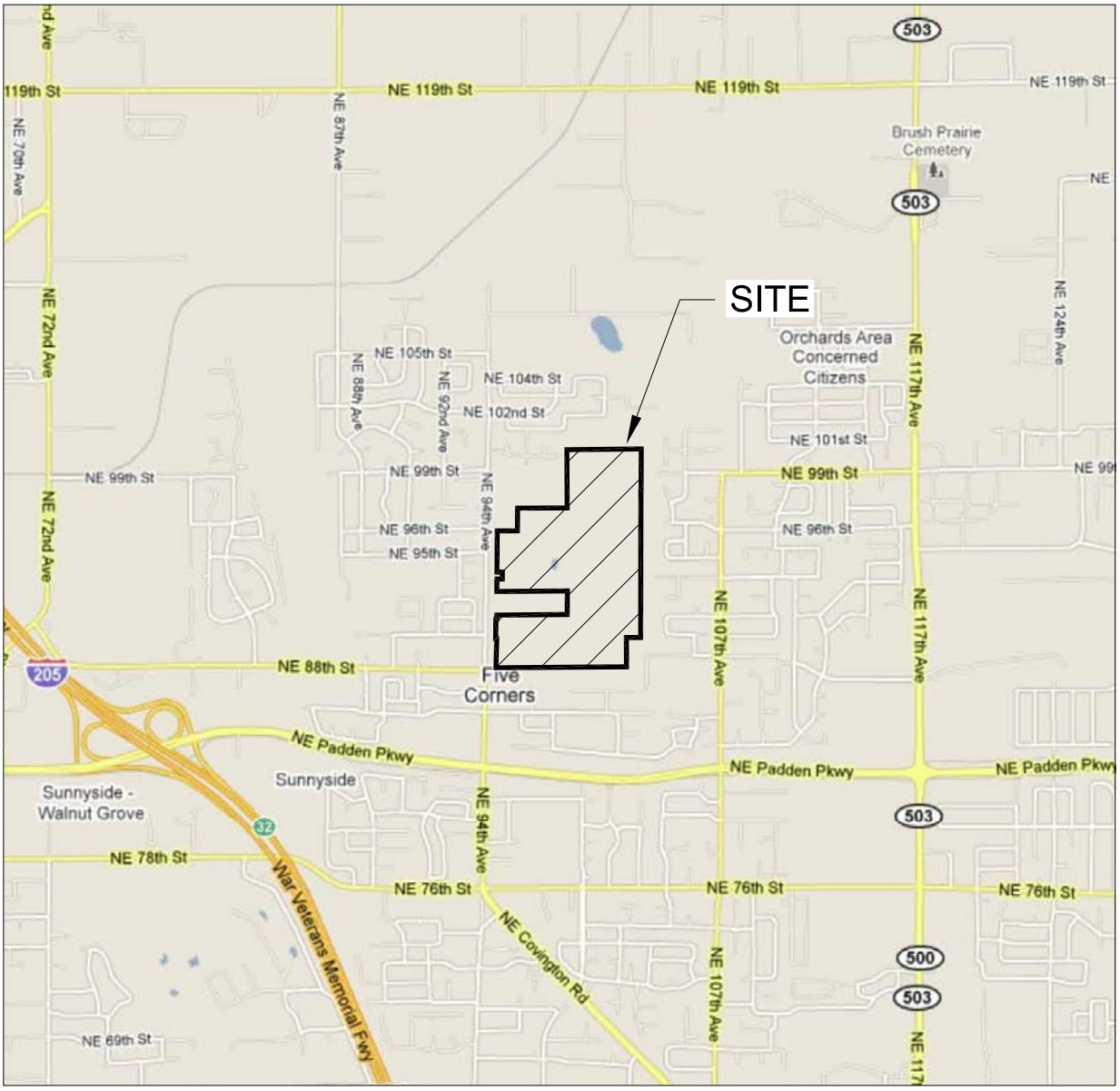
NOTE:
mg/L = milligrams per liter; µg/L = micrograms per liter; ND = indicates not detected at any sampling event; M = maximum value detected in last five years shown in parenthesis.
Values shown in **bold** are greater than the specified compliance level.

[a] Data evaluated for the last five years of monitoring (2009 through 2013).

[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 2009 to 2013 using Land's method; value shown represents the maximum value detected in the last five years.

FIGURES



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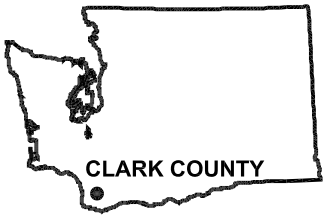


WASHINGTON

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

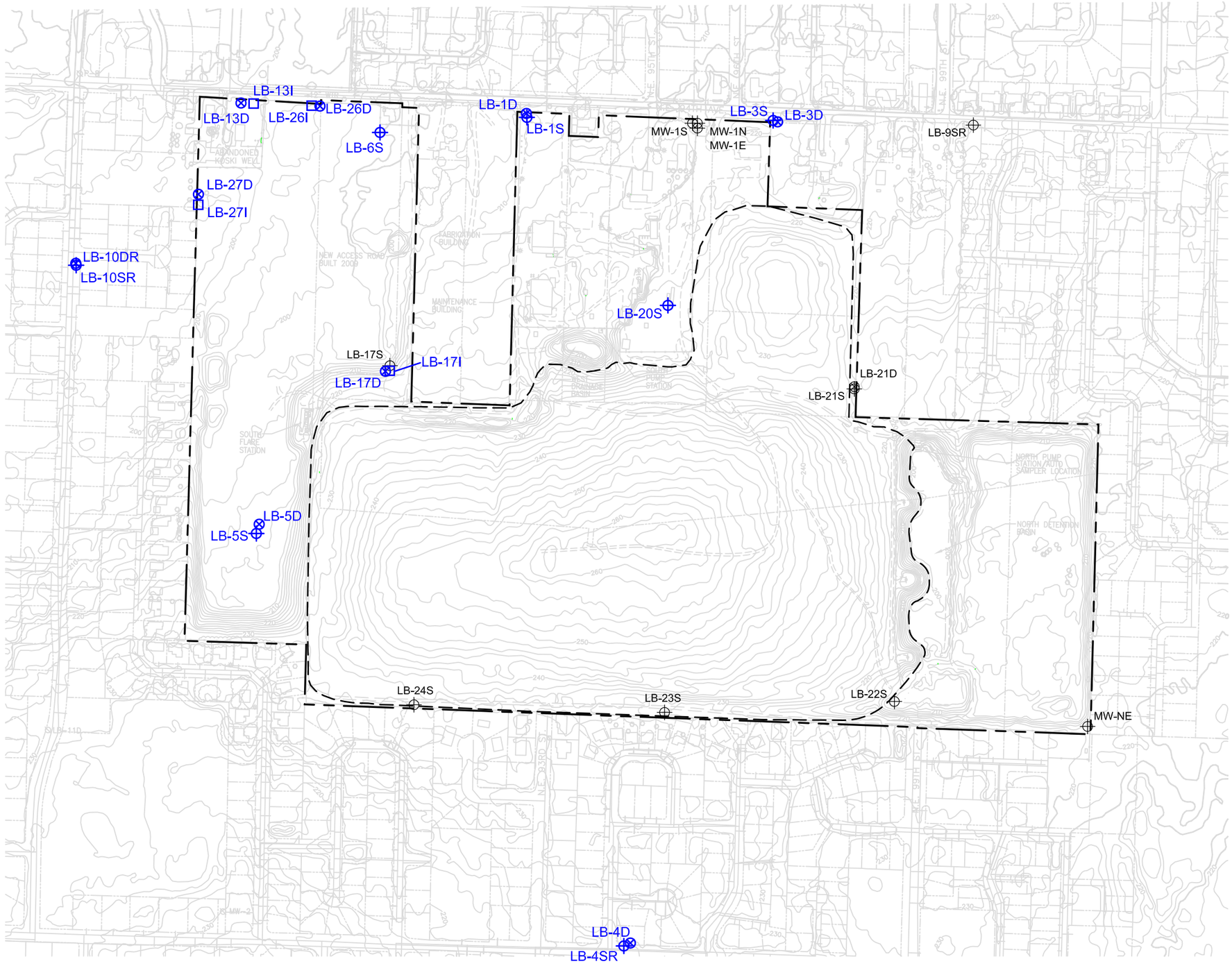
PROJECT NO.	DES BY
04214030.06/.18	T.A
SCALE	CHK BY
AS SHOWN	J.D.
CAD FILE	APP BY
FIGURE 1-1	L.C.

SITE LOCATION MAP

LEICHNER LANDFILL
CLARK COUNTY, WASHINGTON

DATE
JANUARY 2014

FIGURE
1-1



LEGEND:

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.

SCALE
0 400 800 FEET

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

PROJECT NO.	04214030.06/.18
DES BY	T.A.
SCALE	AS SHOWN
CHK BY	J.D.
CAD FILE	FIGURE 2-1
APP BY	L.C.

GROUNDWATER MONITORING LOCATIONS

LEICHNER LANDFILL
VANCOUVER, WASHINGTON

DATE: JANUARY 2014
FIGURE: 2-1

LB-13I (178.22)
LB-26I (178.73)
LB-6S (179.31)
LB-1S (180.38)
MW-1S (181.92)
LB-3S (183.04)
LB-9SR (186.29)
LB-27I (177.98)
LB-10SR (177.31)
LB-20S (184.37)
LB-17S (180.77)
LB-17I (180.56)
LB-21S (189.13)
LB-5S (192.18)
LB-24S (197.80)
LB-23S (199.95)
LB-22S (204.12)
MW-NE (208.33)
LB-4SR (205.25)

180
185
190
195
200
205

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

205 — Groundwater Potentiometric Surface Contour

(208.33) Groundwater Elevation Measured on February 4, 2013

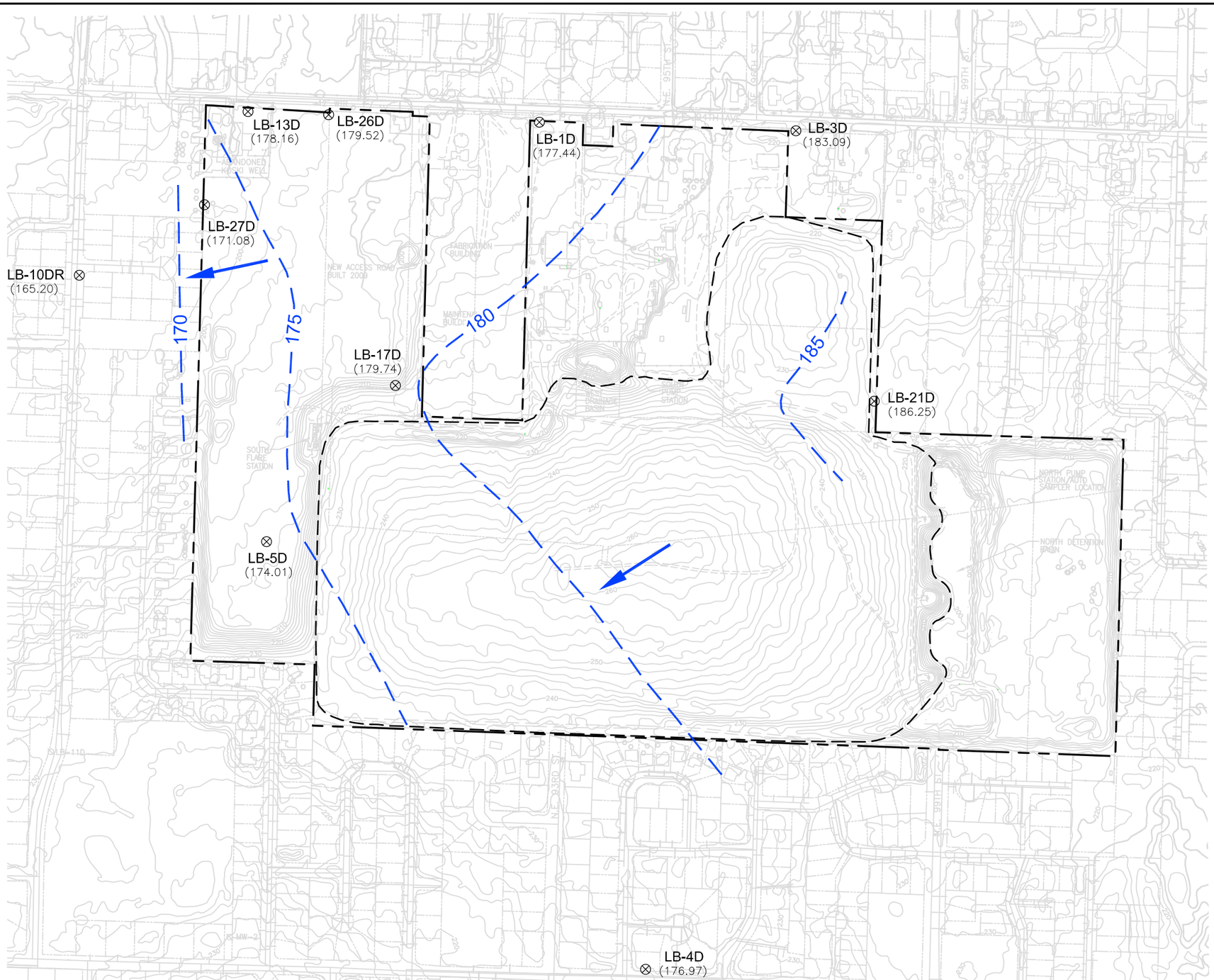
Inferred Groundwater Flow Direction

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

SCALE
0 400 800 FEET

PROJECT NO. 04214030.06/.18	DES BY T.A.	GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS ALLUVIAL WATER BEARING ZONE FEBRUARY 4, 2013 LEICHNER LANDFILL VANCOUVER, WASHINGTON	DATE JANUARY 2014
SCALE AS SHOWN	CHK BY J.D.		FIGURE 2-2
CAD FILE FIGURE 2-2	APP BY L.C.		



LEGEND:

LB-5D ⊗	Monitoring Well Location, Troutdale Aquifer
— — — —	Property Boundary
— — — — —	Limit of Landfill Cover and Approximate Edge of Waste
— —180— —	Groundwater Potentiometric Surface Contour
(186.25)	Groundwater Elevation Measured on February 4, 2013
→	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

SCALE
0 400 800 FEET

PROJECT NO. 04214030.06/.18	DES BY T.A.	GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS TROUTDALE FORMATION AQUIFER FEBRUARY 4, 2013 LEICHNER LANDFILL VANCOUVER, WASHINGTON	DATE JANUARY 2014
SCALE AS SHOWN	CHK BY J.D.		FIGURE 2-3
CAD FILE FIGURE 2-3	APP BY L.C.		

LB-13I (175.51)
LB-26I (176.03)
LB-6S (176.68)
LB-1S (177.80)
MW-1S (179.41)
LB-3S (180.50)
LB-9SR (183.60)
LB-27I (175.19)
LB-10SR (174.16)
LB-20S (181.97)
LB-17S (178.07)
LB-17I (177.85)
LB-21S (186.51)
LB-5S (190.88)
LB-24S (196.19)
LB-23S (198.07)
LB-22S (201.81)
MW-NE (205.75)
LB-4SR (203.14)

175
180
185
190
195
200
205

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

205 — Groundwater Potentiometric Surface Contour

(205.75) Groundwater Elevation Measured on August 20, 2013

Inferred Groundwater Flow Direction

NOTE:
Topography Taken From Clark County GIS, December 2008

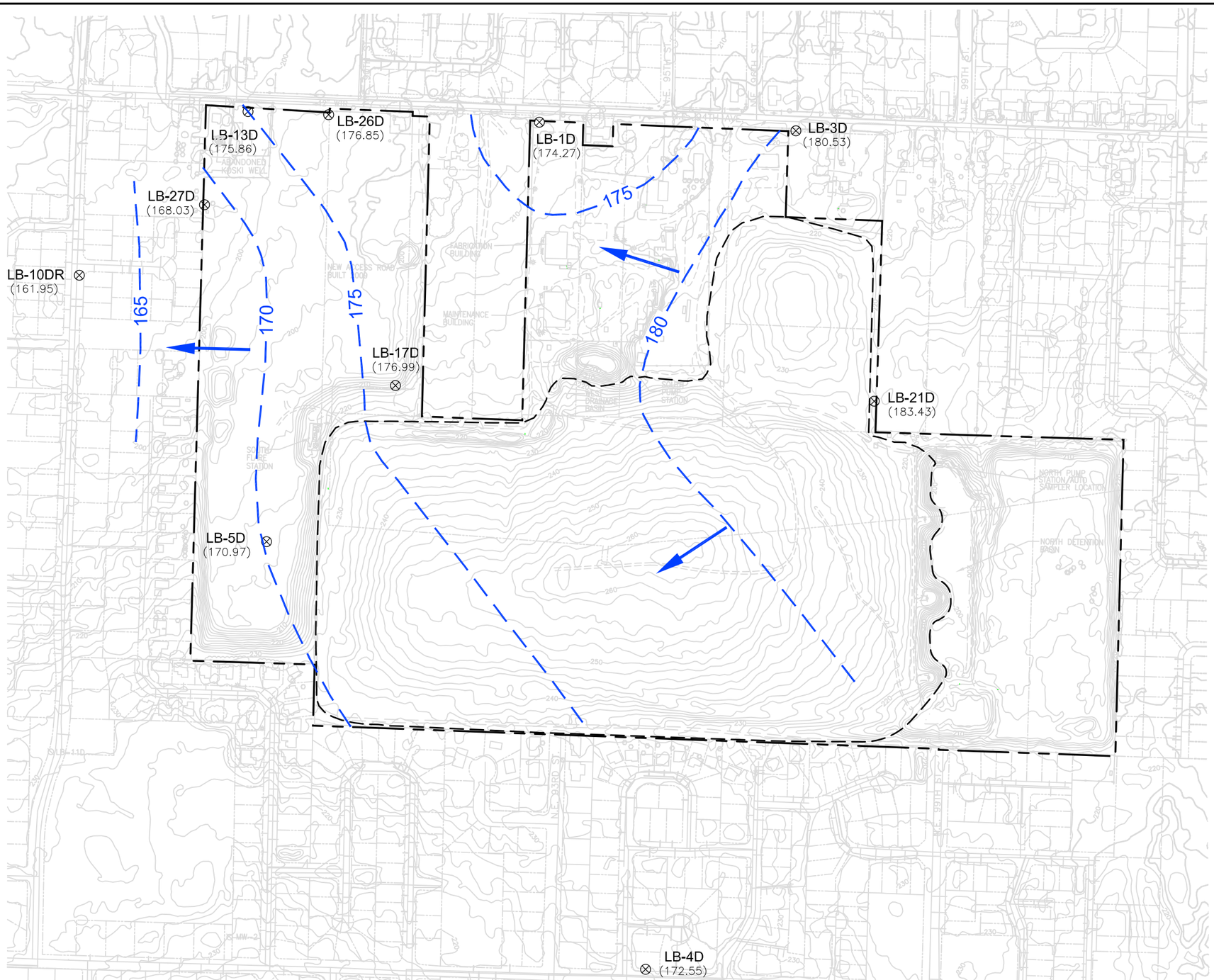
SCS ENGINEERS
Environmental Consultants and Contractors
14945 SW Sequoia Parkway, Suite 180
Portland, Oregon 97224
(503) 639-9201 FAX: (503) 684-6948

SCALE
0 400 800 FEET

PROJECT NO. 04214030.06/.18	DES BY T.A.
SCALE AS SHOWN	CHK BY J.D.
CAD FILE FIGURE 2-4	APP BY L.C.

GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS
ALLUVIAL WATER BEARING ZONE
AUGUST 20, 2013
LEICHNER LANDFILL
VANCOUVER, WASHINGTON

DATE JANUARY 2014
FIGURE 2-4



LEGEND:

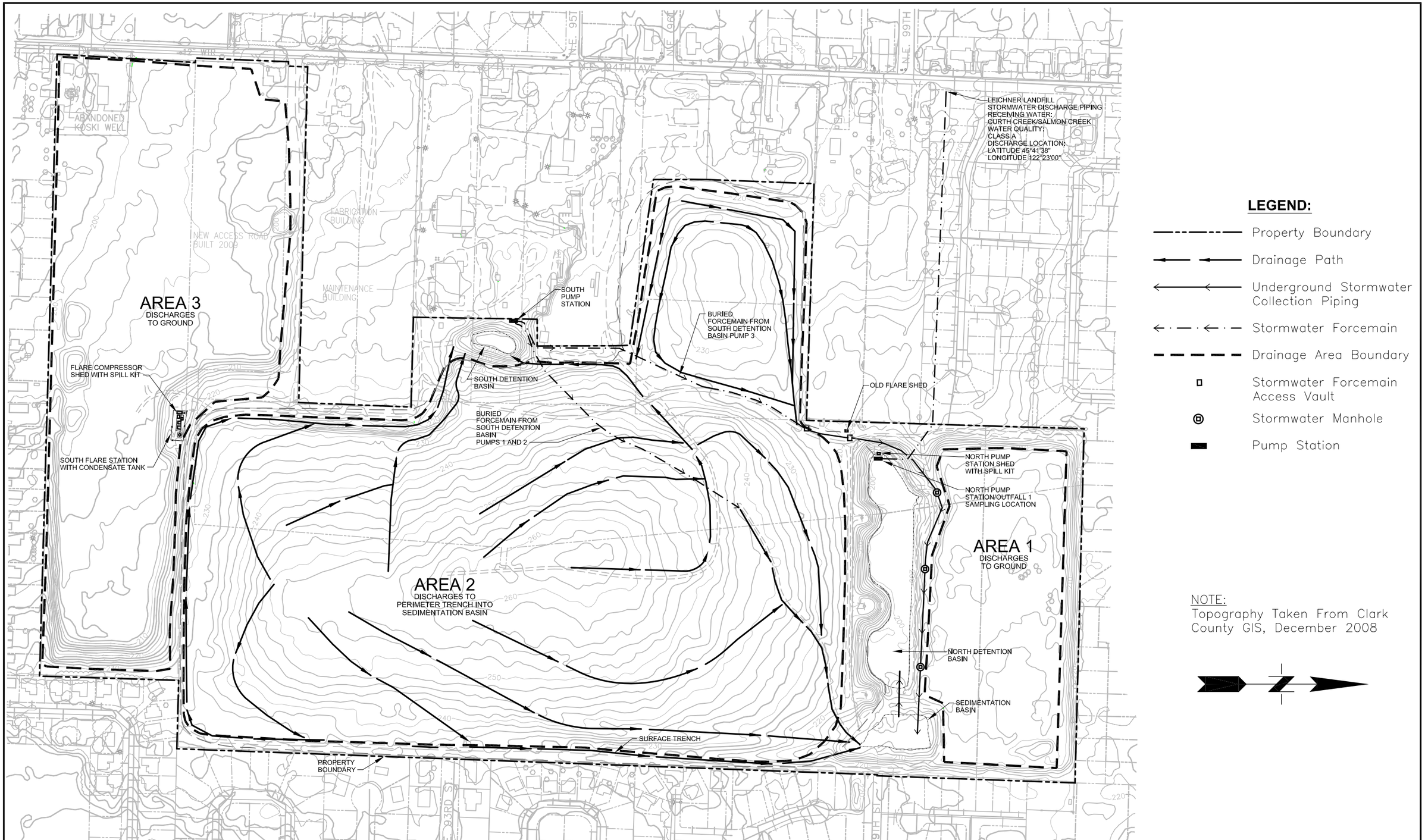
LB-5D ⊗	Monitoring Well Location, Troutdale Aquifer
— — — —	Property Boundary
— — — — —	Limit of Landfill Cover and Approximate Edge of Waste
— —180— —	Groundwater Potentiometric Surface Contour
(183.43)	Groundwater Elevation Measured on August 20, 2013
→	Inferred Groundwater Flow Direction

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

SCALE
0 400 800 FEET

PROJECT NO. 04214030.06/.18	DES BY T.A.	GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS TROUTDALE FORMATION AQUIFER AUGUST 20, 2013 LEICHNER LANDFILL VANCOUVER, WASHINGTON	DATE JANUARY 2014
SCALE AS SHOWN	CHK BY J.D.		FIGURE 2-5
CAD FILE FIGURE 2-5	APP BY L.C.		



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

SCALE
0 300 600 FEET

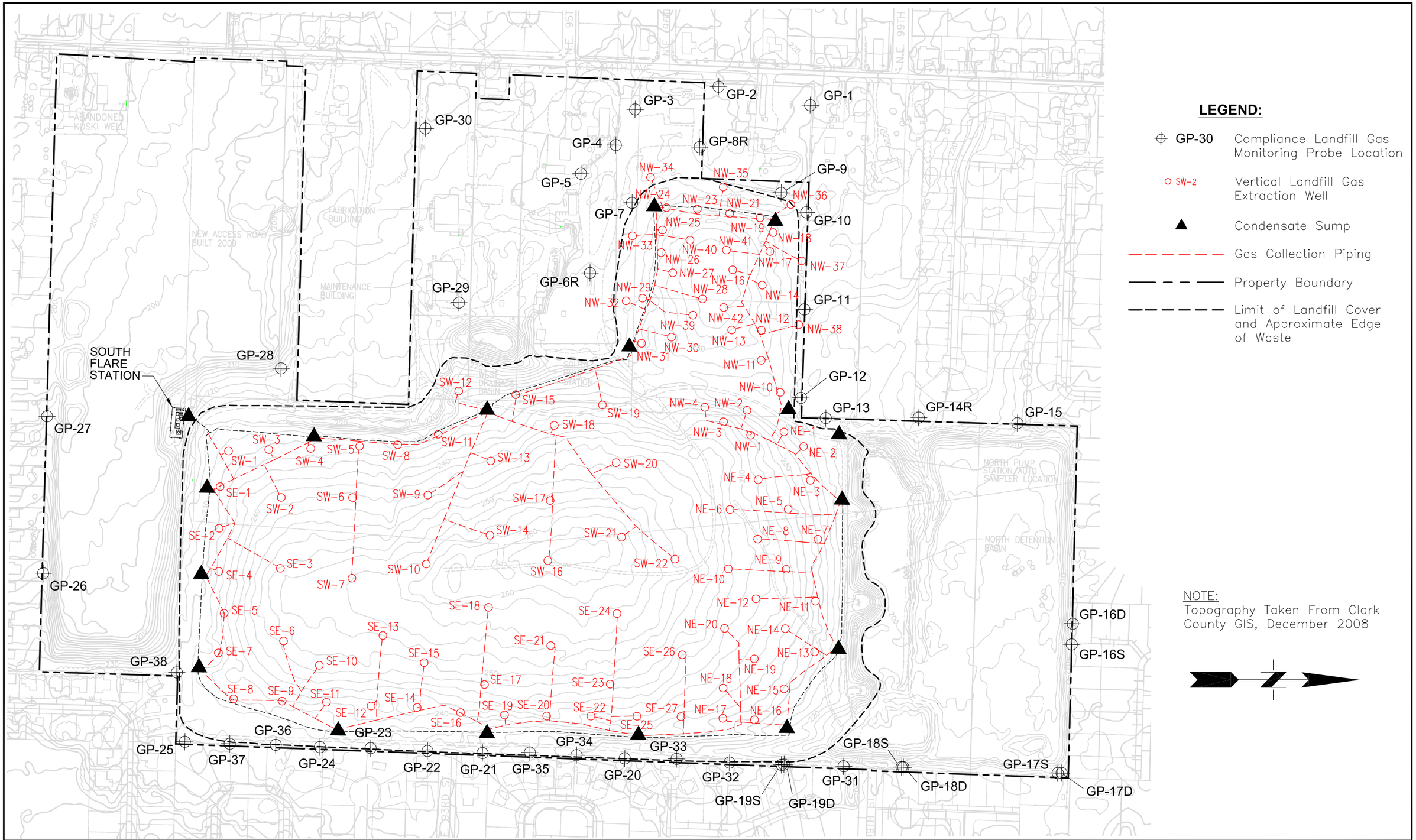
PROJECT NO. 04214030.06/.18	DES BY T.A.
SCALE AS SHOWN	CHK BY J.D.
CAD FILE FIGURE 3-1	APP BY L.C.

SITE MAP AND STORMWATER SYSTEM

LEICHNER LANDFILL
VANCOUVER, WASHINGTON

DATE JANUARY 2014

FIGURE 3-1



SCS ENGINEERS Environmental Consultants and Contractors 14945 SW Sequoia Parkway, Suite 180 Portland, Oregon 97224 (503) 639-9201 FAX: (503) 684-6948		SCALE 0 300 600 FEET	PROJECT NO. 04214030.06/.18 SCALE AS SHOWN CAD FILE FIGURE 4-1	DES BY T.A. CHK BY J.D. APP BY L.C.	LANDFILL GAS PROBE AND EXTRACTION WELL LOCATIONS LEICHNER LANDFILL VANCOUVER, WASHINGTON	DATE JANUARY 2014 FIGURE 4-1

APPENDIX A

2013 Groundwater Elevation Data and Groundwater Elevation Hydrographs

2013 Groundwater Elevation Data

Table A-1
2013 Groundwater Elevation Data
Leichner Landfill

Monitoring Well	Date	Reference Elevation (feet, AMSL)	Depth to Groundwater (feet, BTOC)	Groundwater Elevation (feet, AMSL)
LB-R2	2/4/2013	222.27	41.68	180.59
LB-R2	8/20/2013	222.27	44.37	177.90
LB-1S	2/4/2013	210.12	29.74	180.38
LB-1S	8/20/2013	210.12	32.32	177.80
LB-1D	2/4/2013	209.74	32.30	177.44
LB-1D	8/20/2013	209.74	35.47	174.27
LB-3S	2/4/2013	218.25	35.21	183.04
LB-3S	8/20/2013	218.25	37.75	180.50
LB-3D	2/4/2013	219.29	36.20	183.09
LB-3D	8/20/2013	219.29	38.76	180.53
LB-4S(R)	2/4/2013	226.46	21.21	205.25
LB-4S(R)	8/20/2013	226.46	23.32	203.14
LB-4C	2/4/2013	228.08	43.07	185.01
LB-4C	8/20/2013	228.08	45.95	182.13
LB-4D	2/4/2013	228.00	51.03	176.97
LB-4D	8/20/2013	228.00	55.45	172.55
LB-5S	2/4/2013	206.89	14.71	192.18
LB-5S	8/20/2013	206.89	16.01	190.88
LB-5C	2/4/2013	206.70	28.73	177.97
LB-5C	8/20/2013	206.70	31.75	174.95
LB-5D	2/4/2013	207.56	33.55	174.01
LB-5D	8/20/2013	207.56	36.59	170.97
LB-6S	2/4/2013	202.80	23.49	179.31
LB-6S	8/20/2013	202.80	26.12	176.68
LB-9S(R)	2/4/2013	217.94	31.65	186.29
LB-9S(R)	8/20/2013	217.94	34.34	183.60
LB-10SR	2/4/2013	204.04	26.73	177.31
LB-10SR	8/20/2013	204.04	29.88	174.16
LB-10CR	2/4/2013	203.05	25.67	177.38
LB-10CR	8/20/2013	203.05	28.81	174.24
LB-10DR	2/4/2013	203.36	38.16	165.20
LB-10DR	8/20/2013	203.36	41.41	161.95

Table A-1
2013 Groundwater Elevation Data
Leichner Landfill

Monitoring Well	Date	Reference Elevation (feet, AMSL)	Depth to Groundwater (feet, BTOC)	Groundwater Elevation (feet, AMSL)
LB-13I	2/4/2013	202.36	24.14	178.22
LB-13I	8/20/2013	202.36	26.85	175.51
LB-13C	2/4/2013	202.68	24.55	178.13
LB-13C	8/20/2013	202.68	27.23	175.45
LB-13D	2/4/2013	202.96	24.80	178.16
LB-13D	8/20/2013	202.96	27.60	175.36
LB-17S	2/4/2013	208.18	27.41	180.77
LB-17S	8/20/2013	208.18	30.11	178.07
LB-17I	2/4/2013	213.14	32.58	180.56
LB-17I	8/20/2013	213.14	35.29	177.85
LB-17C	2/4/2013	206.55	26.22	180.33
LB-17C	8/20/2013	206.55	28.95	177.60
LB-17D	2/4/2013	213.17	33.43	179.74
LB-17D	8/20/2013	213.17	36.18	176.99
LB-20S	2/4/2013	221.22	36.85	184.37
LB-20S	8/20/2013	221.22	39.25	181.97
LB-21S	2/4/2013	223.35	34.22	189.13
LB-21S	8/20/2013	223.35	36.85	186.50
LB-21C	2/4/2013	223.32	34.69	188.63
LB-21C	8/20/2013	223.32	37.25	186.07
LB-21D	2/4/2013	223.63	37.38	186.25
LB-21D	8/20/2013	223.63	40.20	183.43
LB-22S	2/4/2013	208.42	4.30	204.12
LB-22S	8/20/2013	208.42	6.61	201.81
LB-23S	2/4/2013	229.19	29.24	199.95
LB-23S	8/20/2013	229.19	31.12	198.07
LB-24S	2/4/2013	235.13	37.33	197.80
LB-24S	8/20/2013	235.13	38.94	196.19
LB-26I	2/4/2013	200.22	21.49	178.73
LB-26I	8/20/2013	200.22	24.19	176.03
LB-26D	2/4/2013	200.75	21.23	179.52
LB-26D	8/20/2013	200.75	23.90	176.85

Table A-1
2013 Groundwater Elevation Data
Leichner Landfill

Monitoring Well	Date	Reference Elevation (feet, AMSL)	Depth to Groundwater (feet, BTOC)	Groundwater Elevation (feet, AMSL)
LB-27I	2/4/2013	205.35	27.37	177.98
LB-27I	8/20/2013	205.35	30.16	175.19
LB-27D	2/4/2013	204.63	33.55	171.08
LB-27D	8/20/2013	204.63	36.60	168.03
MW-1 N	2/4/2013	216.58	Dry	NA
MW-1 N	8/20/2013	216.58	Dry	NA
MW-1 S	2/4/2013	216.13	34.21	181.92
MW-1 S	8/20/2013	216.13	36.72	179.41
MW-1 E	2/4/2013	216.45	Dry	NA
MW-1 E	8/20/2013	216.45	Dry	NA
MW-NE	2/4/2013	220.06	11.73	208.33
MW-NE	8/20/2013	220.06	14.31	205.75

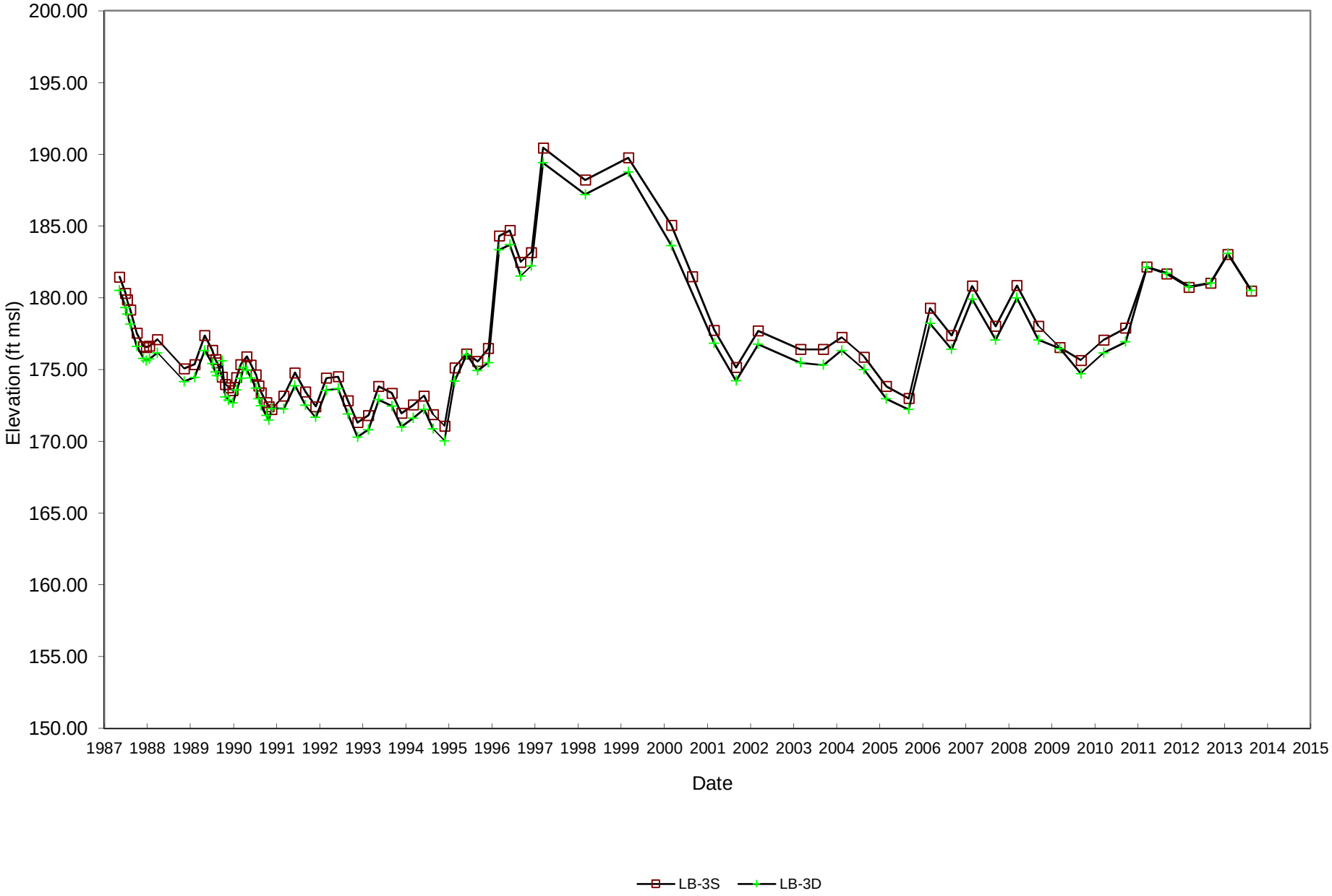
Notes:
AMSL = above mean sea level; BTOC = below top of casing; NA = not applicable.

Groundwater Elevation Hydrographs

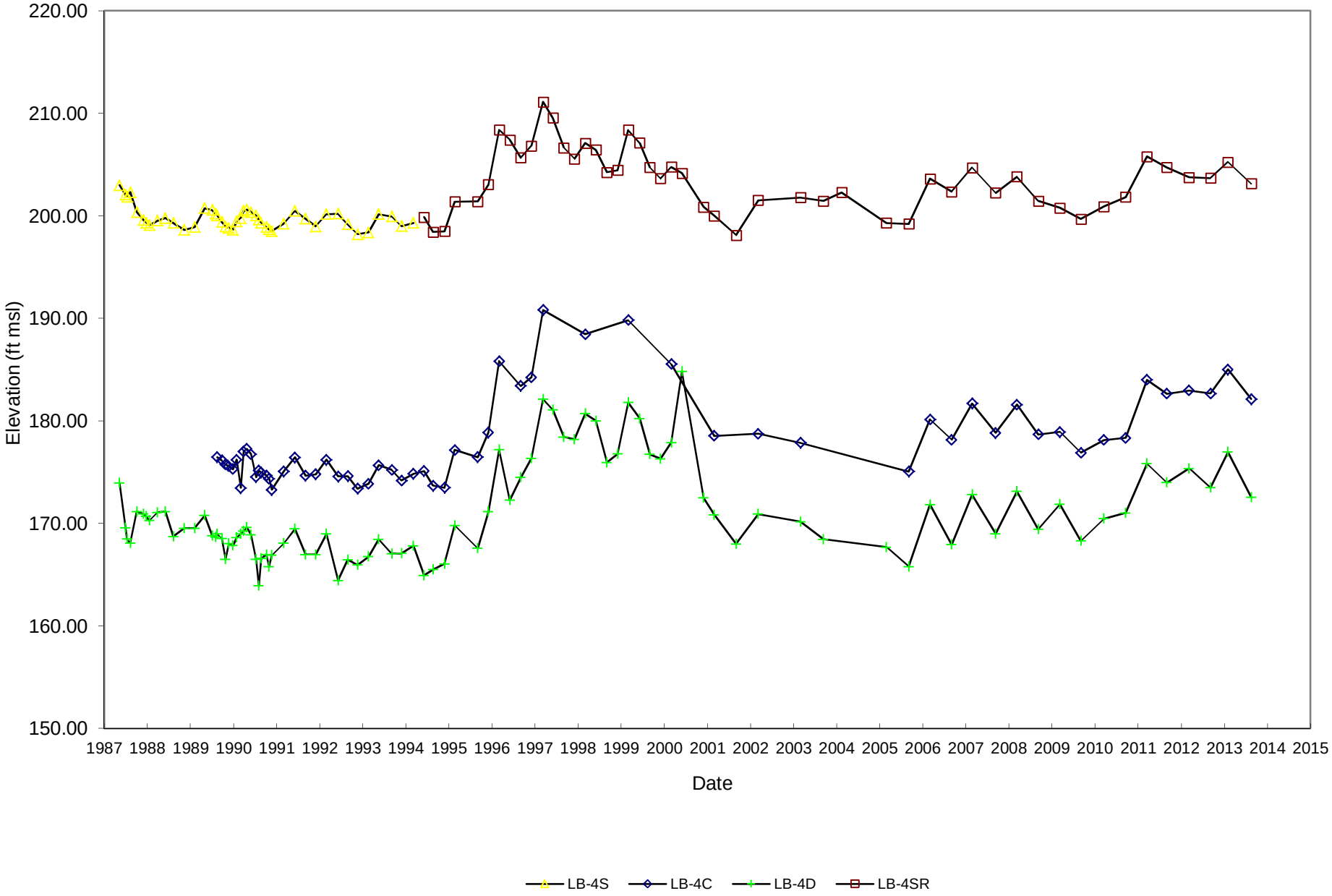
Leichner Landfill
Water Levels

Leichner Landfill
Water Levels

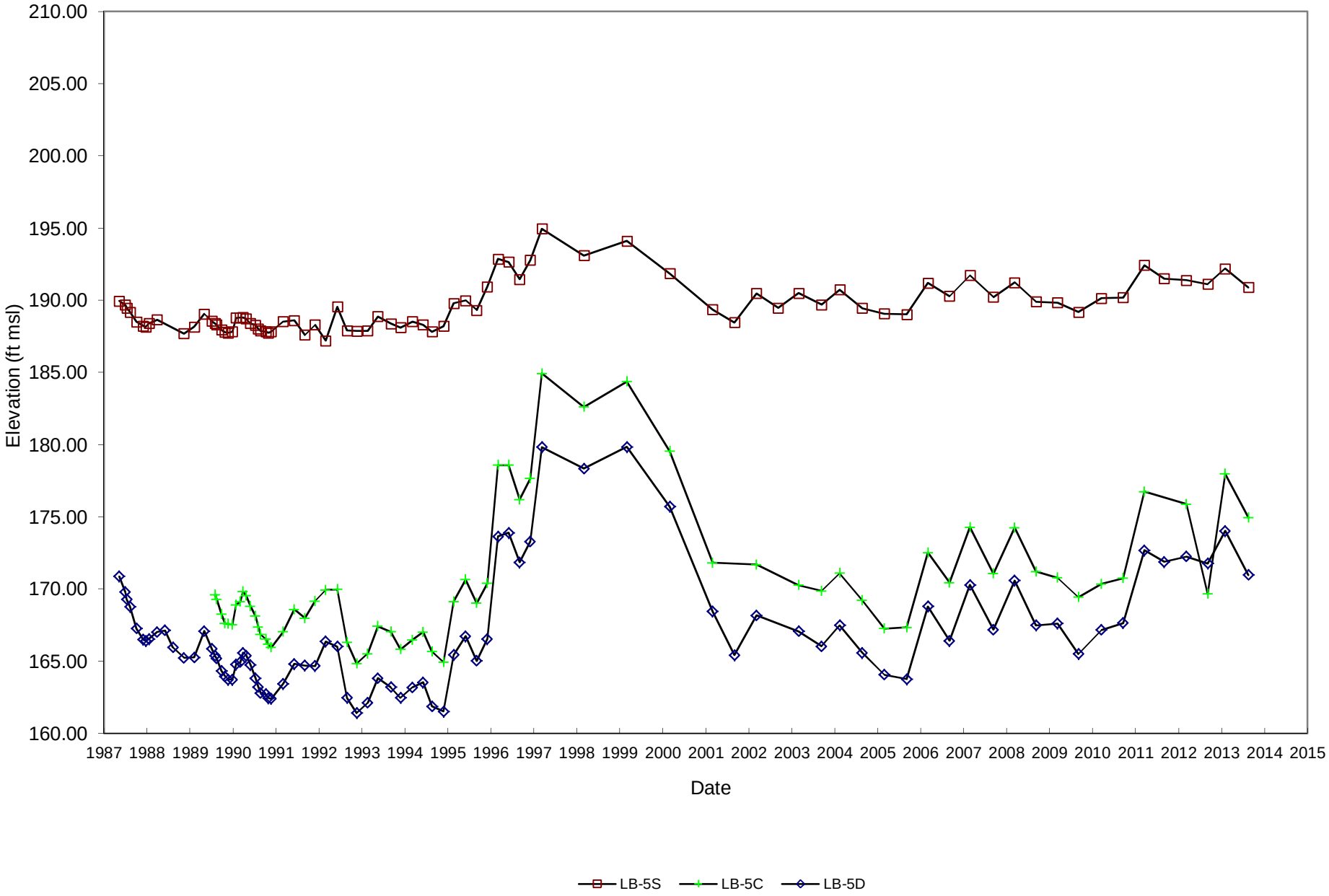
Leichner Landfill
Water Levels



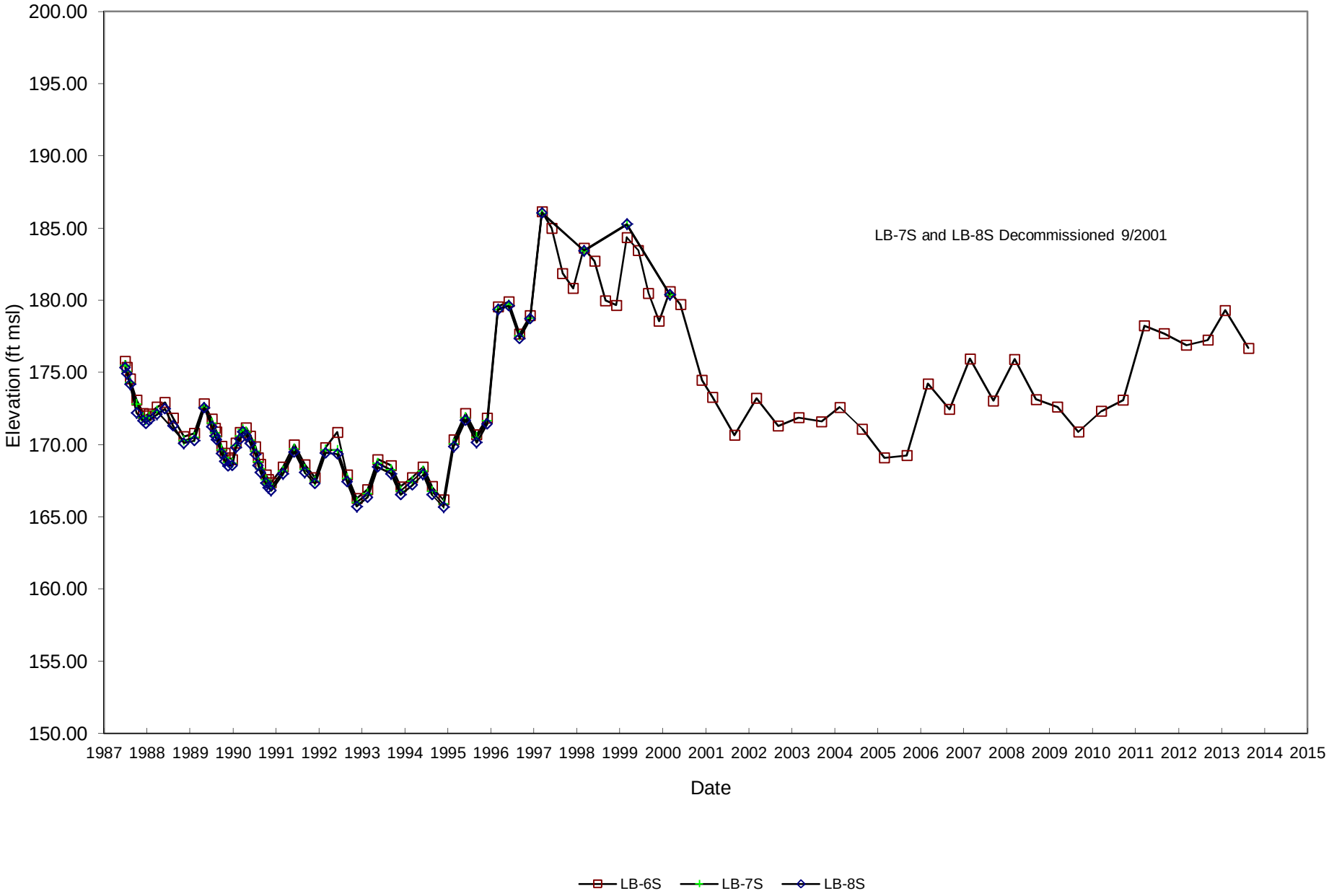
Leichner Landfill
Water Levels



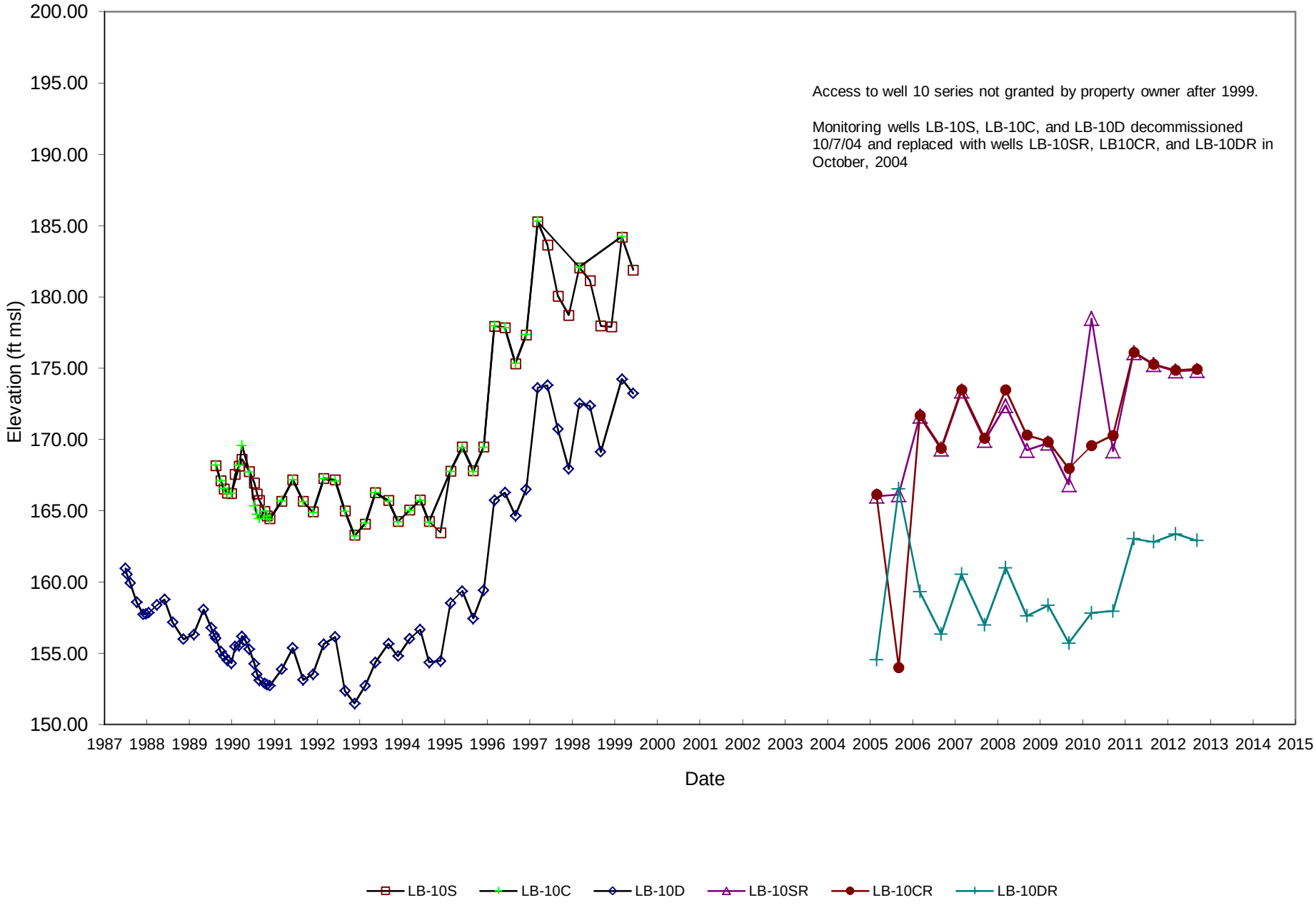
Leichner Landfill
Water Levels



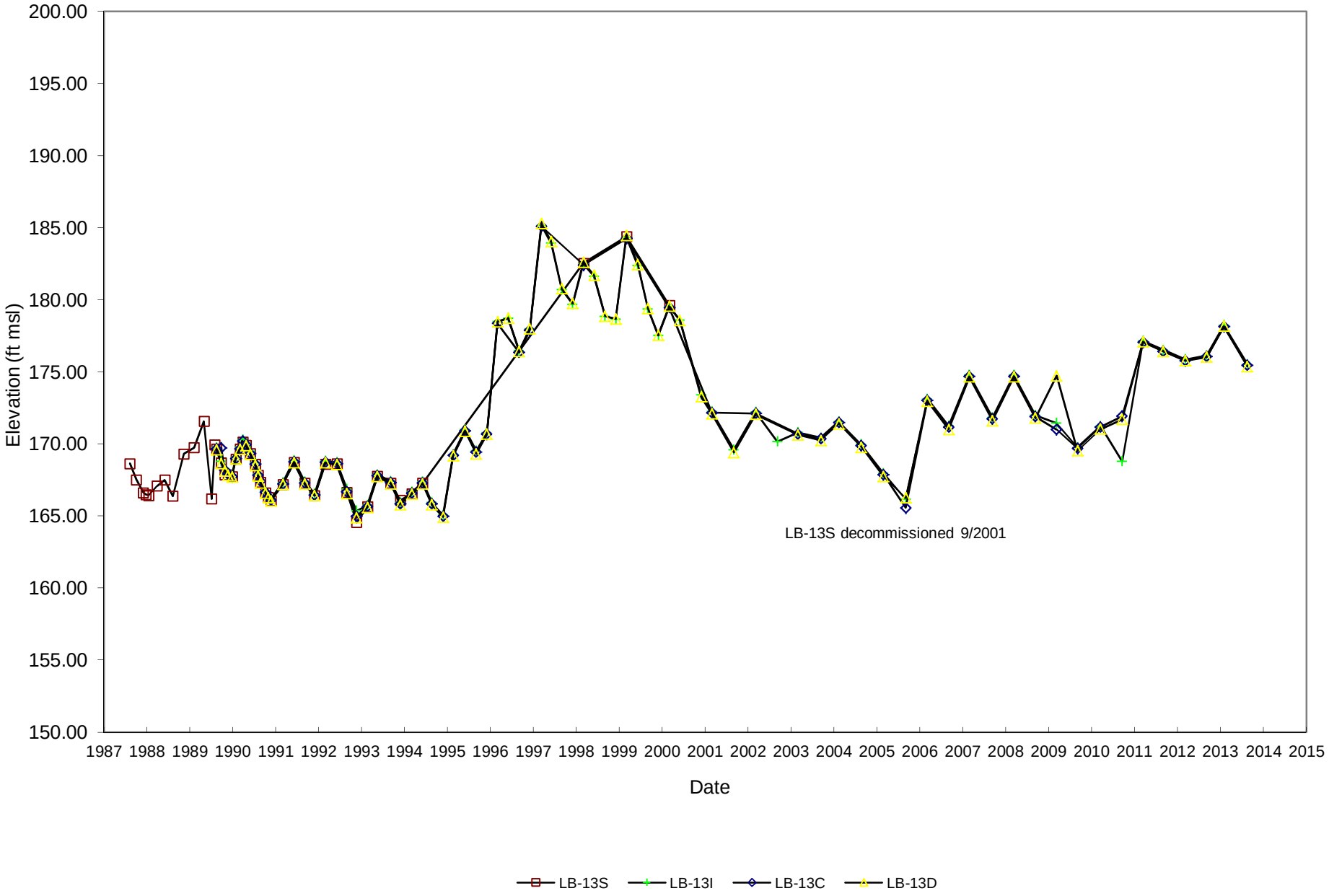
Leichner Landfill
Water Levels



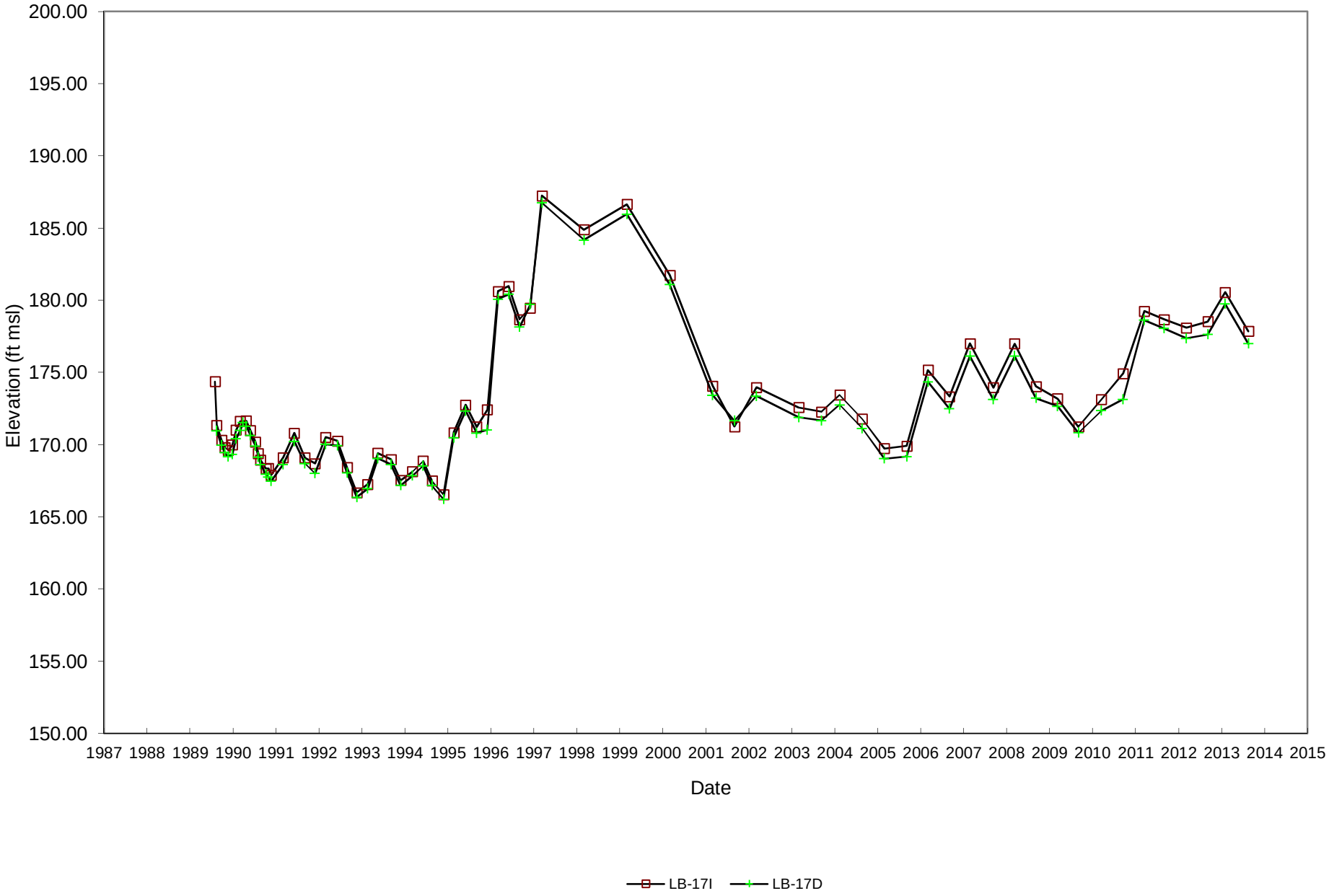
Leichner Landfill
Water Levels



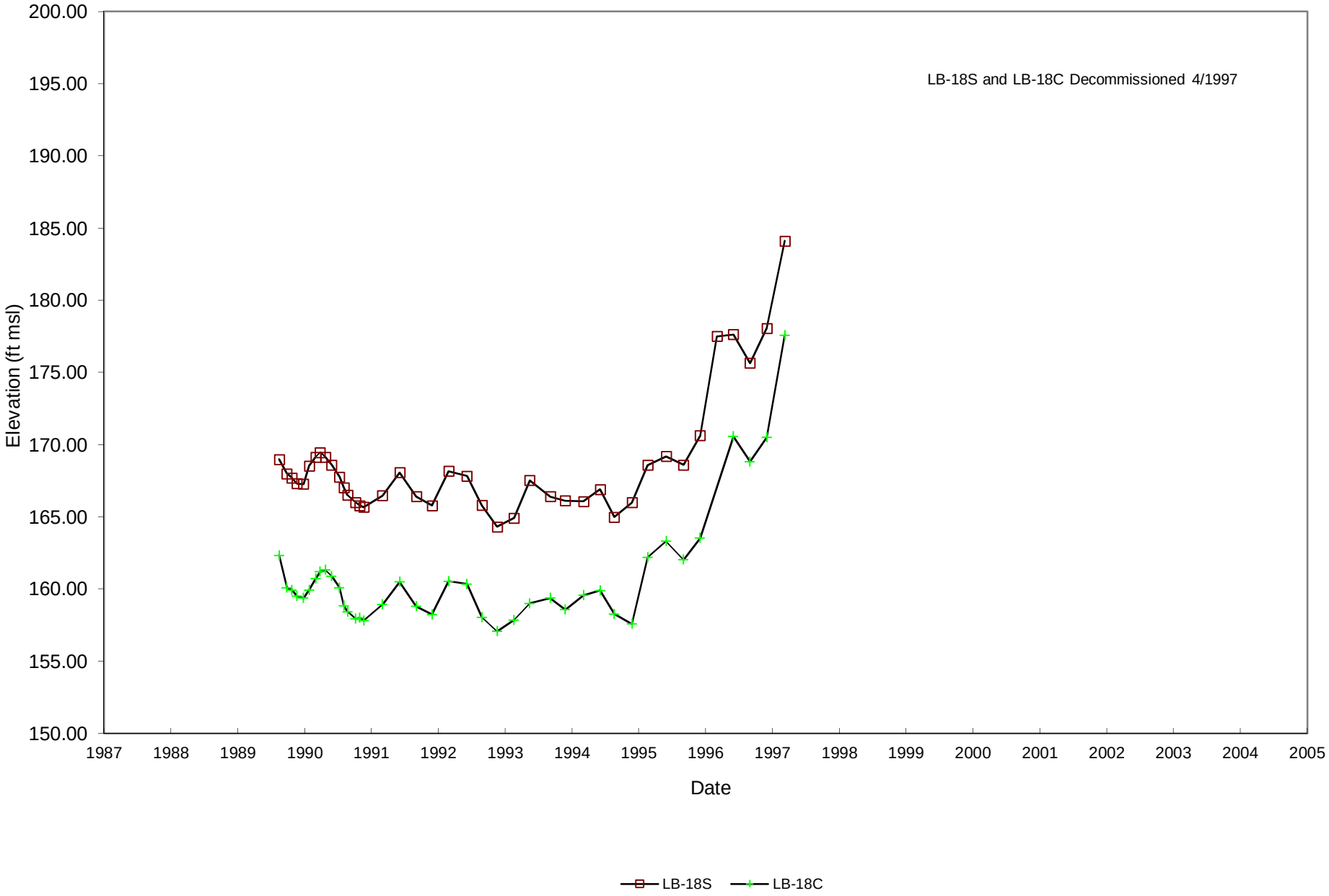
Leichner Landfill
Water Levels



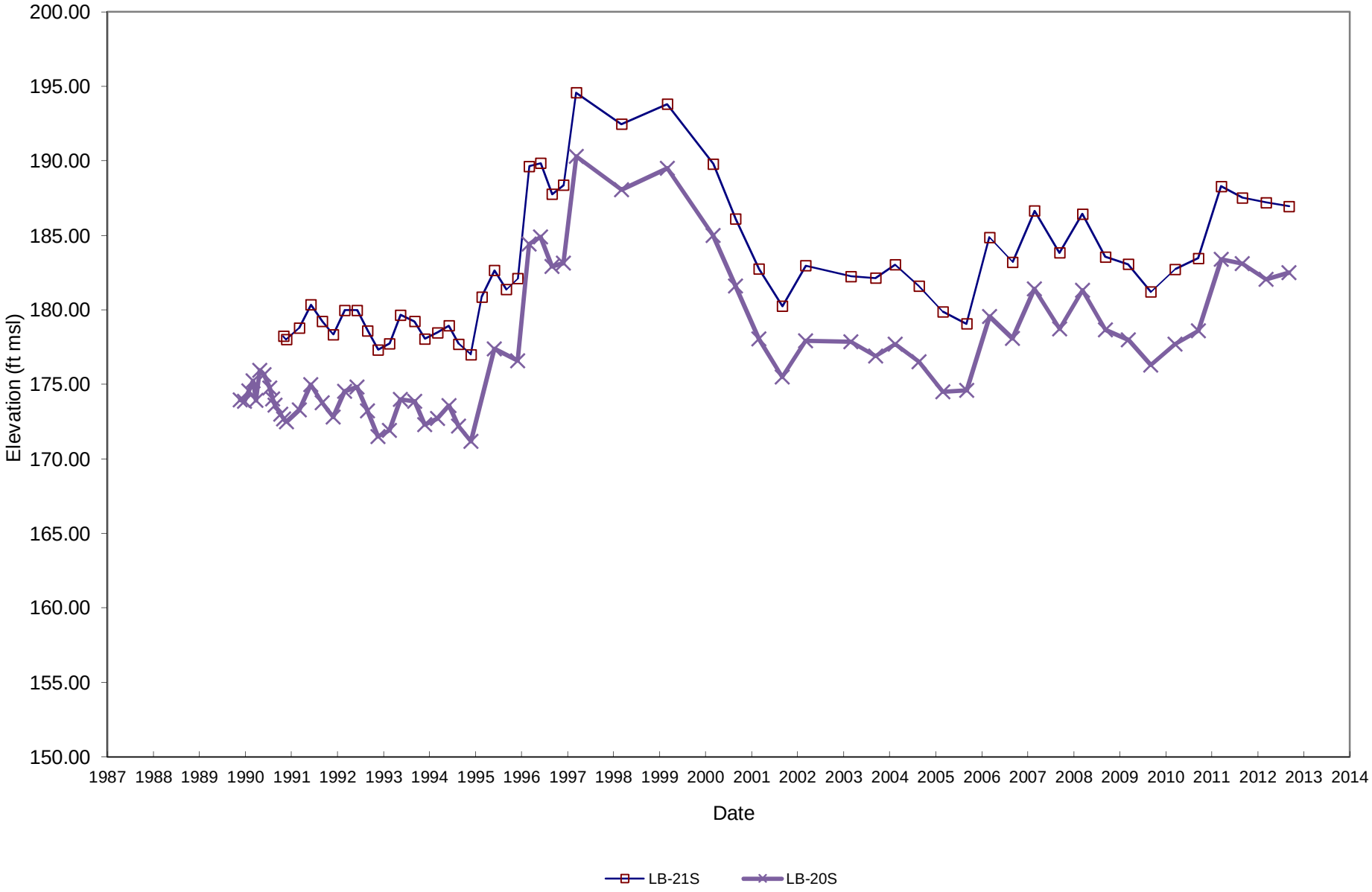
Leichner Landfill
Water Levels



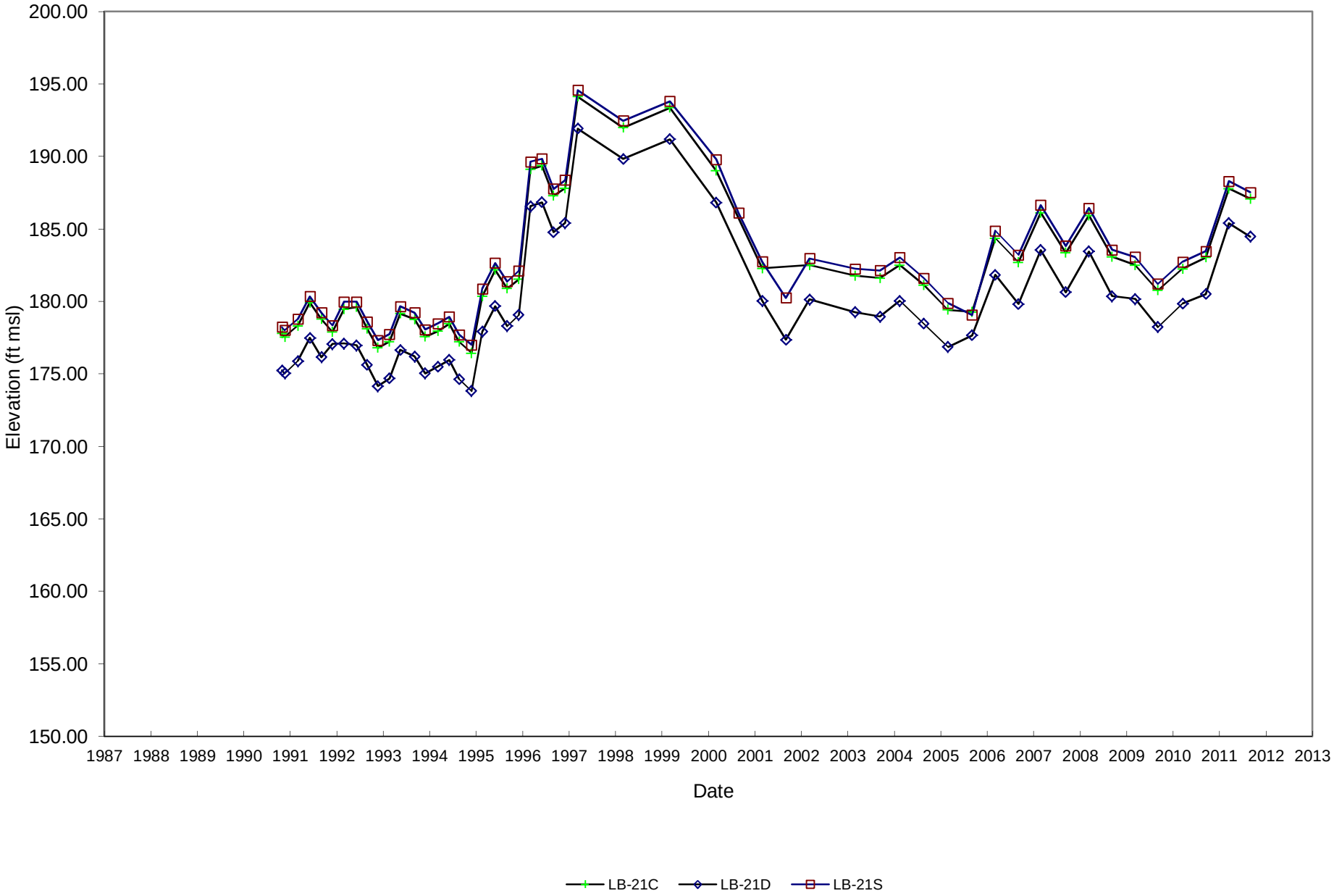
Leichner Landfill
Water Levels



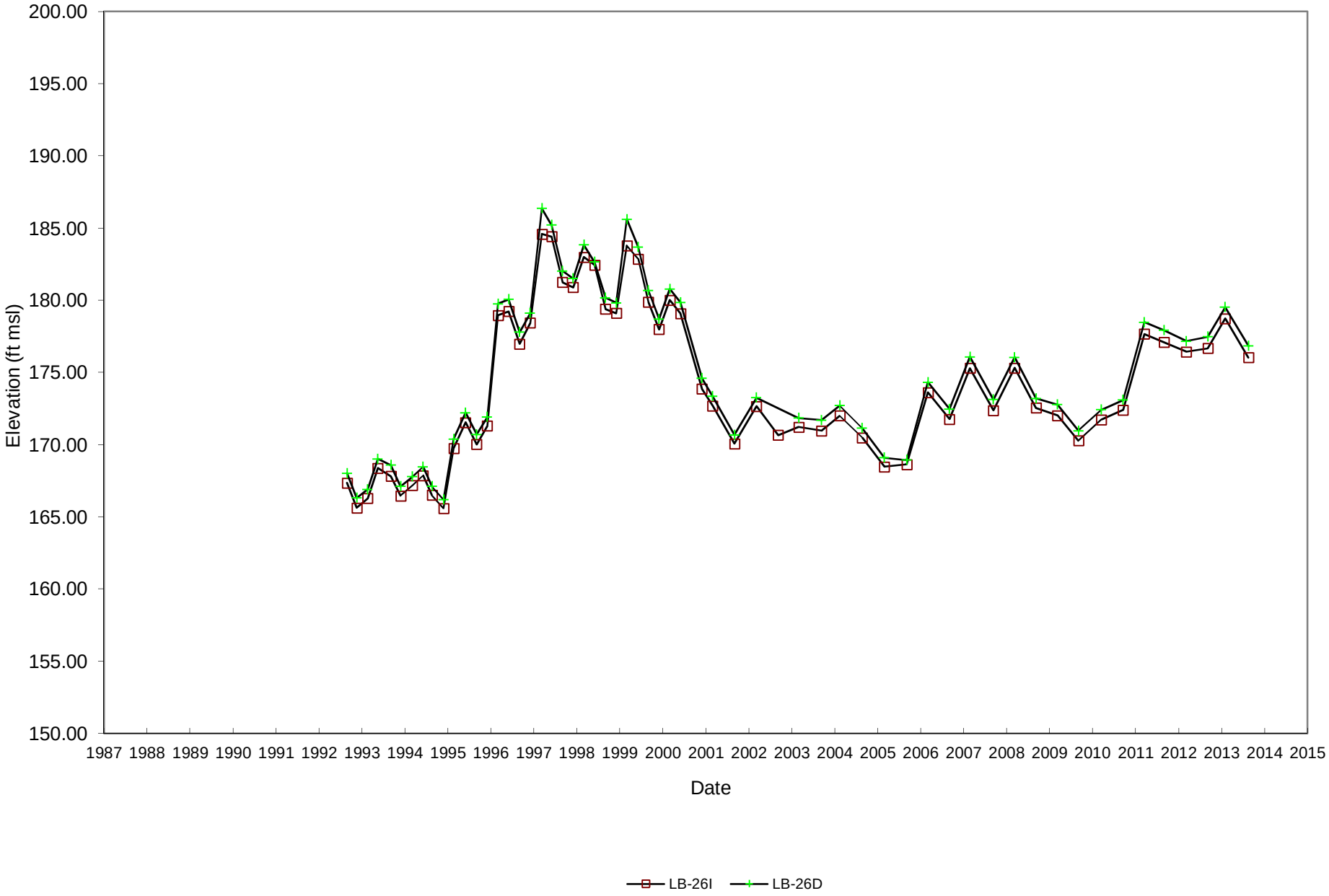
Leichner Landfill
Water Levels



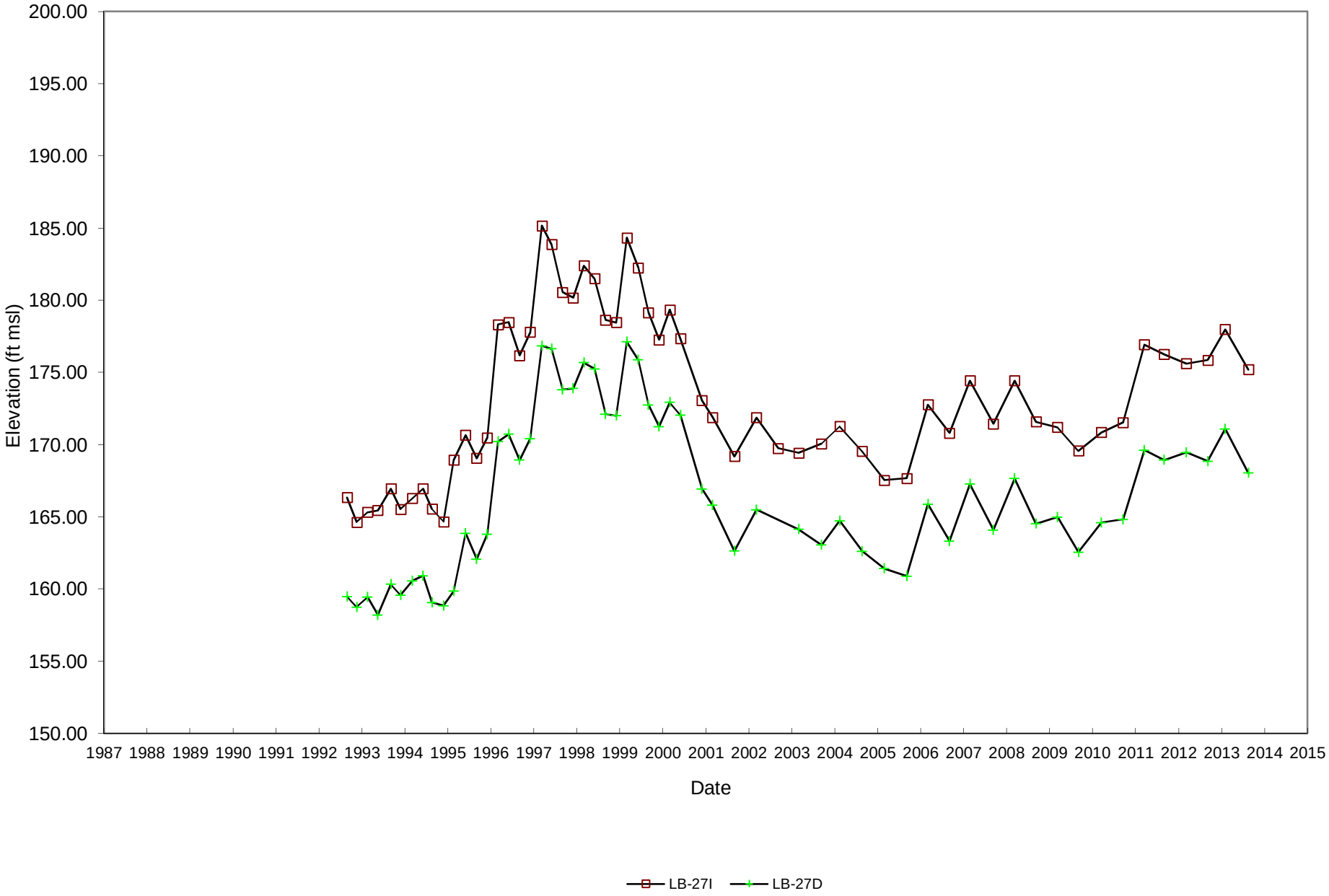
Leichner Landfill
Water Levels



Leichner Landfill
Water Levels



Leichner Landfill
Water Levels



APPENDIX B

2013 and Historical Groundwater Analytical Data (Summary Tables)

Field Parameters

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}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 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}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	2/5/2013	6.70	240	11.8	8.25
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 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}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	2/5/2013	6.50	279	12.1	6.00
LB-1S	LB-082213-08	8/22/2013	5.84	312	13.0	4.12
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/7/2013	6.49	221	11.2	5.14
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/7/2013	6.46	236	11.5	5.36
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
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

Table B-1
Groundwater Chemistry, Field Parameters
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Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/4/2013	7.20	195	11.6	5.50
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/4/2013	6.30	206	12.3	9.18
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/5/2013	6.69	333	11.3	0.39
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/5/2013	6.20	183	11.7	8.34
LB-5S	LB-082113-01	8/21/2013	6.10	127	13.7	6.01
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/6/2013	6.66	200	11.7	3.23
LB-6S (Dup)	LB-020613-16	2/6/2013	6.66	200	11.7	3.23
LB-6S	LB-082113-07	8/21/2013	6.03	181	13.6	4.61
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	2/7/2013	6.68	458	12.5	0.89
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
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

Table B-1
Groundwater Chemistry, Field Parameters
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Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/7/2013	6.66	473	12.7	0.26
LB-10SR	LB-082213-09	8/22/2013	6.70	319	14.0	0.26
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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
LB-13D	LB-031212-01	3/12/12	6.27	235	11.5	5.32
LB-13D	LB-020713-22	2/7/2013	6.46	228	11.7	5.88
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/6/2013	6.74	290	11.7	1.75
LB-13I	LB-082113-05	8/21/2013	6.01	280	14.5	2.31
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
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

Table B-1
Groundwater Chemistry, Field Parameters
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Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/5/2013	6.73	344	13.5	0.14
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
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

Table B-1
Groundwater Chemistry, Field Parameters
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Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/5/2013	6.89	362	14.1	0.10
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	2/5/2013	6.76	574	12.2	0.15
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/7/2013	6.45	236	11.8	4.43
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
LB-26I	LB-020613-14	2/6/2013	6.61	250	11.8	4.65
LB-26I	LB-082113-06	8/21/2013	6.00	244	13.7	4.25
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/7/2013	6.77	330	11.0	3.64
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
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

Table B-1
Groundwater Chemistry, Field Parameters
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Field pH (S.U.)	Field Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)
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	2/6/2013	6.81	670	12.1	0.29
LB-27I (Dup)	LB-020613-12	2/6/2013	6.81	670	12.1	0.29
LB-27I	LB-082113-03	8/21/2013	6.00	720	14.5	0.38
LB-27I (Dup)	LB-082113-04	8/21/2013	6.00	720	14.5	0.38
FIELDQC	LN-020513-08	2/5/13	N/A	N/A	N/A	N/A
FIELDQC	LB-082113-02	8/21/13	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 2013
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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	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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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-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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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
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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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-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-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 2013
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-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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	LB-091599-2	9/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-27I	LB-121599-6	12/15/99	0.2 L	0.3 L	0.2 L	NT	NT	NT	NT	NT
LB-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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-27I	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

Table B-2
Groundwater Chemistry, Volatile Organic Compounds (µg/L)
1987 through 2013
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	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-27I	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-27I	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-27I	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-27I	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-27I	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
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
FIELDQC	LB-020513-08	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
FIELDQC	LB-082113-02	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
FIELDQC	Trip Blank	2/4/13	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L	1.00 L
FIELDQC	Trip Blank	8/21/13	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 2013
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 2013
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	2/5/2013	NT	7.6	6.0	160	0.036	0.0058
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/5/2013	NT	7.9	6.3	200	0.025 L	0.0020 L
LB-1S	LB-082213-08	8/22/2013	NT	13.0	8.7	250	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
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	2/7/2013	NT	4.4	4.5	170	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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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	2/7/2013	NT	4.1	4.3	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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/4/2013	NT	4.5	8.2	180	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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/4/2013	NT	3.5	4.0	170	0.025 L	0.0034
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/5/2013	NT	9.3	0.68	210	0.025 L	0.0022
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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	2/5/2013	NT	4.0	3.5	150	0.025 L	0.0020 L
LB-5S	LB-082113-01	8/21/2013	NT	3.9	4.8	150	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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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	2/6/2013	NT	4.9	1.1	130	0.025 L	0.0020 L
LB-6S (Dup)	LB-020613-16	2/6/2013	NT	8.0	1.0	150	0.028	0.0021
LB-6S	LB-082113-07	8/21/2013	NT	3.7	1.5	150	0.025 L	0.0020 L

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/6/2013	NT	22	1.7	290	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
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	2/7/2013	NT	32	1.1	290	0.025 L	0.0058
LB-10SR	LB-082213-09	8/22/2013	NT	18	0.8	270	0.025 L	0.0025
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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	2/5/2013	NT	5.0	5.1	170	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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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	2/7/2013	NT	8.8	3.6	190	0.025 L	0.0031
LB-13I	LB-082113-05	8/21/2013	NT	11.0	4.3	210	0.025 L	0.0020 L
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
LB-17D	LB-63092-5	6/30/92	842	58.0	0.2 L	522	0.20	11.6

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/5/2013	NT	13	0.1 L	220	0.11	4.2
LB-17I	LB-989-W04	9/6/89	1020	85.0	0.2 L	770	45.70	13.3
LB-17I	LB-1089-W14	10/19/89	1080	125.0	0.2 L	692	46.00	10.1
LB-17I	LB-1189-W14	11/15/89	872	115.0	0.2 L	613	41.50	8.07
LB-17I	LB-1289-W29	12/20/89	920	90.0	0.2	585	36.50	7.67
LB-17I	LB-1289-W30	12/20/89	910	90.0	0.2	591	34.70	8
LB-17I	LB-390-W20	3/15/90	724	26.9	0.2 L	484	29.30	4.01
LB-17I	LB-690-W17	6/21/90	1140	96.0	0.2 L	766	48.50	6.74
LB-17I	LB-990-W18	9/19/90	1090	92.0	0.2 L	710	37.30	8.09
LB-17I	LB-1290-W22	12/13/90	967	38.4	0.2 L	666	41.50	7.17
LB-17I	LB-391-W20	3/21/91	1240	36.6	0.2 L	663	46.40	6.14
LB-17I	LB-392-13	3/23/92	1010	40.0	0.2 L	545	45.90	3.86
LB-17I	LB-63092-6	6/30/92	1210	71.0	0.2 L	708	56.20	6.5
LB-17I	LB-63092-7	6/30/92	1230	71.0	0.2 L	697	56.50	6.49
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/5/2013	NT	10	0.1 L	190	6.0	0.92
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/5/2013	NT	17	0.1 L	340	0.18	3.5
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/6/2013	NT	5.1	5.5	180	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
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

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1987 through 2013
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Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/6/2013	NT	6.0	4.9	200	0.064	0.0020 L
LB-26I	LB-082113-06	8/21/2013	NT	7.5	5.0	200	0.025 L	0.0020 L
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/7/2013	NT	10	4.2	230	0.083	0.018
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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
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

Table B-3
Groundwater Chemistry, Inorganic Parameters and Dissolved Metals Concentrations (mg/L)
1987 through 2013
Leichner Landfill

Location	Sample Number	Date	Conductivity	Chloride	Nitrate as Nitrogen	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese
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	2/6/2013	NT	41	0.22	380	0.025 L	0.52
LB-27I (Dup)	LB-020613-12	2/6/2013	NT	42	0.21	380	0.025 L	0.52
LB-27I	LB-082113-03	8/21/2013	NT	51	0.10 L	420	0.025 L	0.41
LB-27I (Dup)	LB-082113-05	8/21/2013	NT	51	0.10 L	420	0.025 L	0.42
FIELDQC	LB-020513-08	2/5/2013	NT	0.5 L	0.1 L	10 L	0.025 L	0.0020 L
FIELDQC	LB-082113-02	8/21/2013	NT	0.5 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

Summary of 2013 Groundwater Statistical Calculations

Leichner Landfill
Groundwater Statistics - March 2009 through August 2013 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	Non	7.62	M(14)	5	5	Lognormal	7.18	7.70
Nitrate (mg/L)	10	10	Lognormal	6.94	6.80	5	5	Lognormal	5.98	6.08
TDS (mg/L)	10	10	Lognormal	204.20	219.19	5	5	Lognormal	170.80	193.80
Metals (mg/L)										
Iron (dissolved)	10	1	NC	0.051	M(0.051)	5	1	NC	0.036	M(0.036)
Manganese (dissolved)	10	1	NC	0.002	M(0.002)	5	1	NC	0.0058	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	Lognormal	3.47	4.01	5	5	Lognormal	3.97	4.40
Nitrate (mg/L)	5	5	Lognormal	3.72	4.11	5	5	Lognormal	4.88	5.45
TDS (mg/L)	5	5	Lognormal	168.80	187.76	5	5	Lognormal	170.00	194.35
Metals (mg/L)										
Iron (dissolved)	5	0	NC	NC	All ND	5	0	NC	NC	All ND
Manganese (dissolved)	5	0	NC	NC	All ND	5	0	NC	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 2013 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	Lognormal	4.04	5.48	6	6	Lognormal	3.37	3.93
Nitrate (mg/L)	5	5	Lognormal	3.82	4.80	6	6	Lognormal	6.91	7.58
TDS (mg/L)	5	5	Lognormal	165.60	187.08	6	6	Lognormal	147.00	167.68
Metals (mg/L)										
Iron (dissolved)	5	0	NC	NC	All ND	6	0	NC	NC	All ND
Manganese (dissolved)	5	1	NC	0.0034	M(0.0034)	6	0	NC	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	Non	4.96	M(7.3)	5	5	Lognormal	11.08	12.55
Nitrate (mg/L)	12	12	Lognormal	4.49	4.97	5	5	Lognormal	1.11	1.81
TDS (mg/L)	12	12	Non	163.33	M(210)	5	5	Lognormal	225.00	240.42
Metals (mg/L)										
Iron (dissolved)	12	2	NC	0.40	M(0.707)	5	0	NC	NC	All ND
Manganese (dissolved)	12	1	NC	0.0157	M(0.0157)	5	1	NC	0.0022	M(0.0022)
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 2013 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	Lognormal	6.60	7.46	5	5	Lognormal	11.50	M(22.1)
Nitrate (mg/L)	16	16	Lognormal	1.85	2.60	5	1	NC	0.10	M(0.1)
TDS (mg/L)	16	16	Lognormal	184.75	200.13	5	5	Lognormal	283.80	M(361)
Metals (mg/L)										
Iron (dissolved)	16	5	Lognormal*	0.11	M(0.379)	5	5	Lognormal	0.19	M(0.368)
Manganese (dissolved)	16	4	Lognormal*	0.01	M(0.031)	5	5	Normal	1.98	3.10
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	NC	0.023	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

* MTCAStat 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	Lognormal	16.07	26.51	5	5	Lognormal	23.74	M(26.8)
Nitrate (mg/L)	12	12	Lognormal	2.28	3.57	5	5	Lognormal	1.37	M(1.8)
TDS (mg/L)	12	12	Lognormal	251.58	280.37	5	5	Lognormal	296.00	315.10
Metals (mg/L)										
Iron (dissolved)	12	1	NC	1.15	M(1.15)	5	2	NC	0.04	M(0.047)
Manganese (dissolved)	12	6	Lognormal	0.005	0.007	5	5	Lognormal	0.036	M(0.0677)
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	M(0.15)	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 2013 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	Non	7.21	M(12)	5	5	Lognormal	4.27	4.86
Nitrate (mg/L)	11	11	Lognormal	4.47	4.77	5	5	Lognormal	5.25	5.39
TDS (mg/L)	11	11	Lognormal	198.46	204.04	5	5	Lognormal	173.60	M(193)
Metals (mg/L)										
Iron (dissolved)	11	0	NC	NC	All ND	5	0	NC	NC	All ND
Manganese (dissolved)	11	2	NC	0.003	M(0.0031)	5	0	NC	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)	6	6	Non	13.82	M(27.4)	5	5	Lognormal	10.70	M(19)
Nitrate (mg/L)	6	0	NC	NC	All ND	5	0	NC	NC	All ND
TDS (mg/L)	6	6	Lognormal	229.50	269.64	5	5	Lognormal	206.80	227.46
Metals (mg/L)										
Iron (dissolved)	6	6	Lognormal	7.57	8.76	5	5	Lognormal	0.093	M (0.12)
Manganese (dissolved)	6	6	Lognormal	1.27	M(1.55)	5	5	Lognormal	3.88	4.44
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 2013 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	Lognormal	7.38	8.93	5	5	Lognormal	4.62	M(5.1)
Nitrate (mg/L)	10	10	Normal	4.42	5.01	5	5	Lognormal	6.02	6.42
TDS (mg/L)	10	10	Lognormal	204.10	213.81	5	5	Normal	180.80	201.28
Metals (mg/L)										
Iron (dissolved)	10	2	Non	0.05	M(0.064)	5	0	NC	NC	All ND
Manganese (dissolved)	10	7	Normal	0.006	0.0063	5	1	NC	0.003	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 2013 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	Lognormal	30.16	46.20	5	5	Lognormal	10.19	10.53
Nitrate (mg/L)	12	8	Lognormal	0.77	M(2.1)	5	5	Lognormal	3.88	4.16
TDS (mg/L)	10	10	Lognormal	366.42	401.43	5	5	Lognormal	230.00	241.89
Metals (mg/L)										
Iron (dissolved)	12	1	NC	0.03	M(0.032)	5	2	NC	0.06	M(0.083)
Manganese (dissolved)	12	12	Normal	0.34	0.42	5	2	NC	0.012	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 MTCAStat,

and (c) UCL calculated using MTCAStat was higher than the maximum value of the data set.

[a] Distribution was determined using MTCAStat 97 program and Statistical Guidance for Ecology Site Managers.

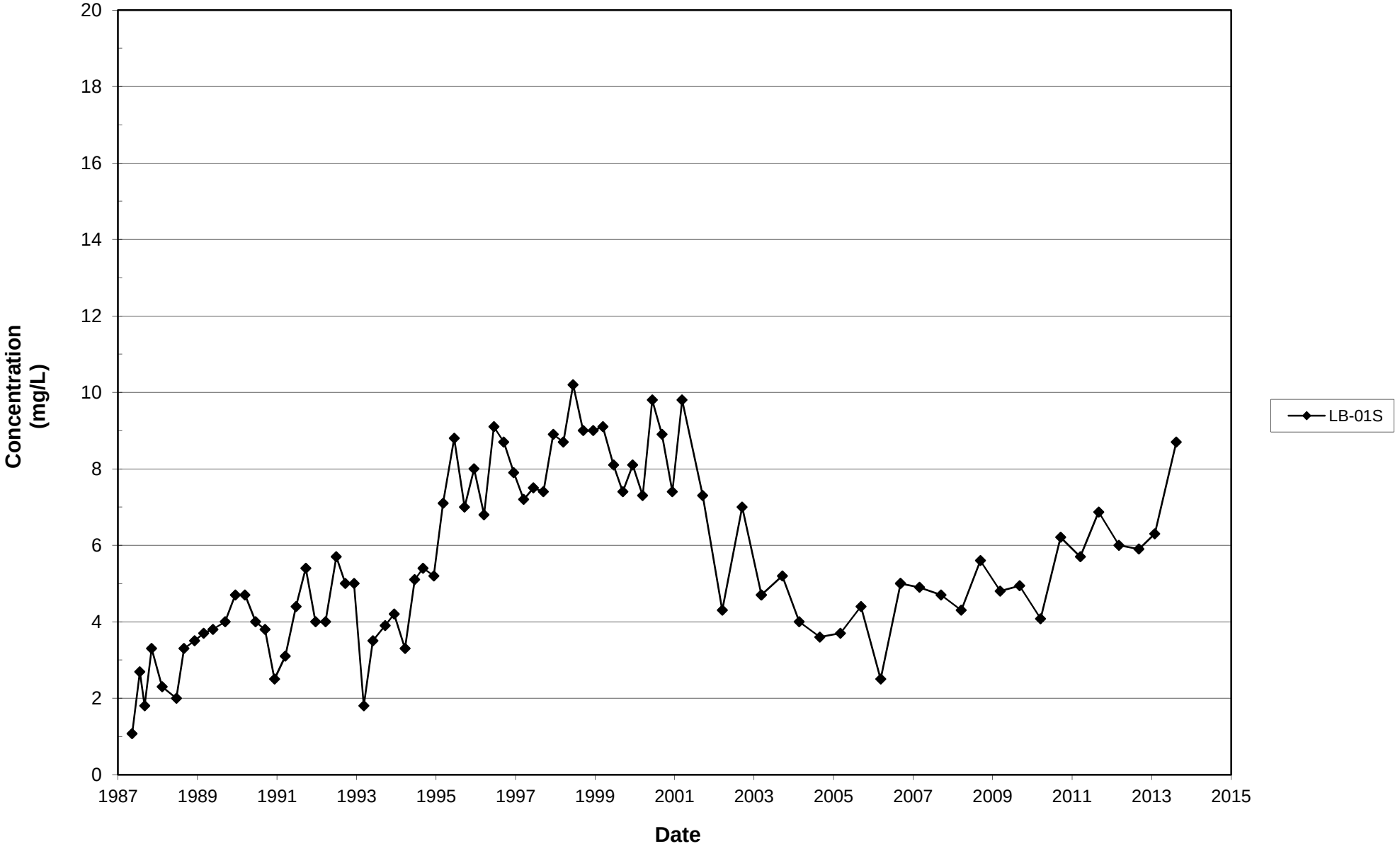
[b] UCL 95 was calculated using MTCAStat 97 program and Statistical Guidance for Ecology Site Managers.

APPENDIX D

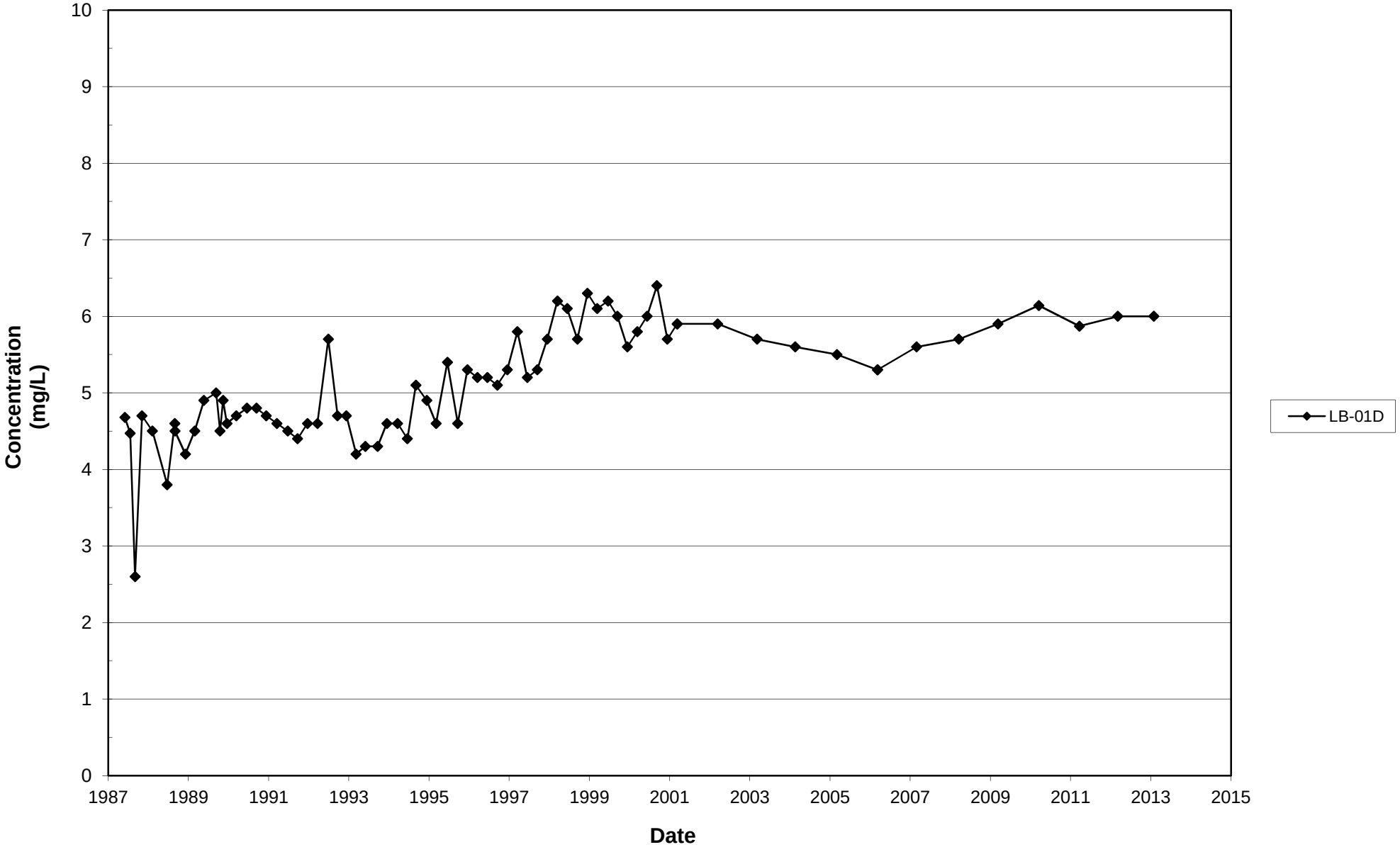
Groundwater Time-Series Concentration Graphs

Nitrate

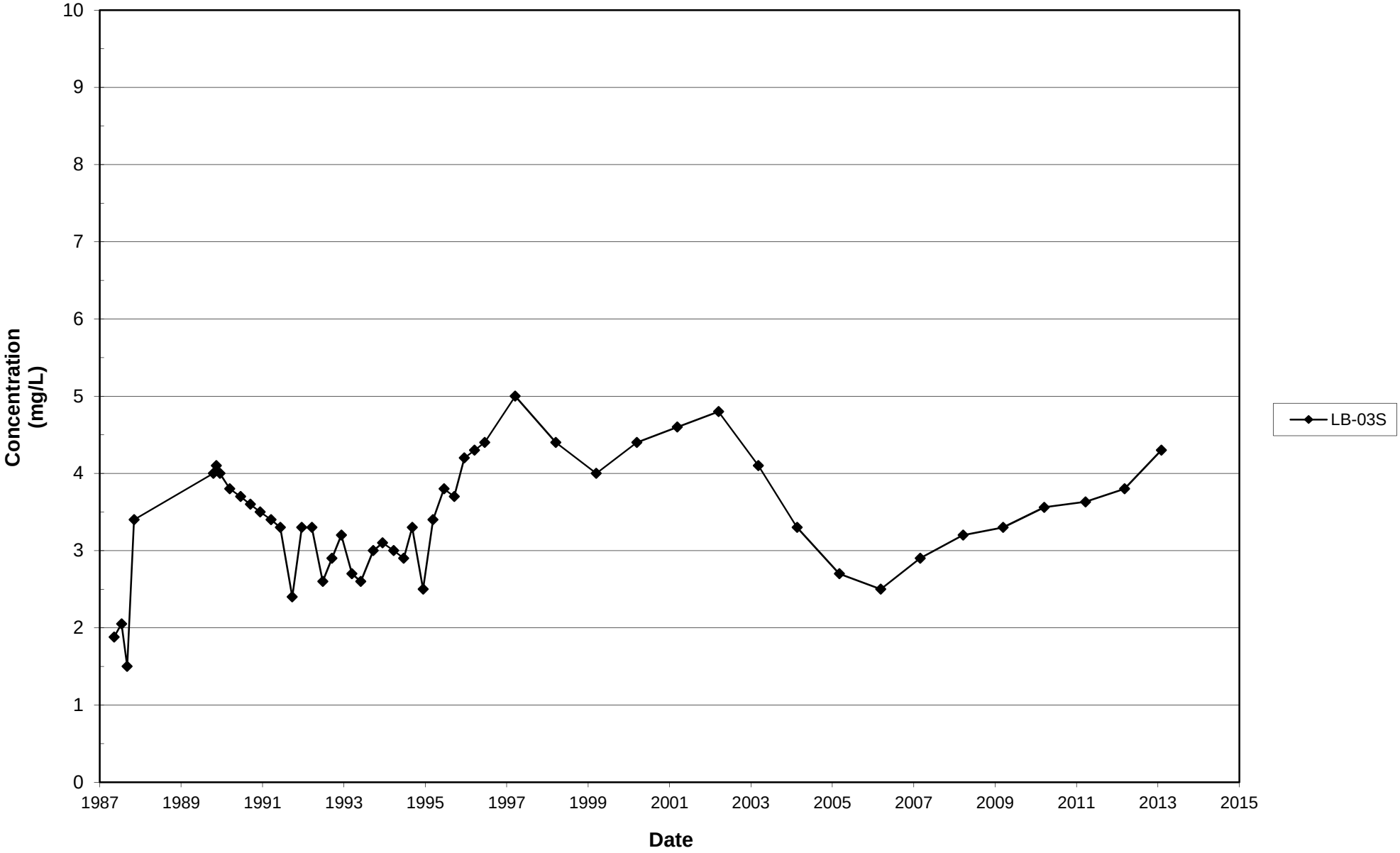
Leichner Landfill
Nitrate, LB-01S
1987 - 2013



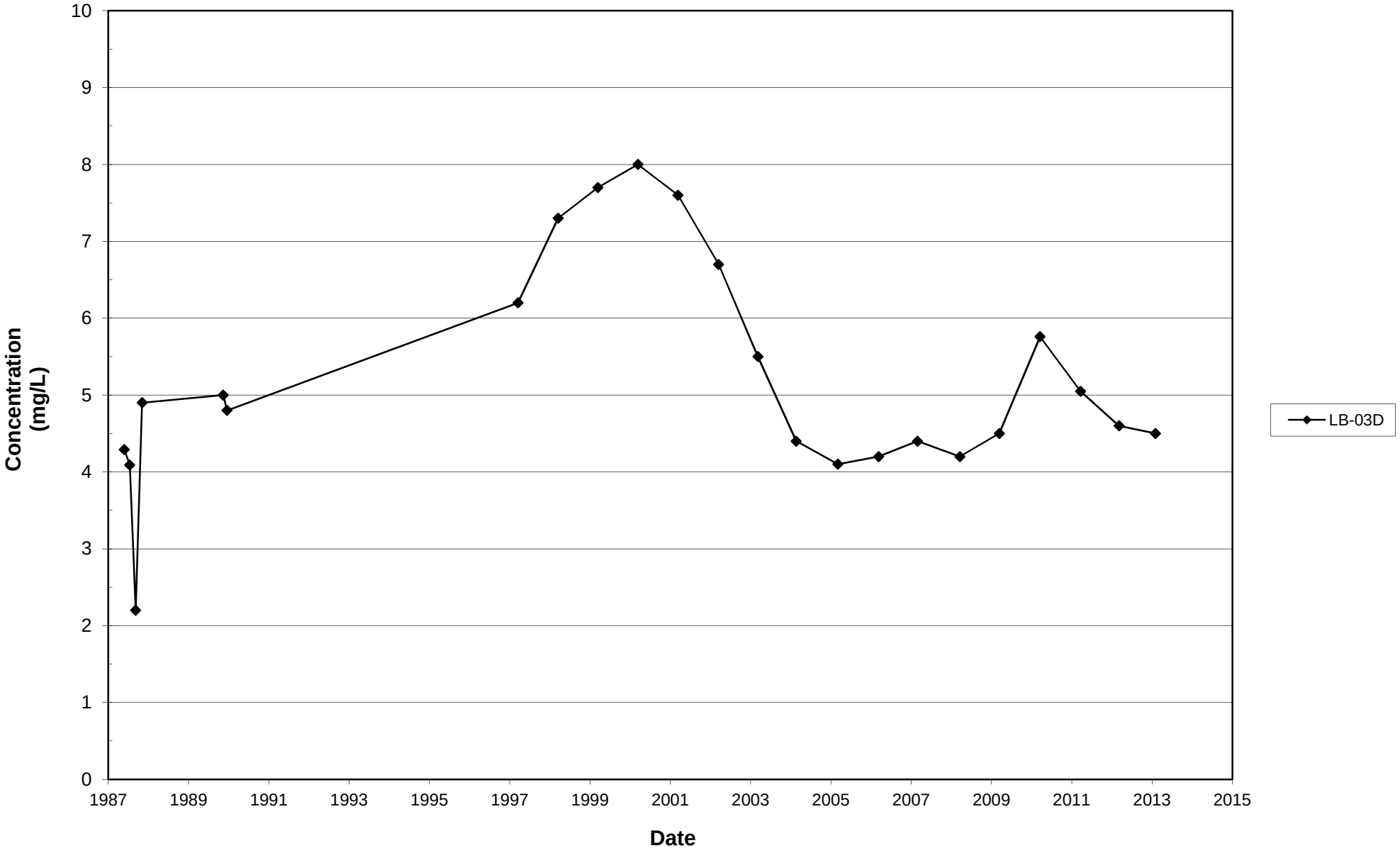
Leichner Landfill
Nitrate, LB-01D
1987 - 2013



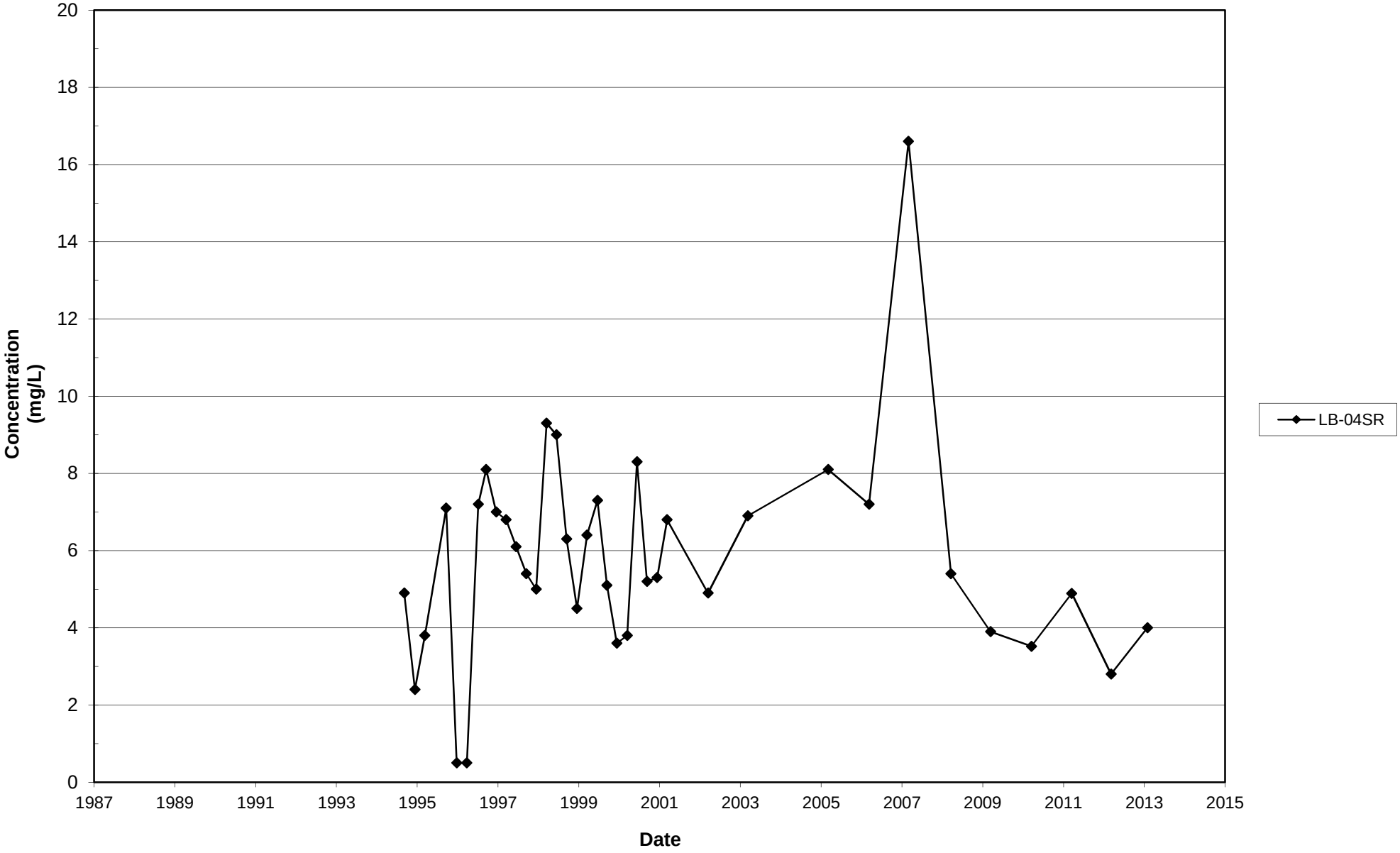
Leichner Landfill
Nitrate, LB-03S
1987 - 2013



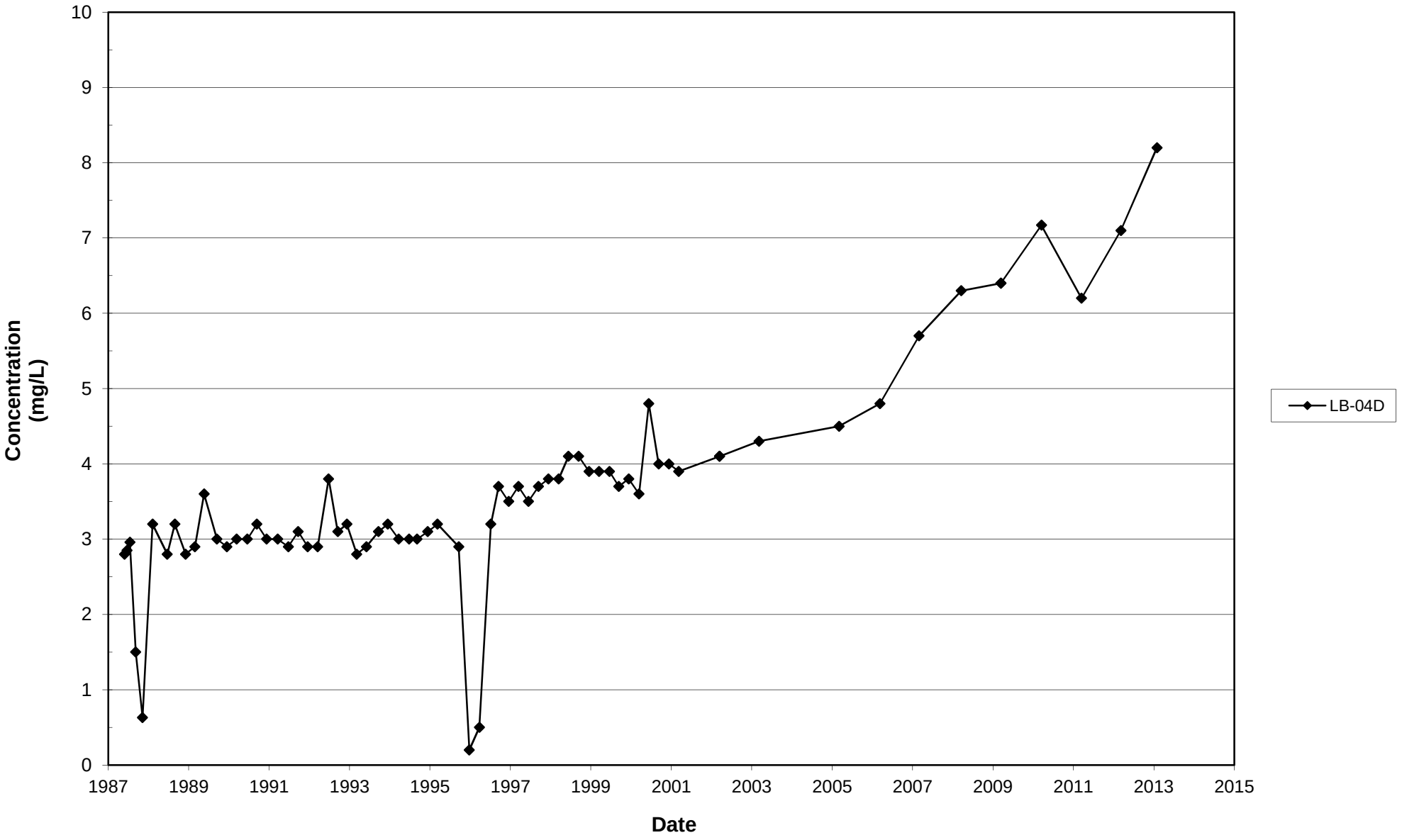
Leichner Landfill
Nitrate, LB-03D
1987 - 2013



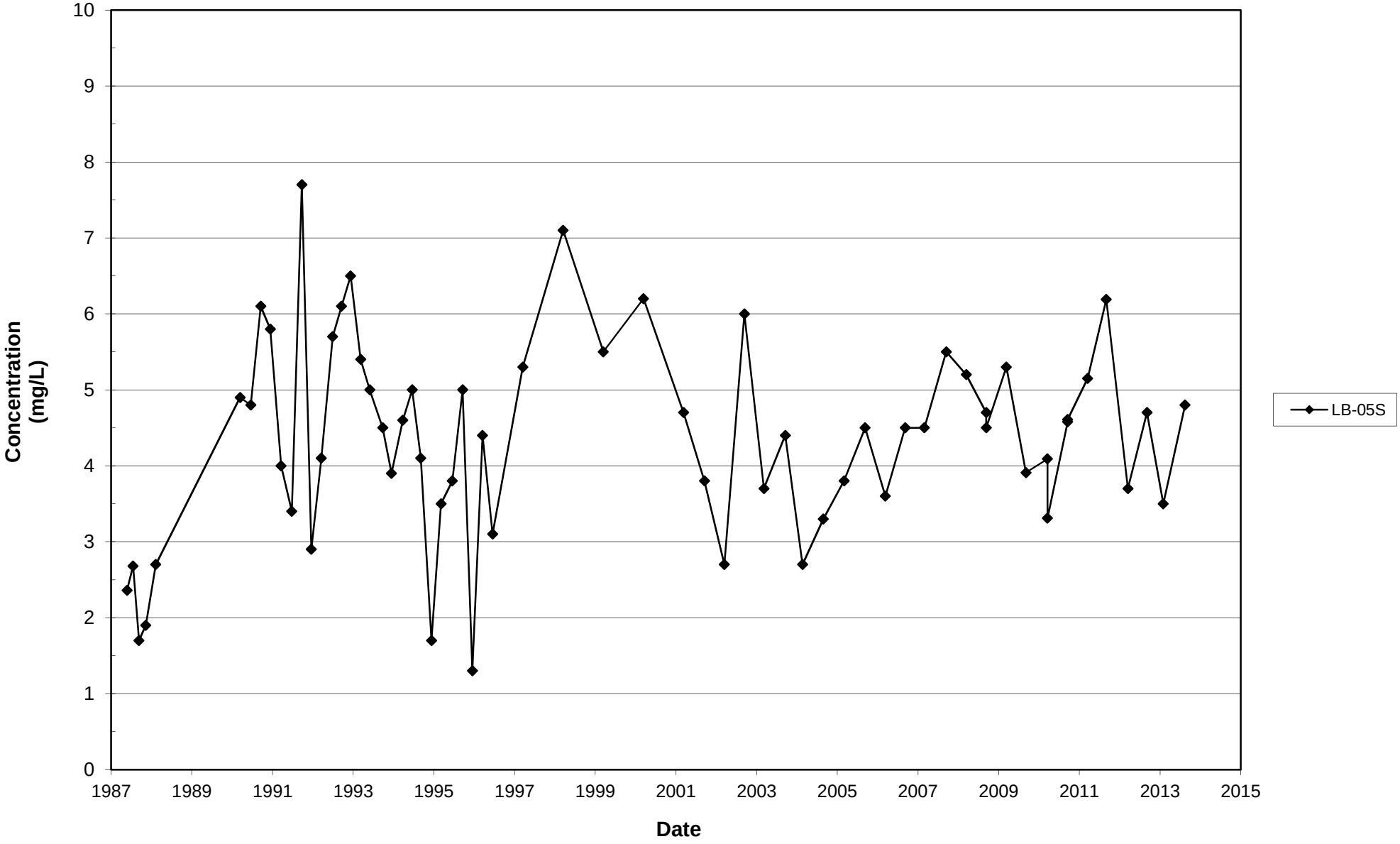
Leichner Landfill
Nitrate, LB-04SR
1987 - 2013



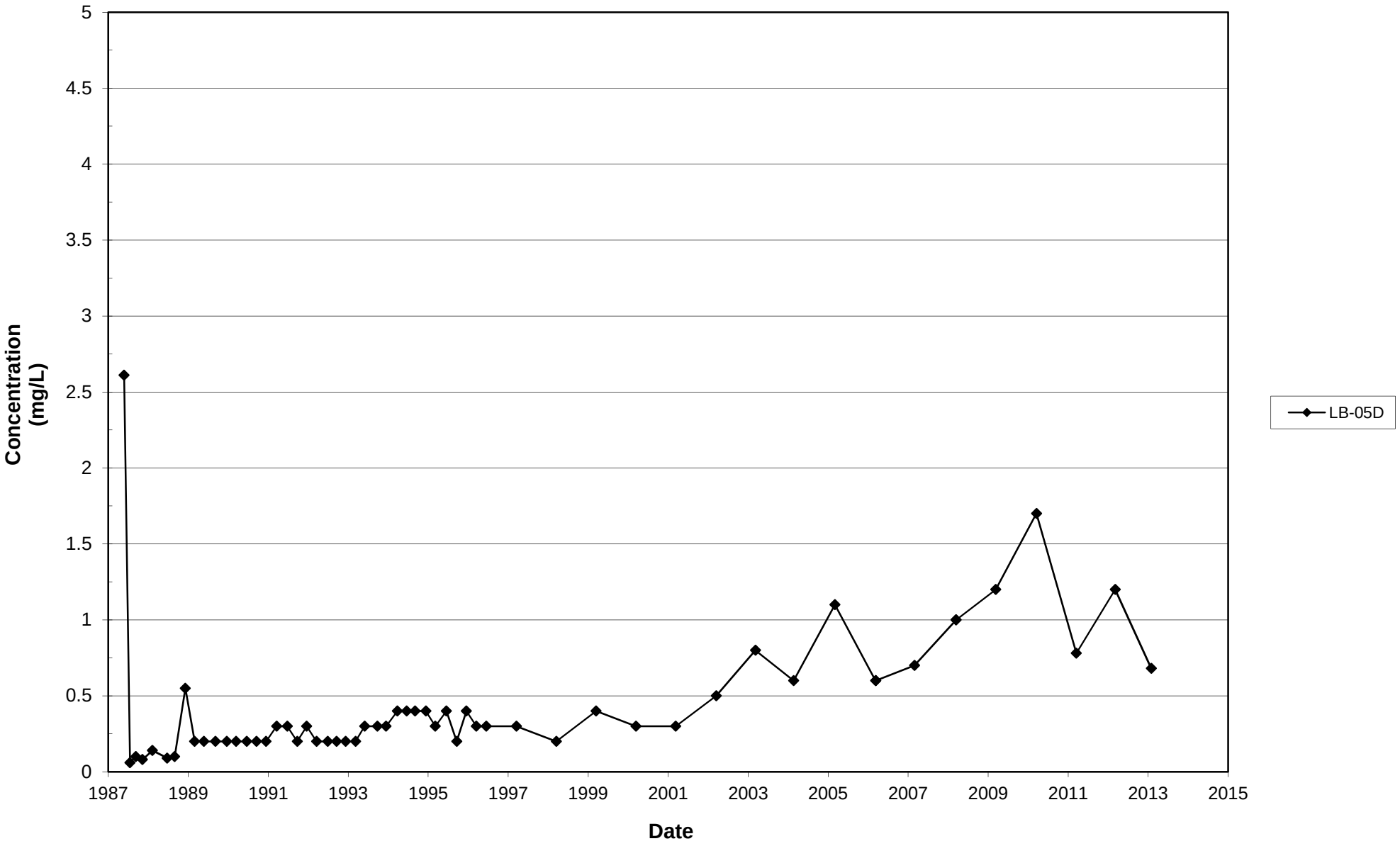
Leichner Landfill
Nitrate, LB-04D
1987 - 2013



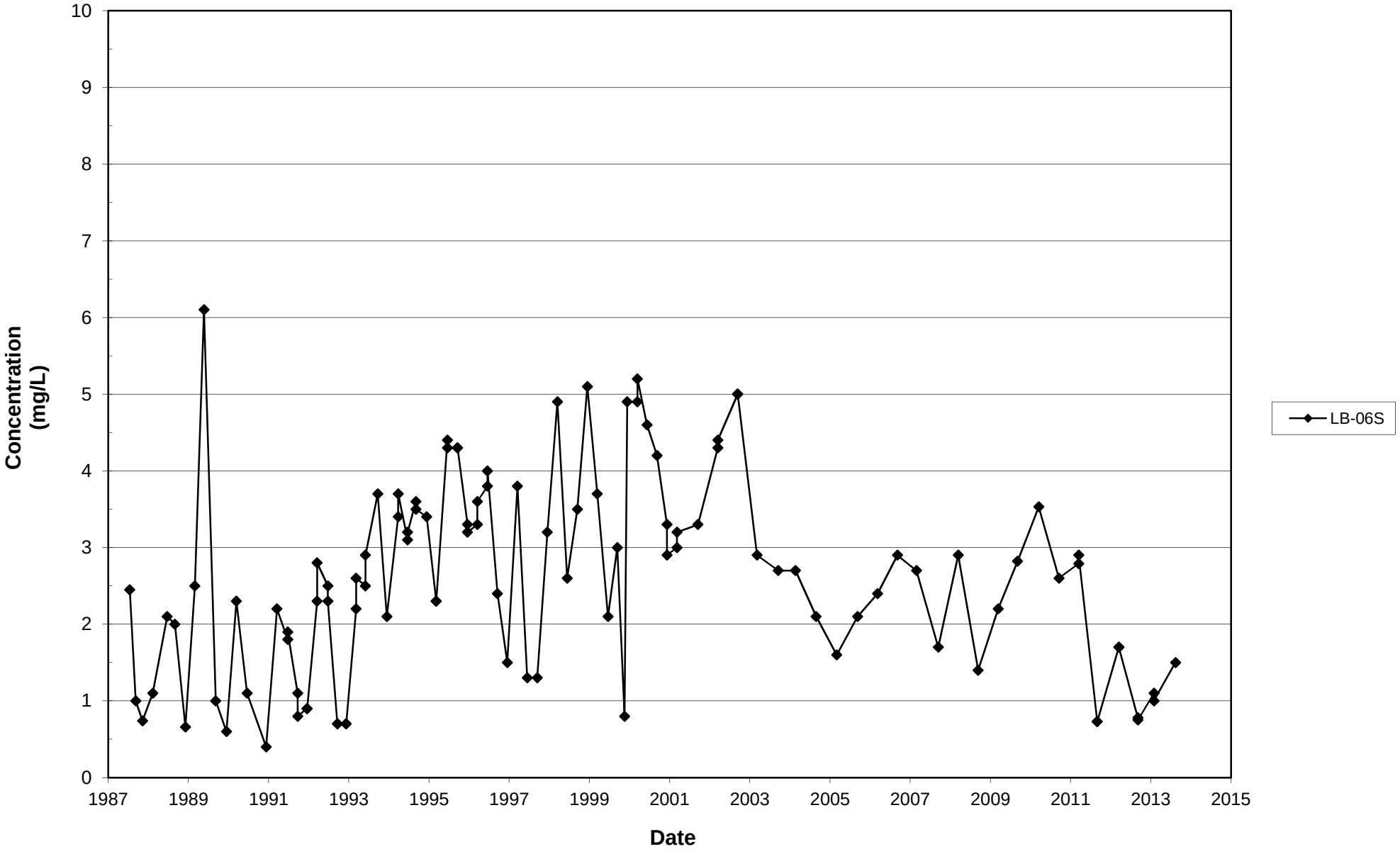
Leichner Landfill
Nitrate, LB-05S
1987 - 2013



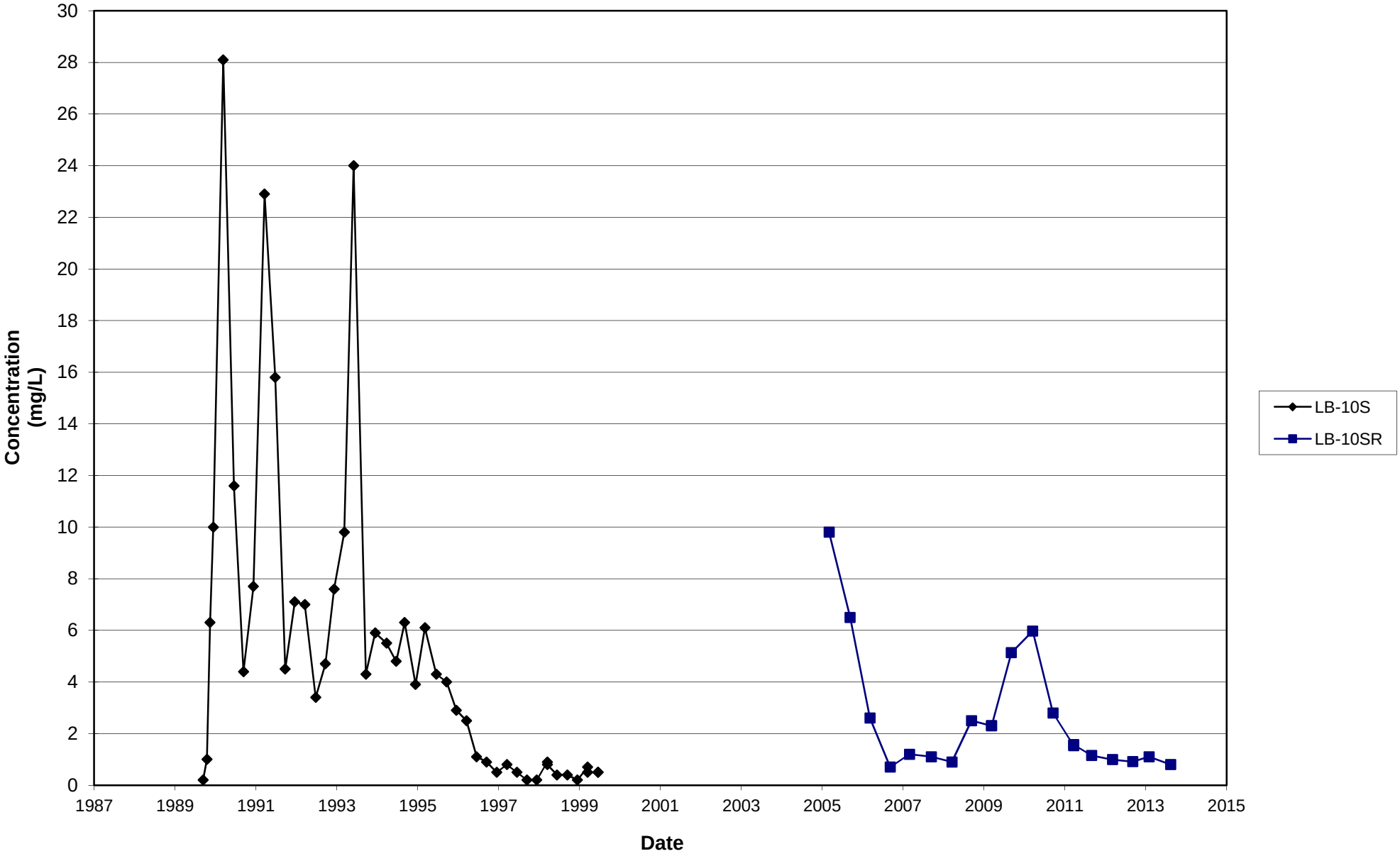
Leichner Landfill
Nitrate, LB-05D
1987 - 2013



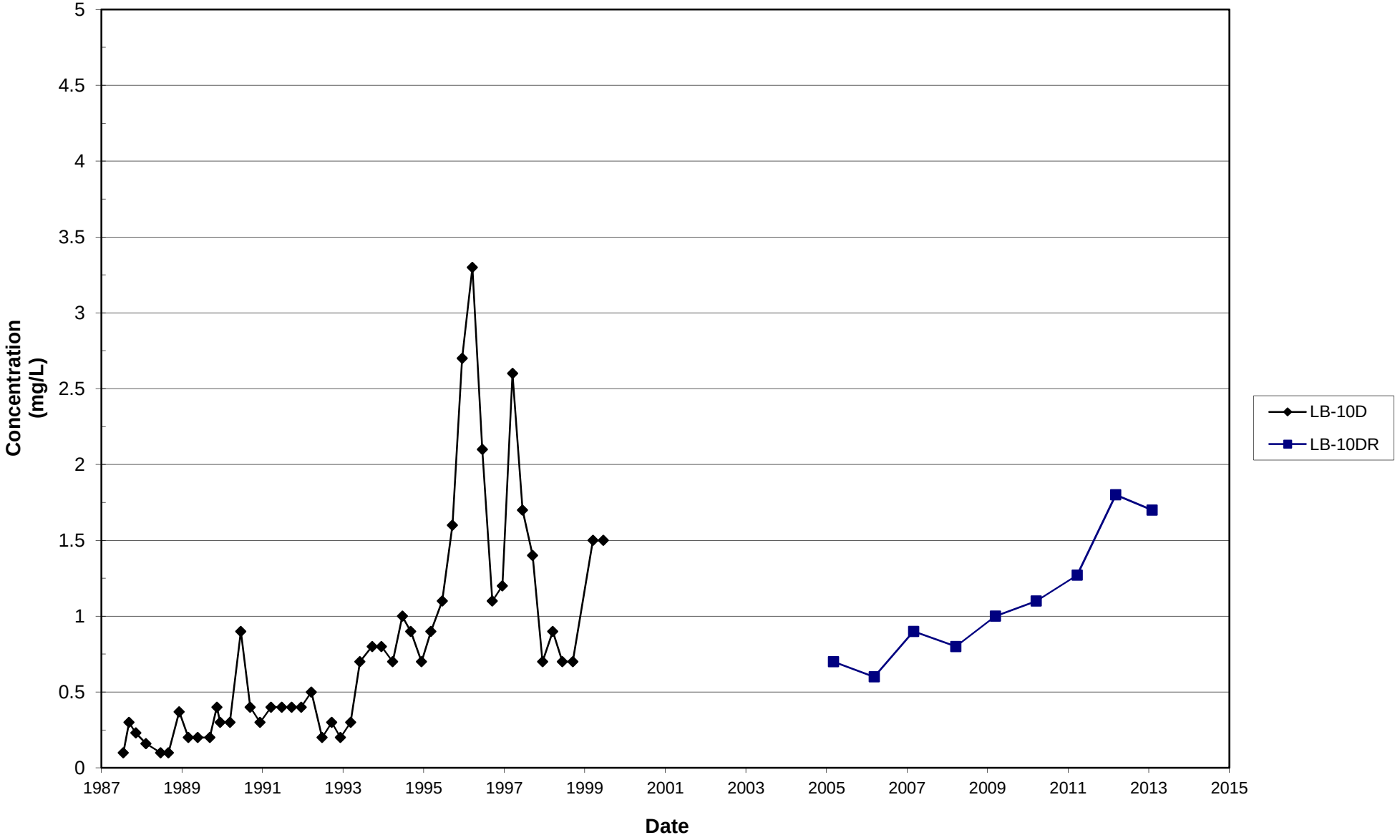
Leichner Landfill
Nitrate, LB-06S
1987 - 2013



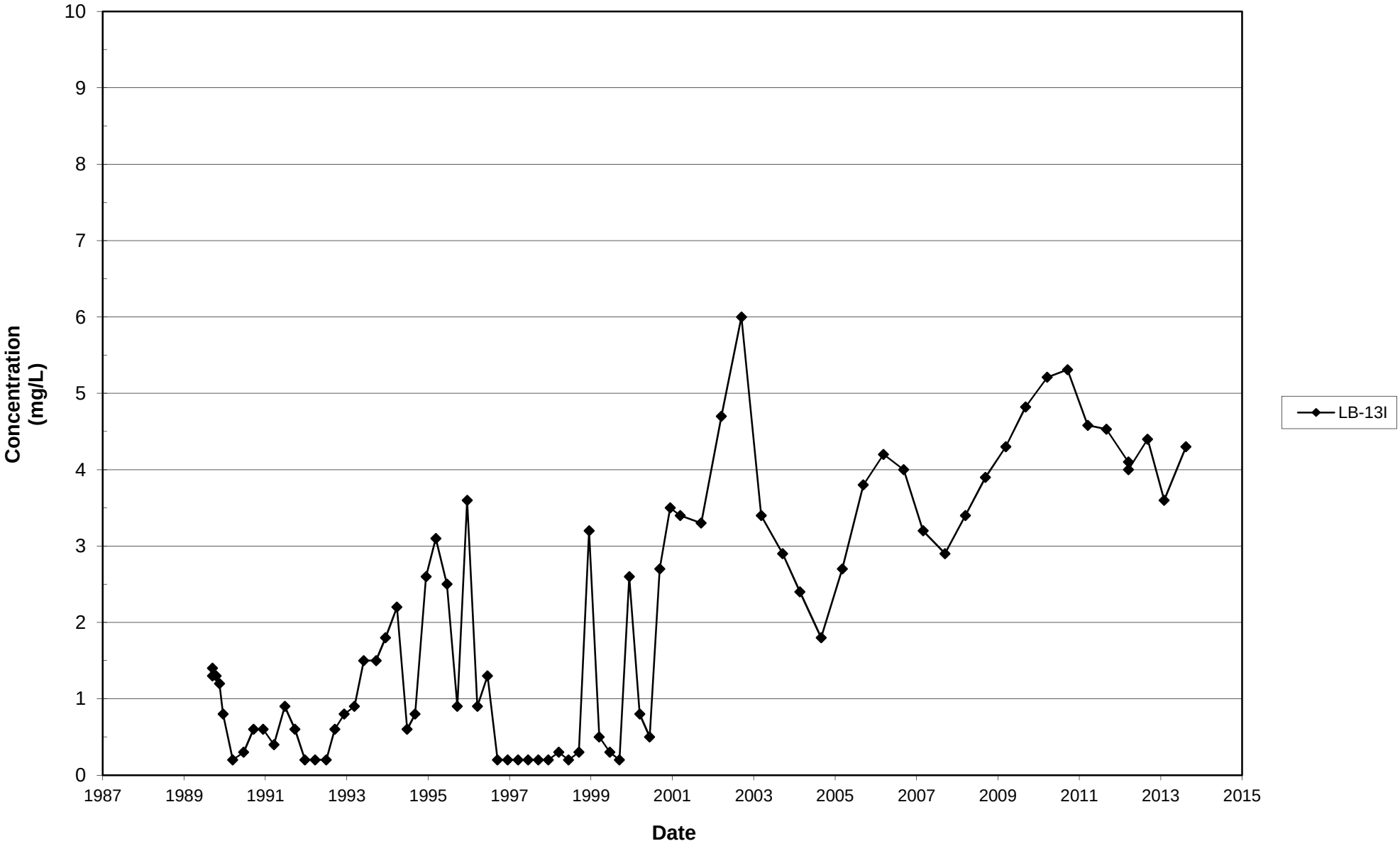
Leichner Landfill
Nitrate, LB-10S and LB-10SR
1987 - 2013



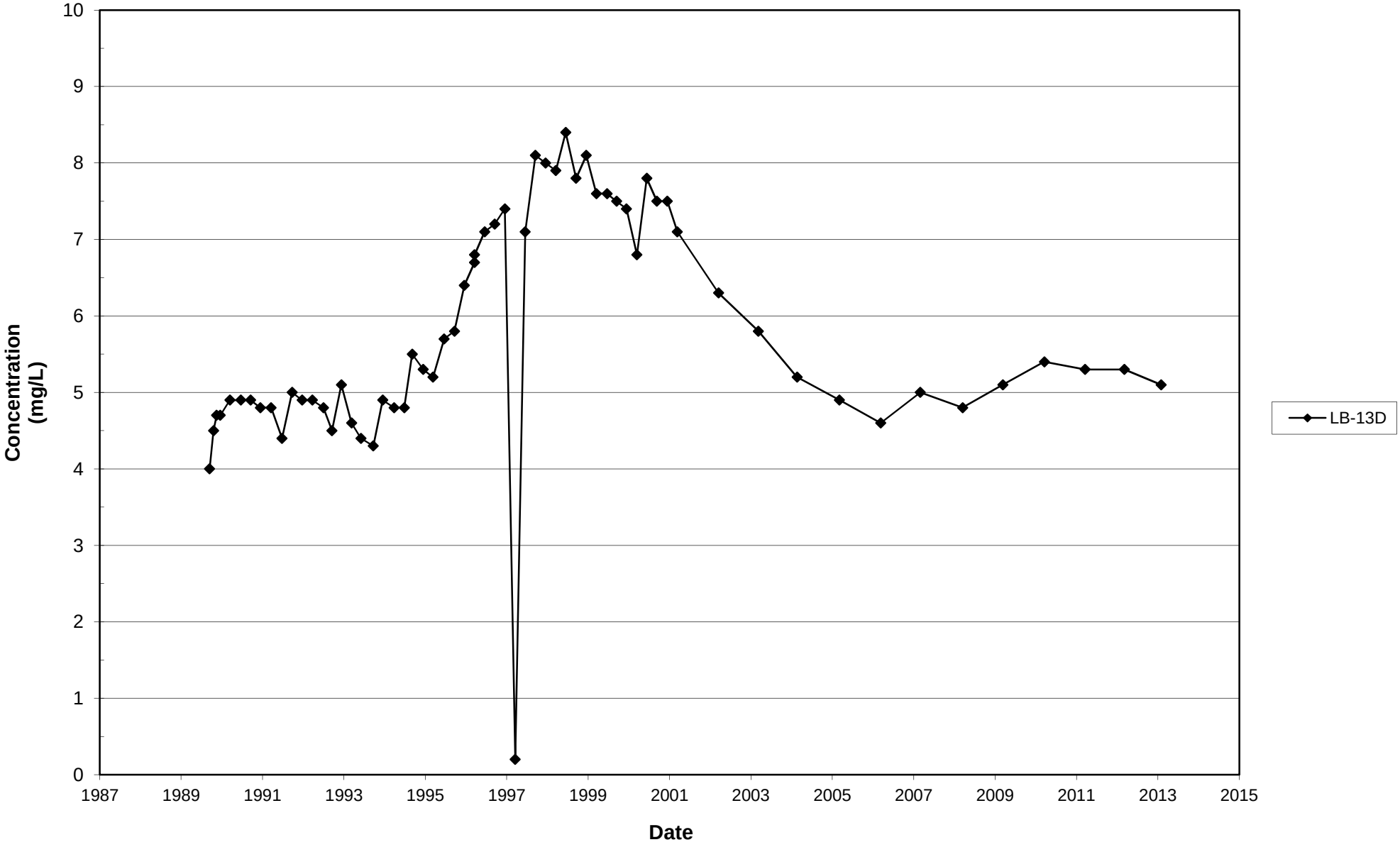
Leichner Landfill
Nitrate, LB-10D and LB-10DR
1987 - 2013



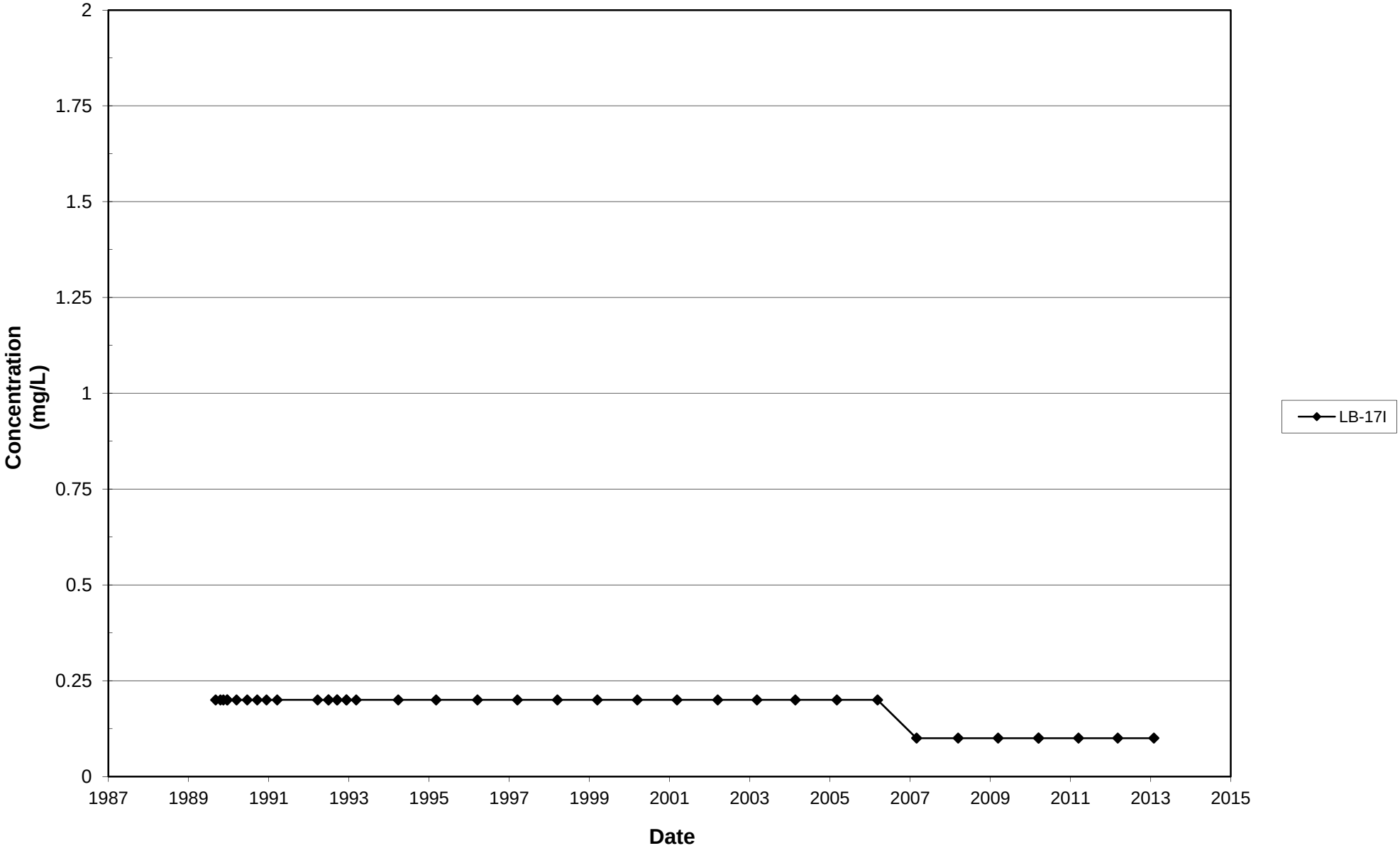
Leichner Landfill
Nitrate, LB-13I
1987 - 2013



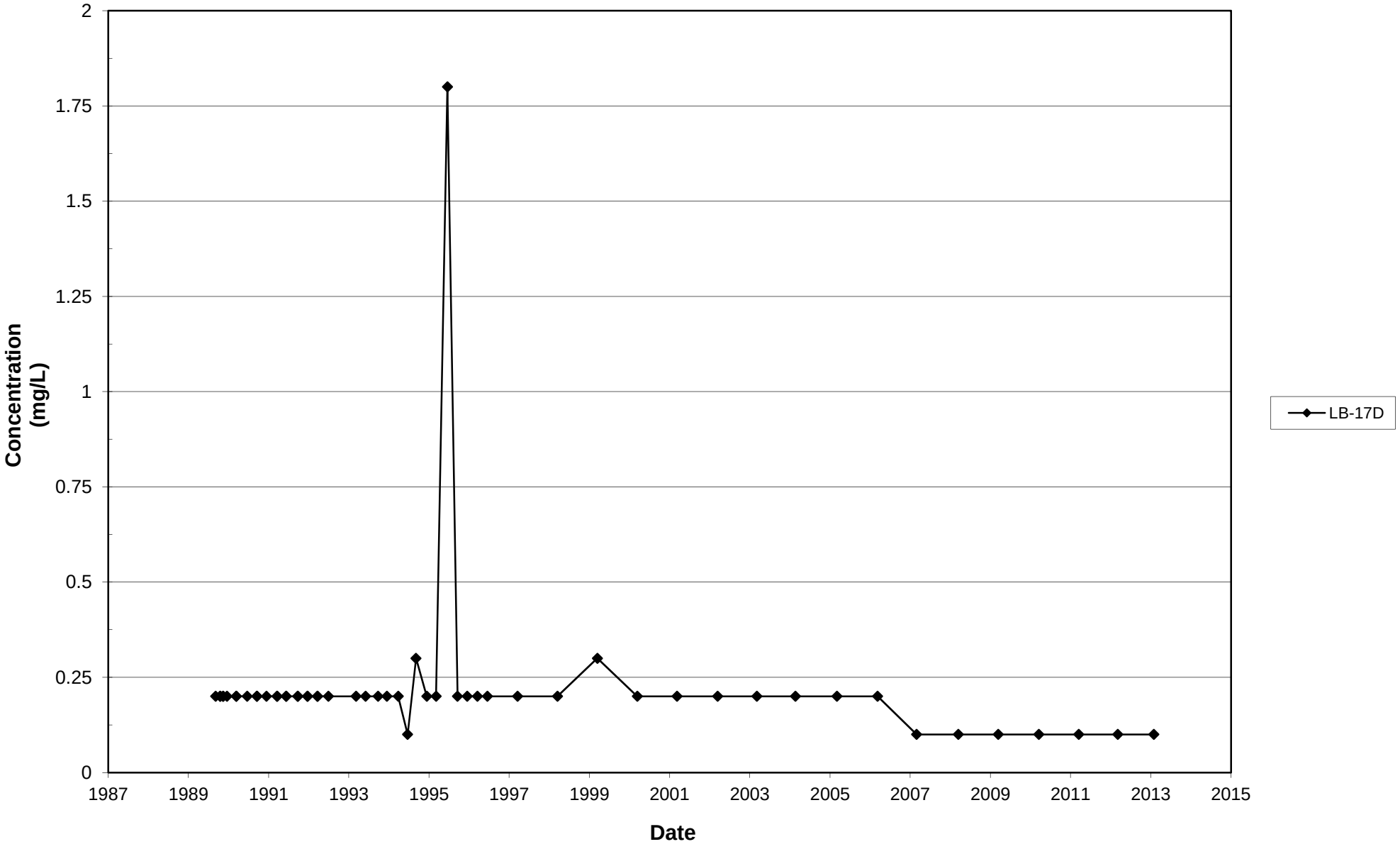
Leichner Landfill
Nitrate, LB-13D
1987 - 2013



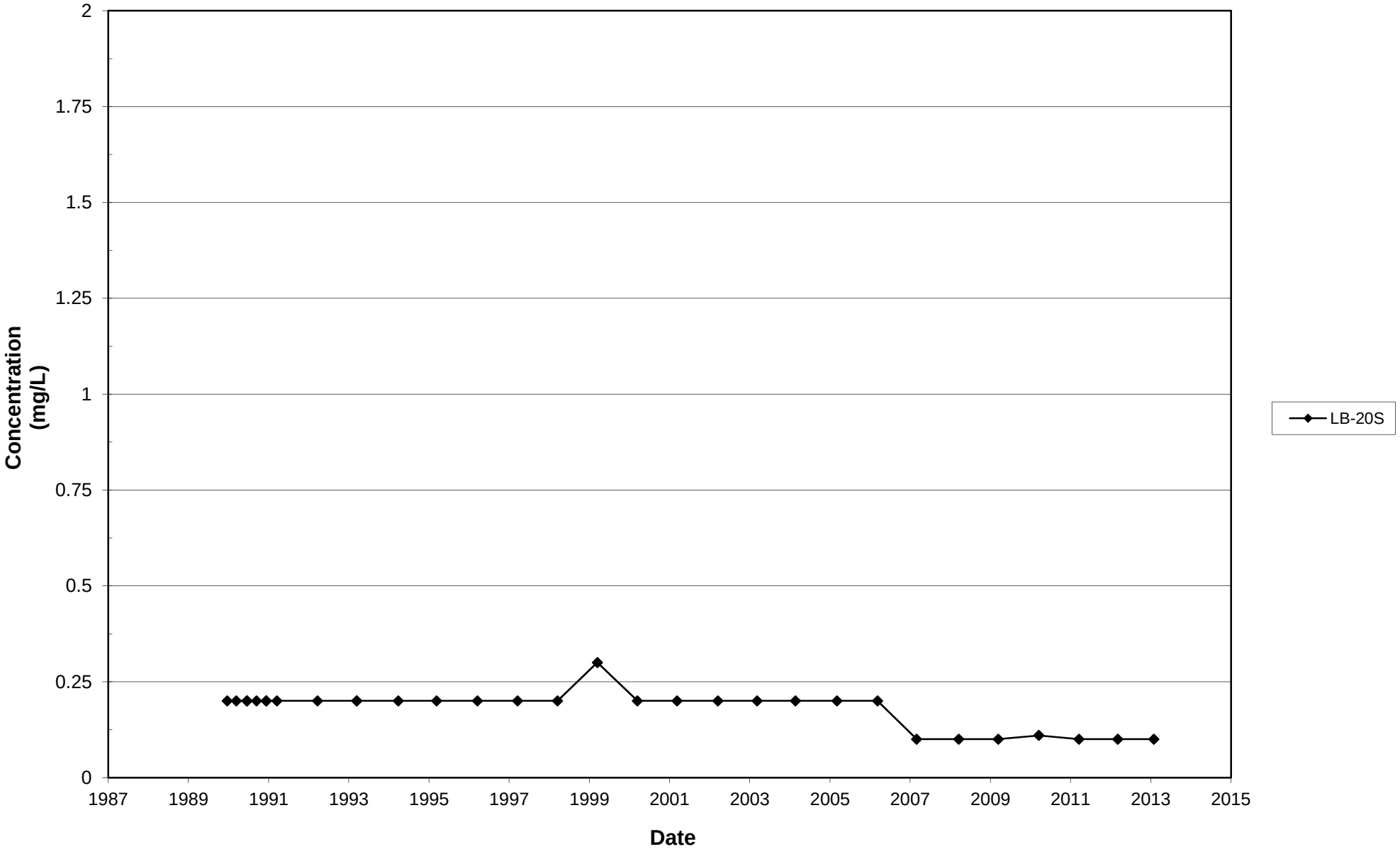
Leichner Landfill
Nitrate, LB-17I
1987 - 2013



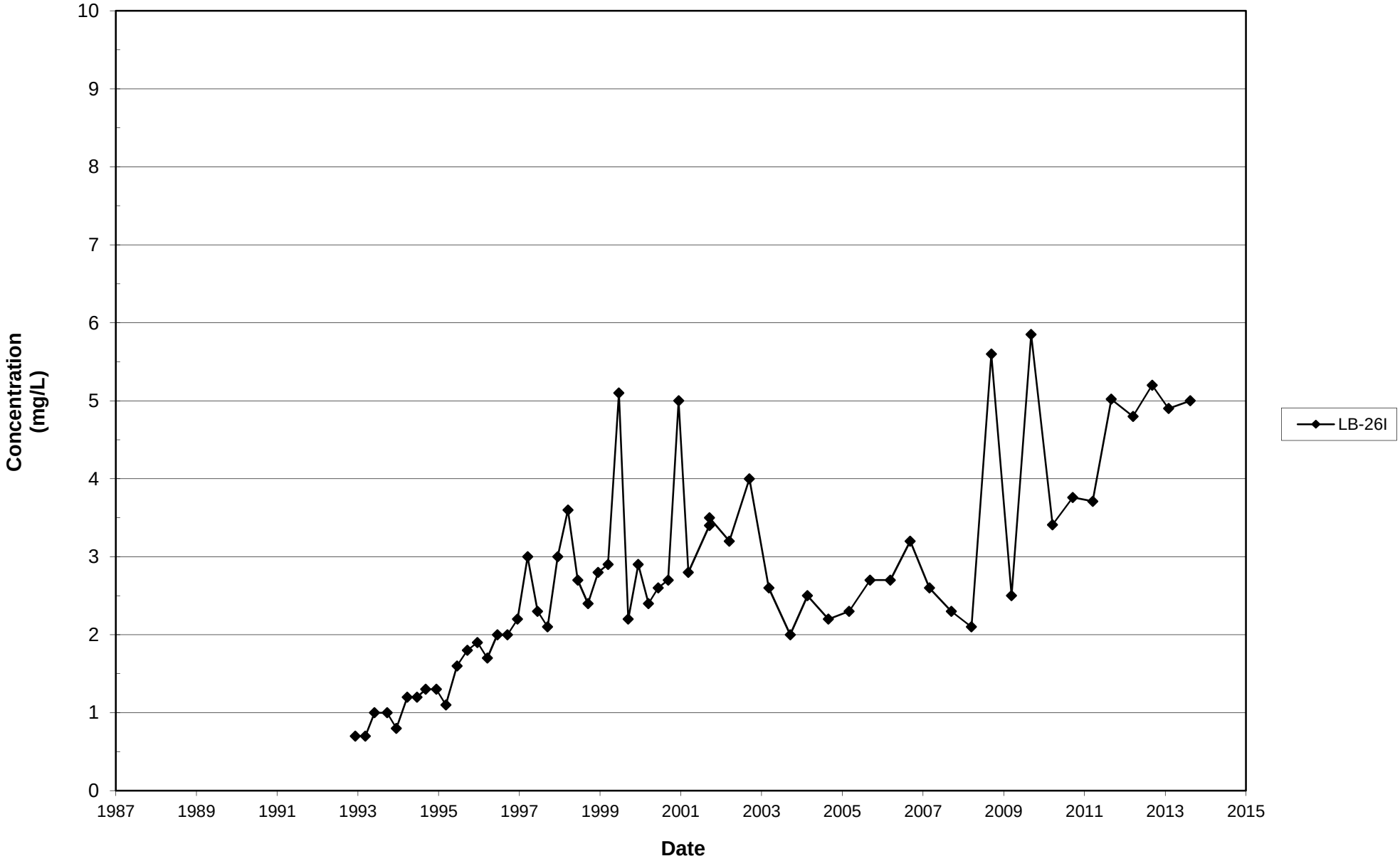
Leichner Landfill
Nitrate, LB-17D
1987 - 2013



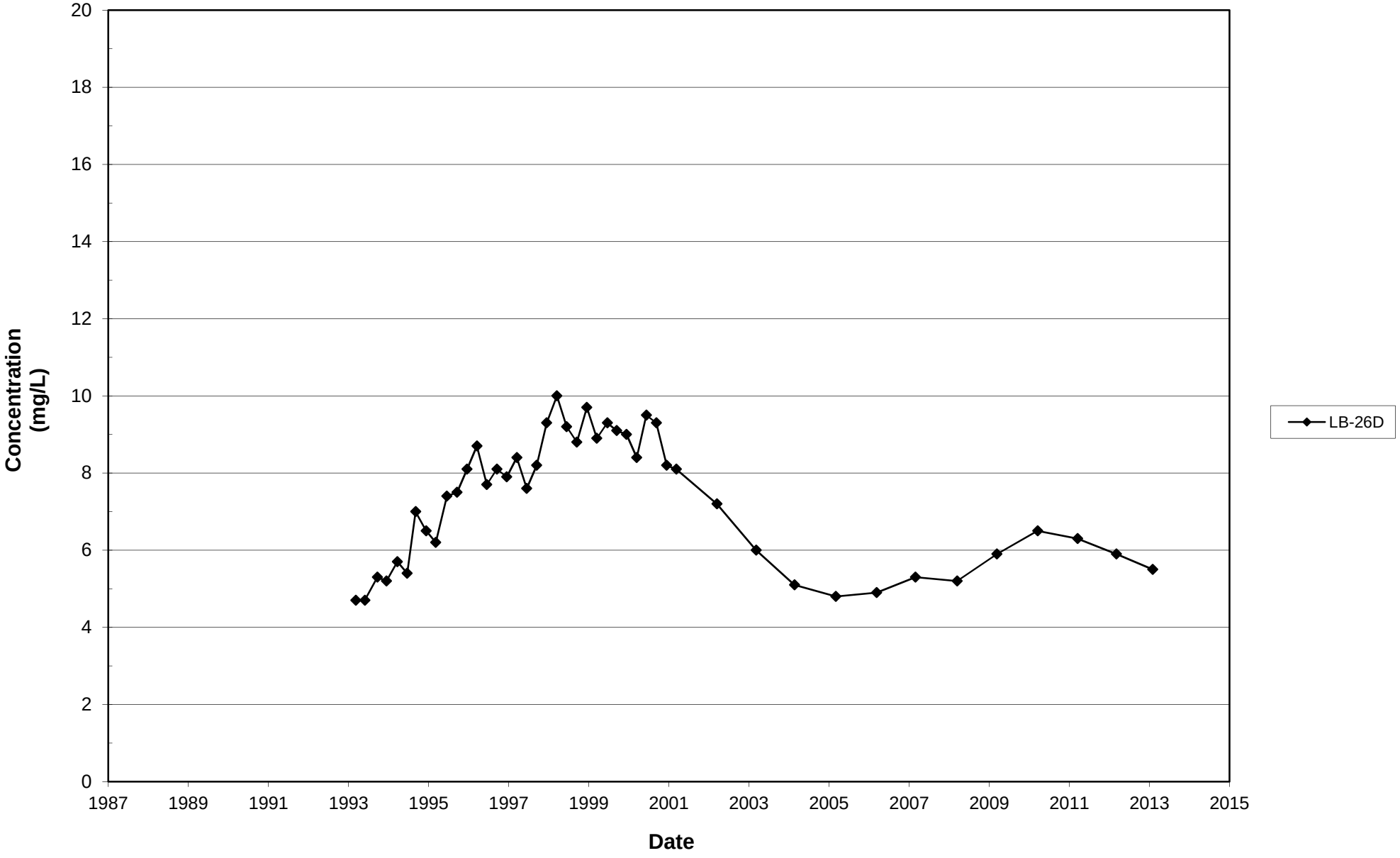
Leichner Landfill
Nitrate, LB-20S
1987 - 2013



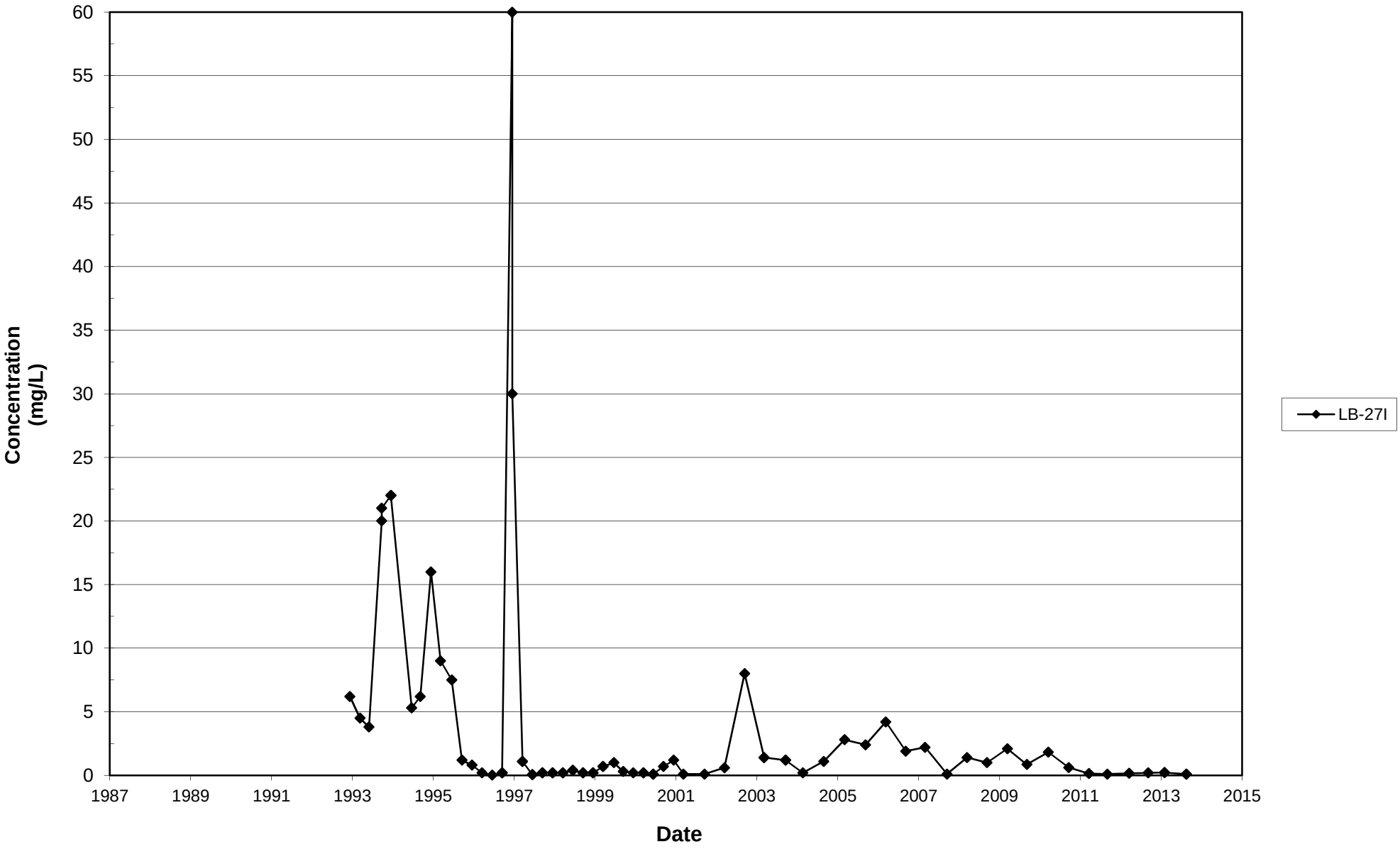
Leichner Landfill
Nitrate, LB-26I
1987 - 2013



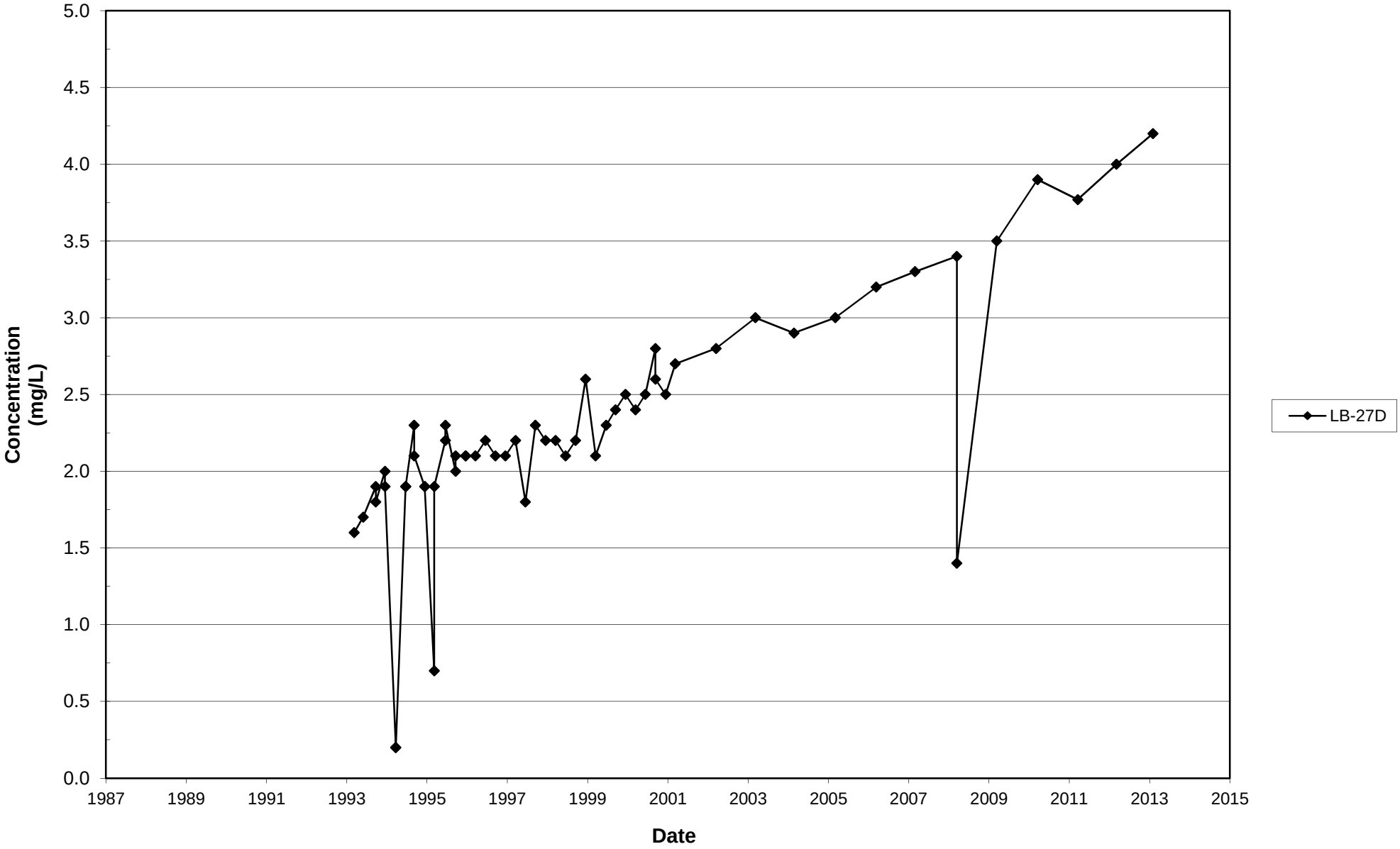
Leichner Landfill
Nitrate, LB-26D
1987 - 2013



Leichner Landfill
Nitrate, LB-27I
1987 - 2013

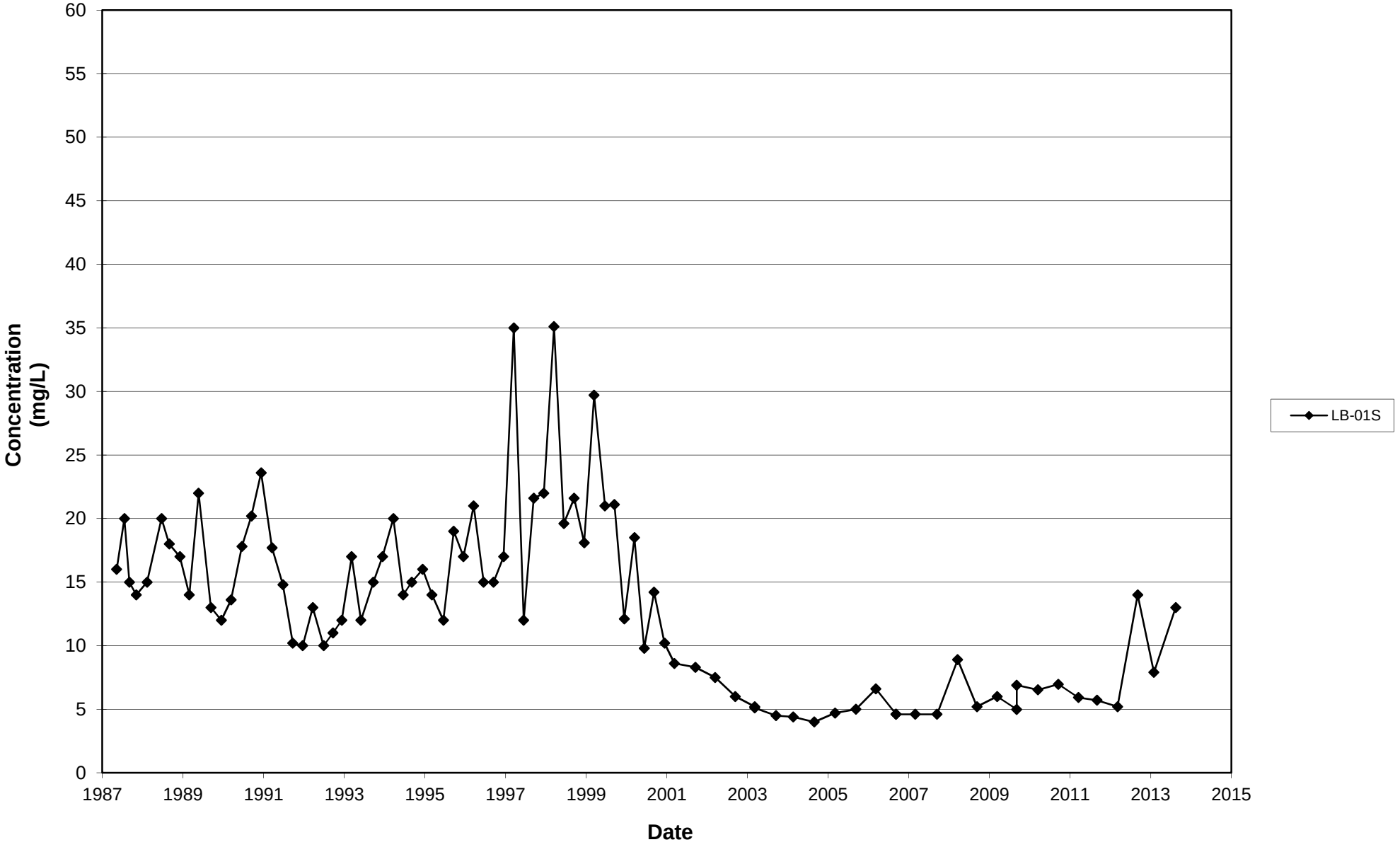


Leichner Landfill
Nitrate, LB-27D
1987 - 2013

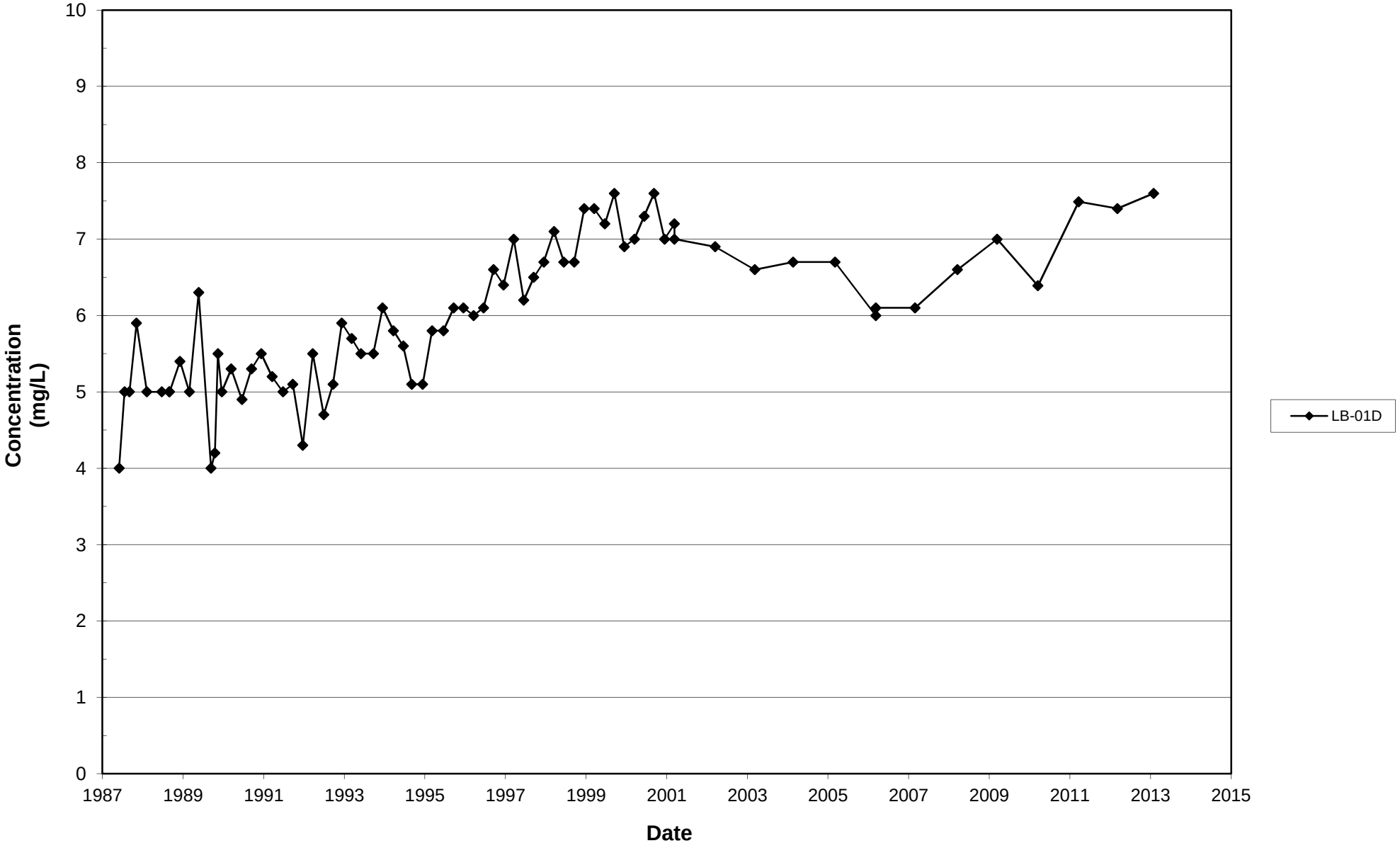


Chloride

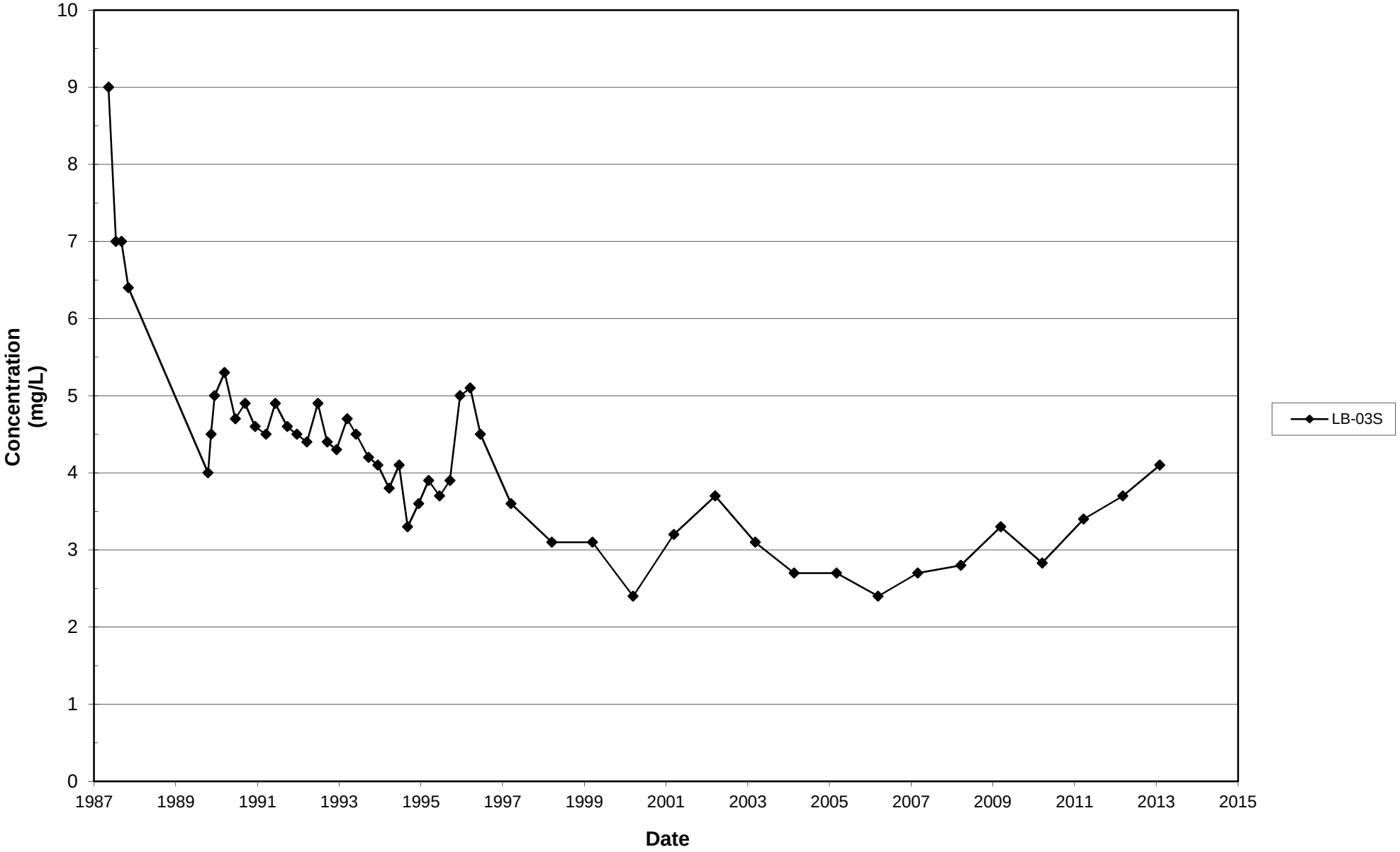
Leichner Landfill
Chloride, LB-01S
1987 - 2013



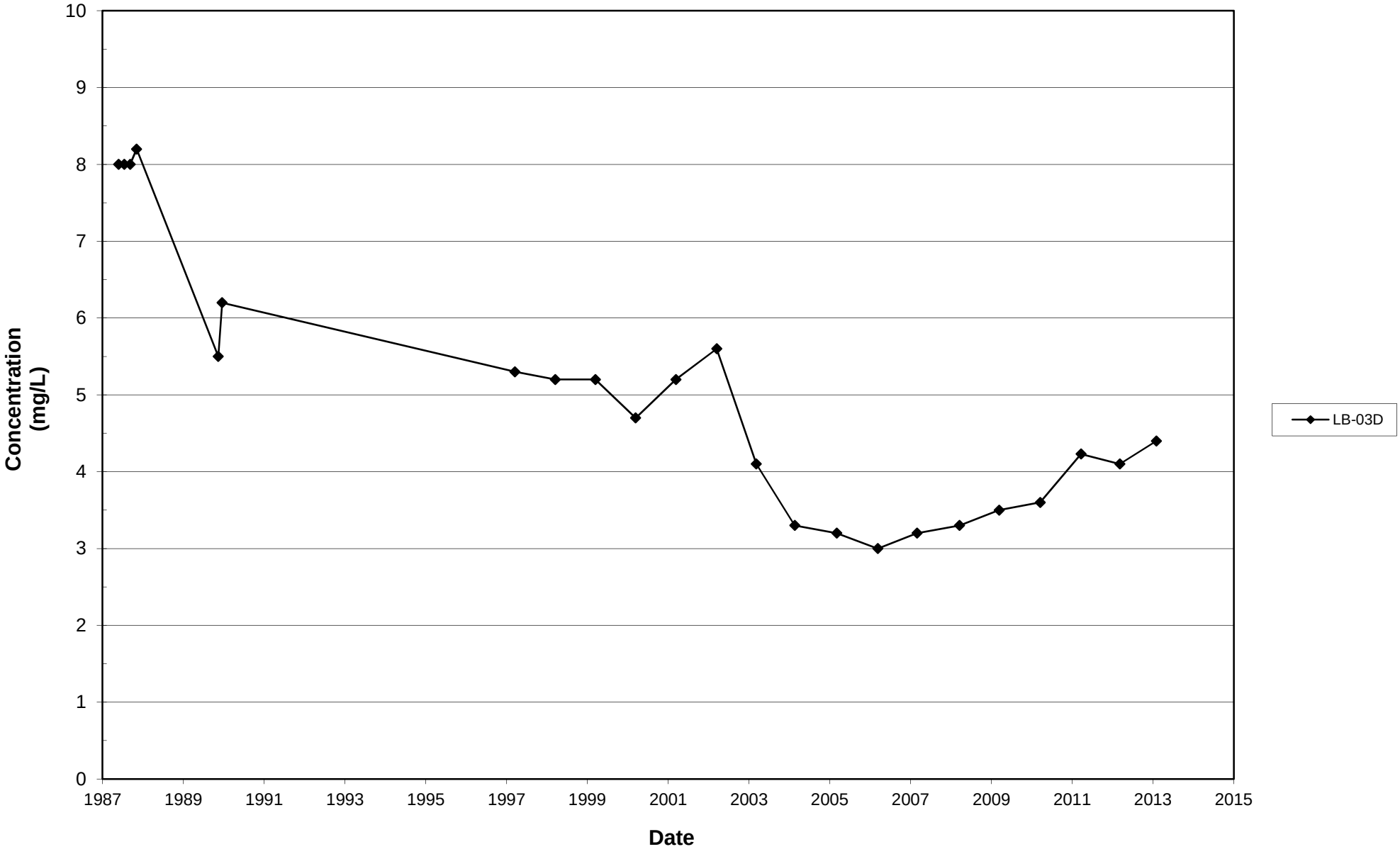
Leichner Landfill
Chloride, LB-01D
1987 - 2013



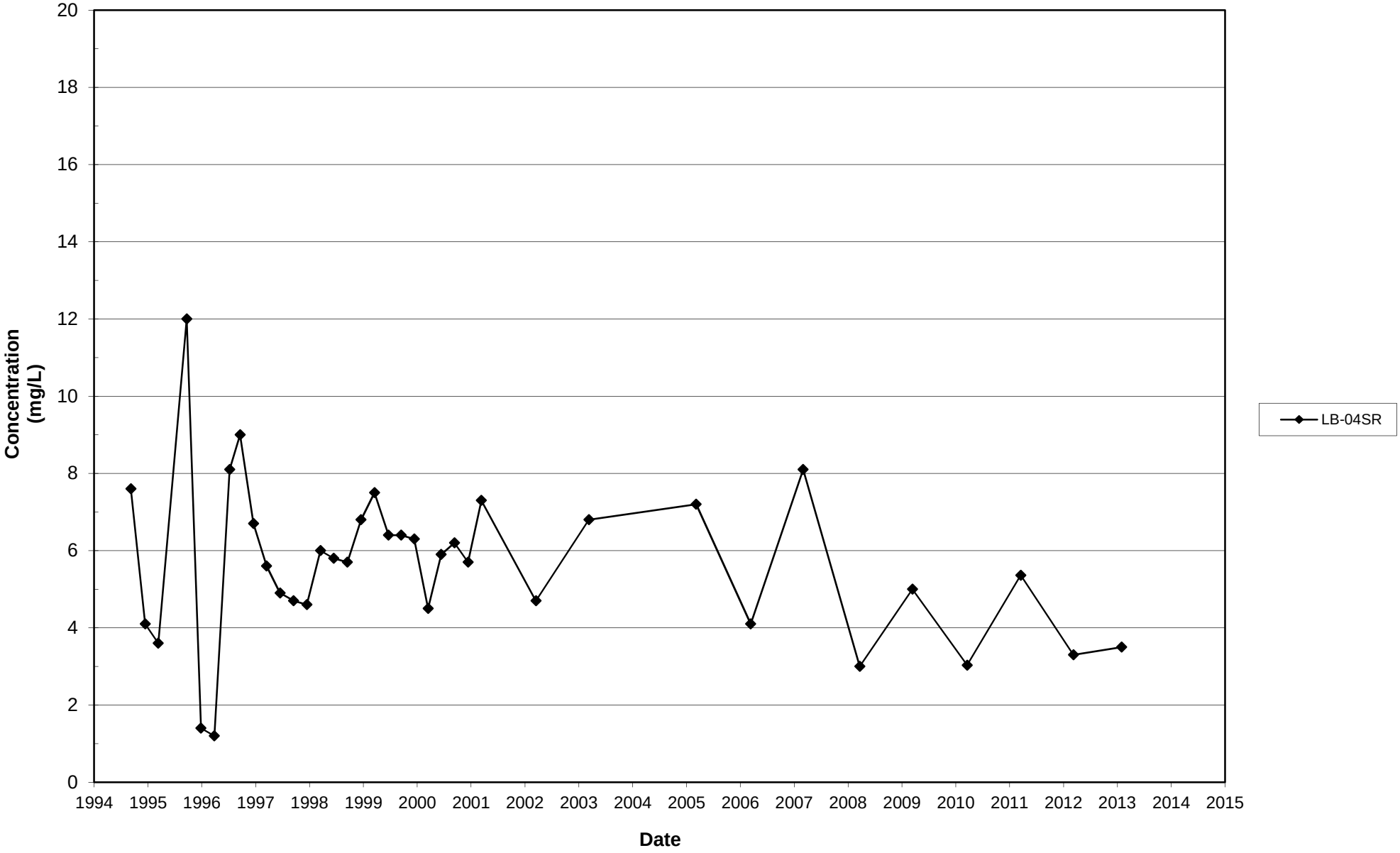
Leichner Landfill
Chloride, LB-03S
1987 - 2013



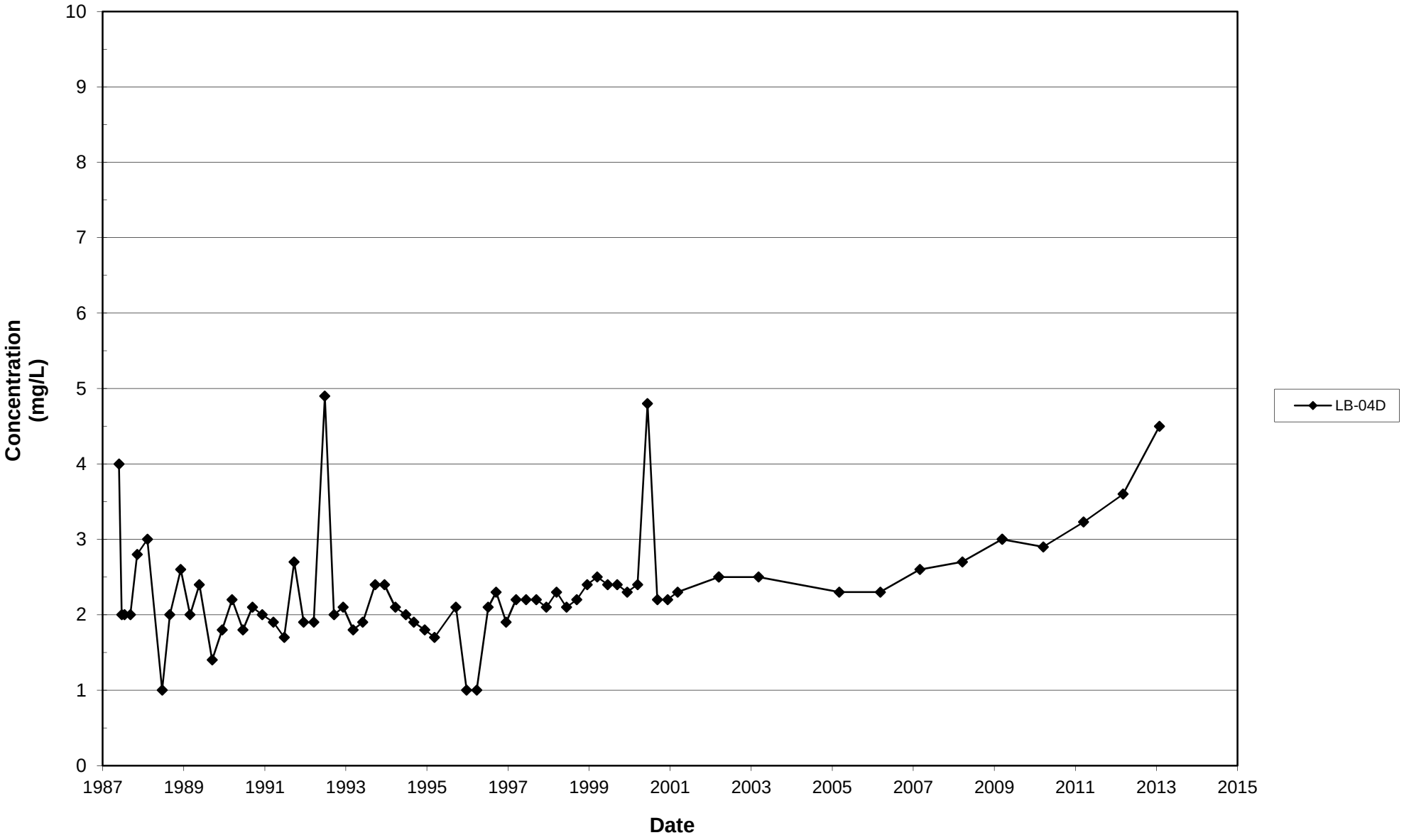
Leichner Landfill
Chloride, LB-03D
1987 - 2013



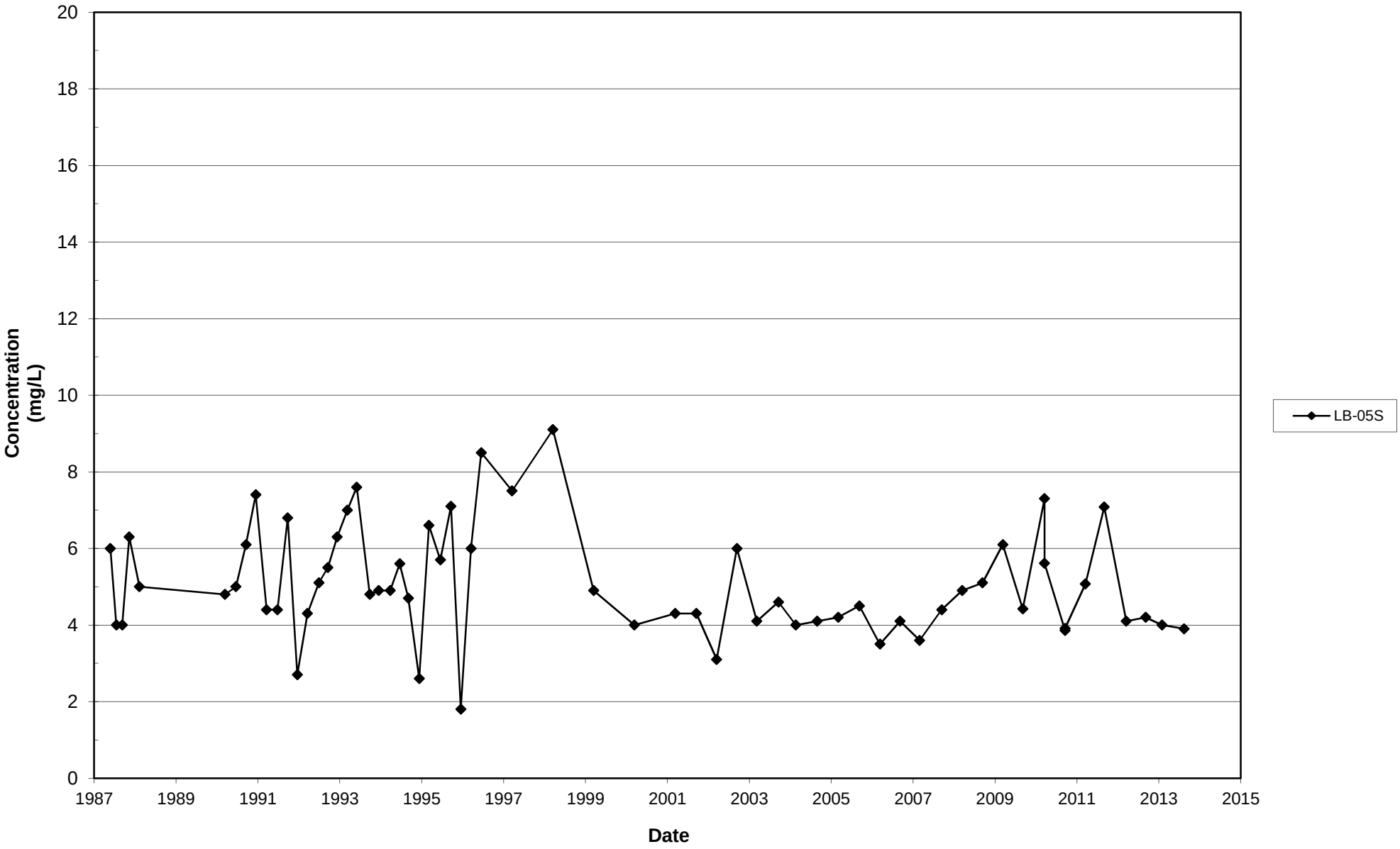
Leichner Landfill
Chloride, LB-04SR
1994 - 2013



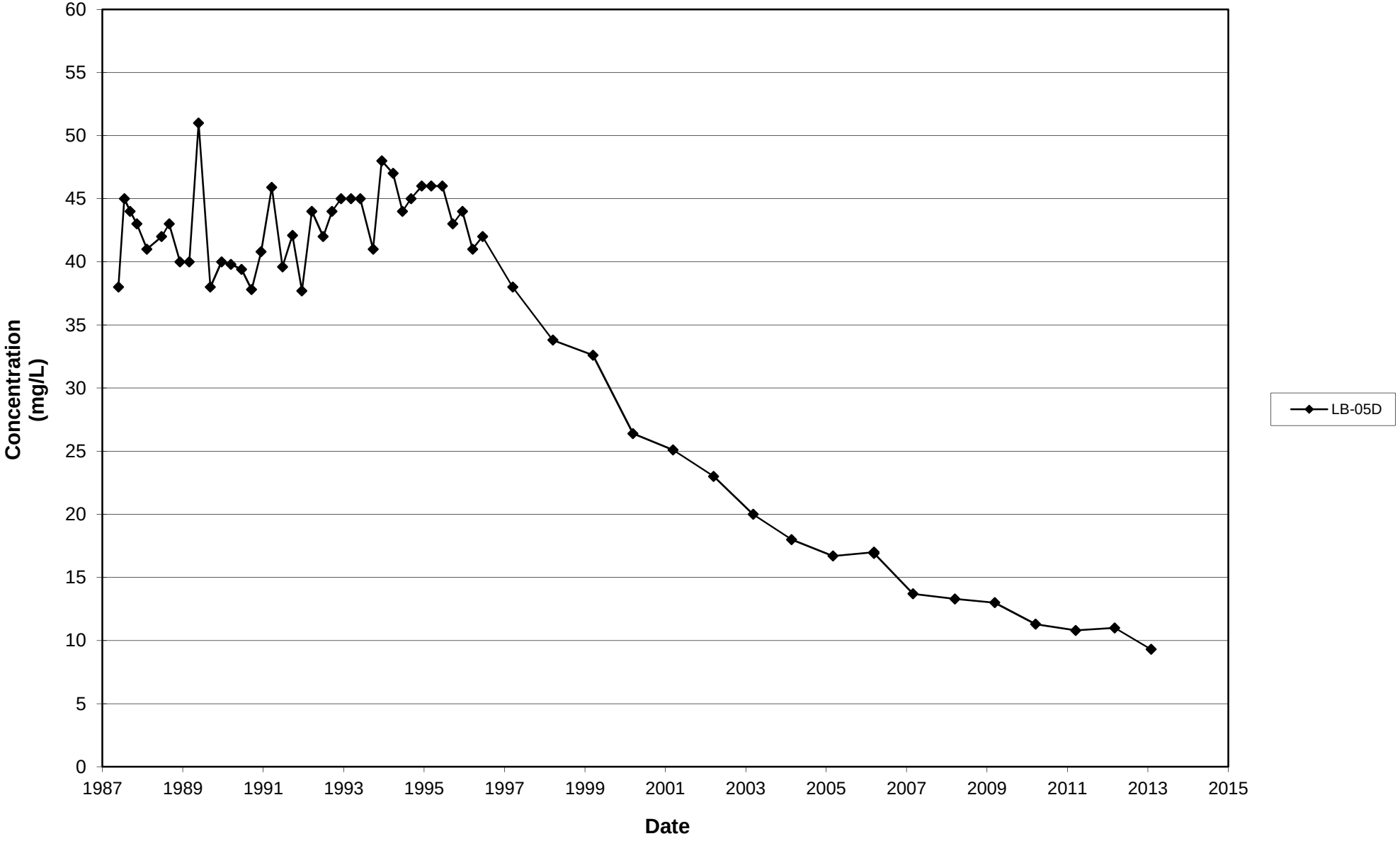
Leichner Landfill
Chloride, LB-04D
1987 - 2013



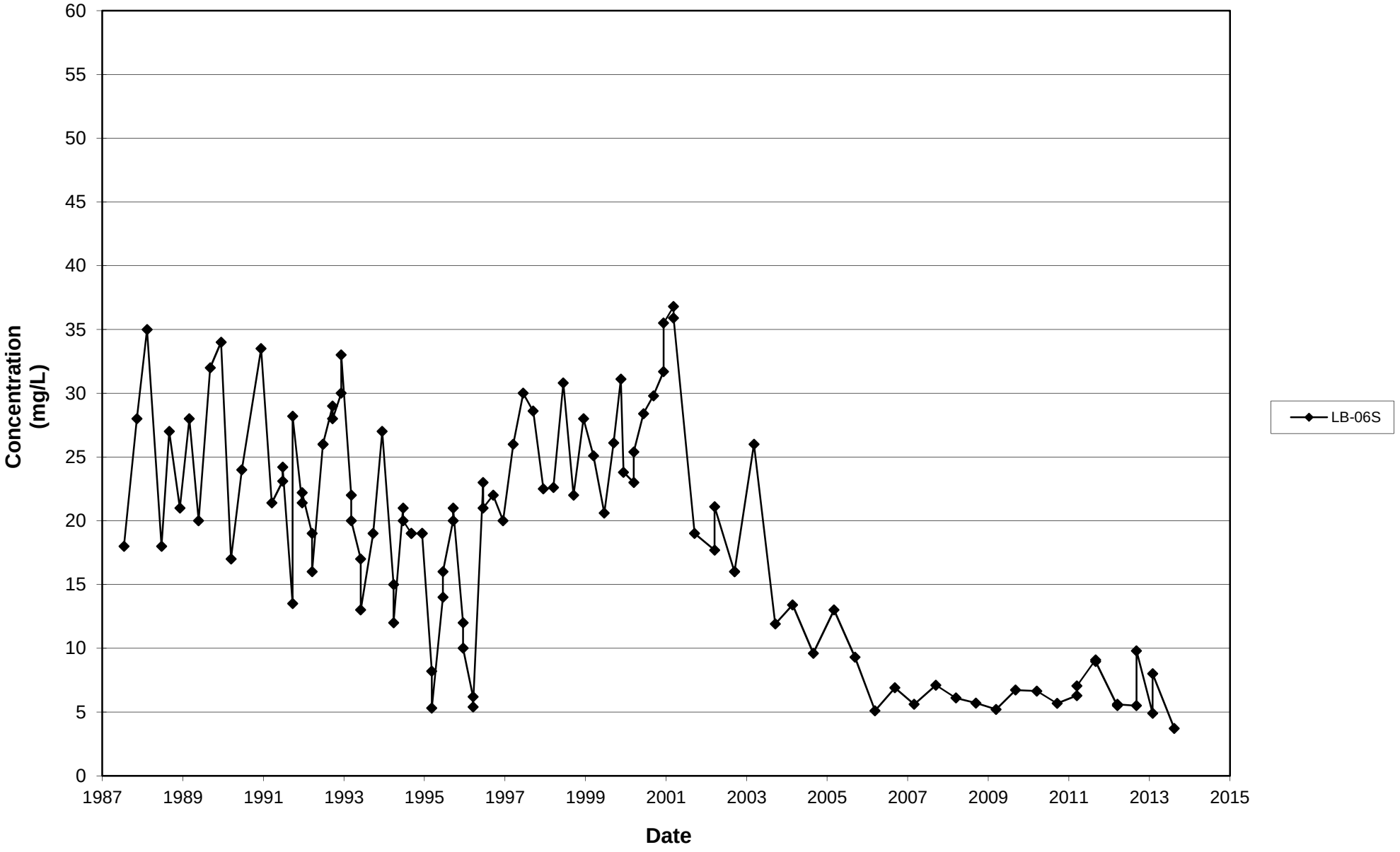
Leichner Landfill
Chloride, LB-05S
1987 - 2013



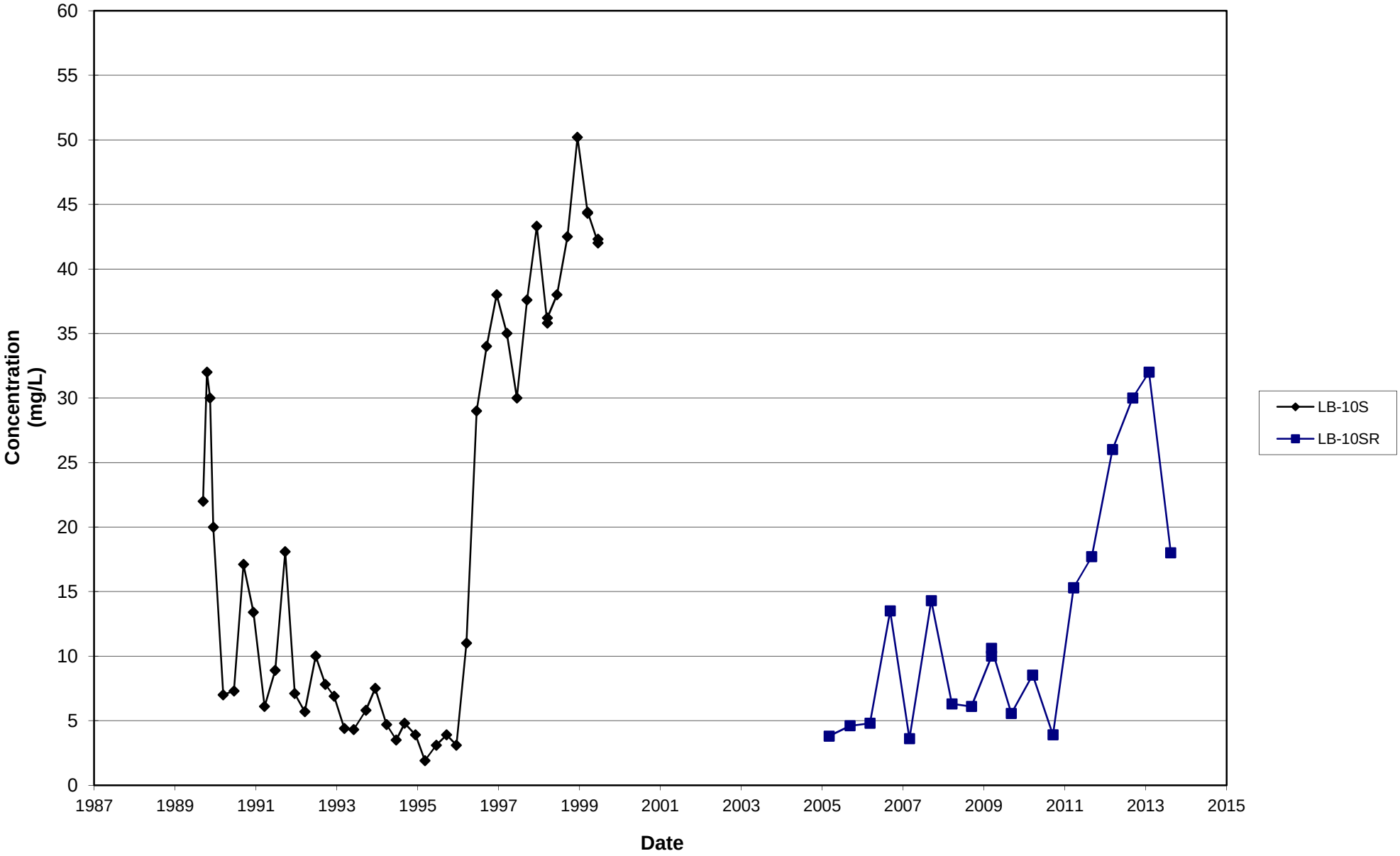
Leichner Landfill
Chloride, LB-05D
1987 - 2013



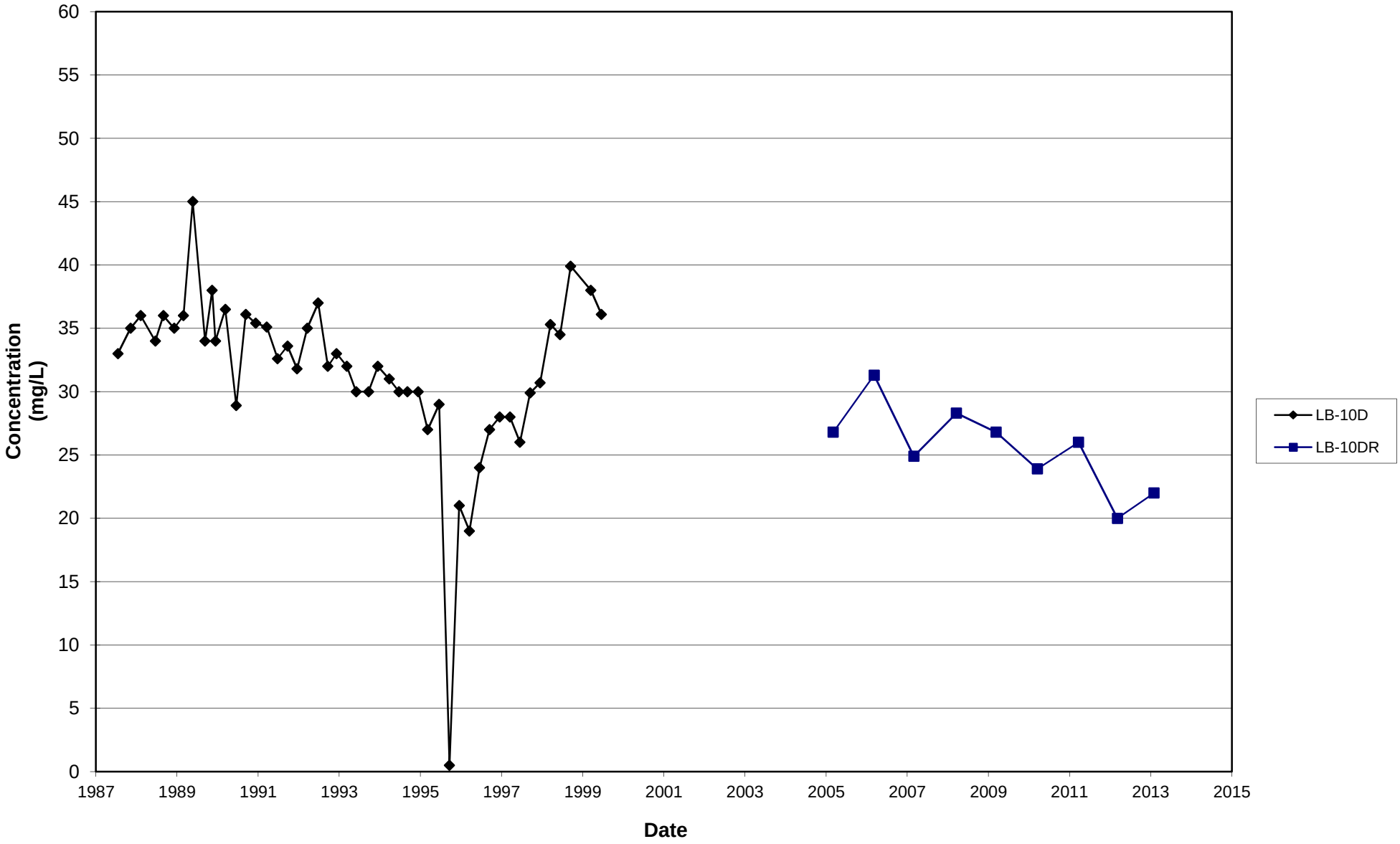
Leichner Landfill
Chloride, LB-06S
1987 - 2013



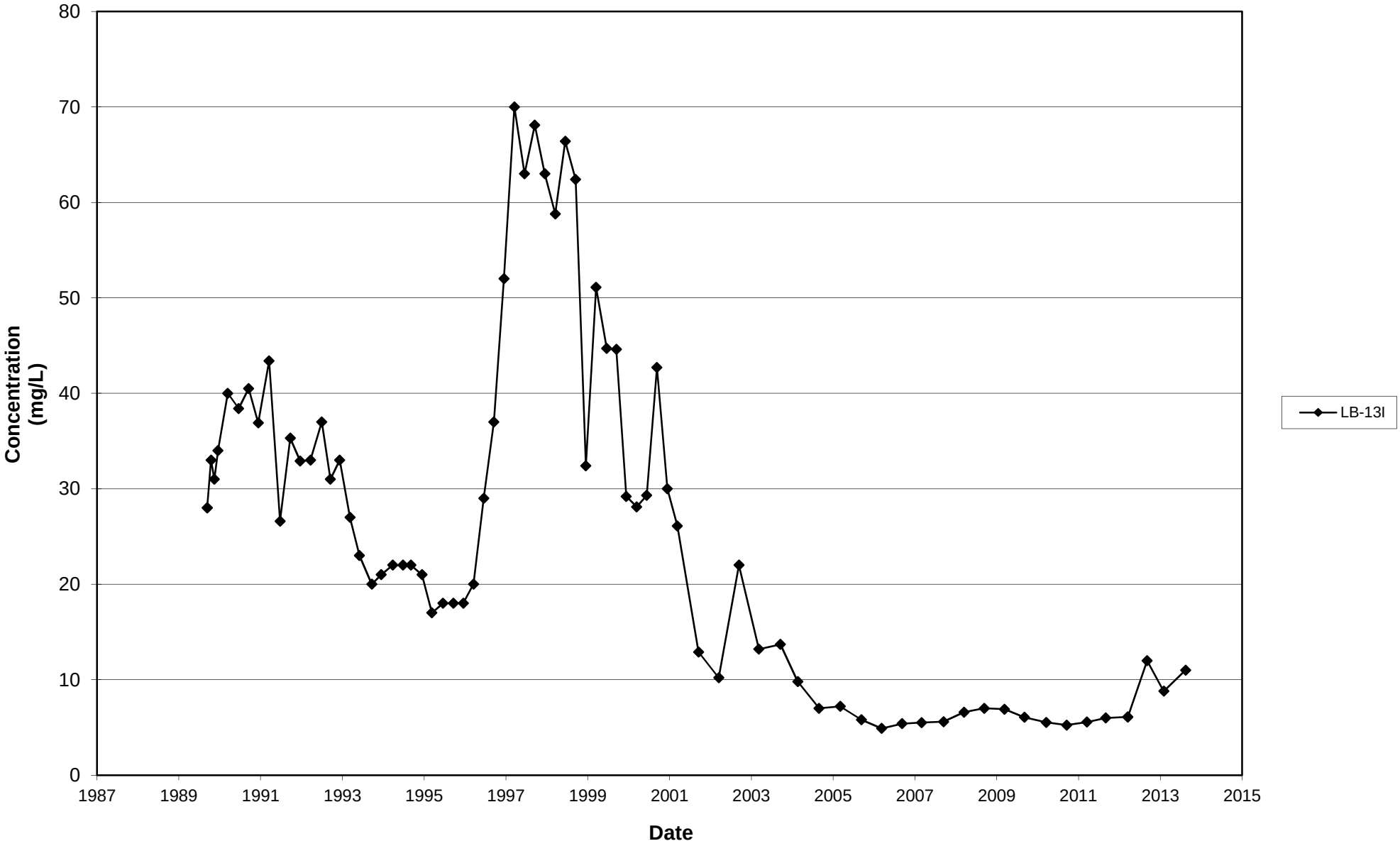
Leichner Landfill
Chloride, LB-10S and LB-10SR
1987 - 2013



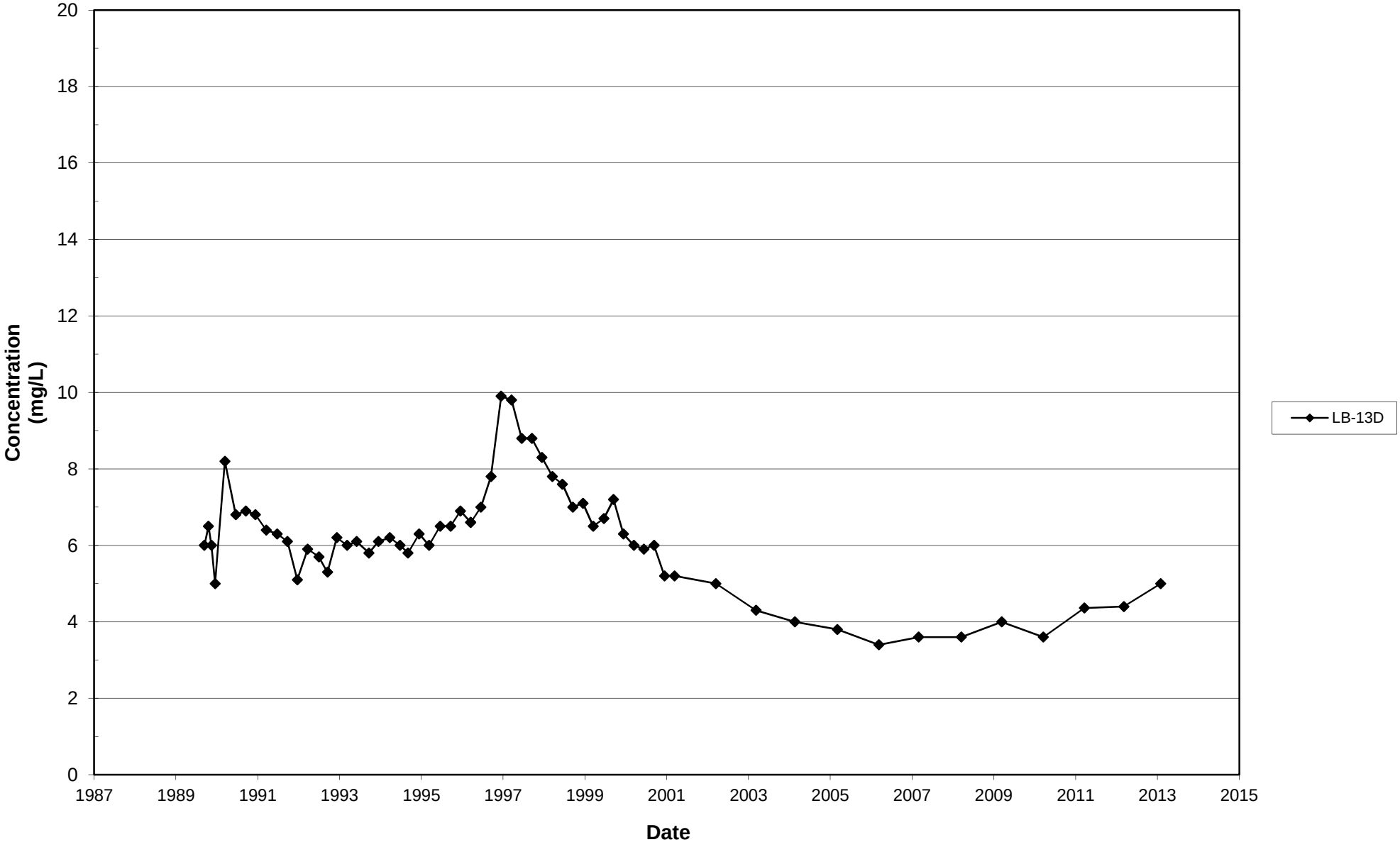
Leichner Landfill
Chloride, LB-10D and LB-10DR
1987 - 2013



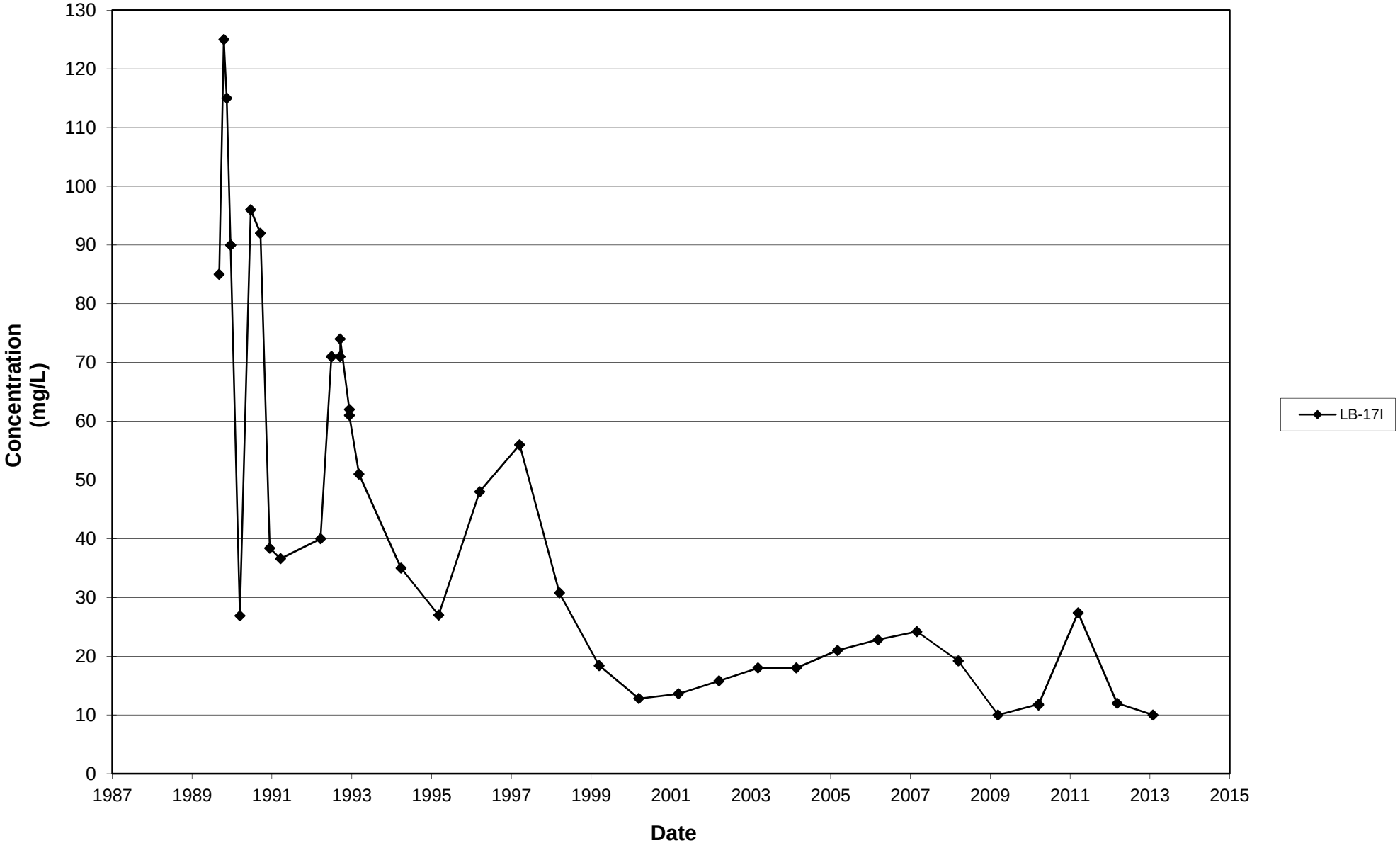
Leichner Landfill
Chloride, LB-13I
1987 - 2013



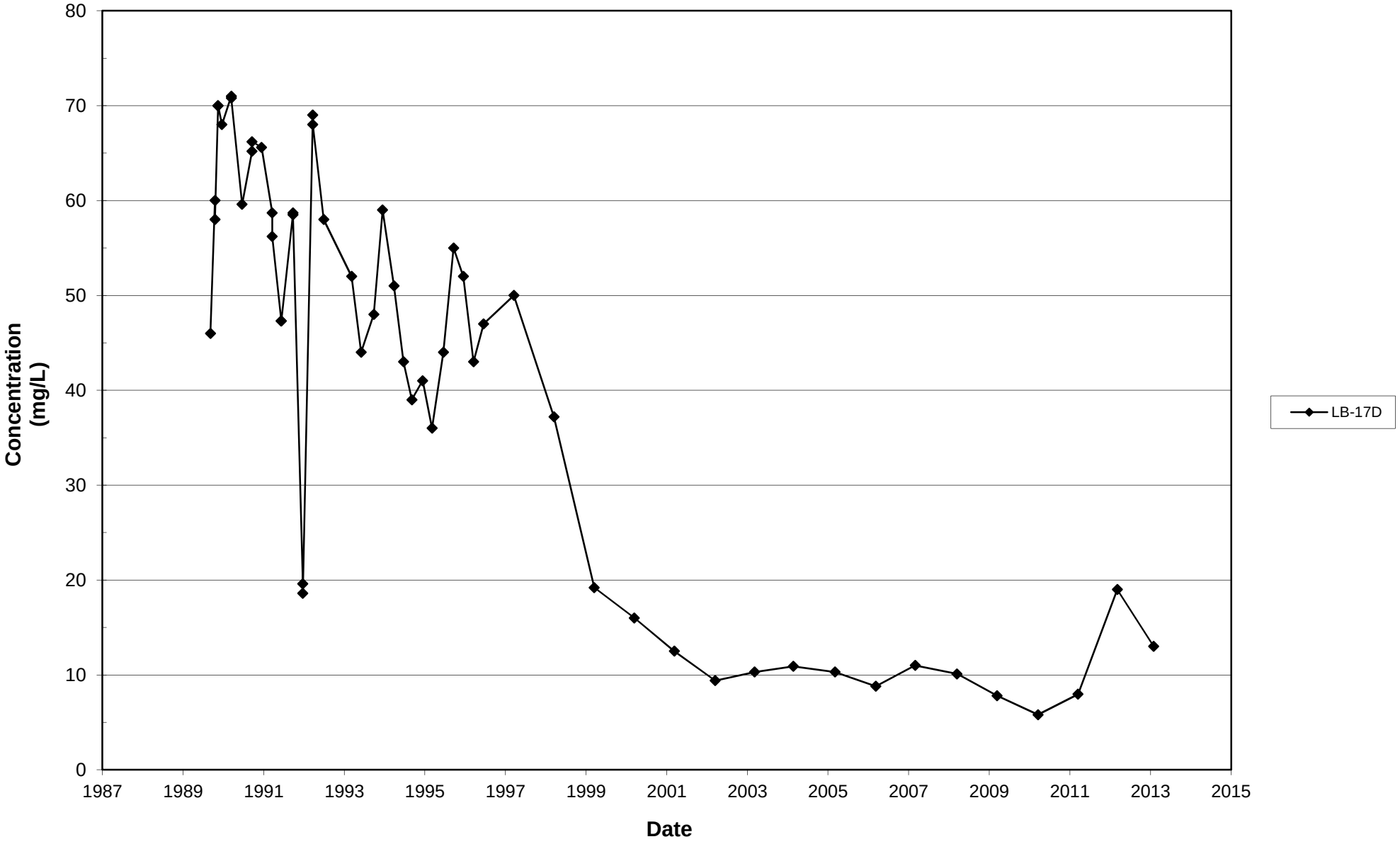
Leichner Landfill
Chloride, LB-13D
1987 - 2013



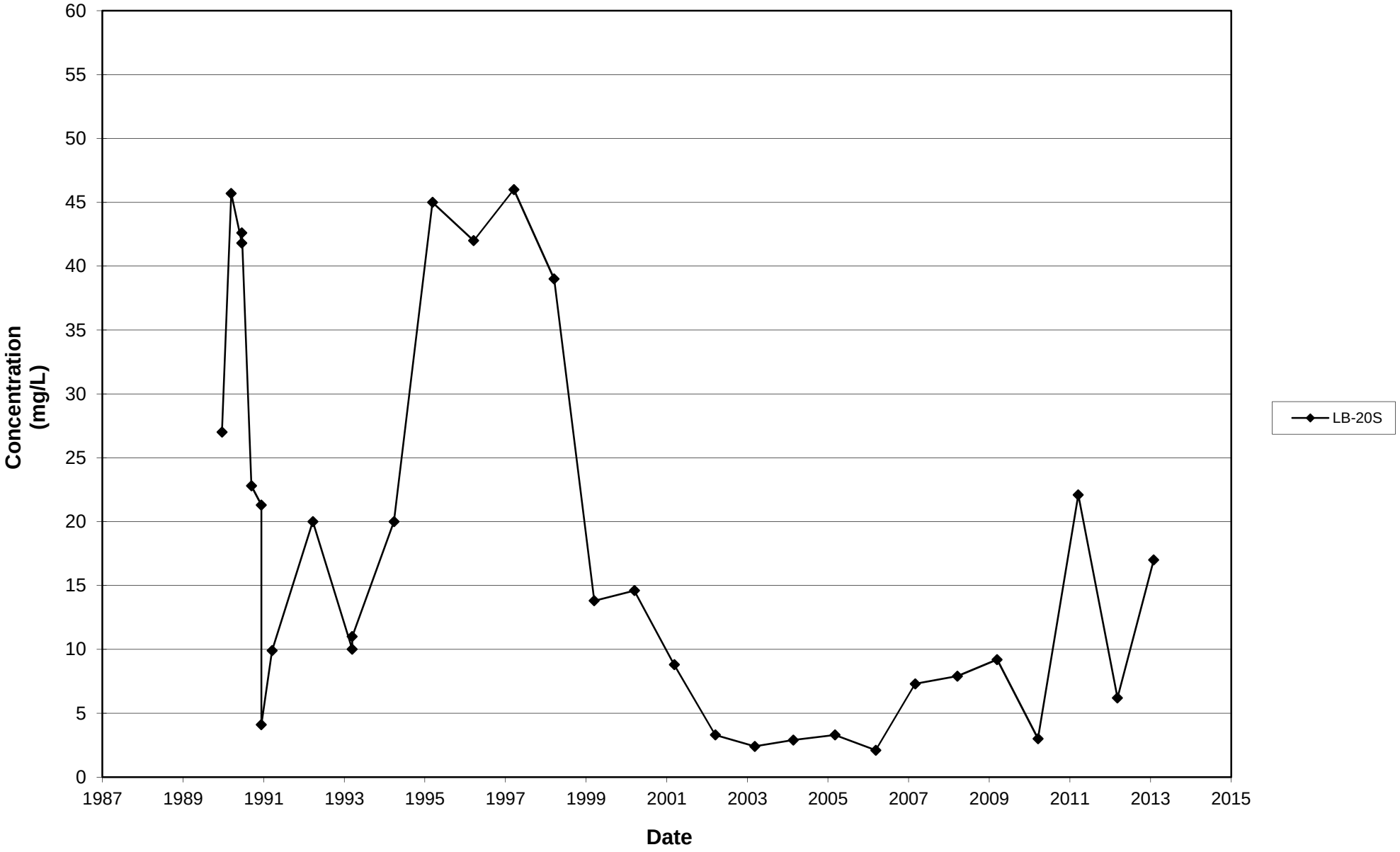
Leichner Landfill
Chloride, LB-17I
1987 - 2013



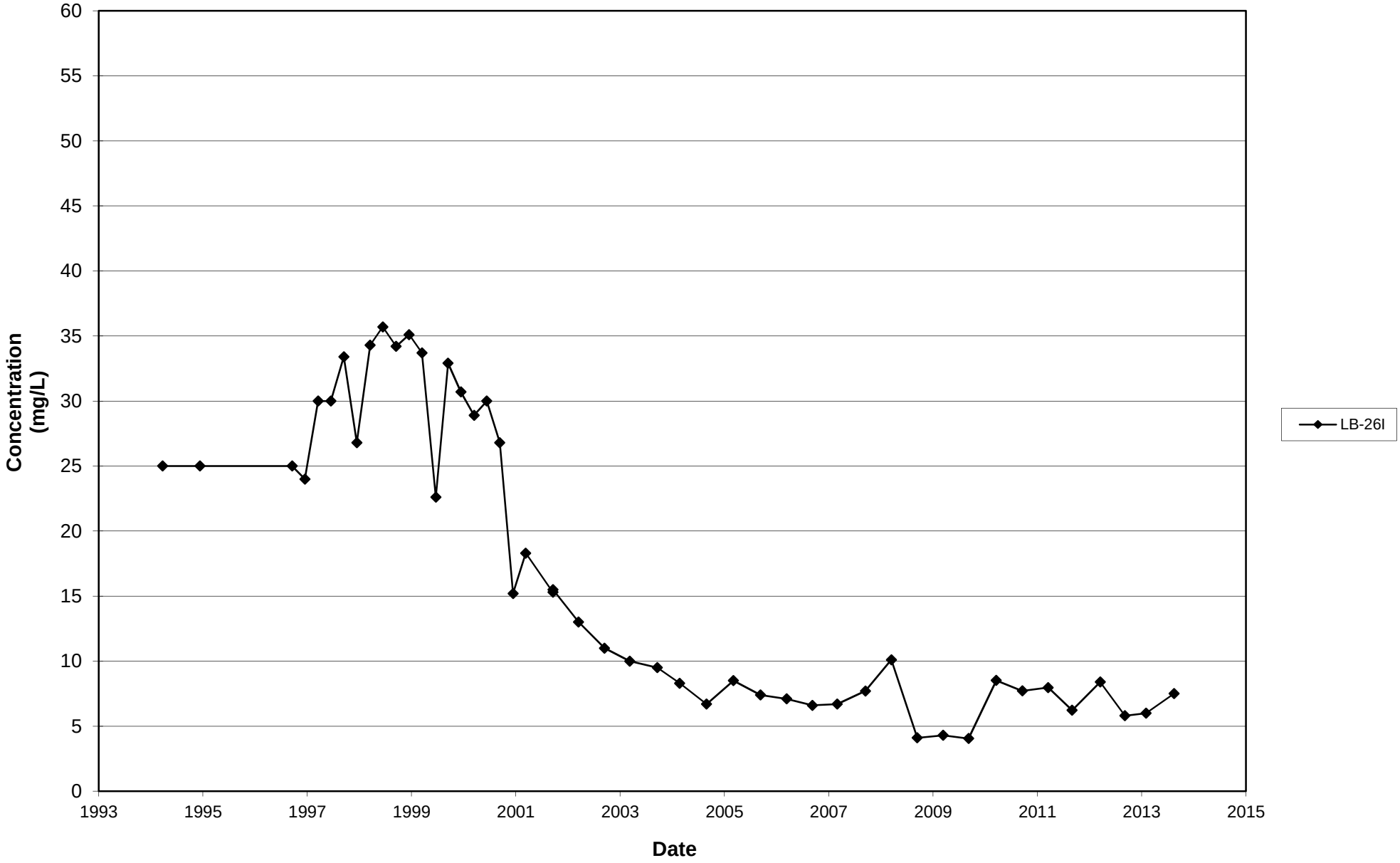
Leichner Landfill
Chloride, LB-17D
1987 - 2013



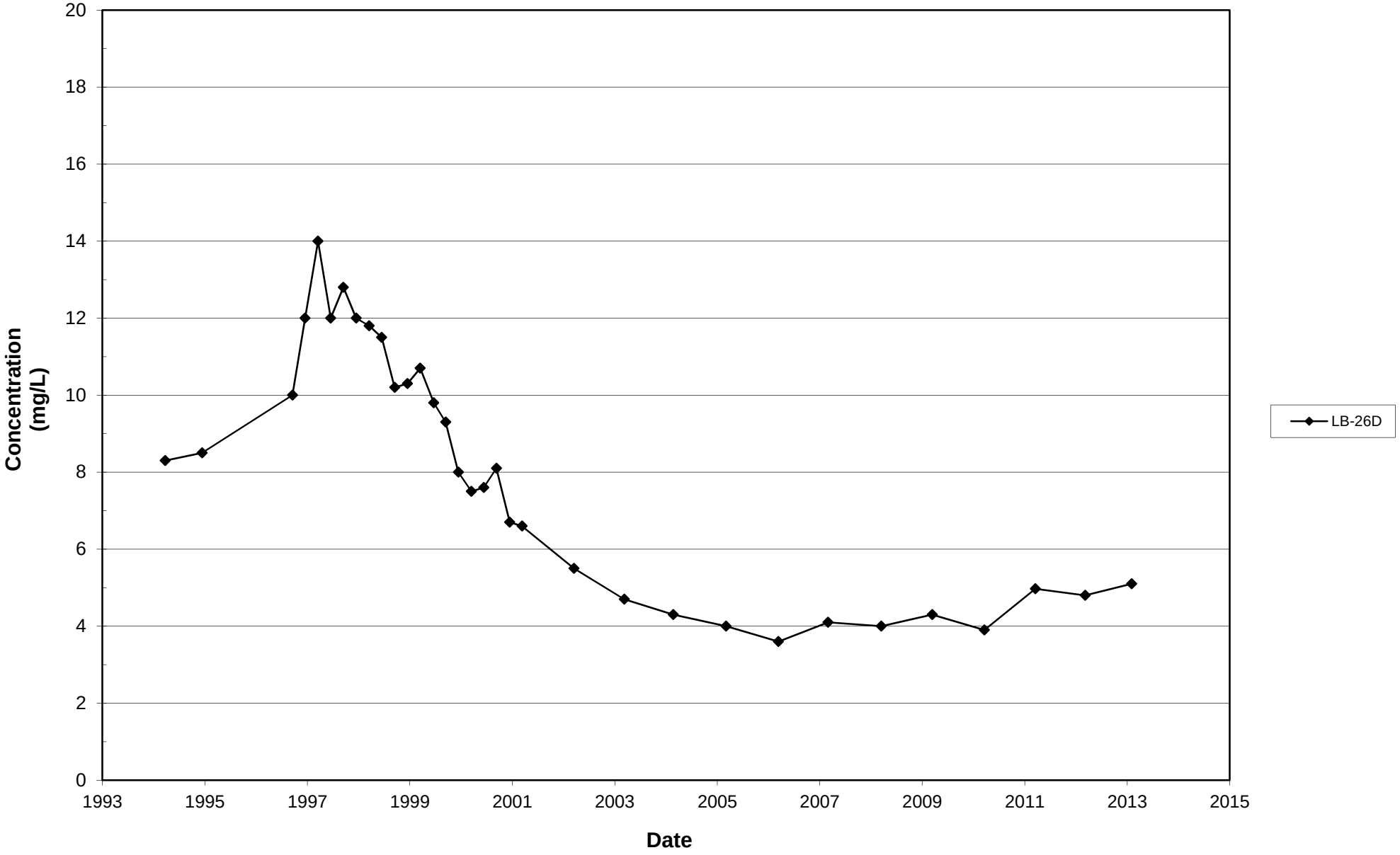
Leichner Landfill
Chloride, LB-20S
1987 - 2013



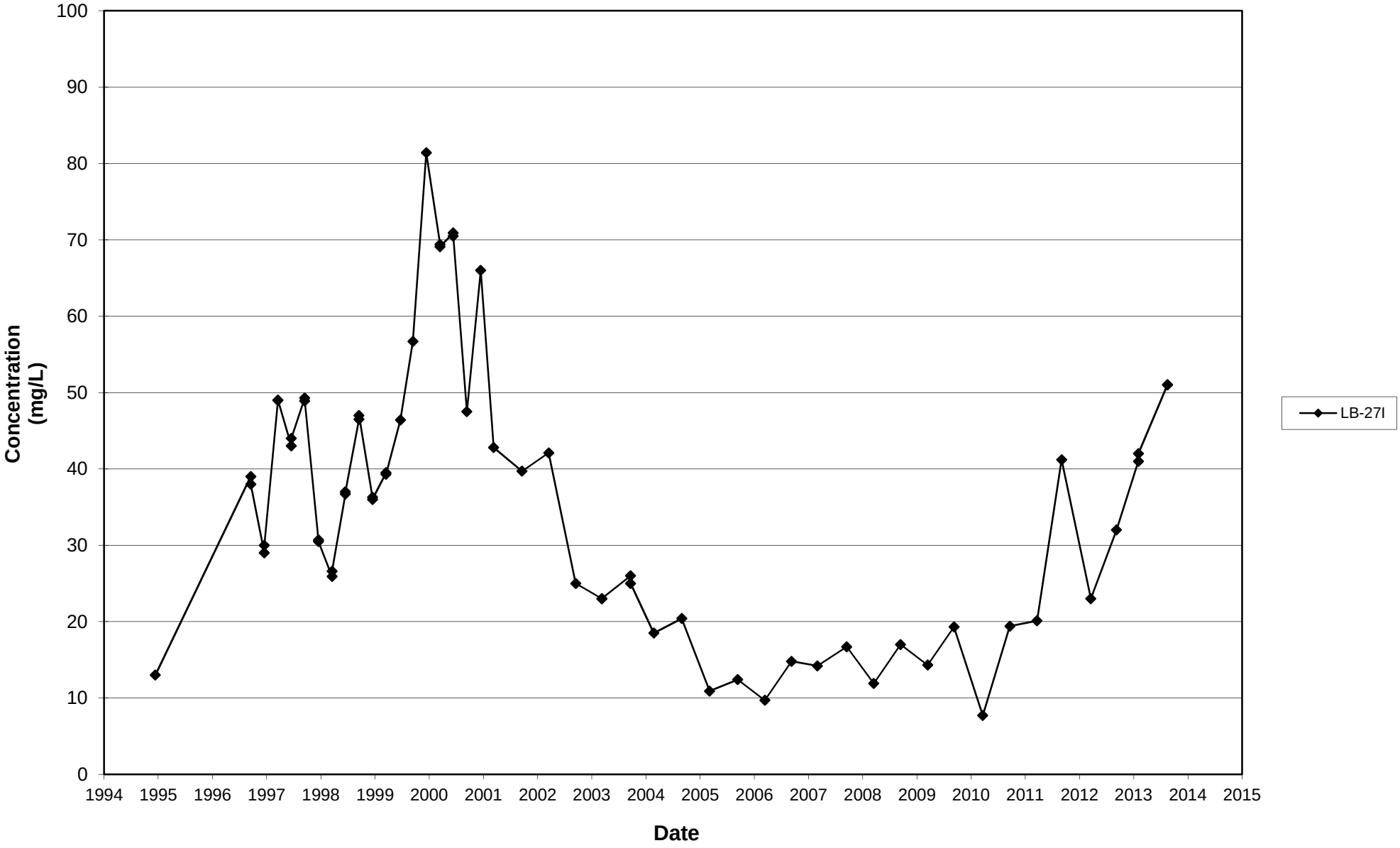
Leichner Landfill
Chloride, LB-26I
1987 - 2013



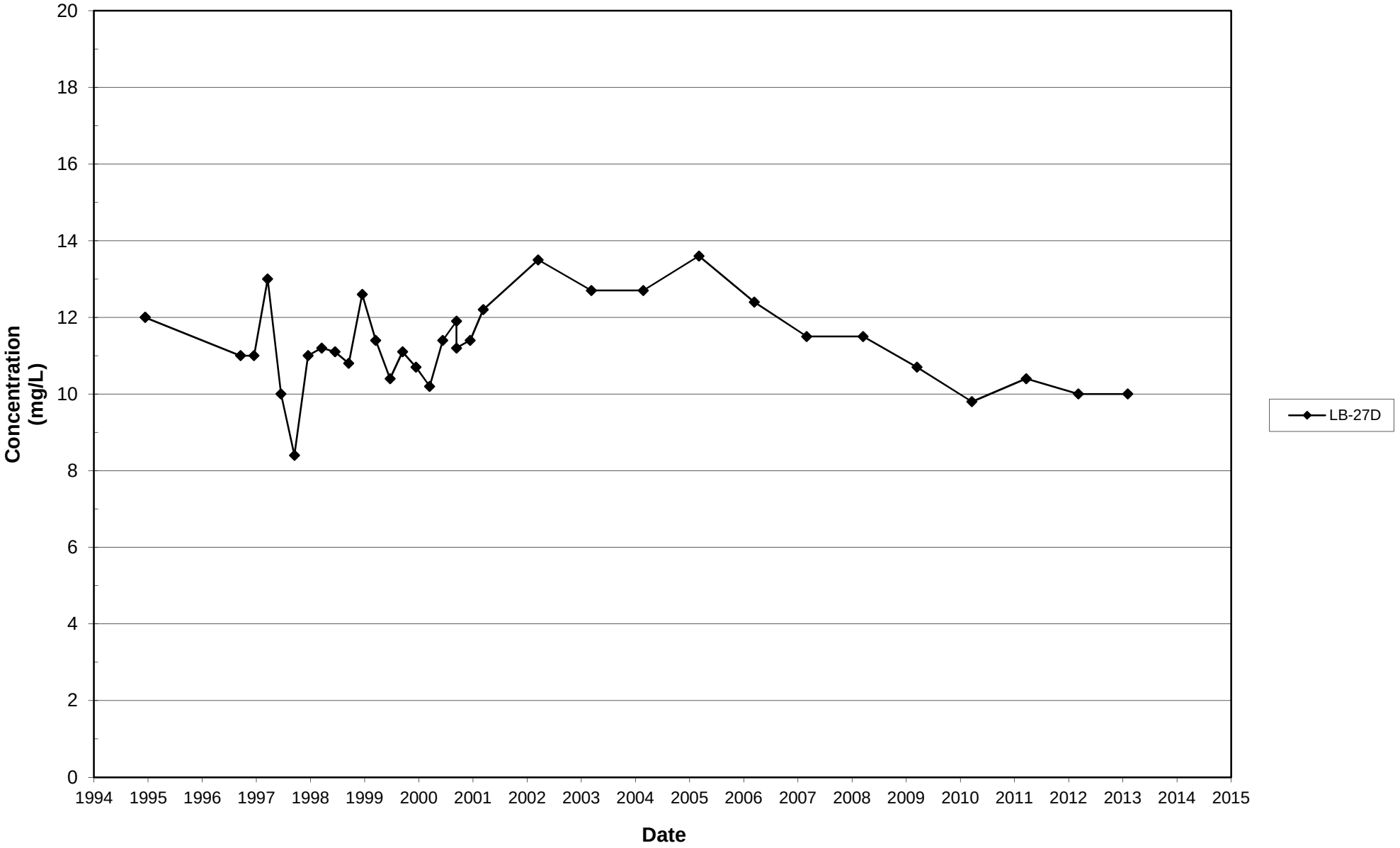
Leichner Landfill
Chloride, LB-26D
1987 - 2013



Leichner Landfill
Chloride, LB-27I
1994 - 2013

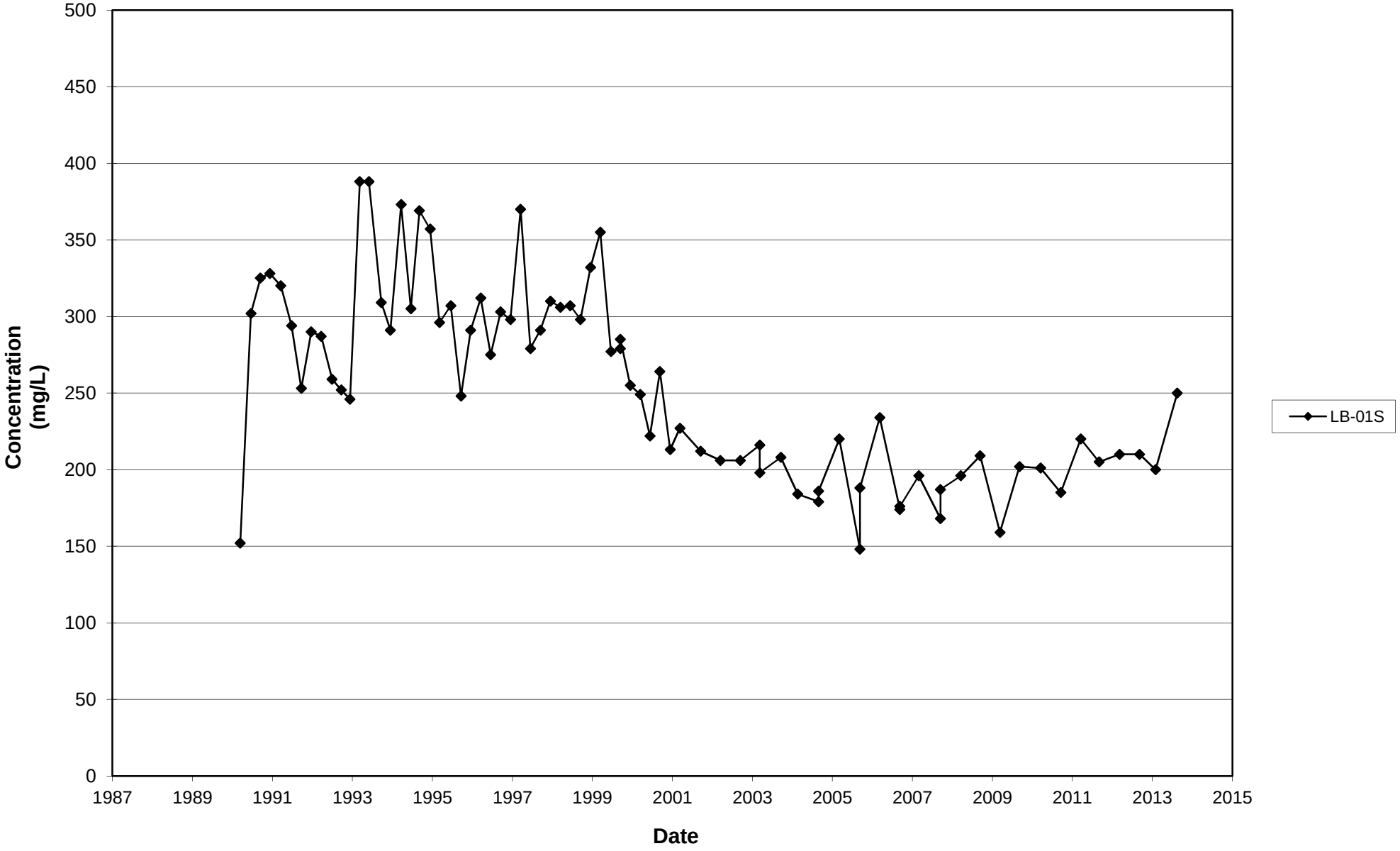


Leichner Landfill
Chloride, LB-27D
1994 - 2013

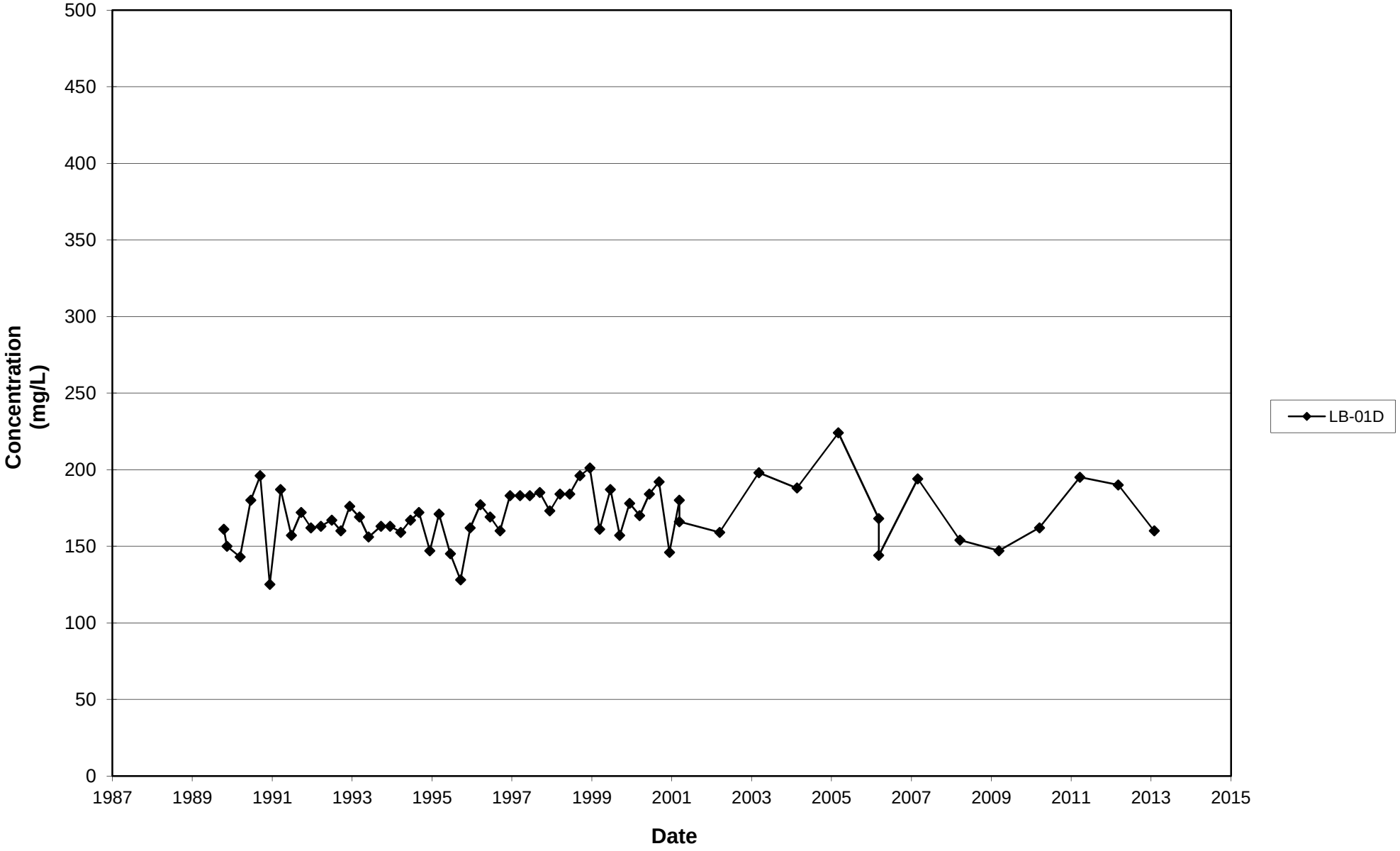


Total Dissolved Solids

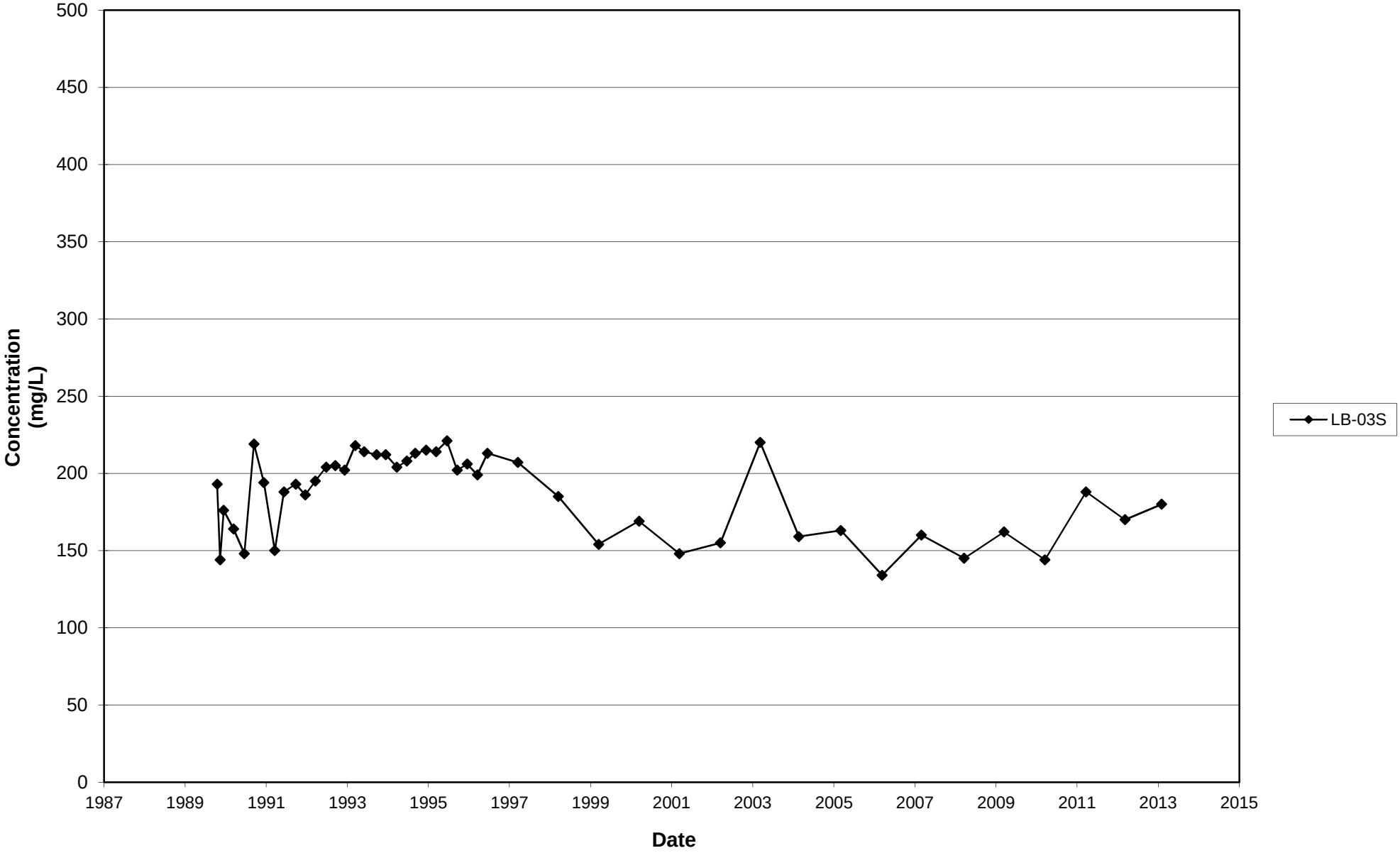
Leichner Landfill
Total Dissolved Solids, LB-01S
1987 - 2013



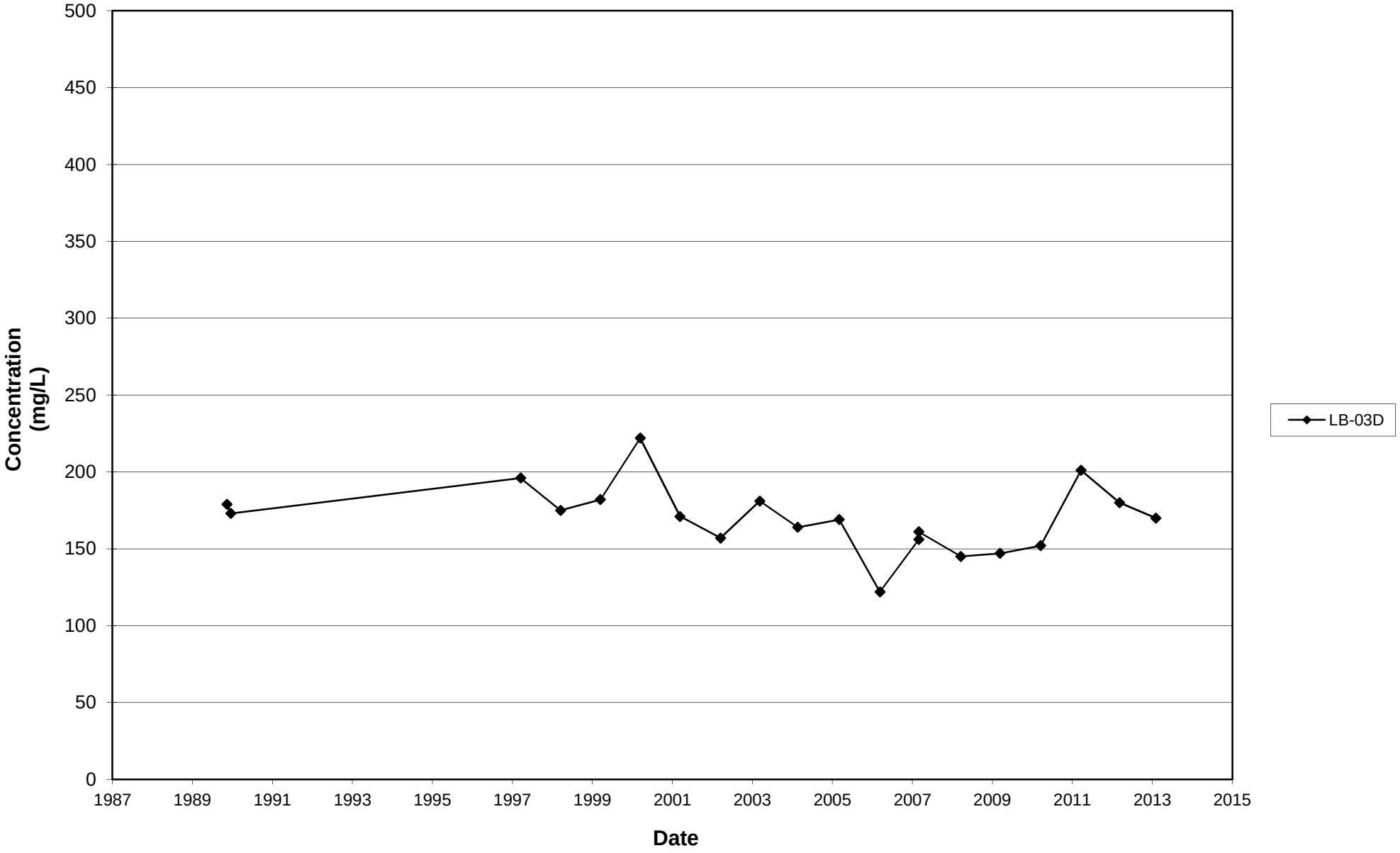
Leichner Landfill
Total Dissolved Solids, LB-01D
1987 - 2013



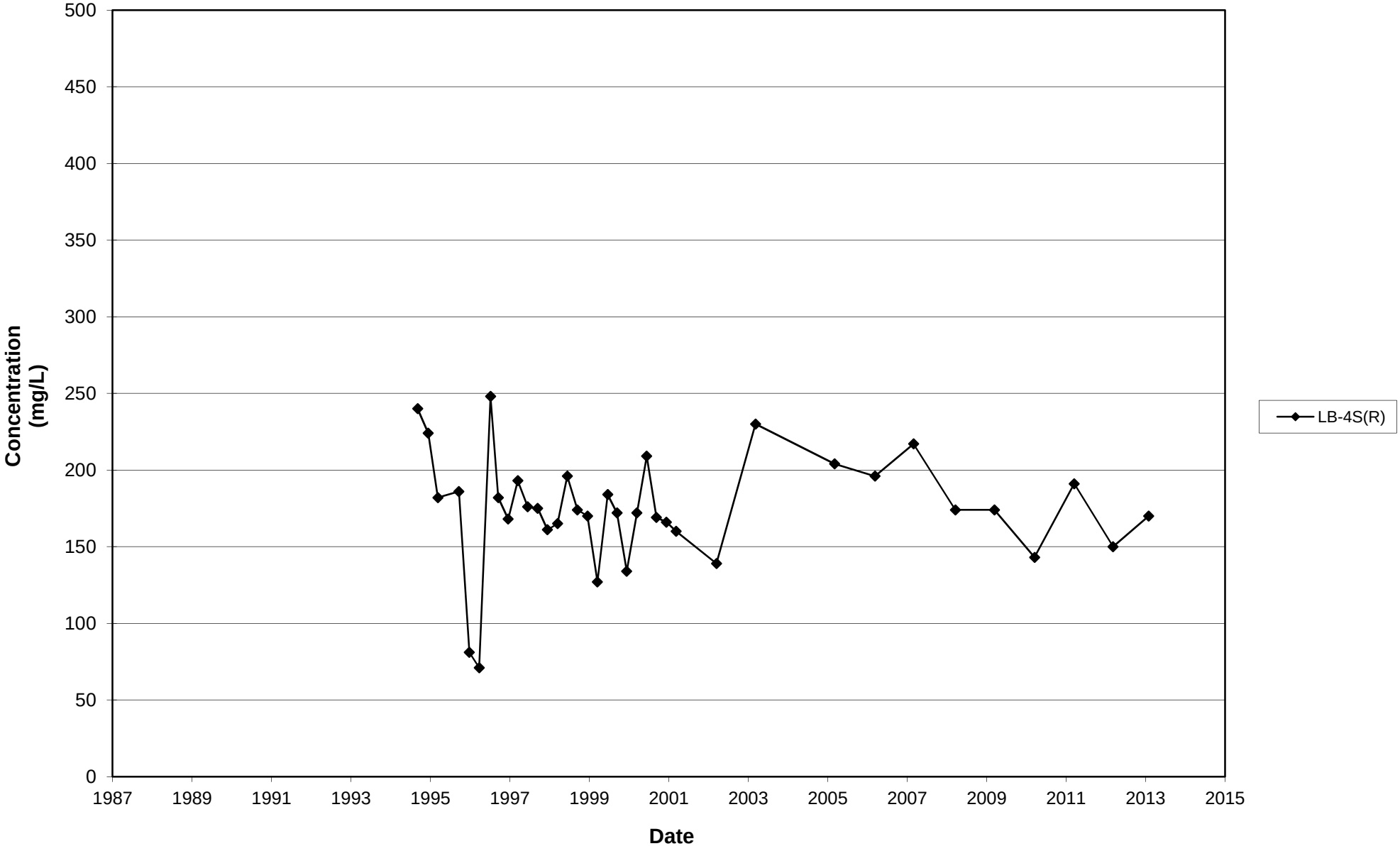
Leichner Landfill
Total Dissolved Solids, LB-03S
1987 - 2013



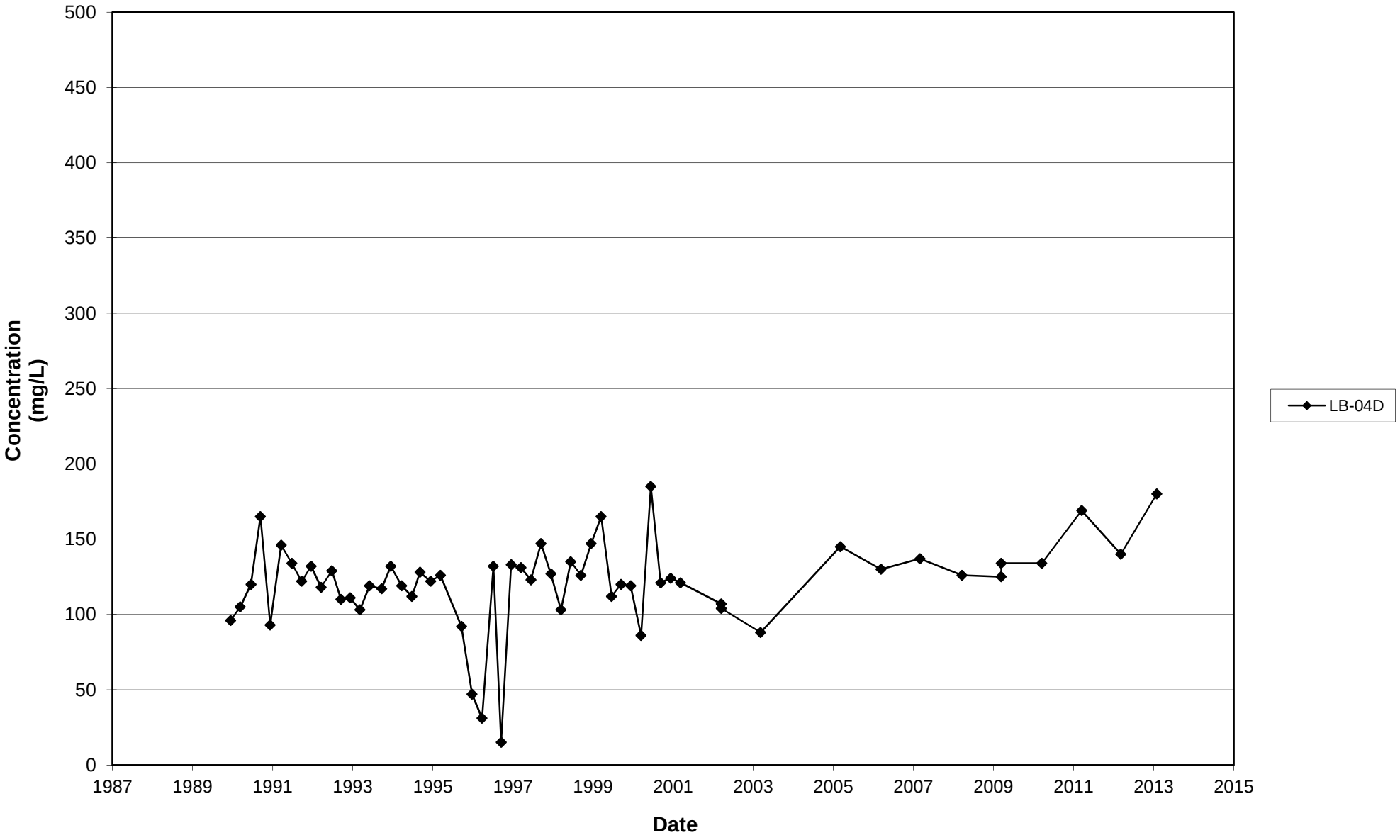
Leichner Landfill
Total Dissolved Solids, LB-03D
1987 - 2013



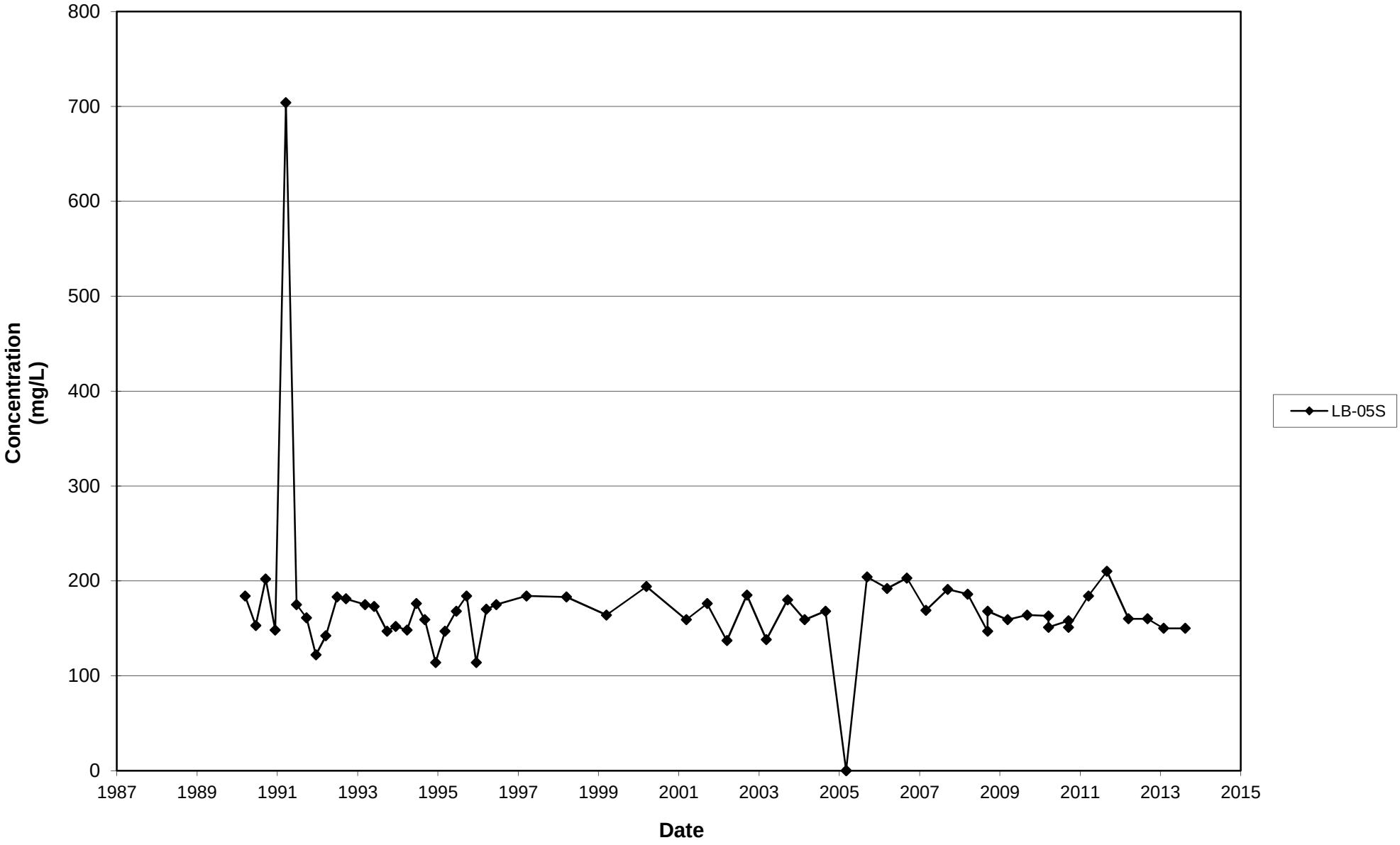
Leichner Landfill
Total Dissolved Solids, LB-04SR
1987 - 2013



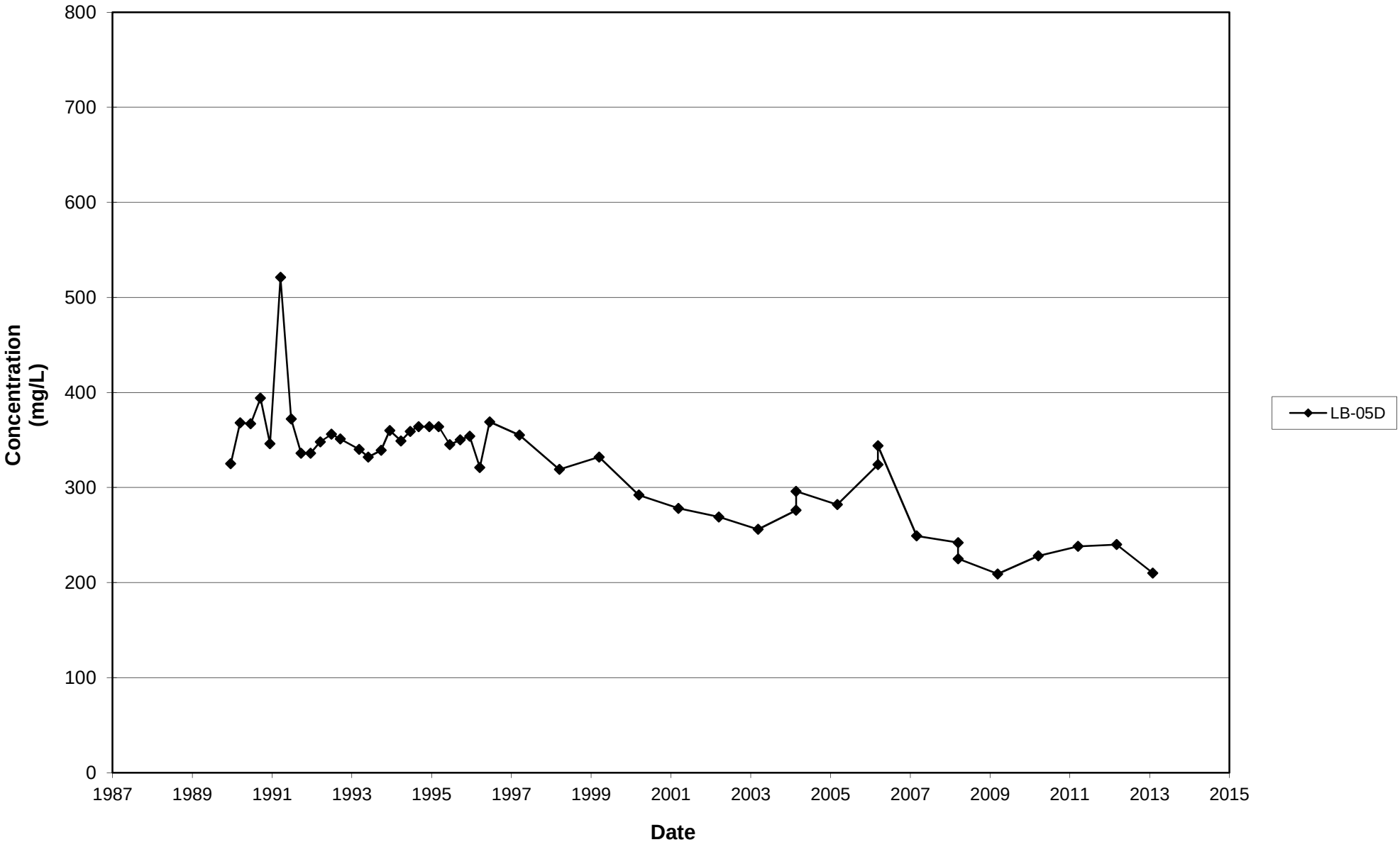
Leichner Landfill
Total Dissolved Solids, LB-04D
1987 - 2013



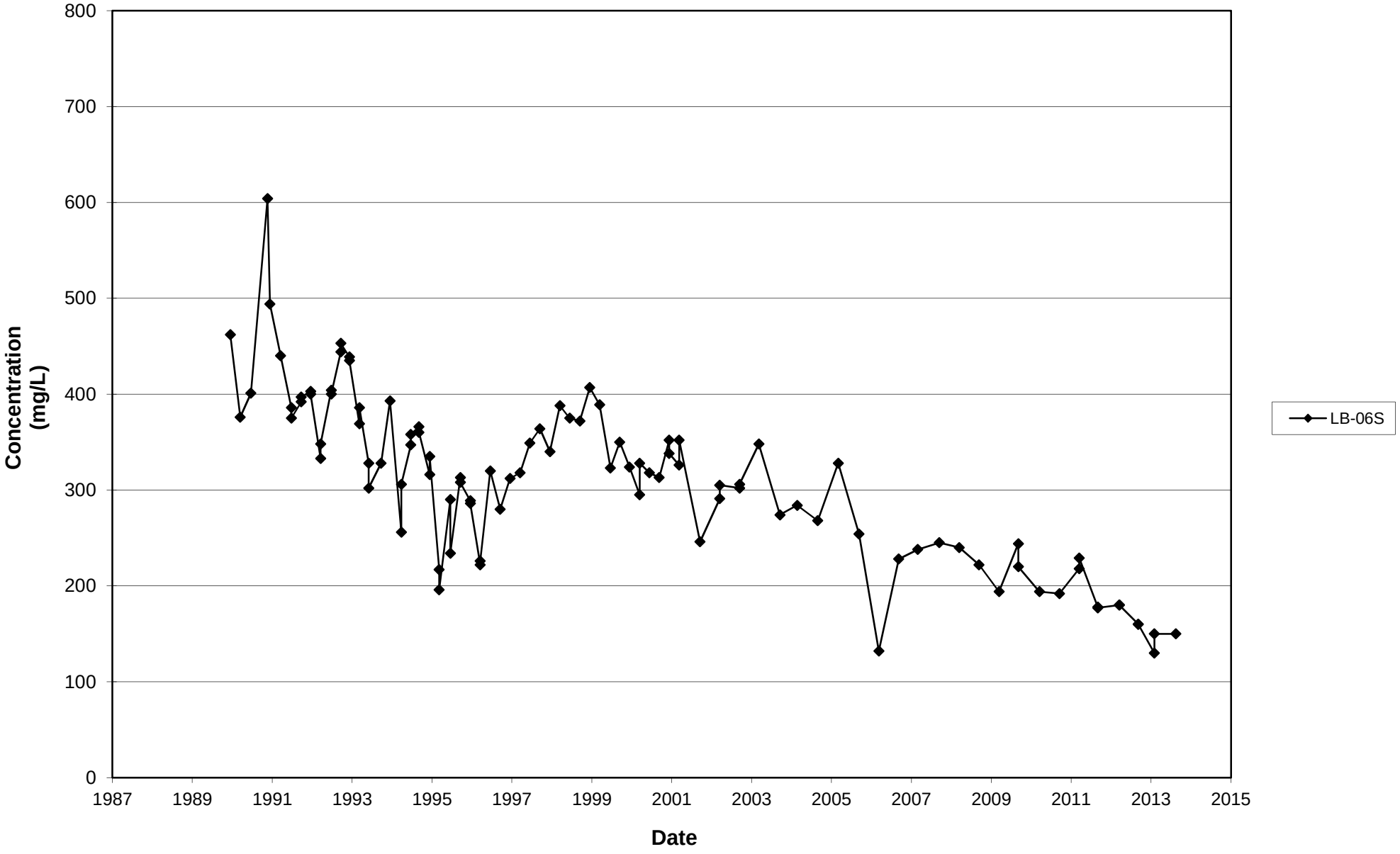
Leichner Landfill
Total Dissolved Solids, LB-05S
1987 - 2013



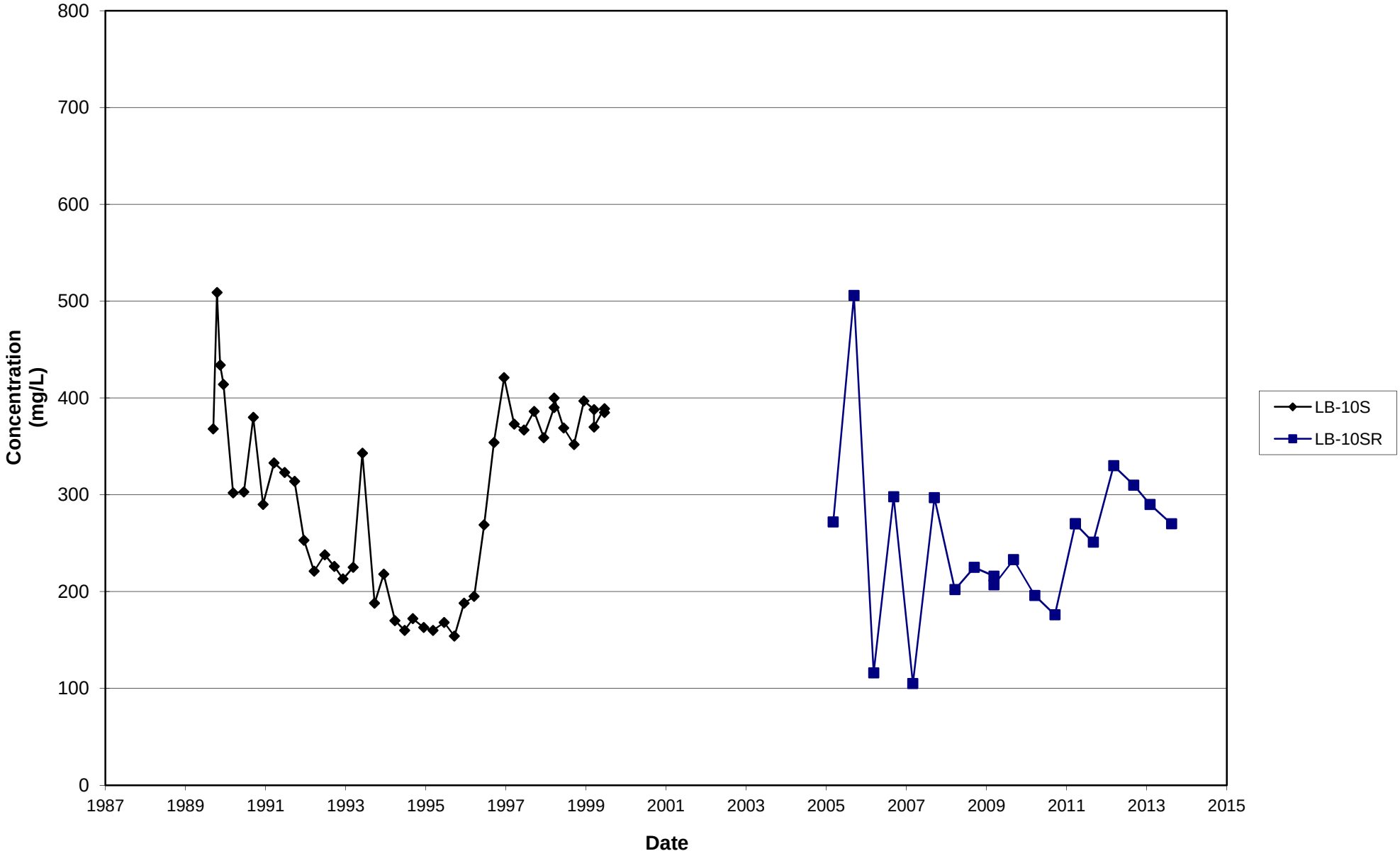
Leichner Landfill
Total Dissolved Solids, LB-05D
1987 - 2013



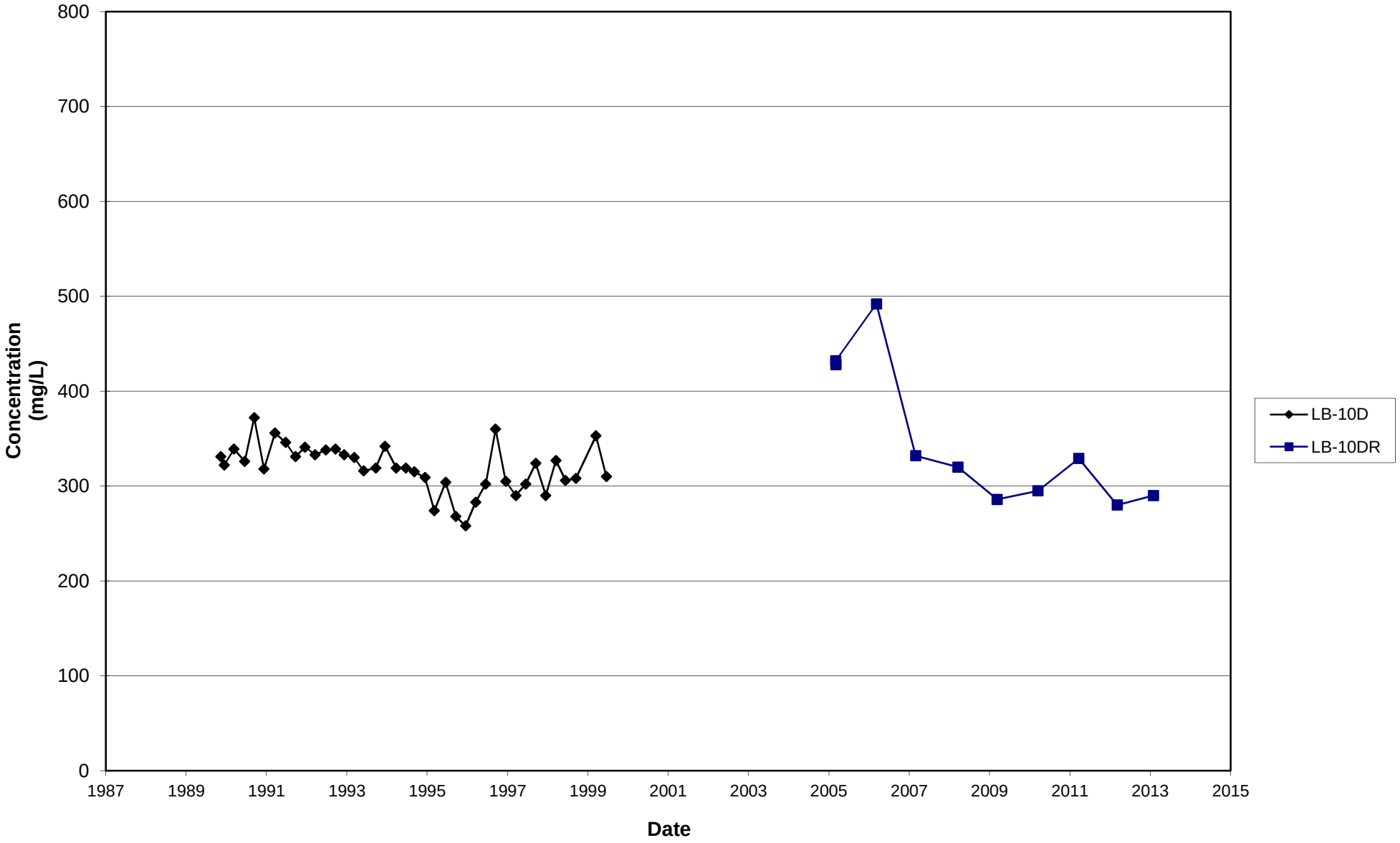
Leichner Landfill
Total Dissolved Solids, LB-06S
1987 - 2013



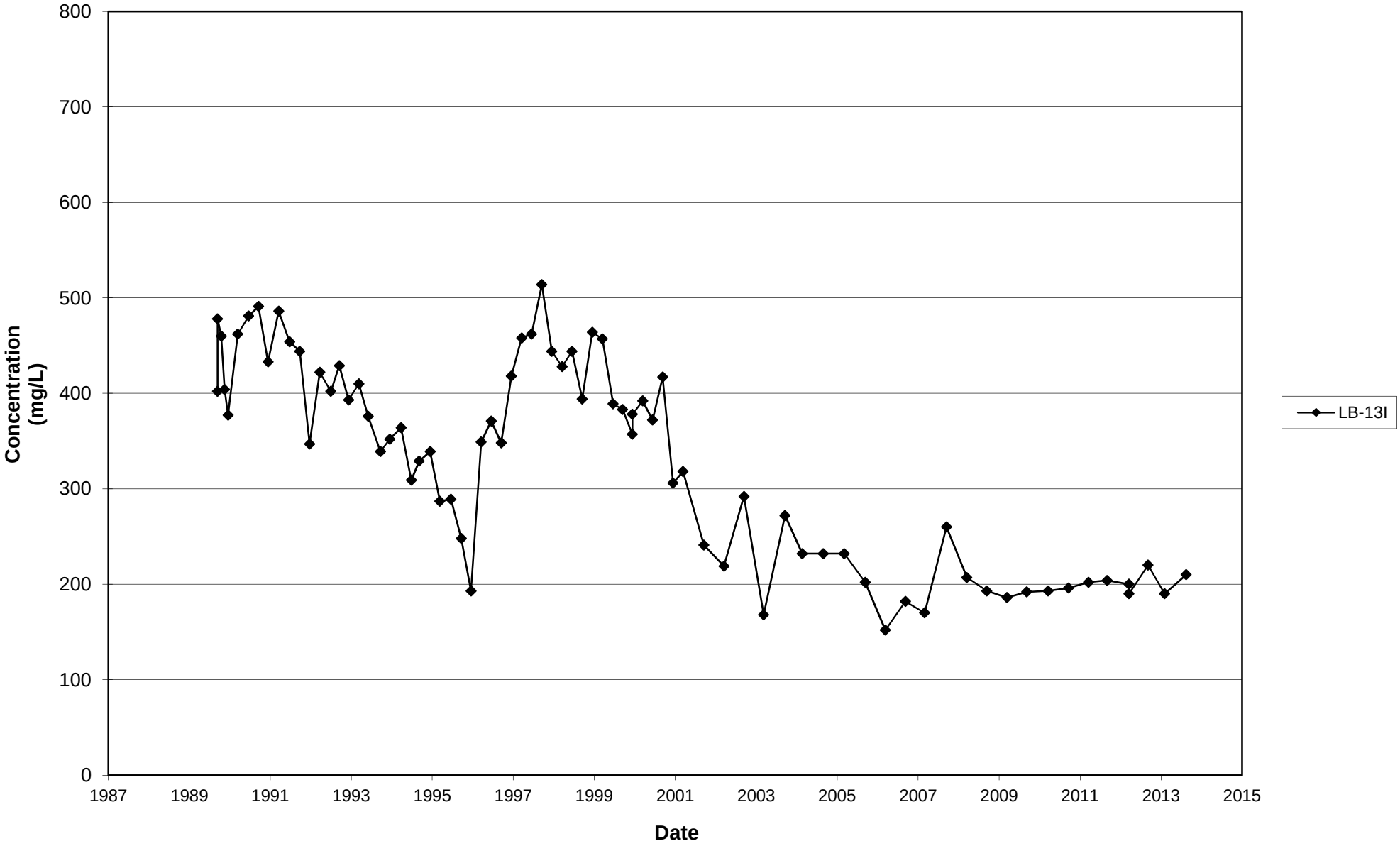
Leichner Landfill
Total Dissolved Solids, LB-10S and LB-10SR
1987 - 2013



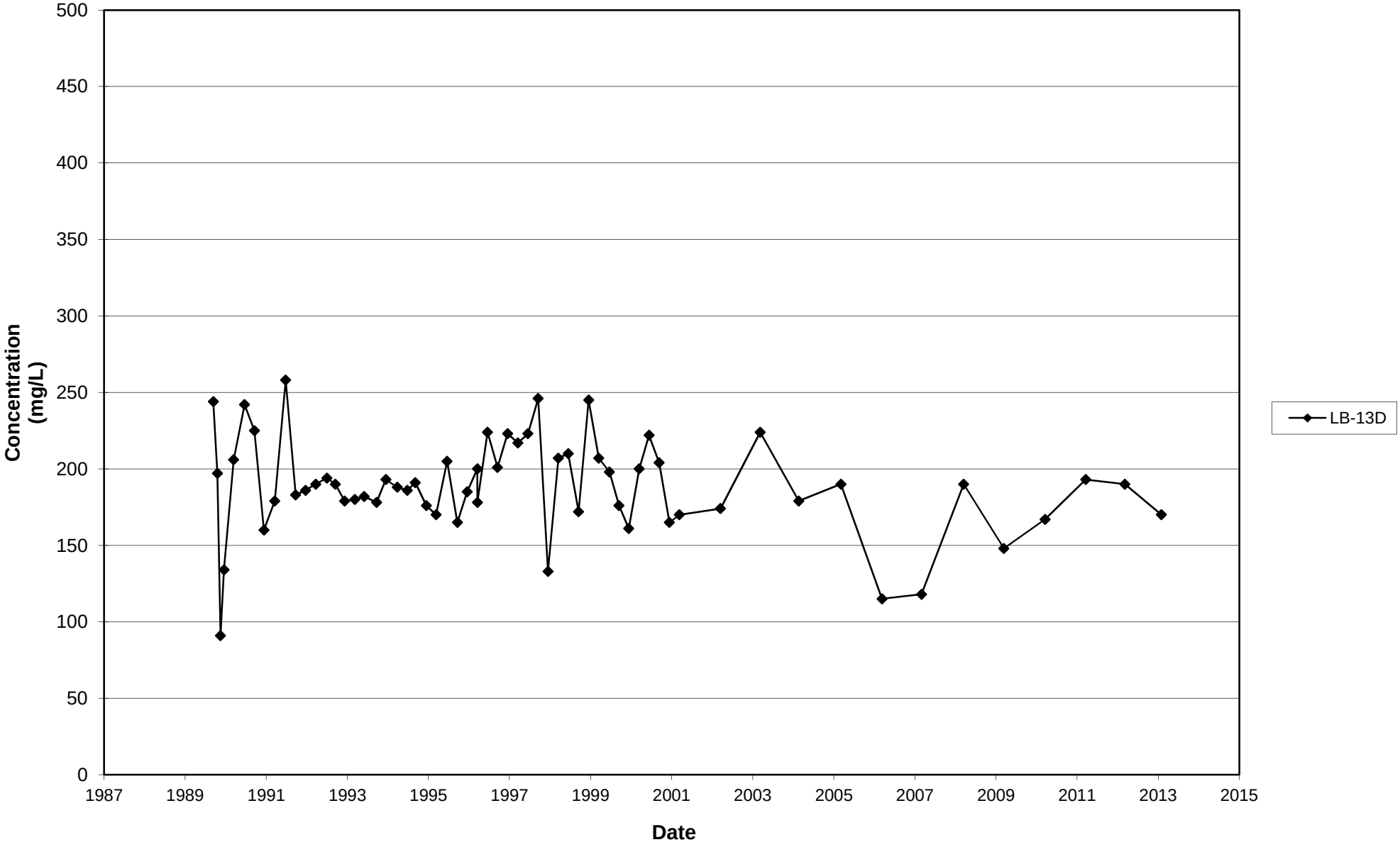
Leichner Landfill
Total Dissolved Solids, LB-10D and LB-10DR
1987 - 2013



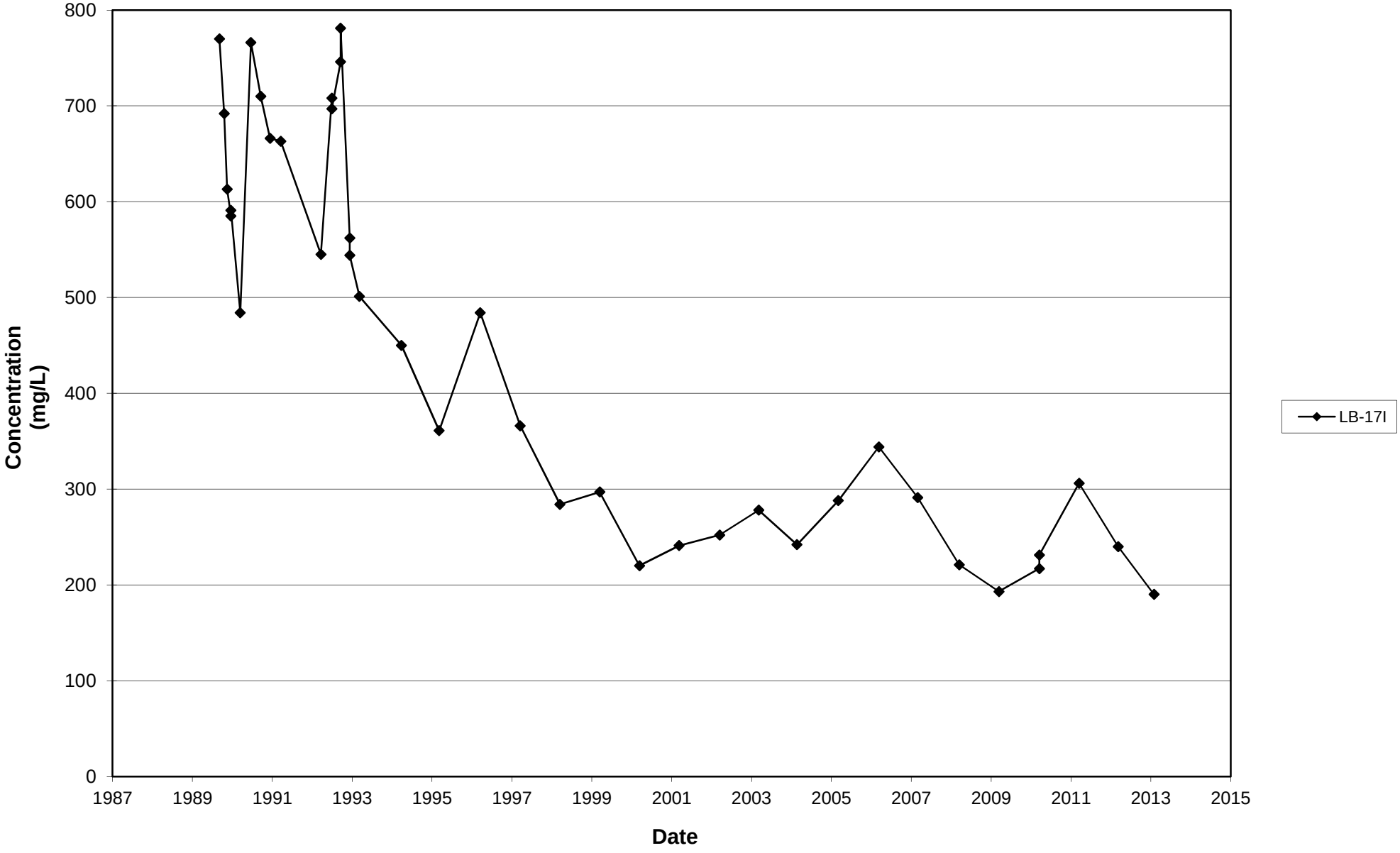
Leichner Landfill
Total Dissolved Solids, LB-13I
1987 - 2013



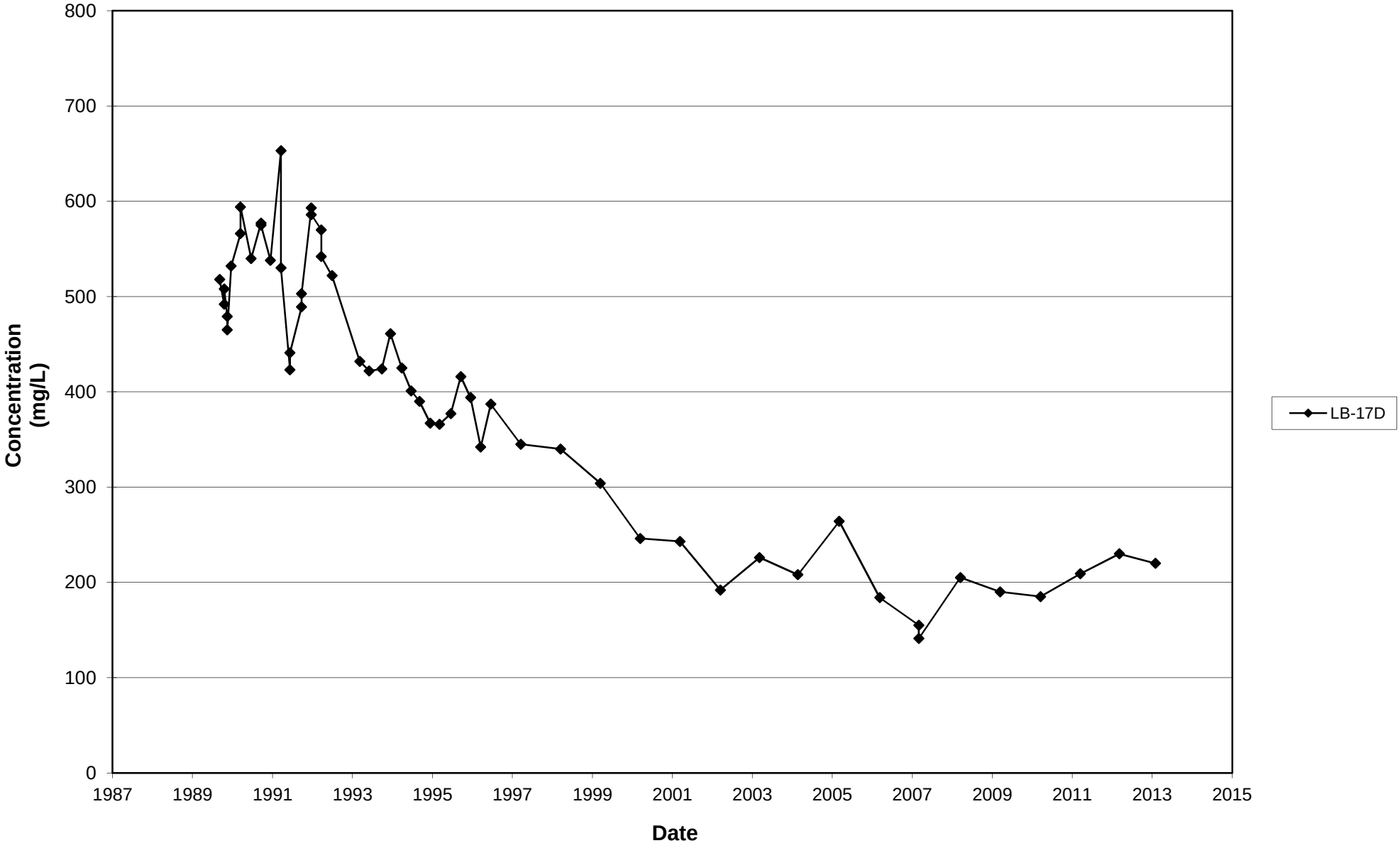
Leichner Landfill
Total Dissolved Solids, LB-13D
1987 - 2013



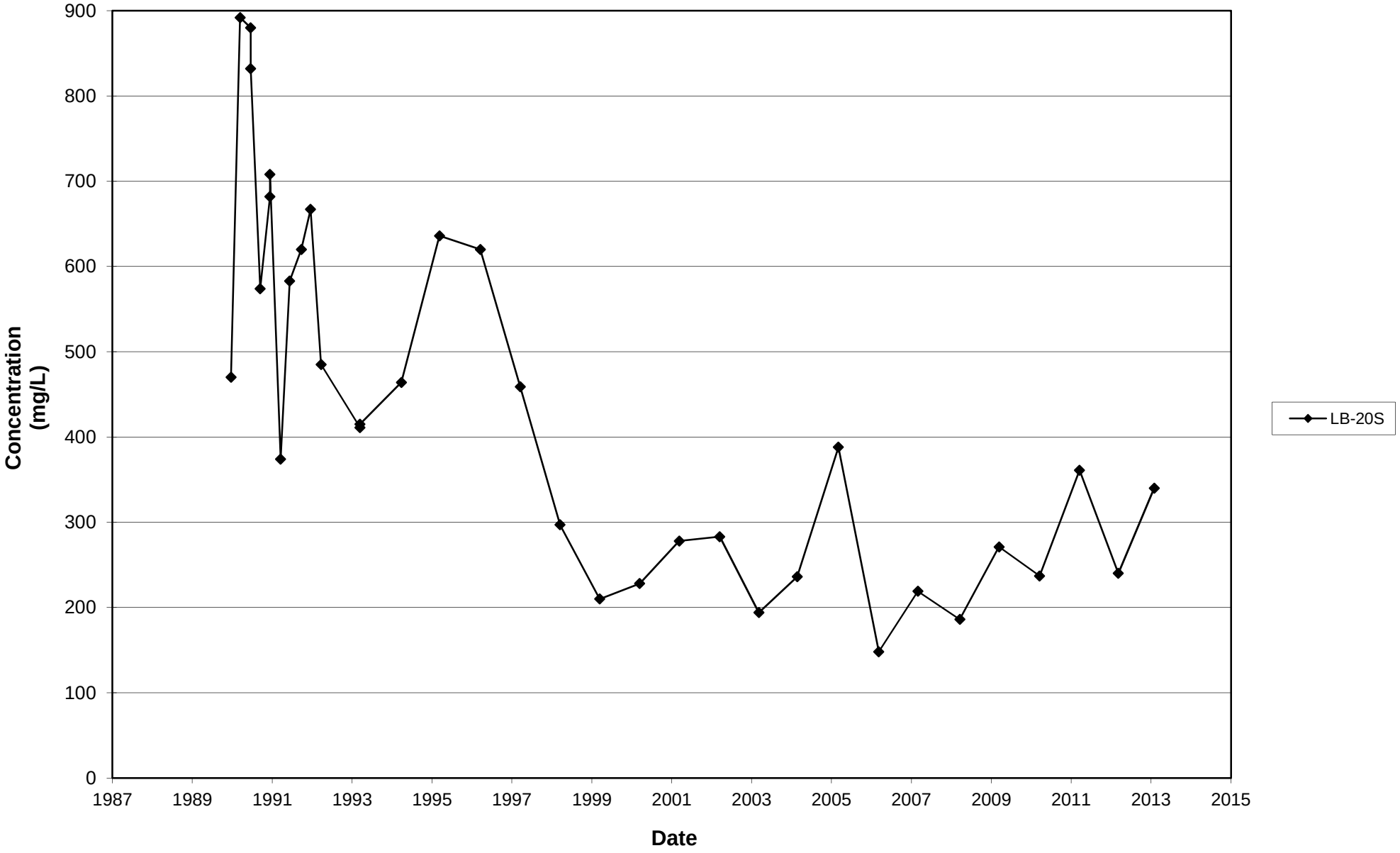
Leichner Landfill
Total Dissolved Solids, LB-17I
1987 - 2013



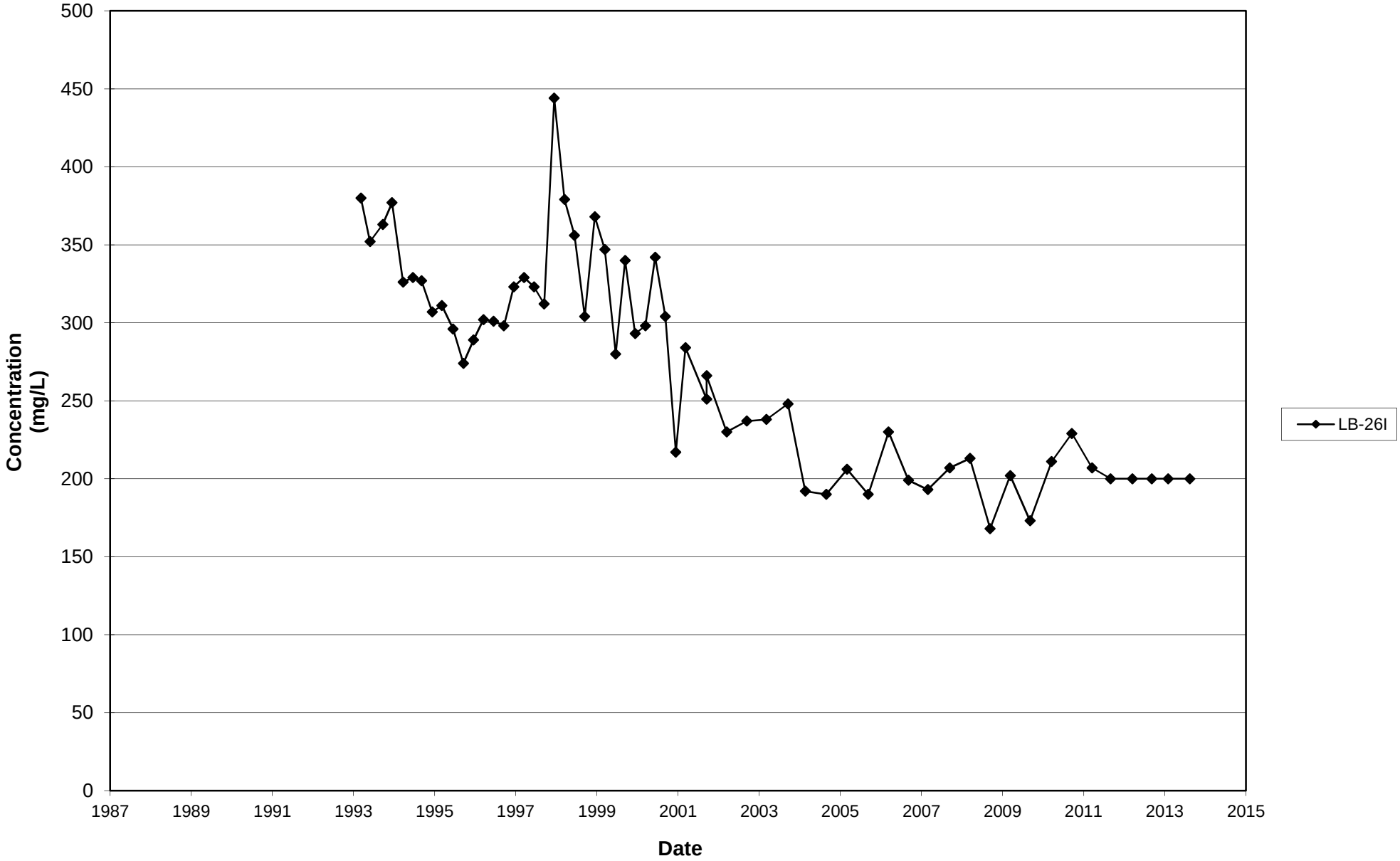
Leichner Landfill
Total Dissolved Solids, LB-17D
1987 - 2013



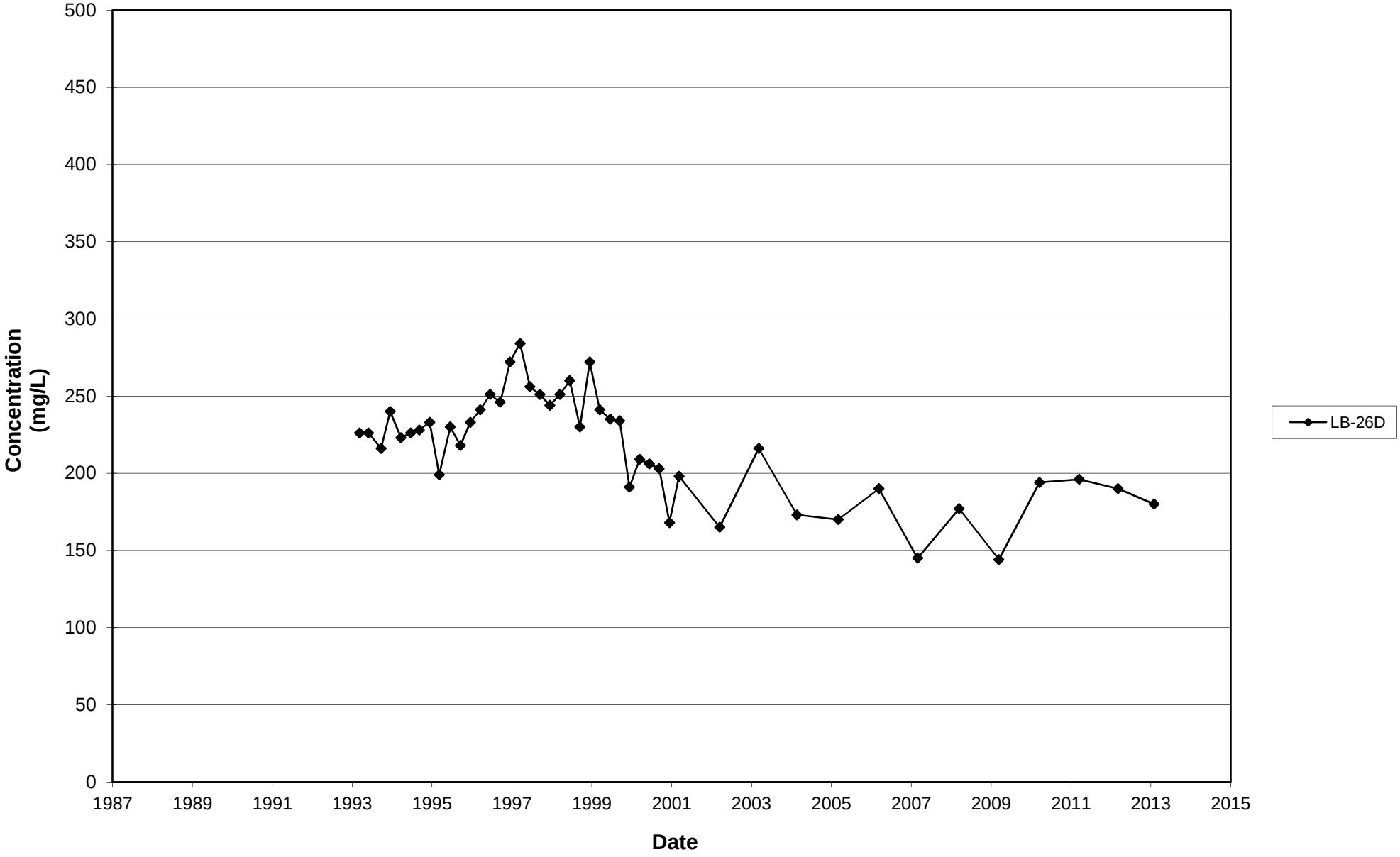
Leichner Landfill
Total Dissolved Solids, LB-20S
1987 - 2013



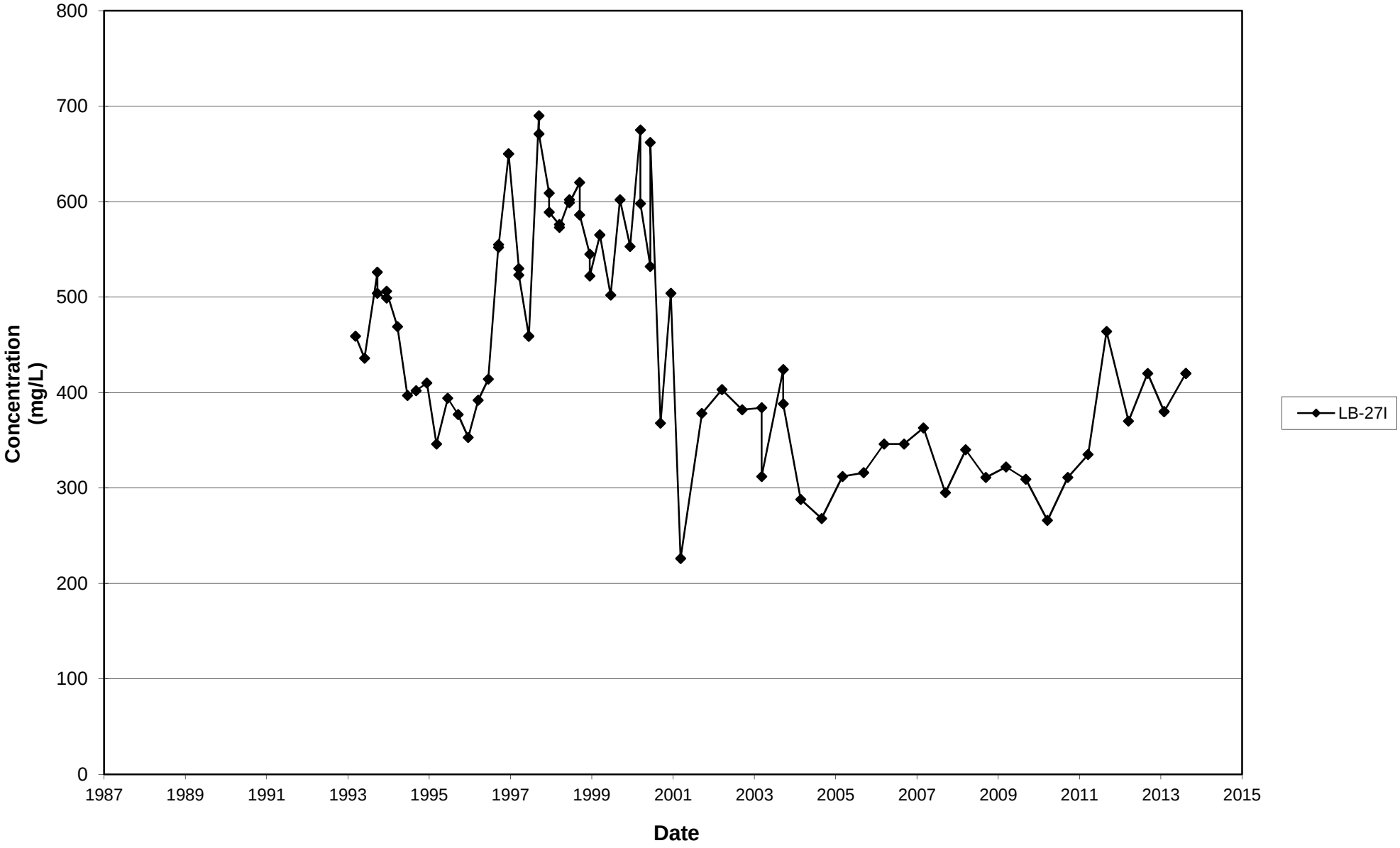
Leichner Landfill
Total Dissolved Solids, LB-26I
1987 - 2013



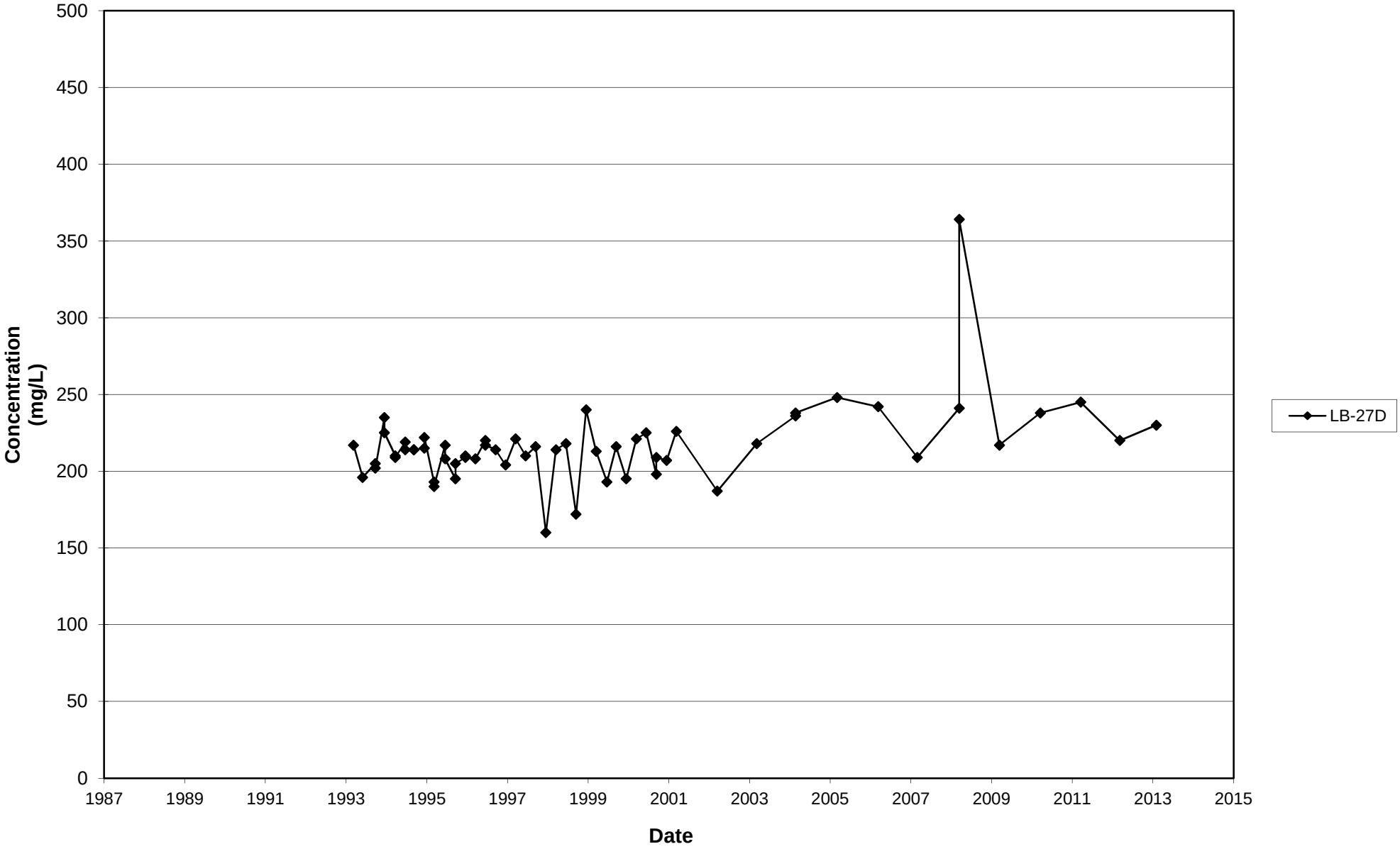
Leichner Landfill
Total Dissolved Solids, LB-26D
1987 - 2013



Leichner Landfill
Total Dissolved Solids, LB-27I
1987 - 2013

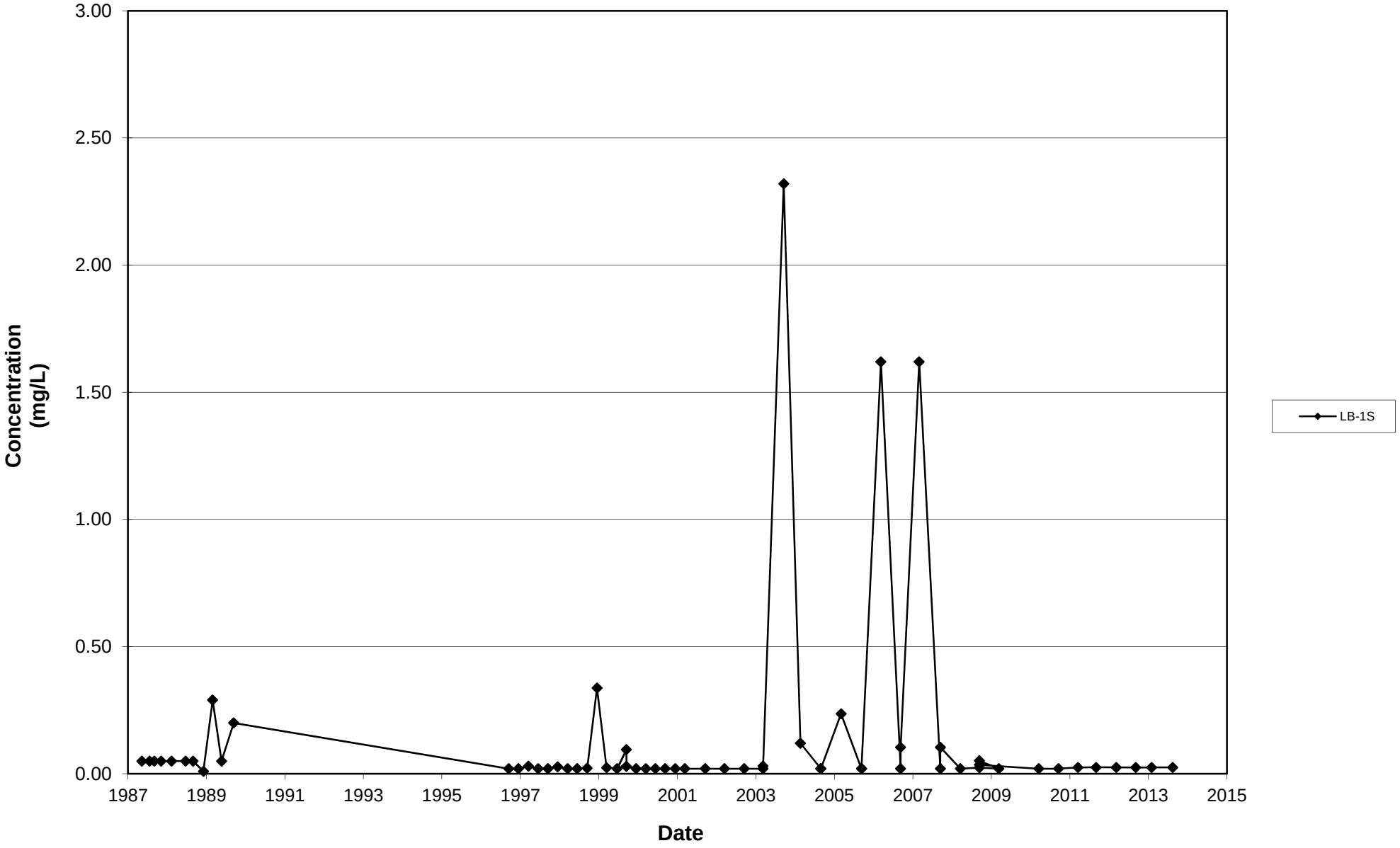


Leichner Landfill
Total Dissolved Solids, LB-27D
1987 - 2013

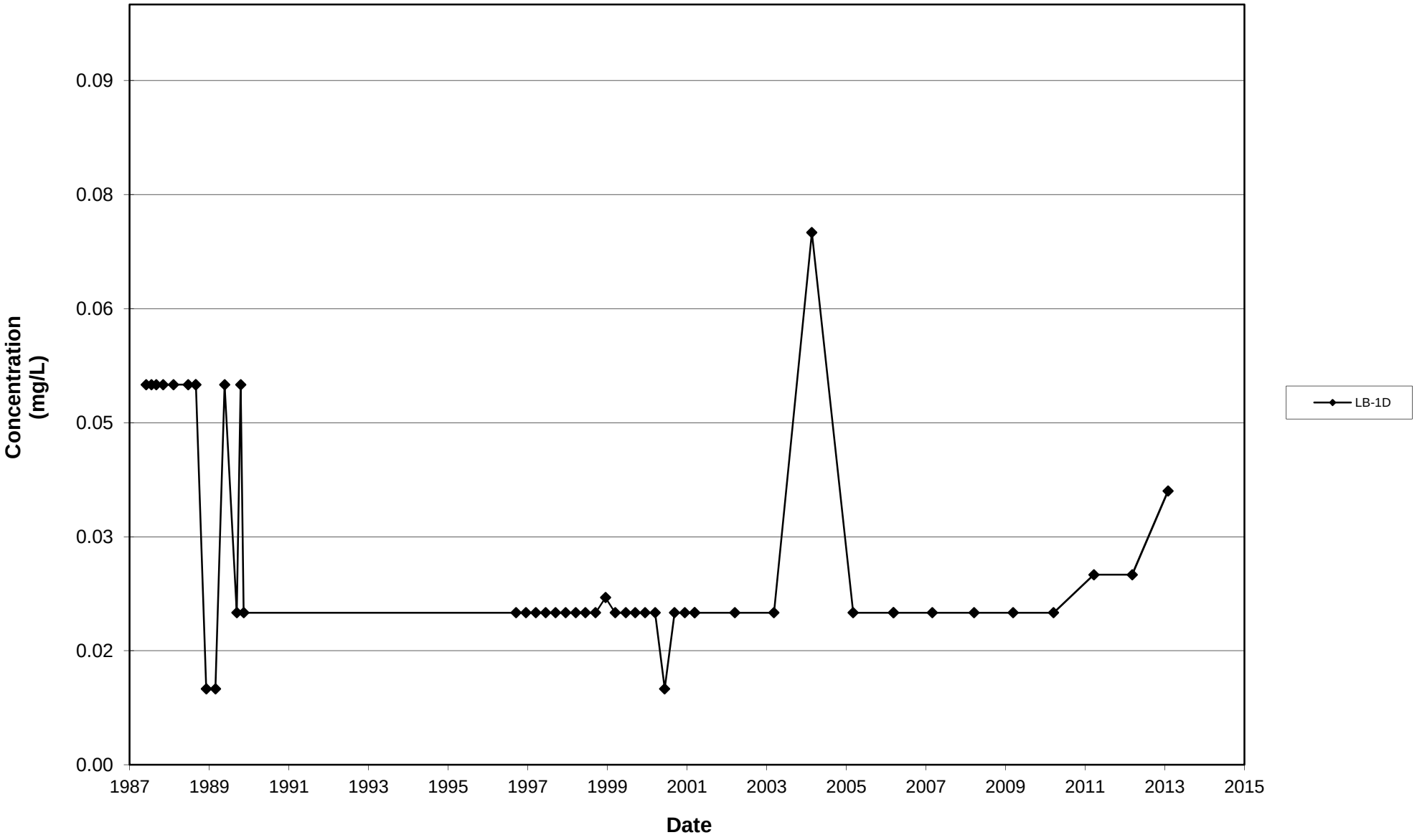


Dissolved Iron

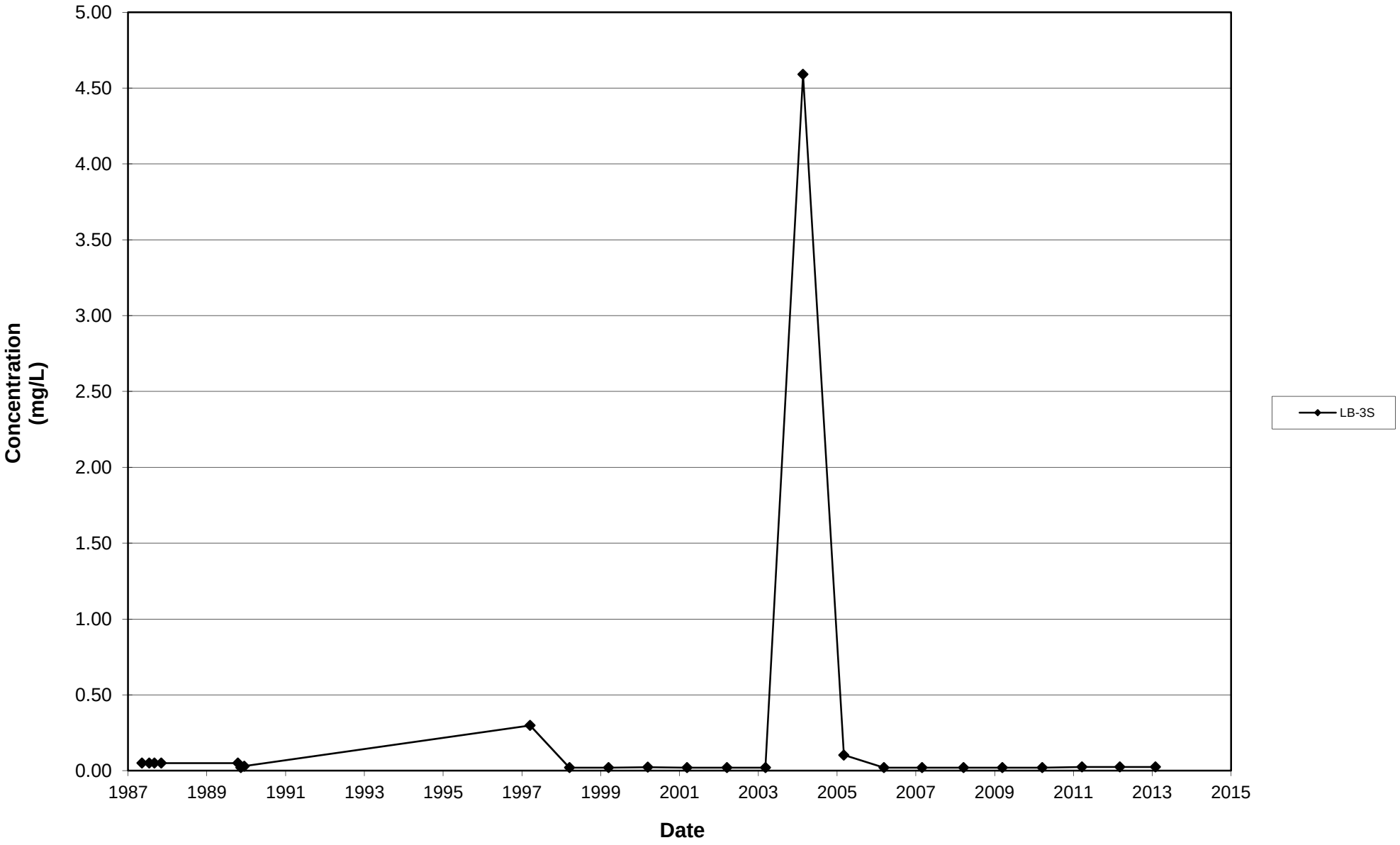
Leichner Landfill
Dissolved Iron, LB-01S
1987 - 2013



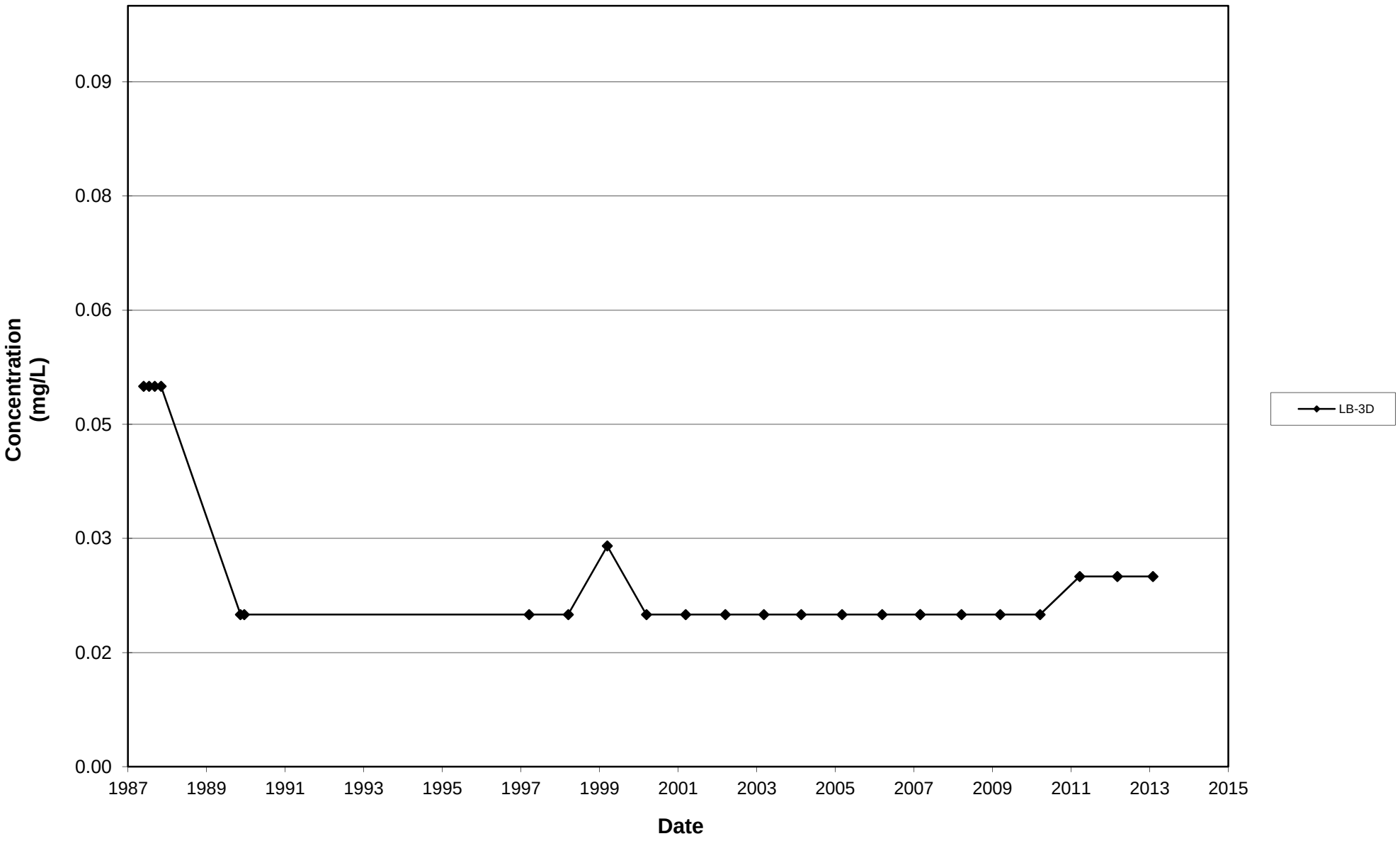
Leichner Landfill
Dissolved Iron, LB-01D
1987 - 2013



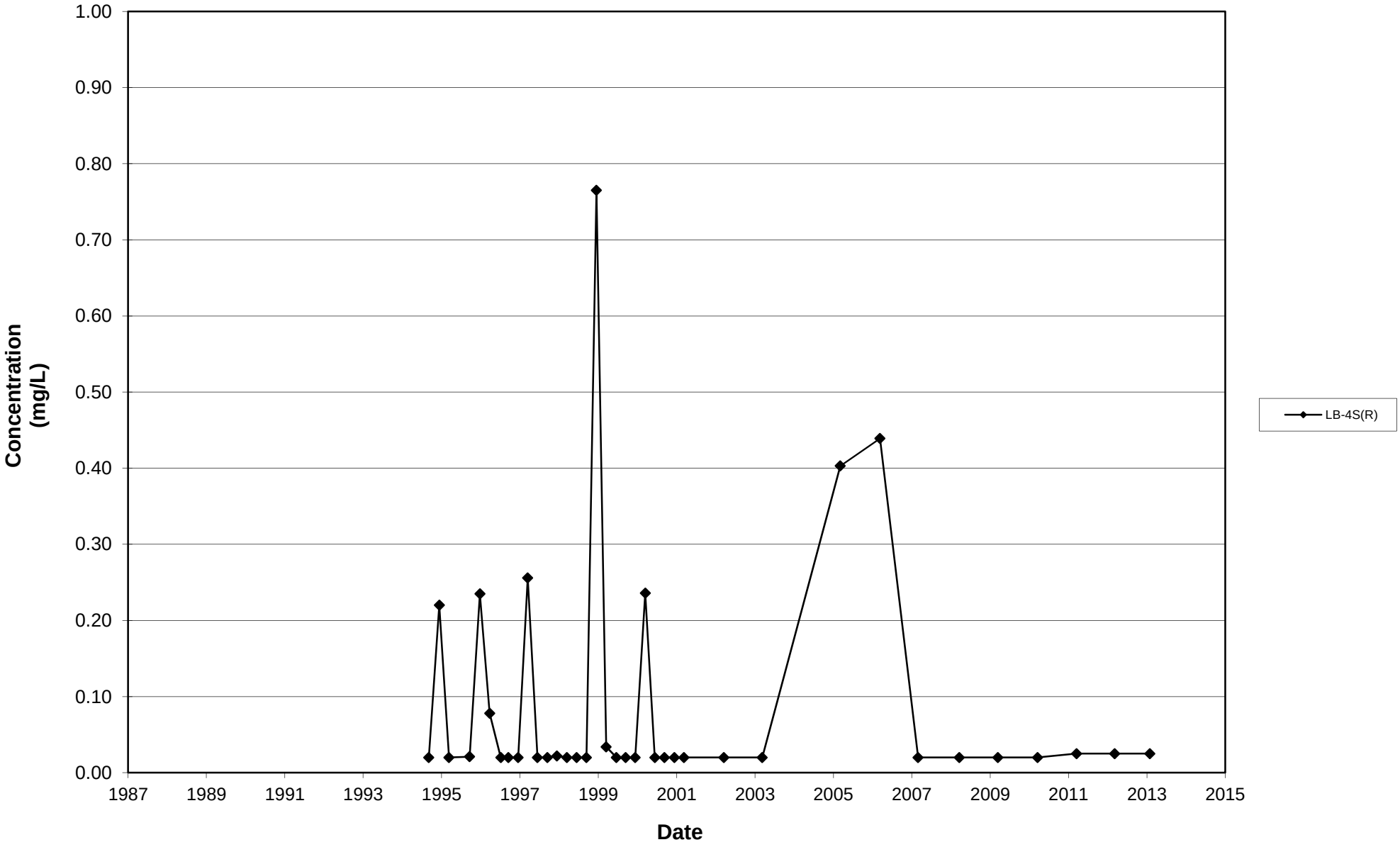
Leichner Landfill
Dissolved Iron, LB-03S
1987 - 2013



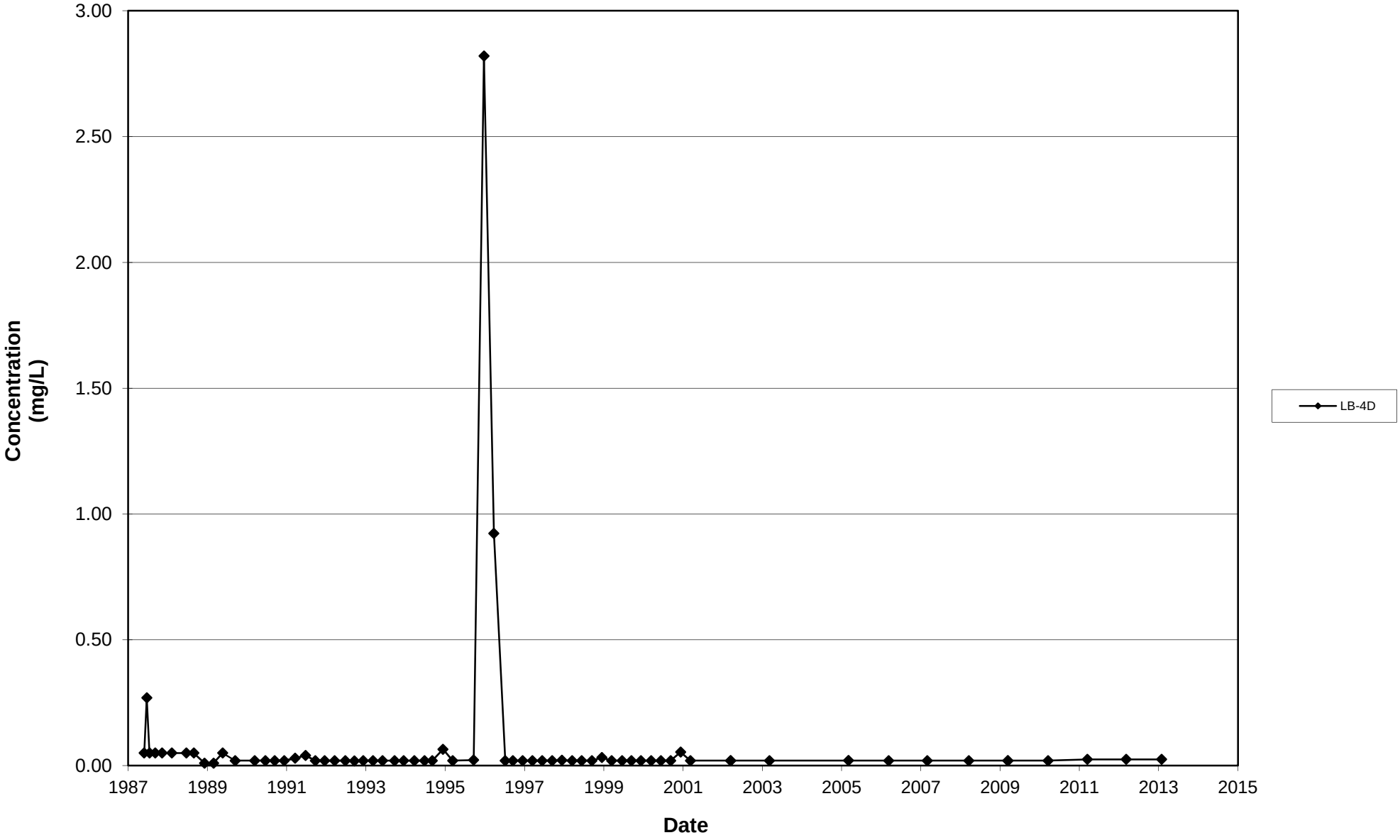
Leichner Landfill
Dissolved Iron, LB-03D
1987 - 2013



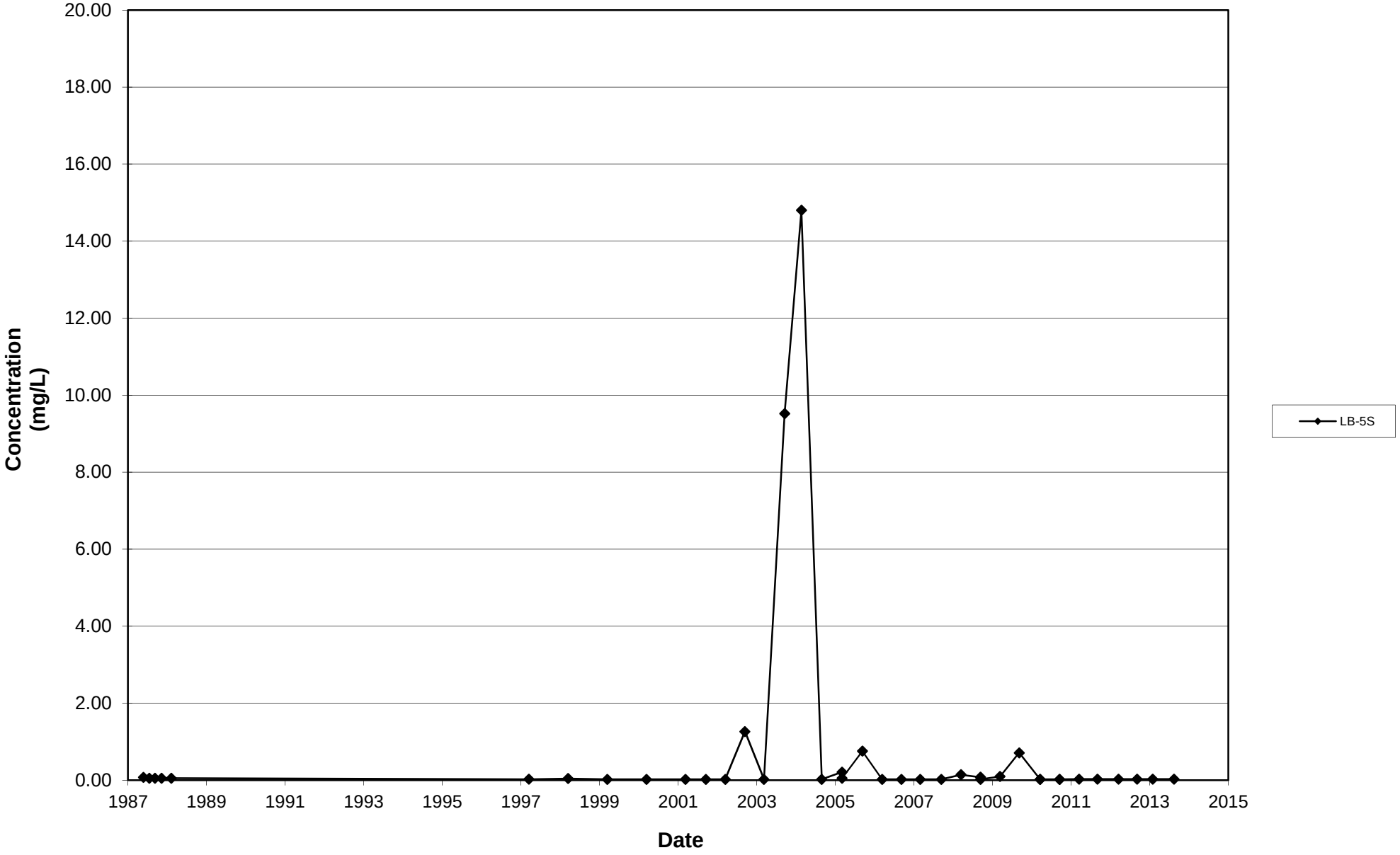
Leichner Landfill
Dissolved Iron, LB-04SR
1987 - 2013



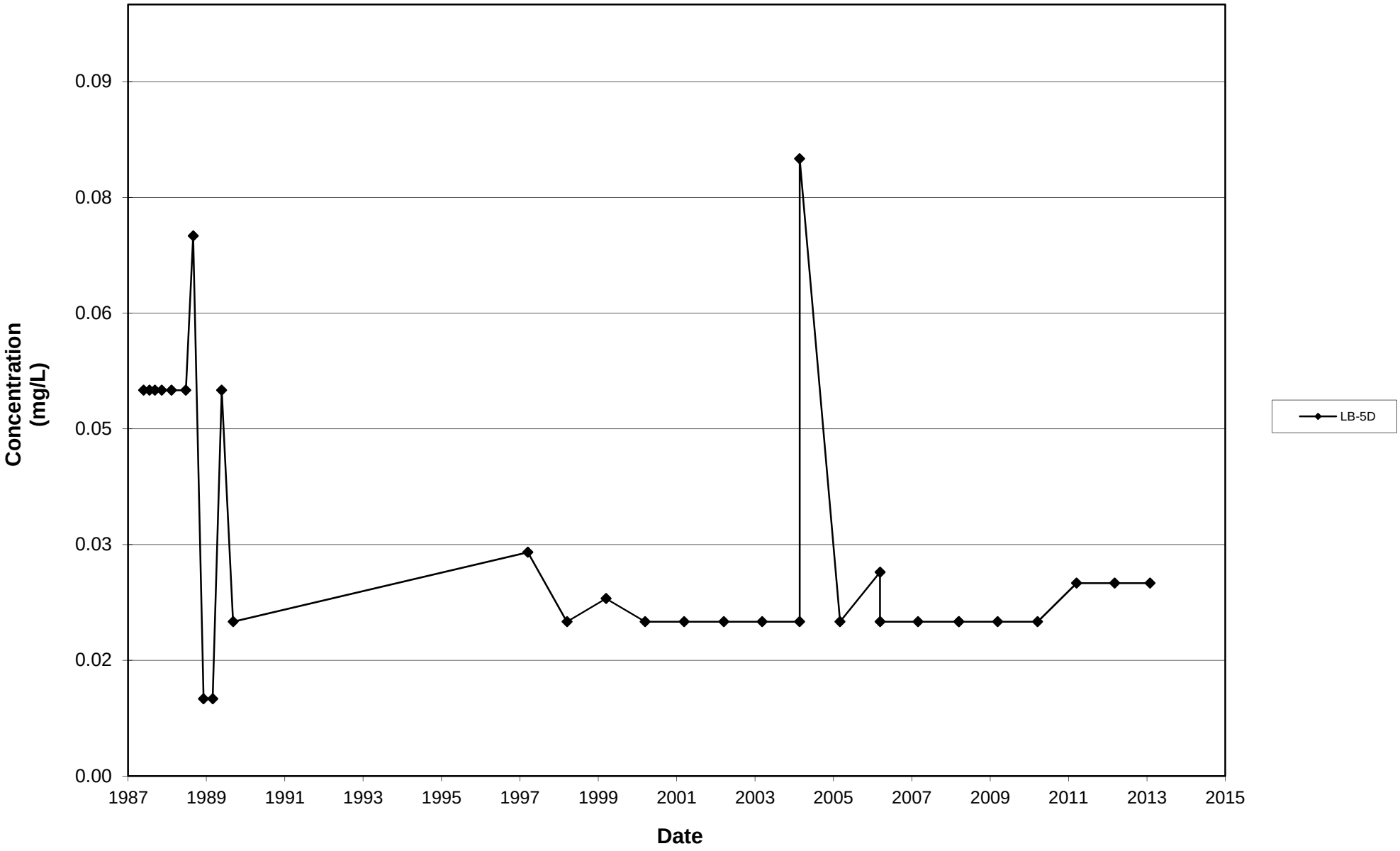
Leichner Landfill
Dissolved Iron, LB-04D
1987 - 2013



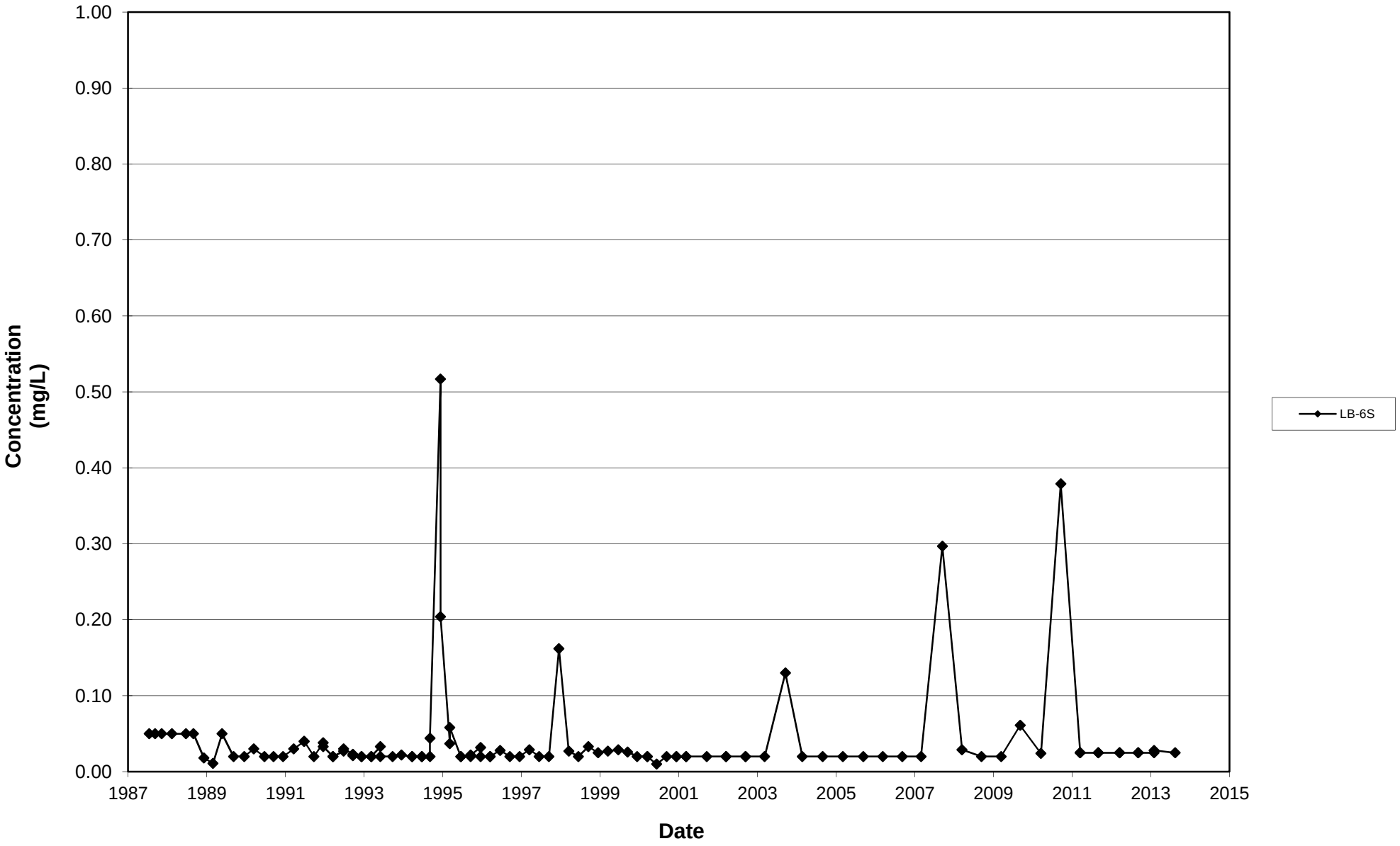
Leichner Landfill
Dissolved Iron, LB-05S
1987 - 2013



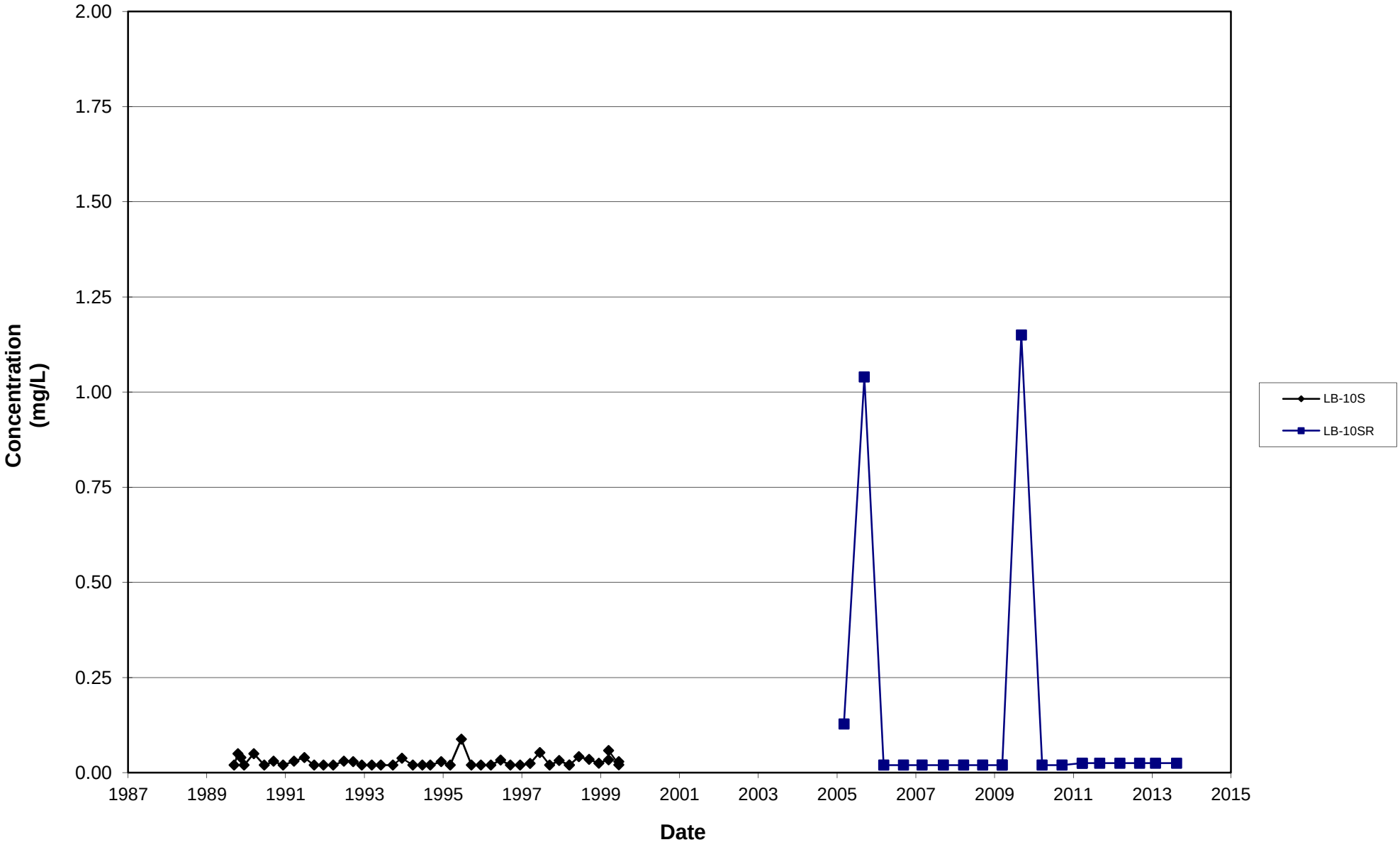
Leichner Landfill
Dissolved Iron, LB-05D
1987 - 2013



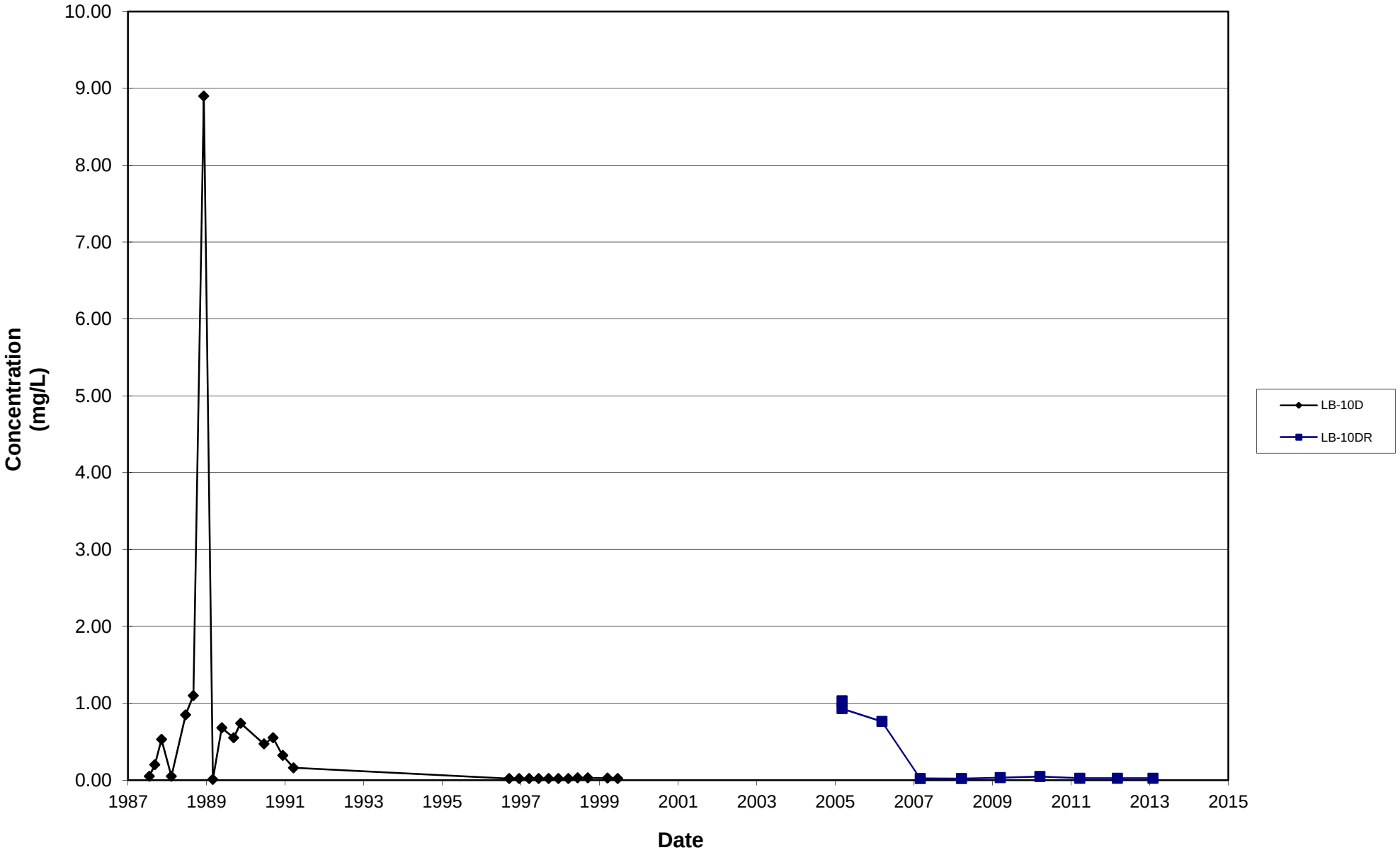
Leichner Landfill
Dissolved Iron, LB-06S
1987 - 2013



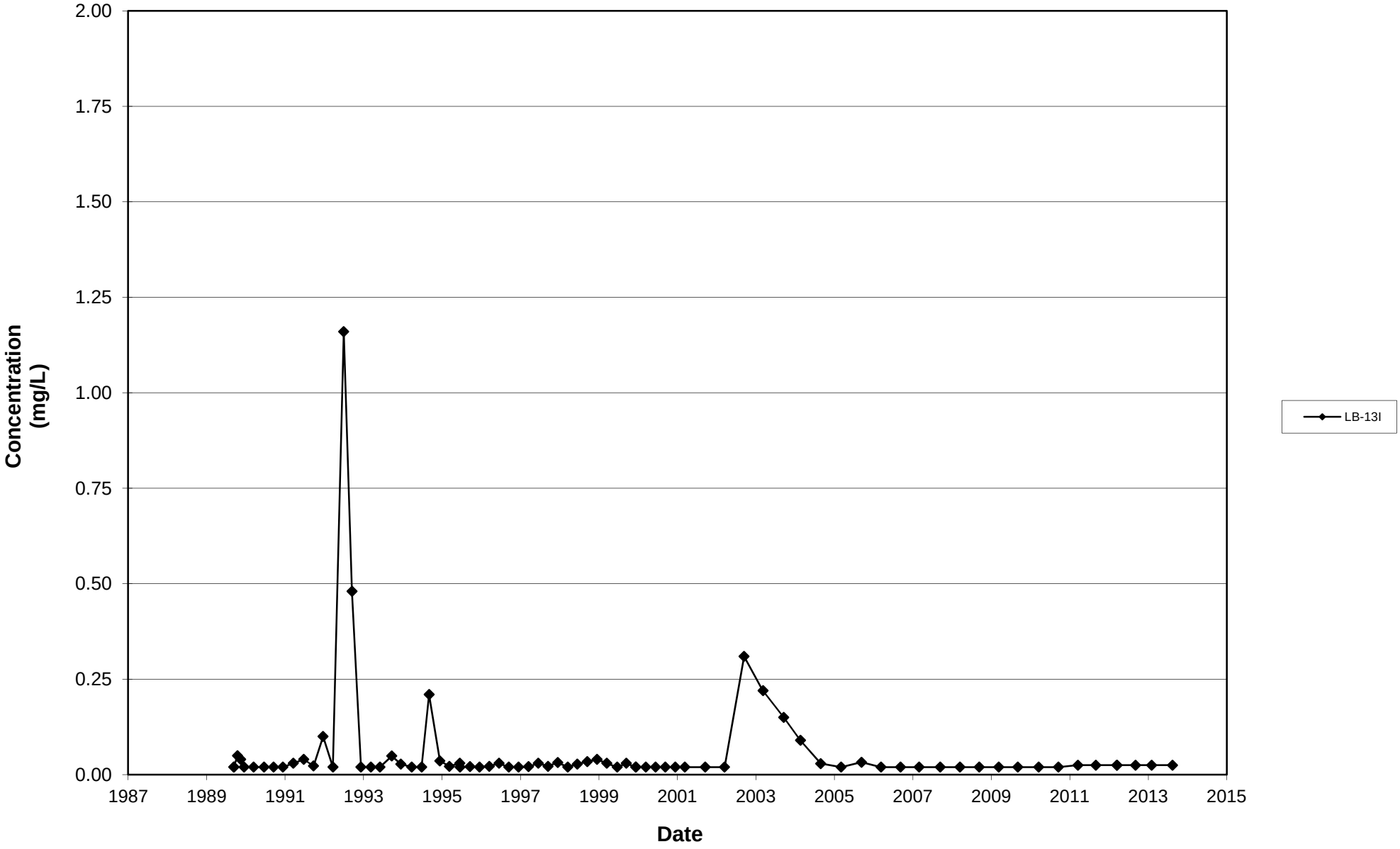
Leichner Landfill
Dissolved Iron, LB-10S and LB-10SR
1987 - 2013



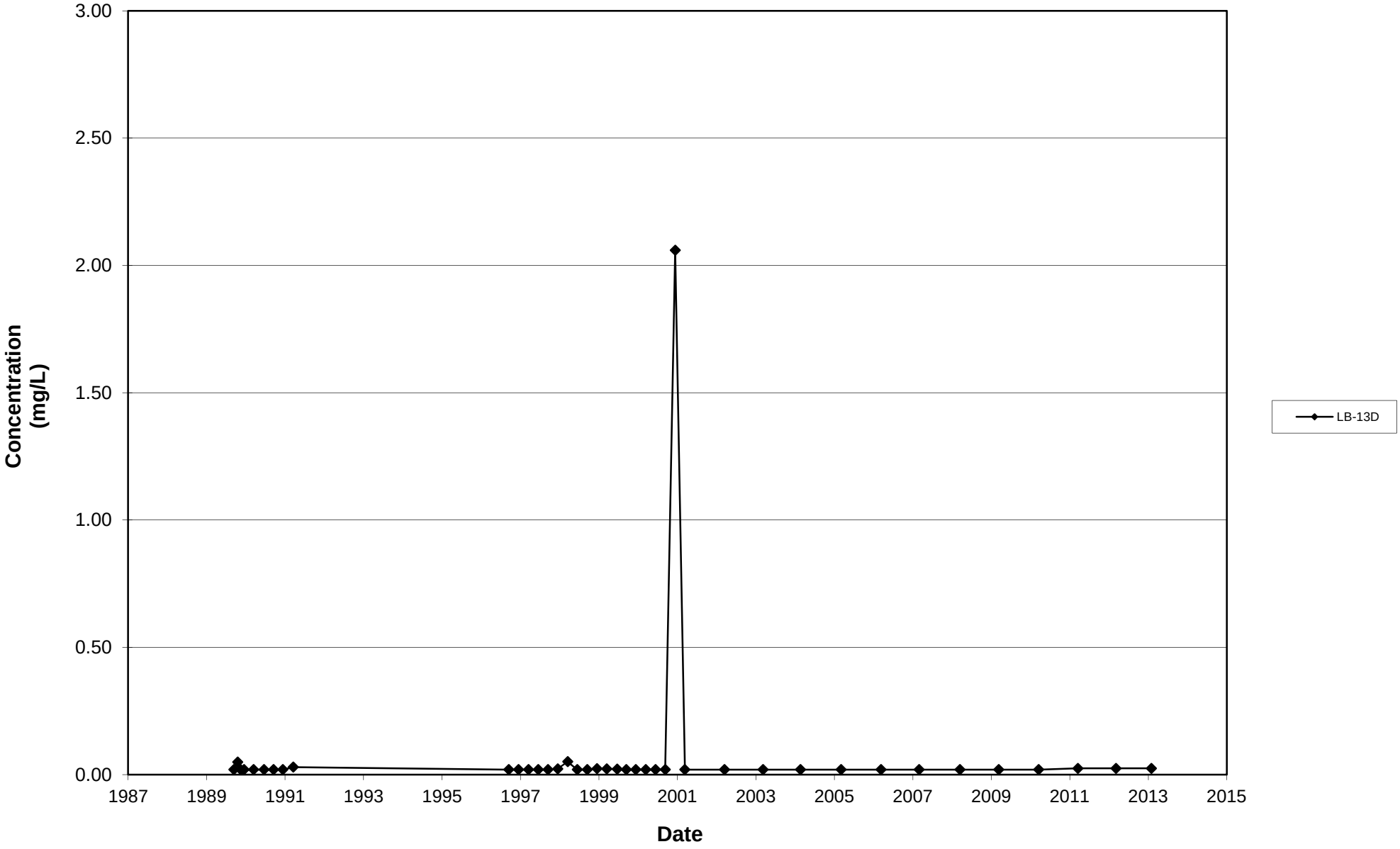
Leichner Landfill
Dissolved Iron, LB-10D and LB-10DR
1987 - 2013



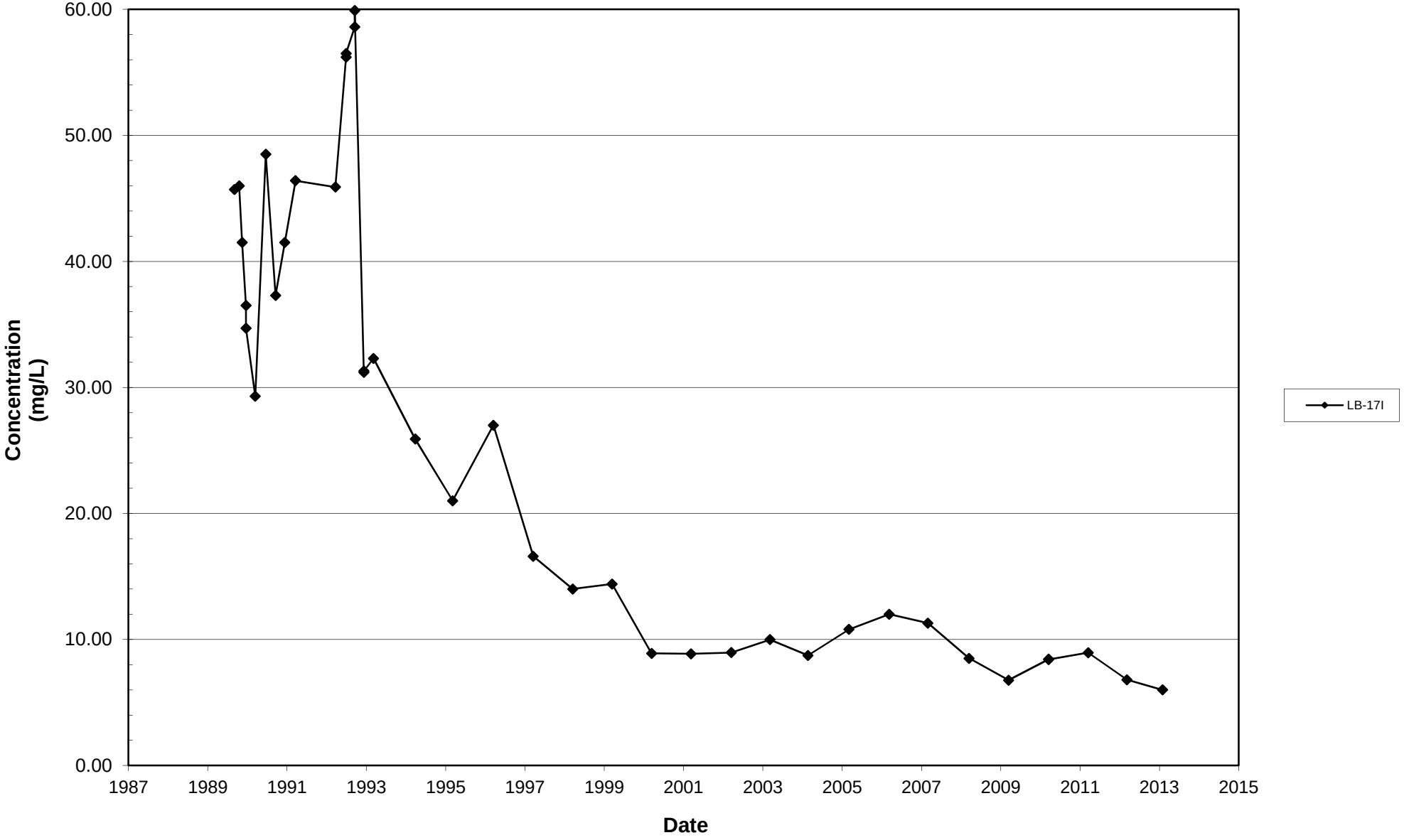
Leichner Landfill
Dissolved Iron, LB-13I
1987 - 2013



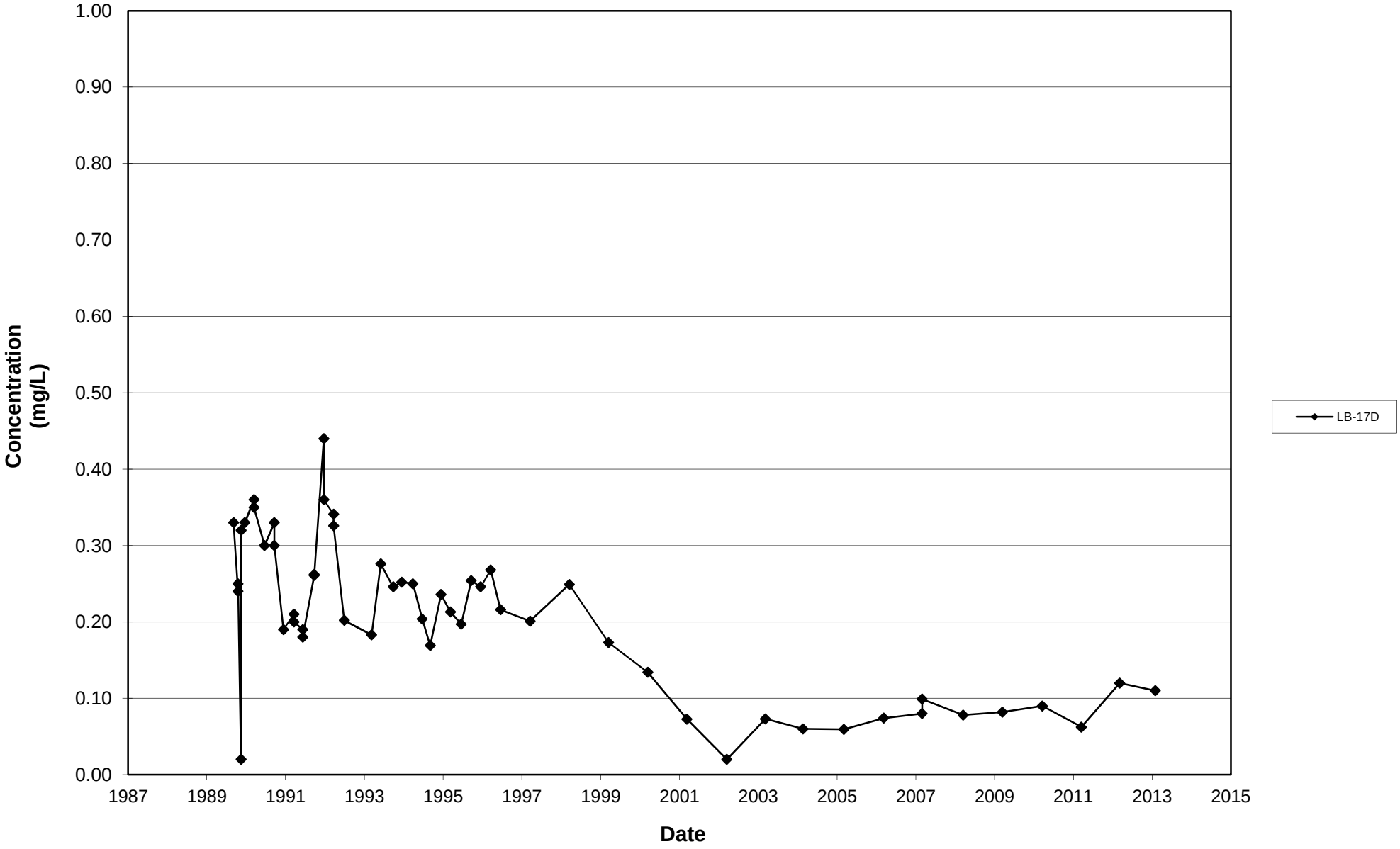
Leichner Landfill
Dissolved Iron, LB-13D
1987 - 2013



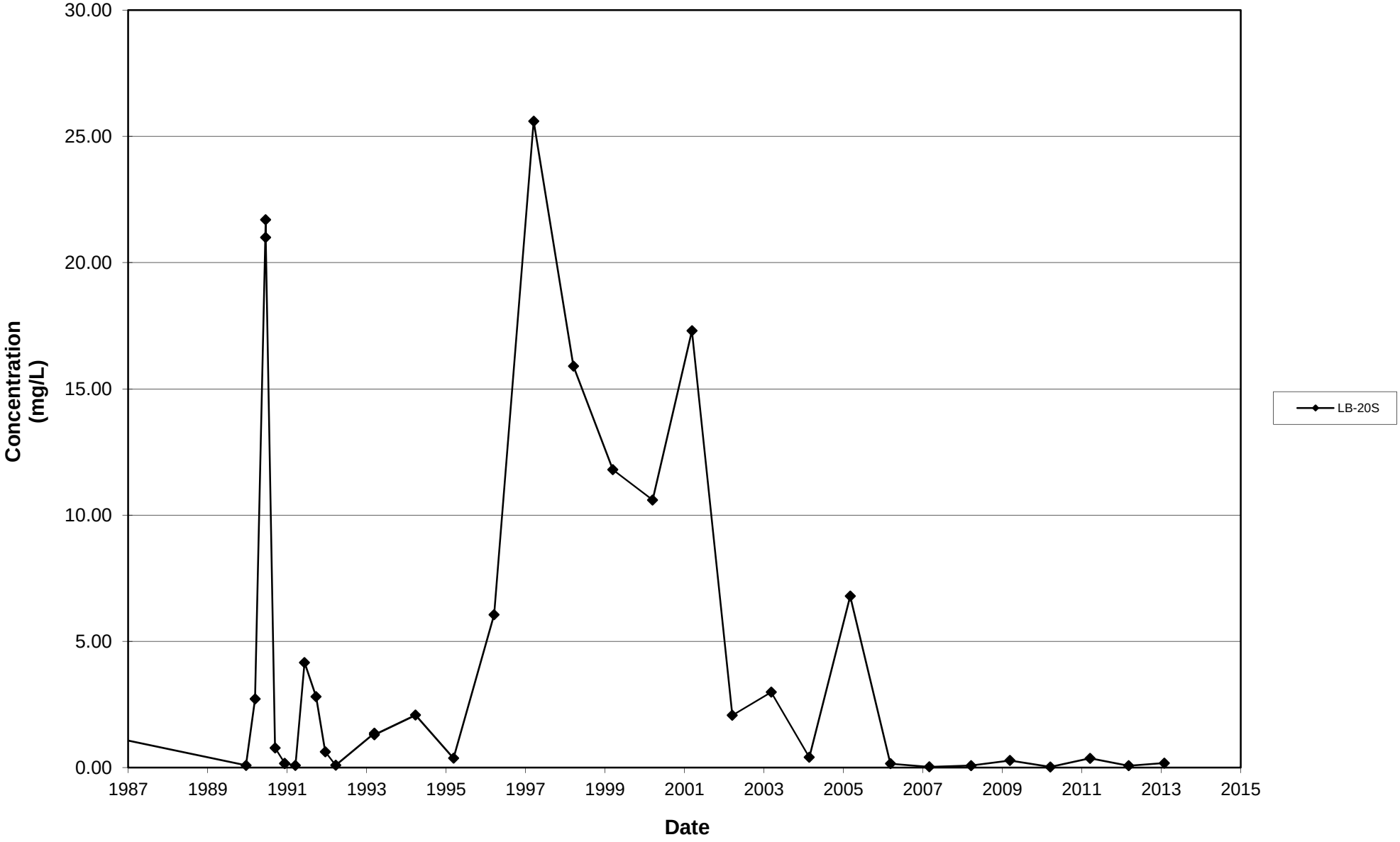
Leichner Landfill
Dissolved Iron, LB-17I
1987 - 2013



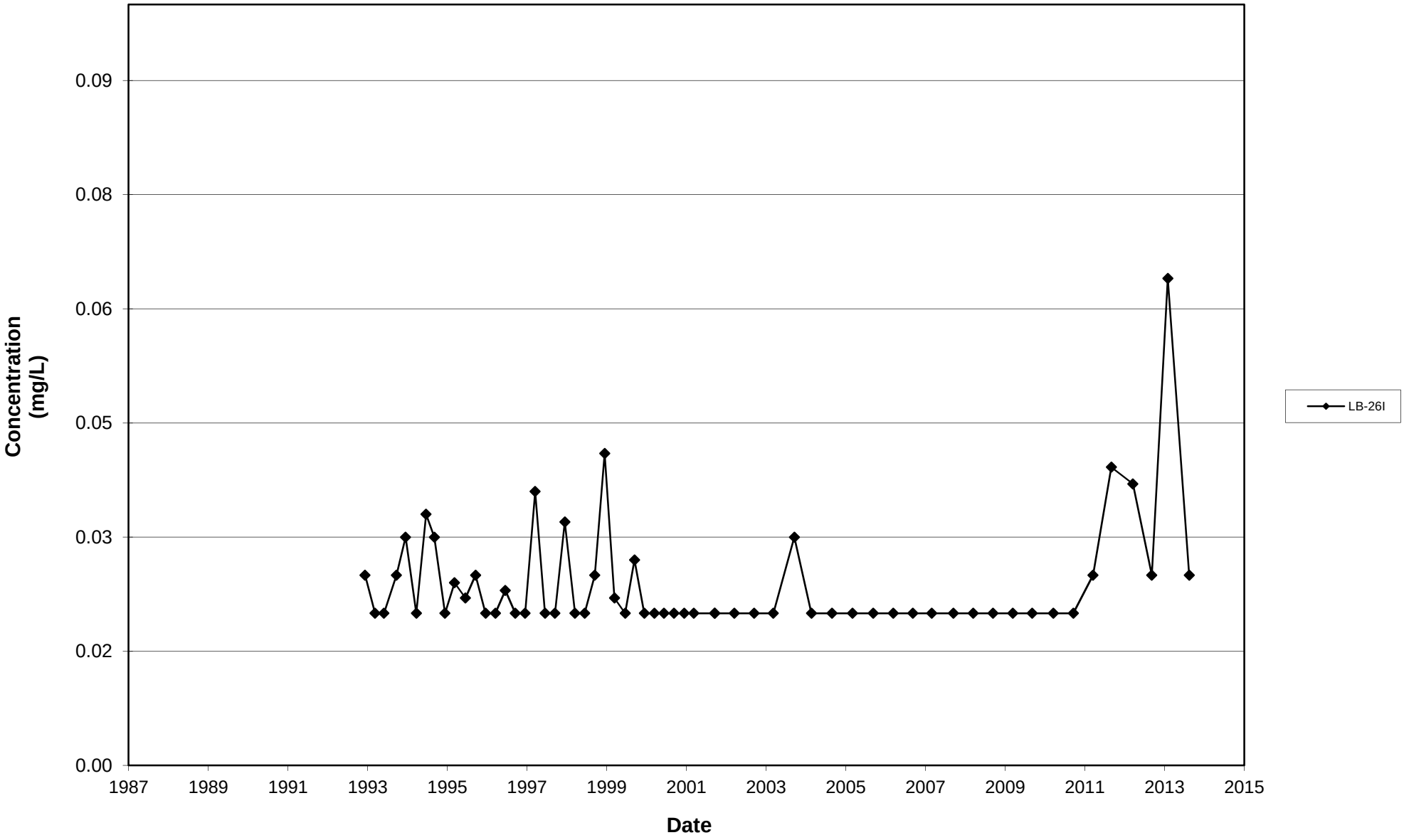
Leichner Landfill
Dissolved Iron, LB-17D
1987 - 2013



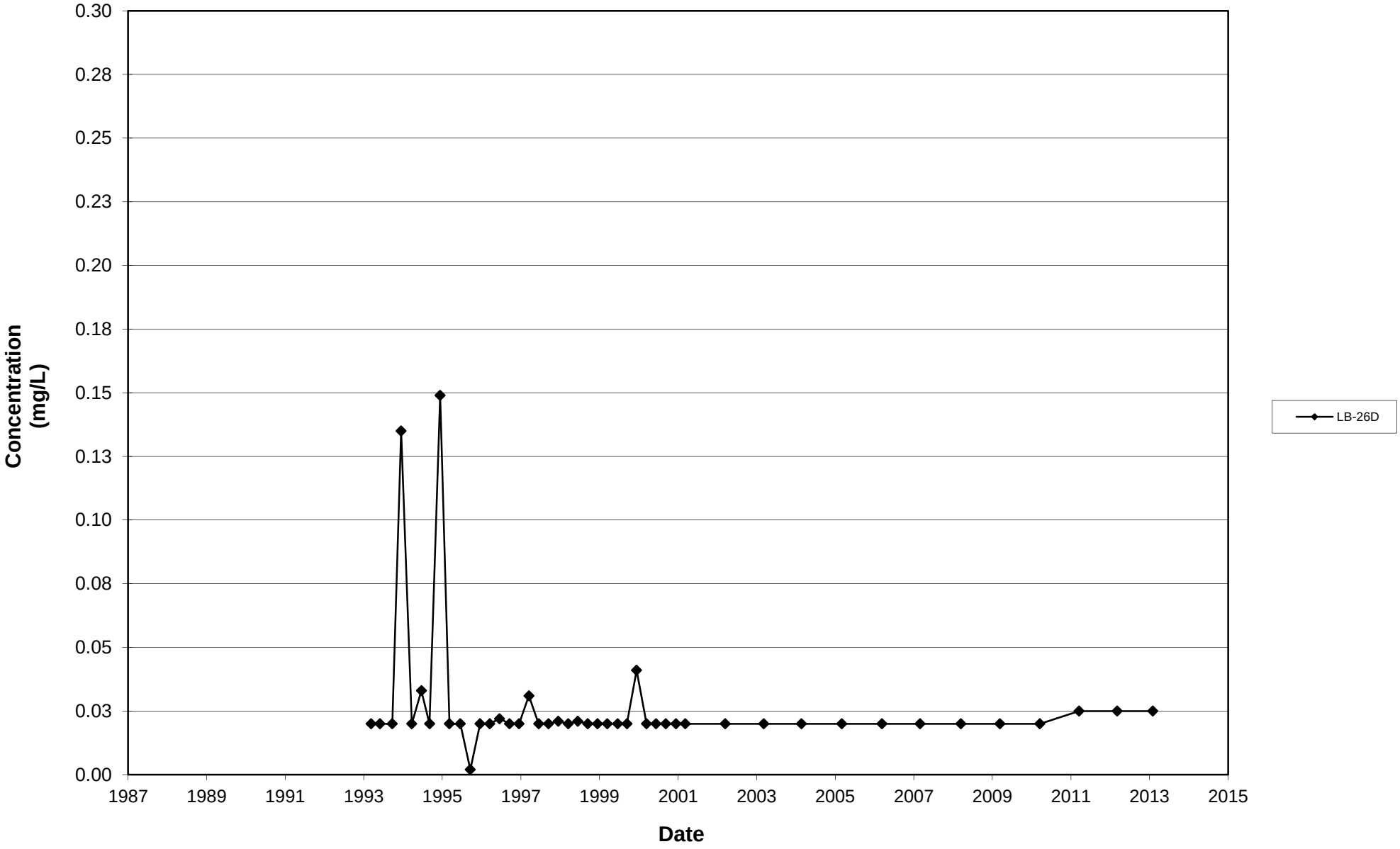
Leichner Landfill
Dissolved Iron, LB-20S
1987 - 2013



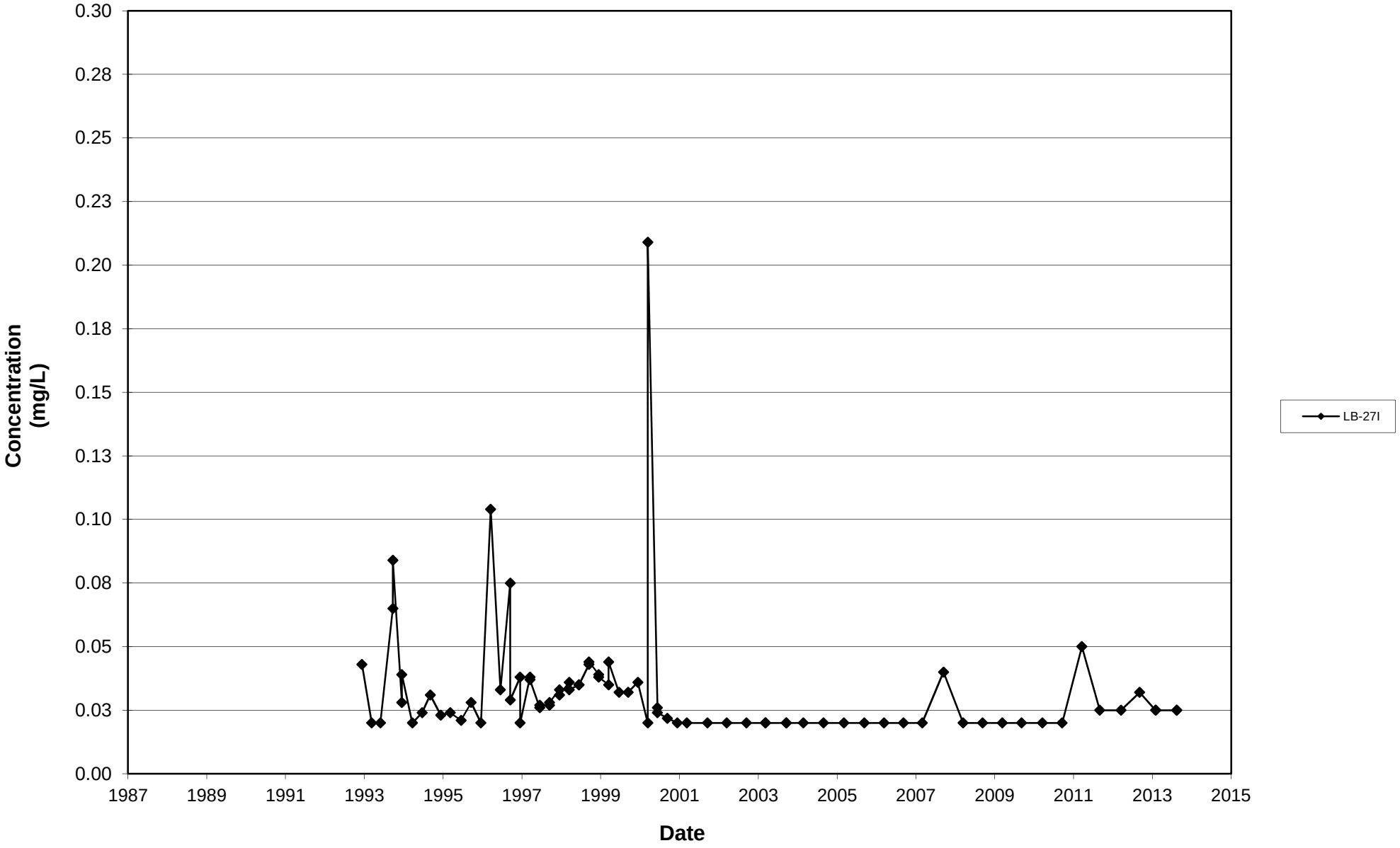
Leichner Landfill
Dissolved Iron, LB-26I
1987 - 2013



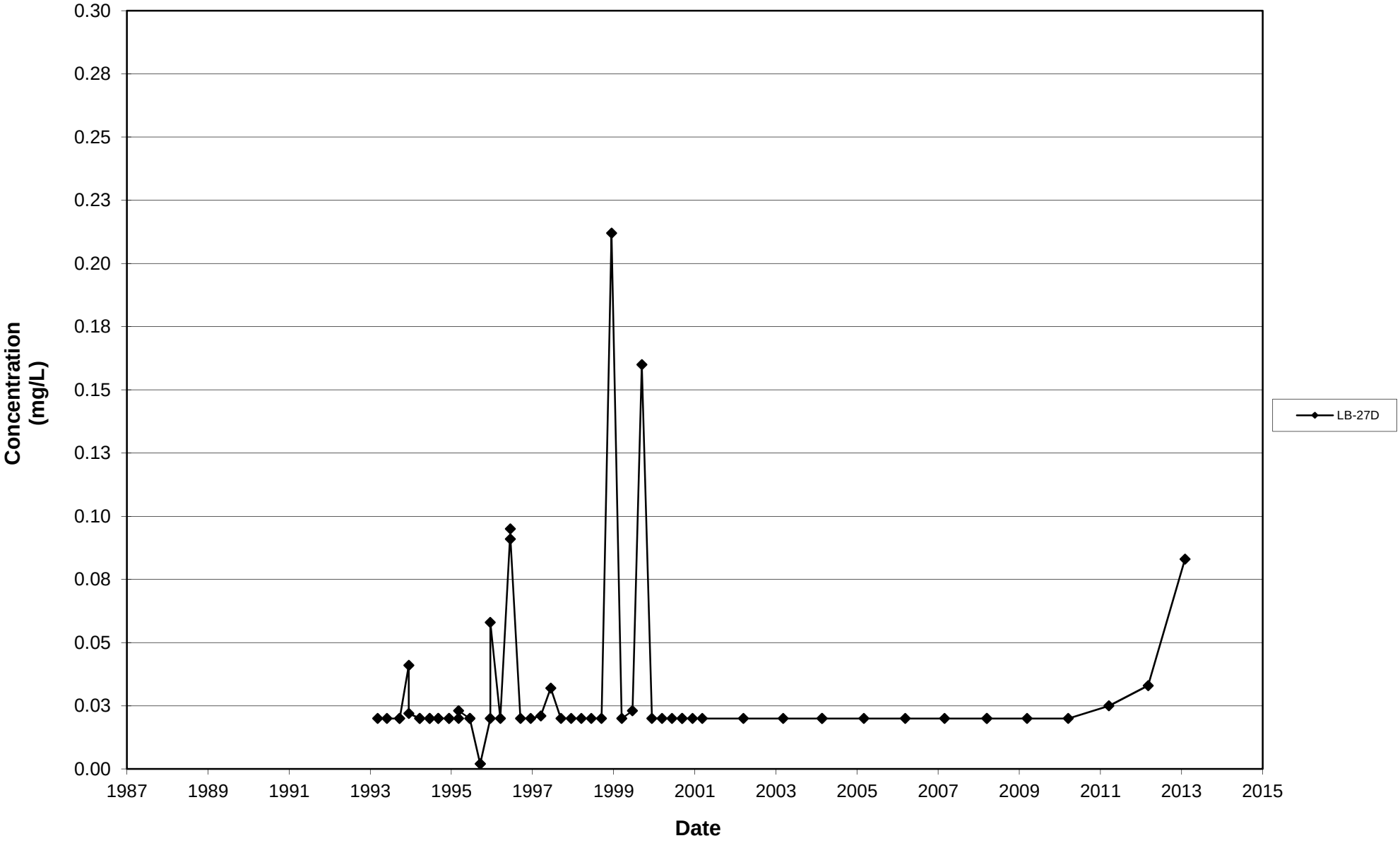
Leichner Landfill
Dissolved Iron, LB-26D
1987 - 2013



Leichner Landfill
Dissolved Iron, LB-27I
1987 - 2013

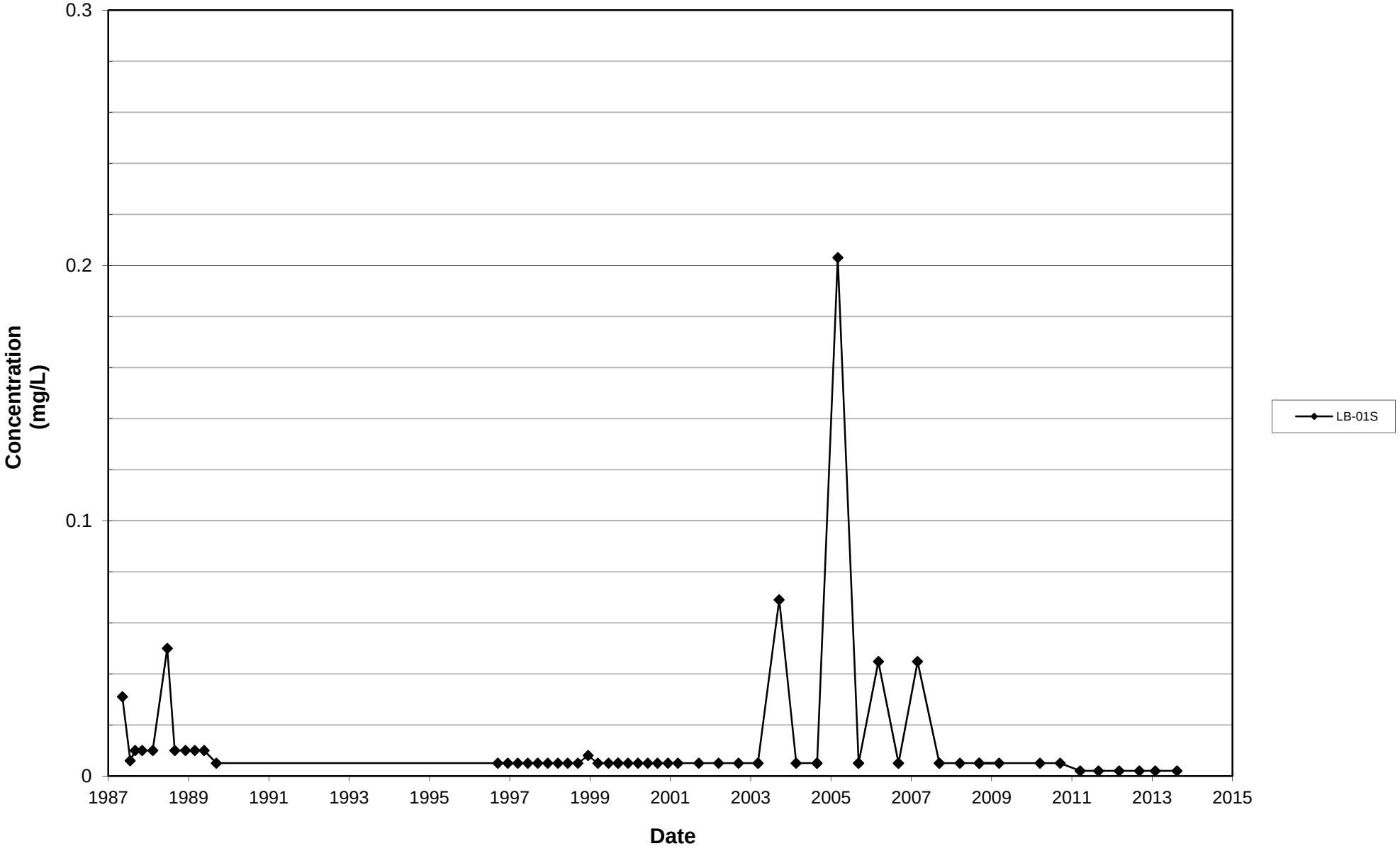


Leichner Landfill
Dissolved Iron, LB-27D
1987 - 2013

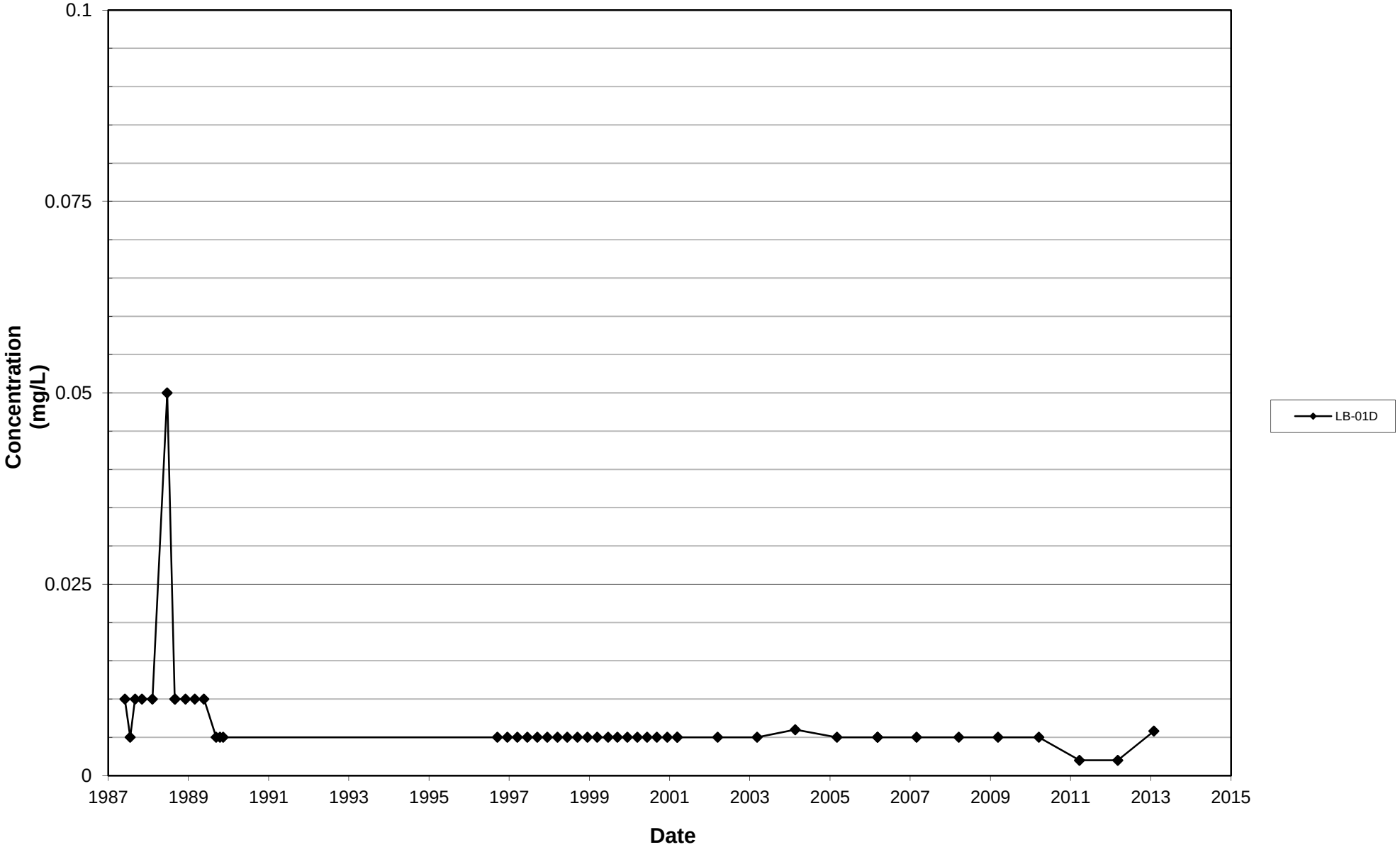


Dissolved Manganese

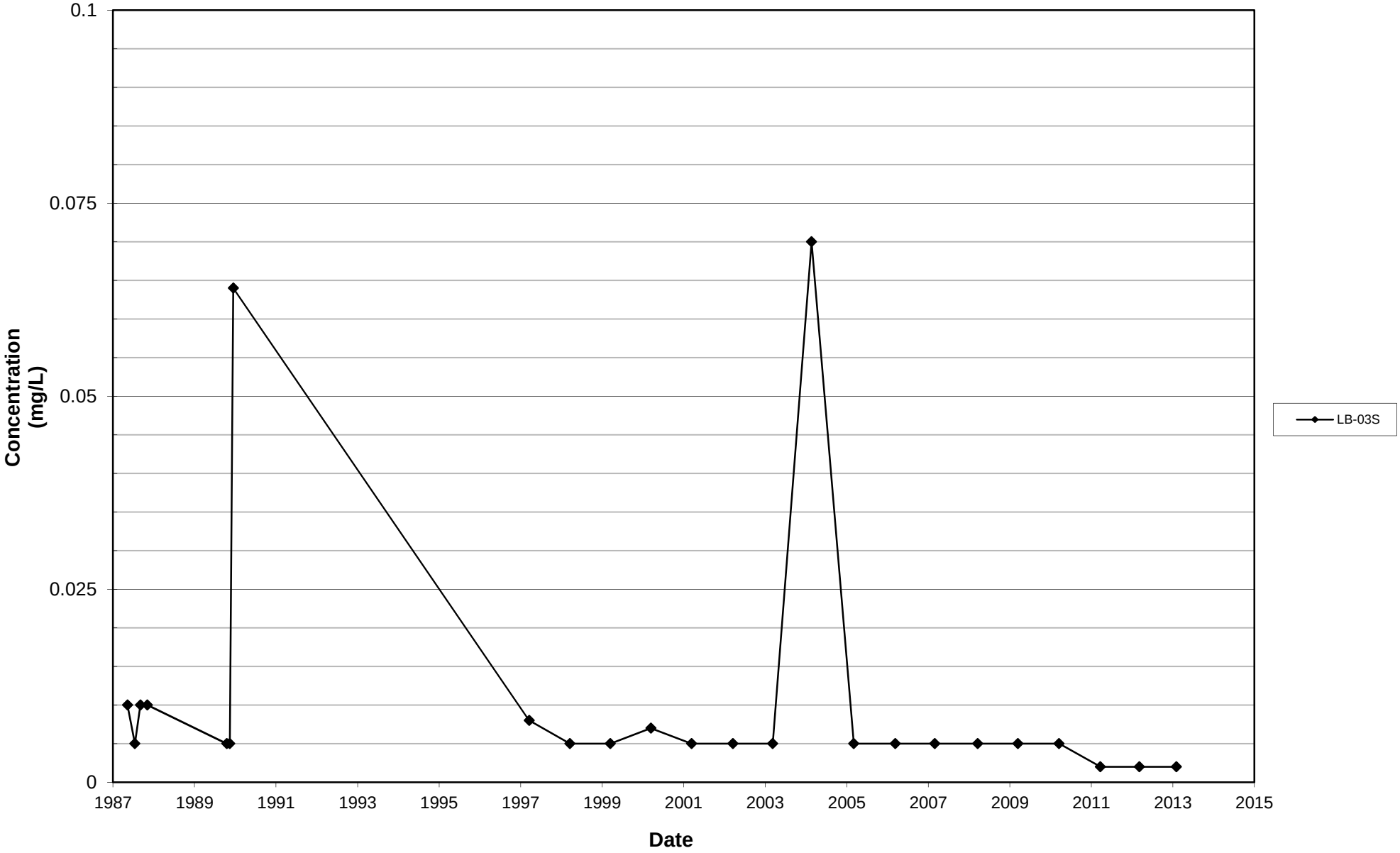
Leichner Landfill
Dissolved Manganese, LB-01S
1987 - 2013



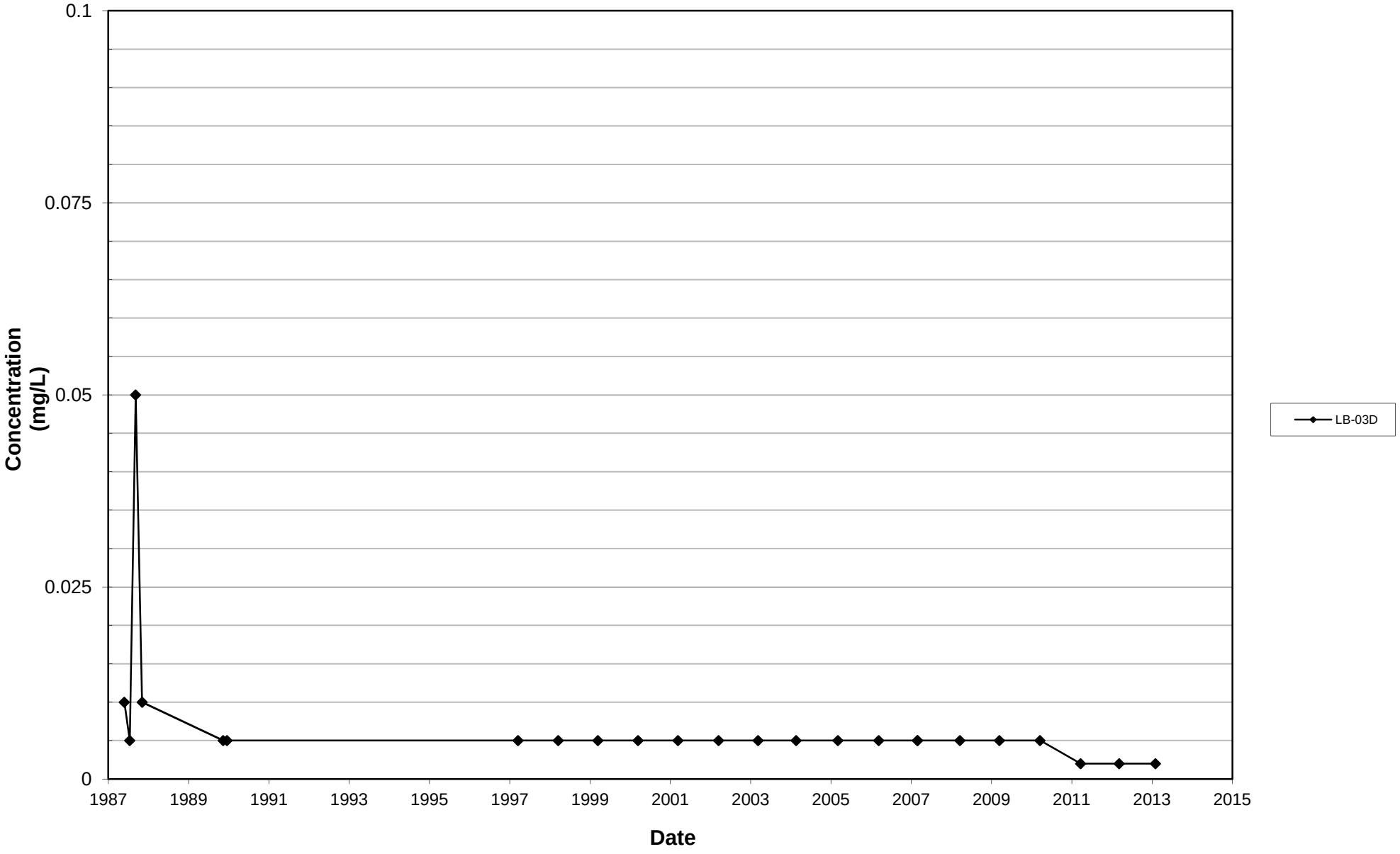
Leichner Landfill
Dissolved Manganese, LB-01D
1987 - 2013



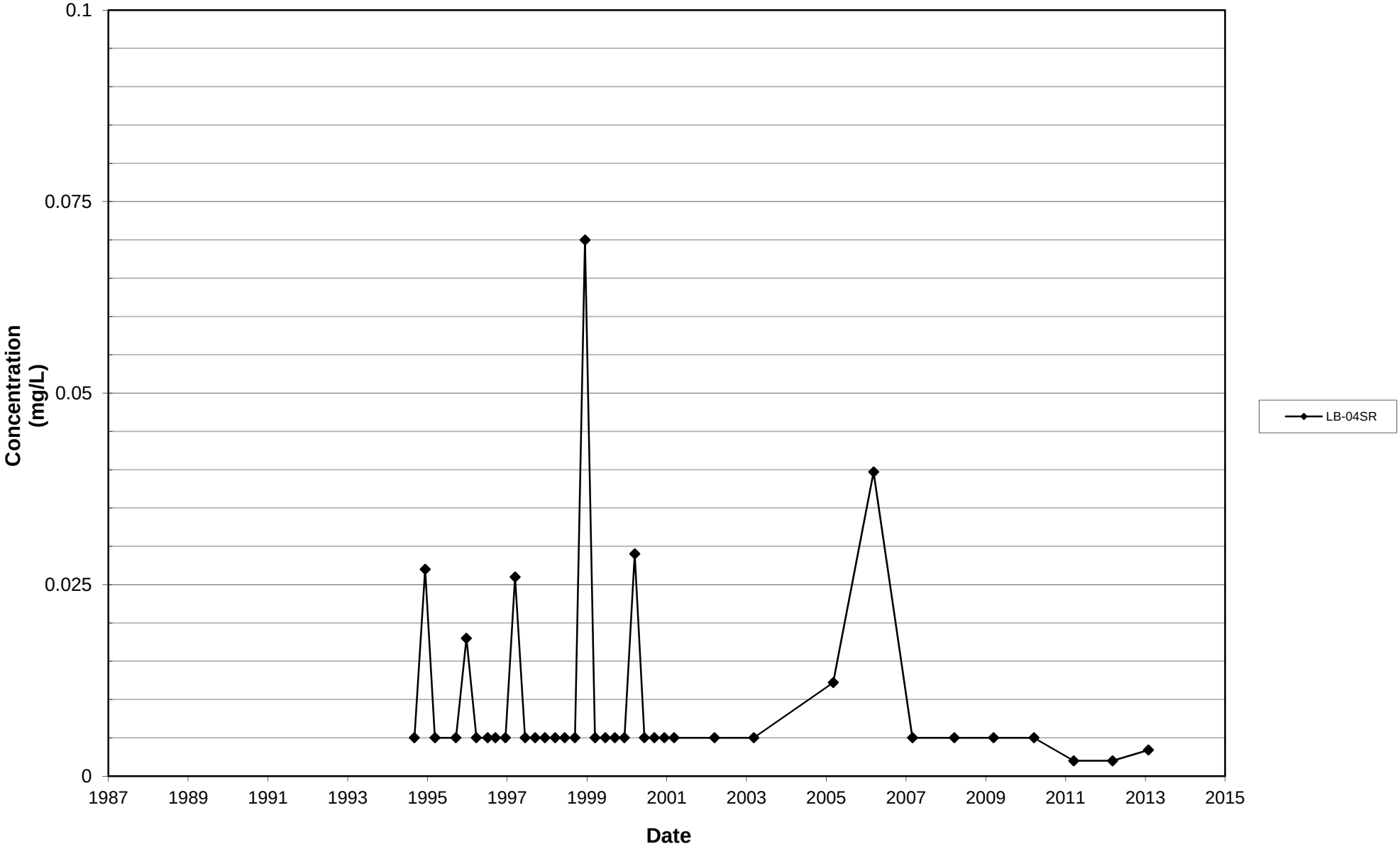
Leichner Landfill
Dissolved Manganese, LB-03S
1987 - 2013



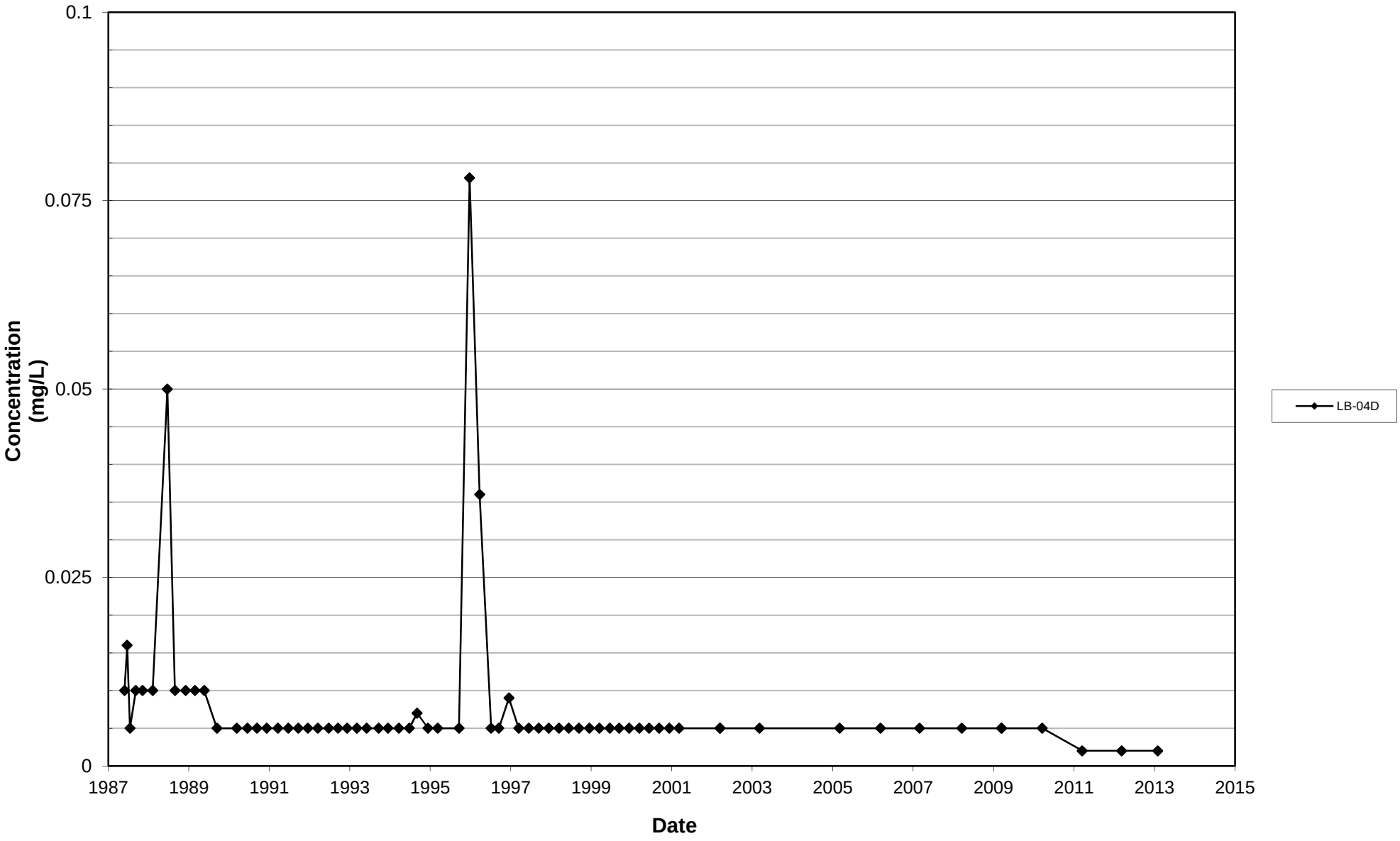
Leichner Landfill
Dissolved Manganese, LB-03D
1987 - 2013



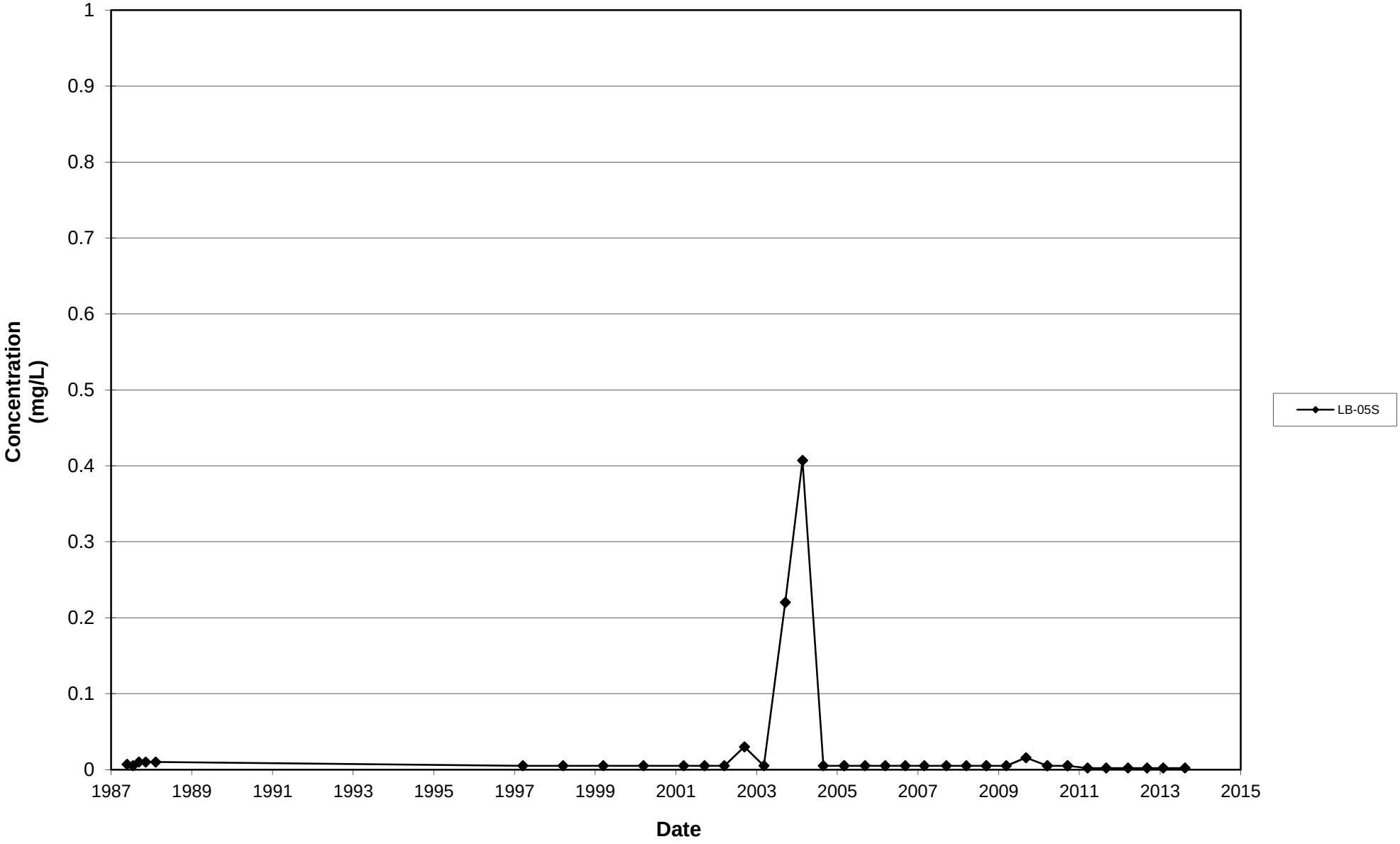
Leichner Landfill
Dissolved Manganese, LB-04SR
1987 - 2013



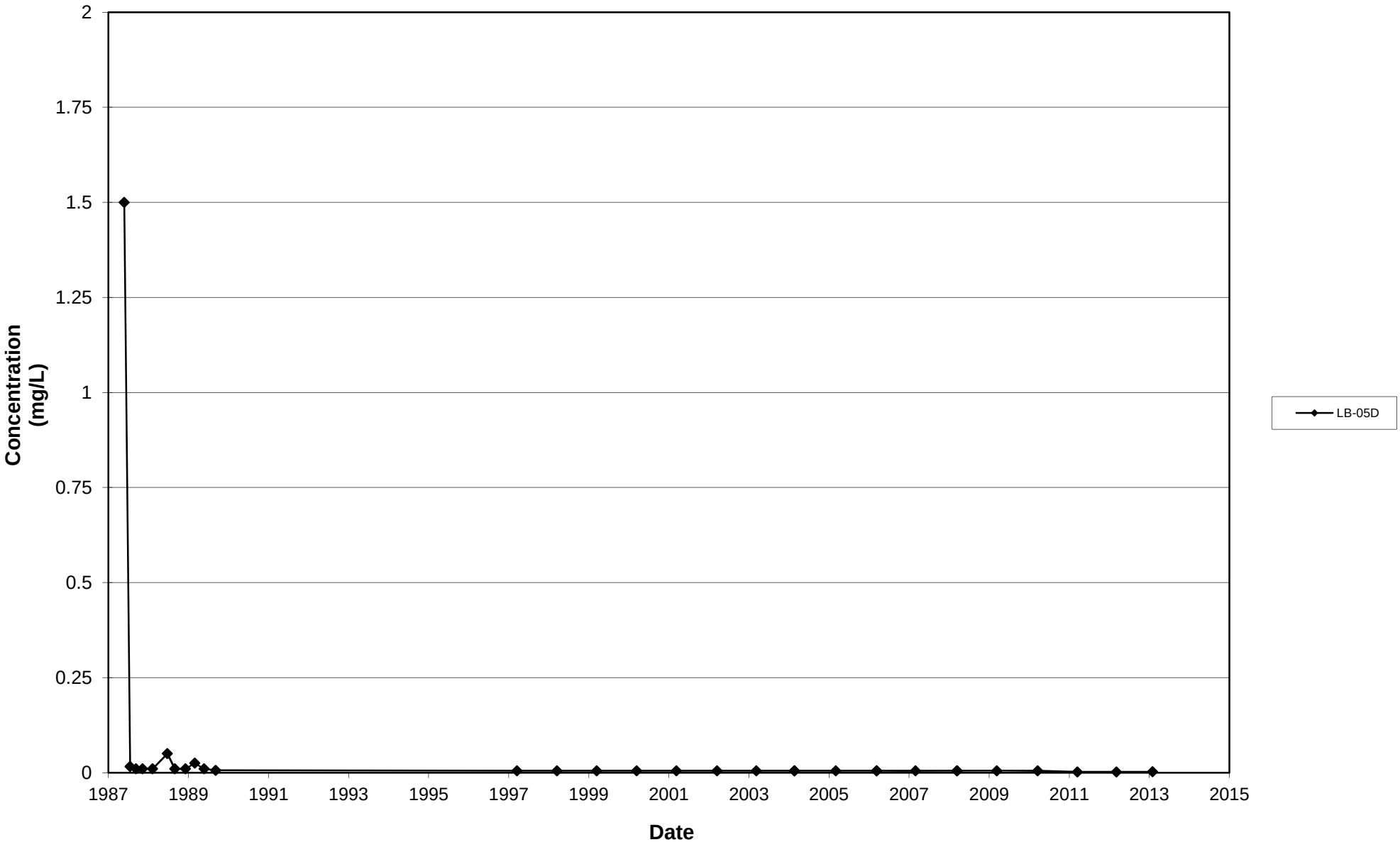
Leichner Landfill
Dissolved Manganese, LB-04D
1987 - 2013



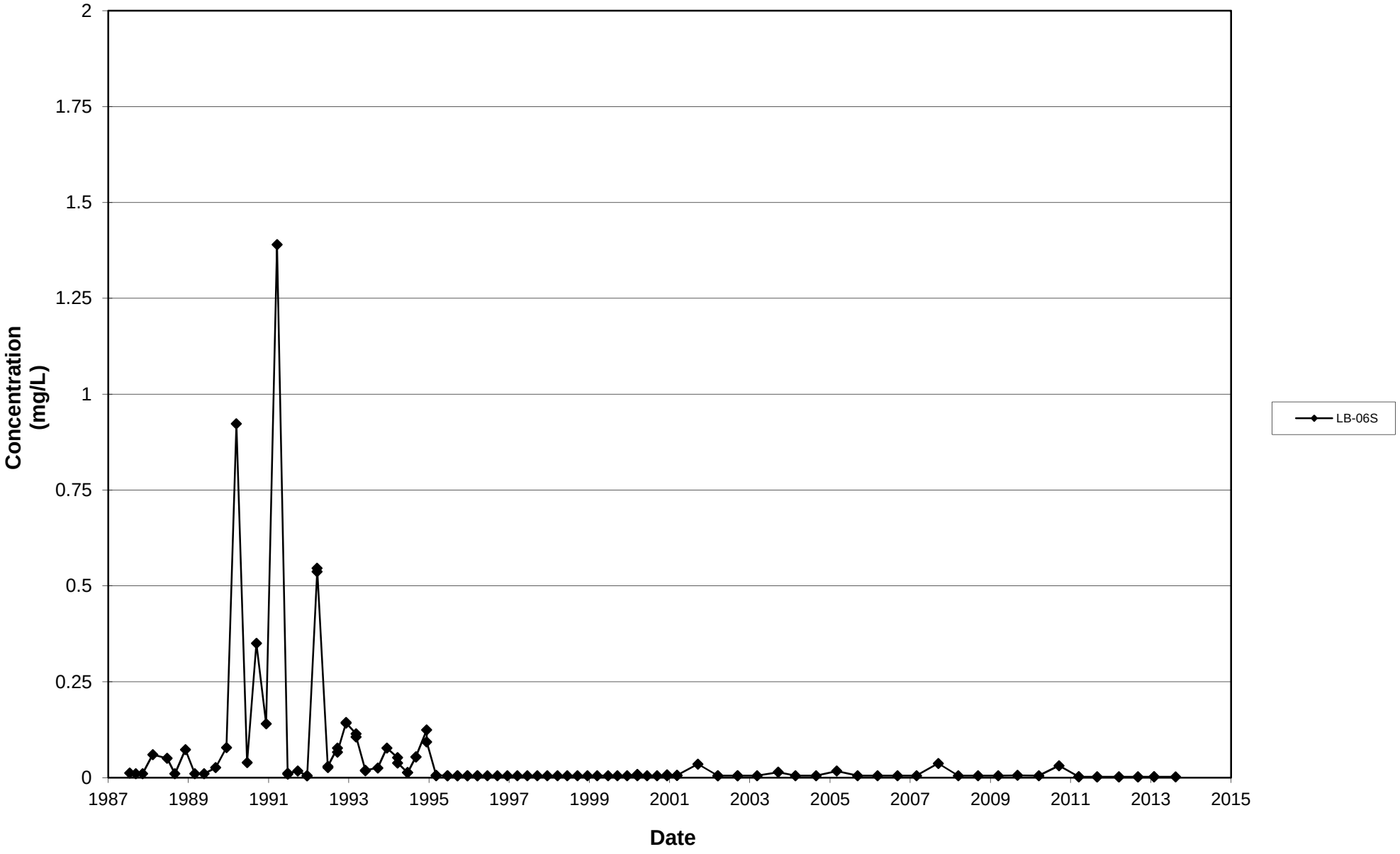
Leichner Landfill
Dissolved Manganese, LB-05S
1987 - 2013



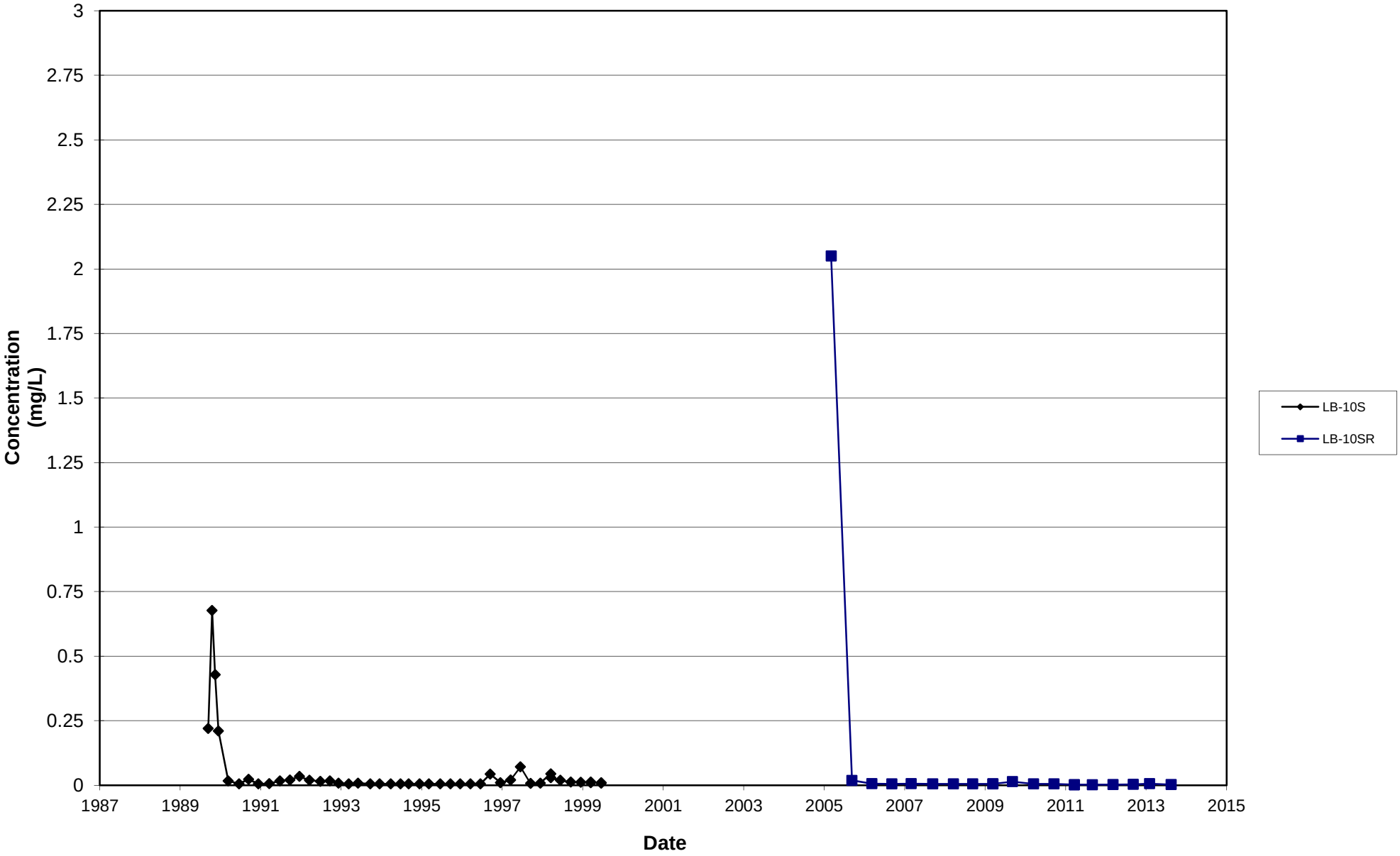
Leichner Landfill
Dissolved Manganese, LB-05D
1987 - 2013



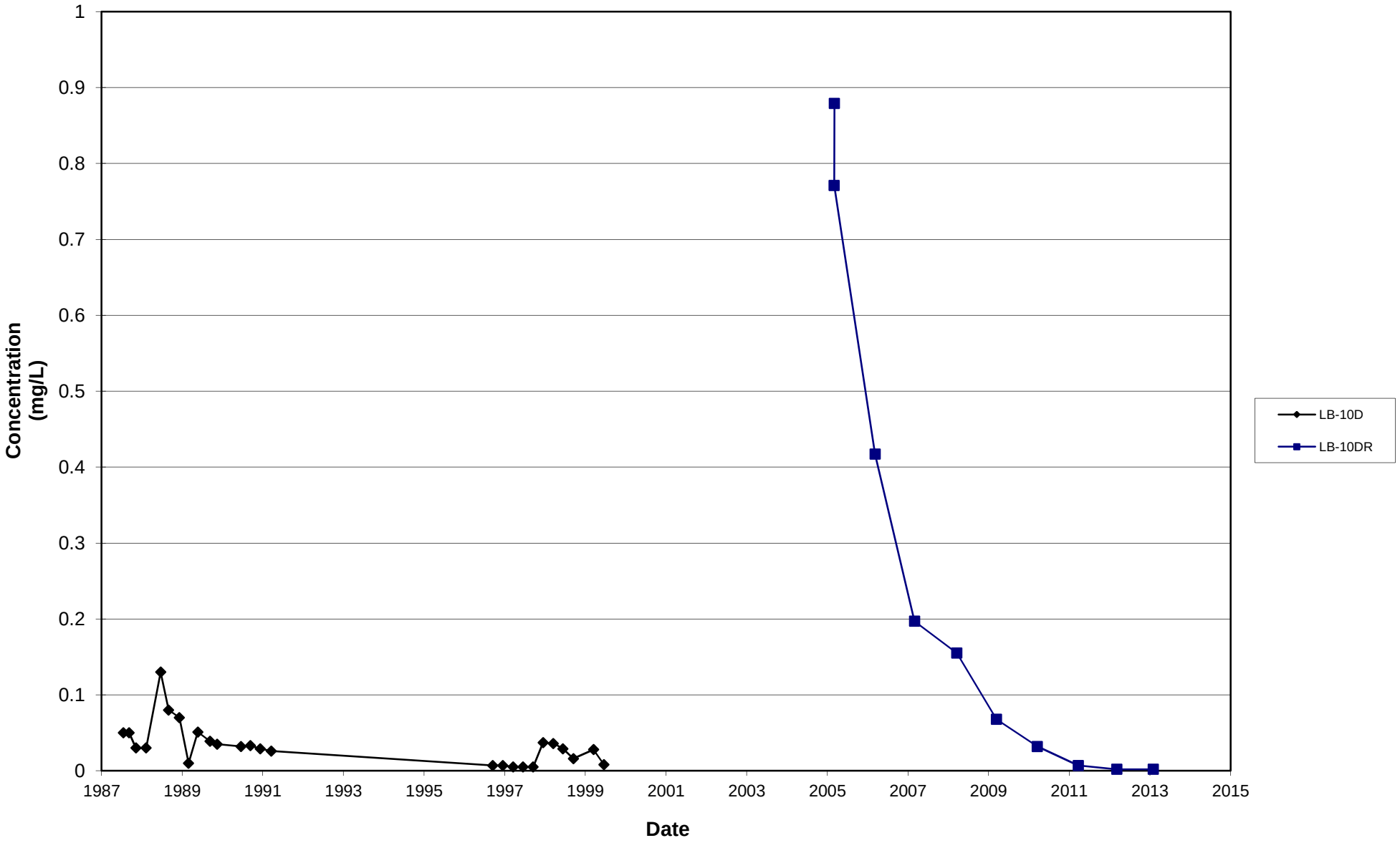
Leichner Landfill
Dissolved Manganese, LB-06S
1987 - 2013



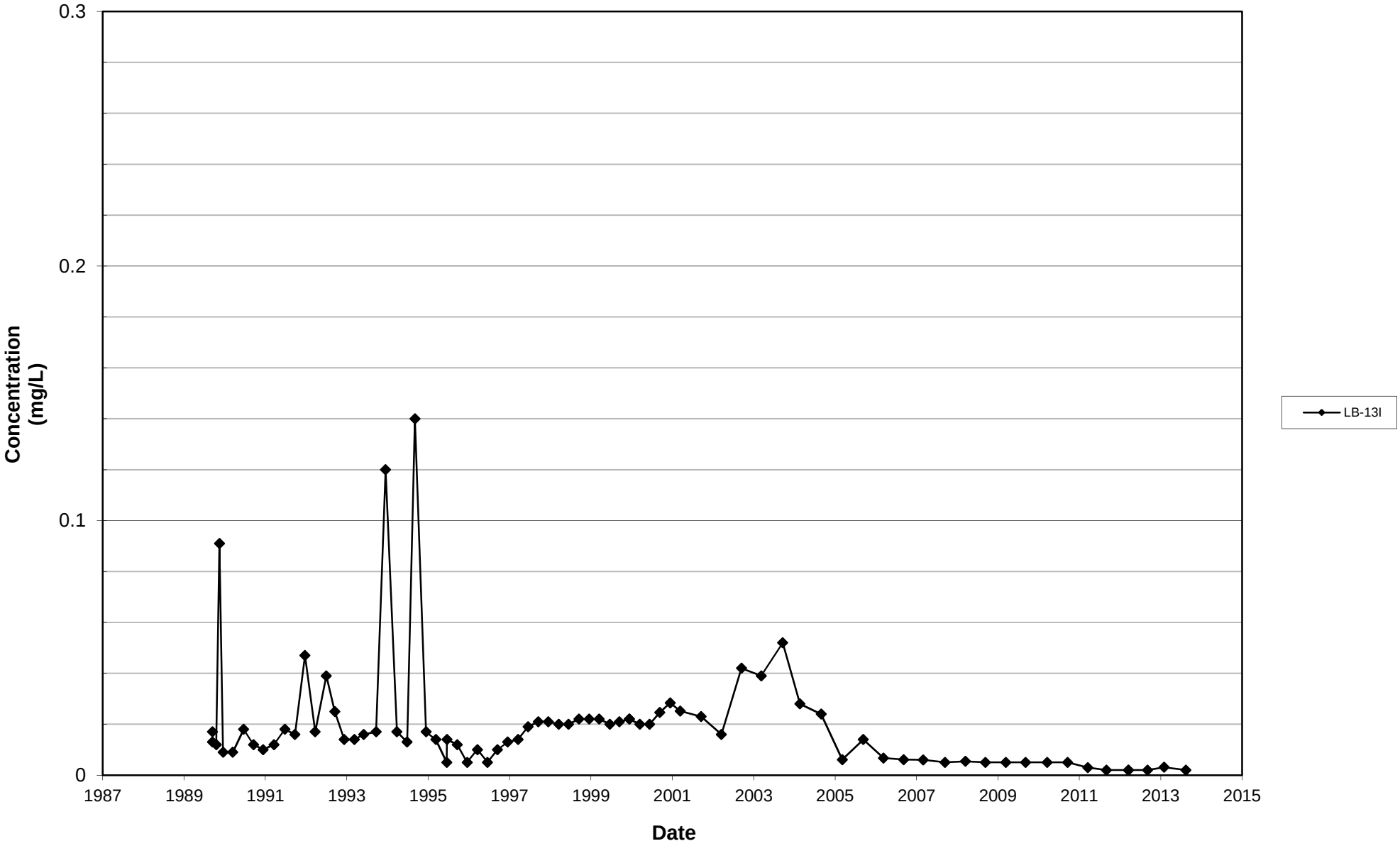
Leichner Landfill
Dissolved Manganese, LB-10S and LB-10SR
1987 - 2013



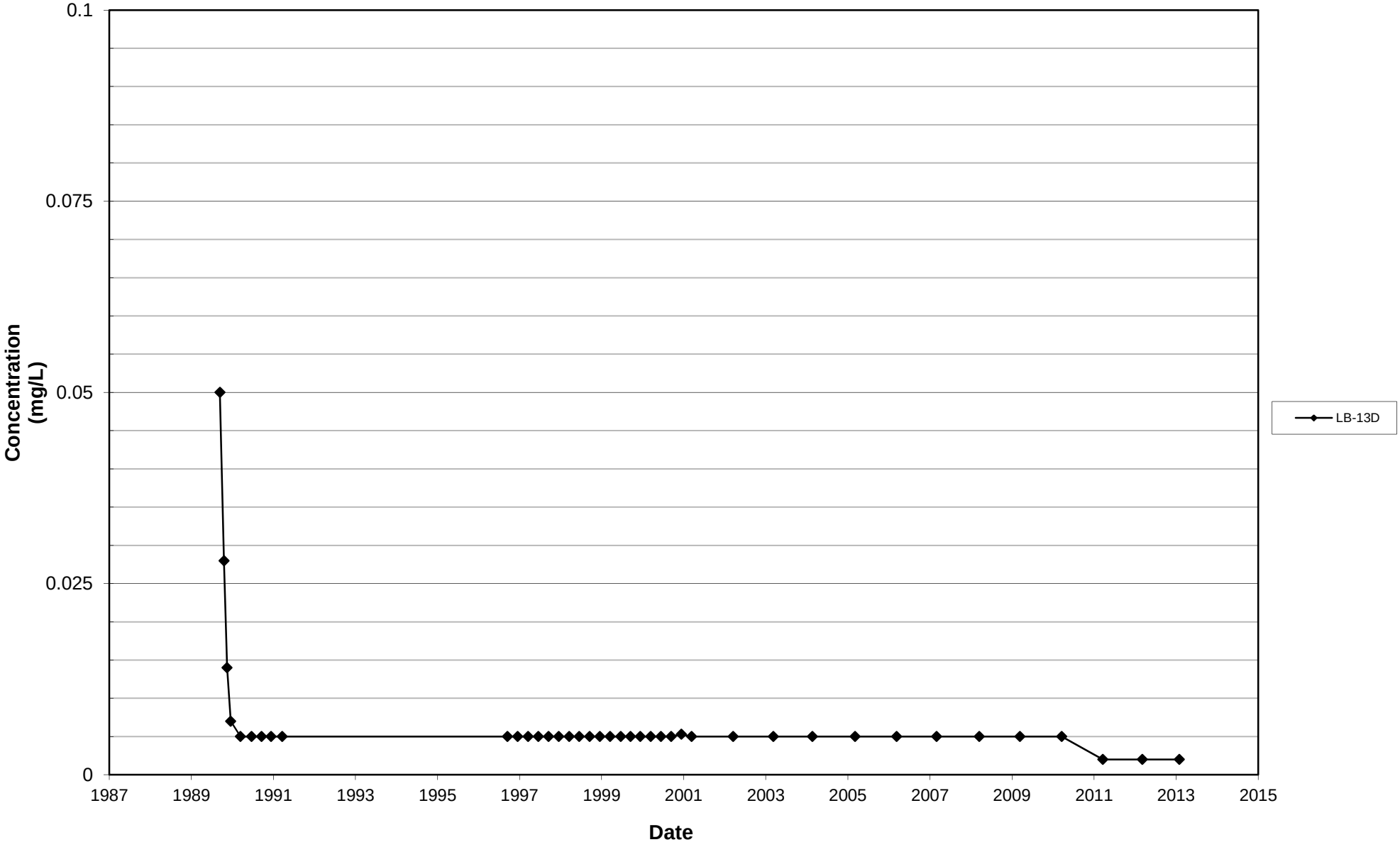
Leichner Landfill
Dissolved Manganese, LB-10D and LB-10DR
1987 - 2013



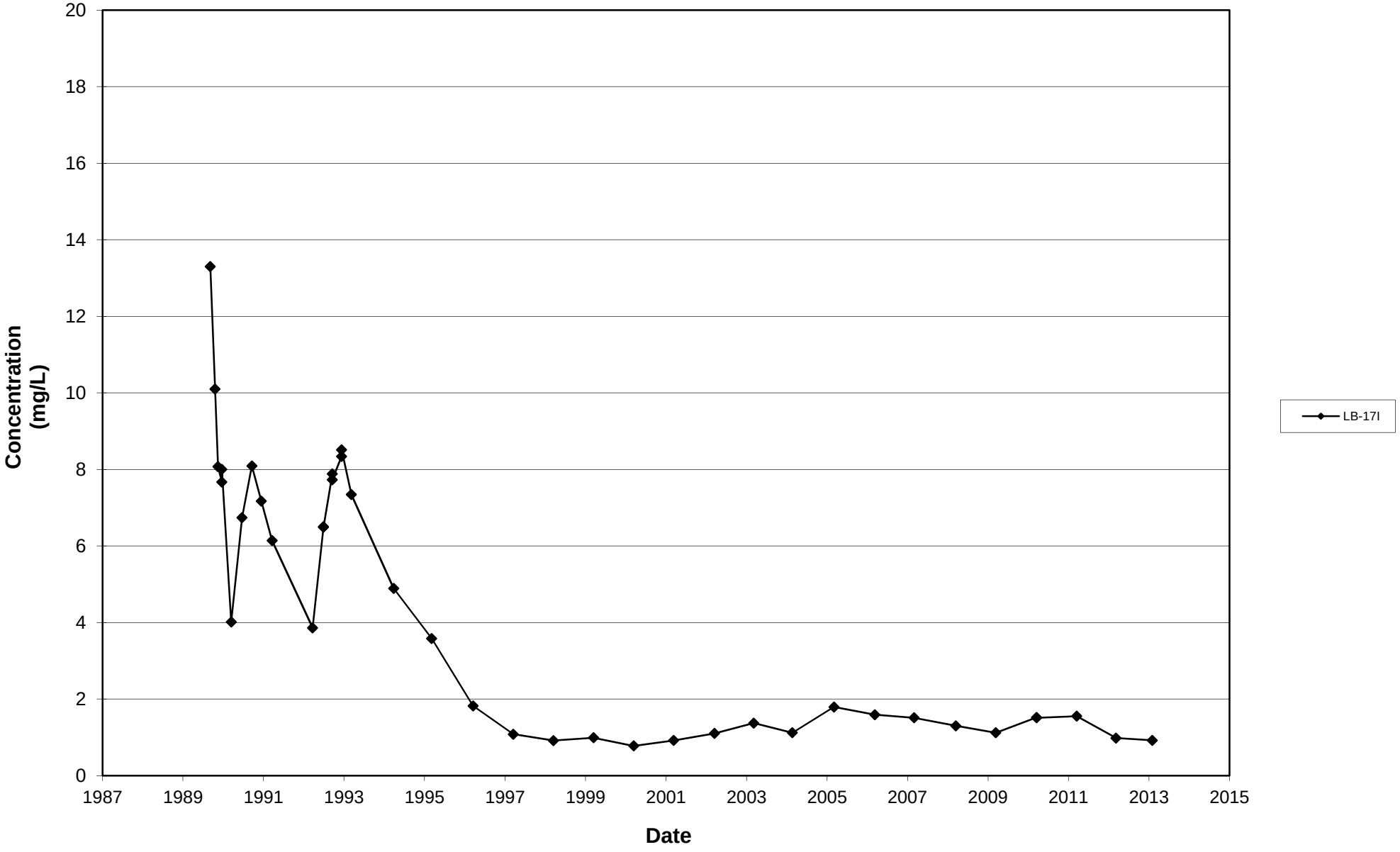
Leichner Landfill
Dissolved Manganese, LB-13I
1987 - 2013



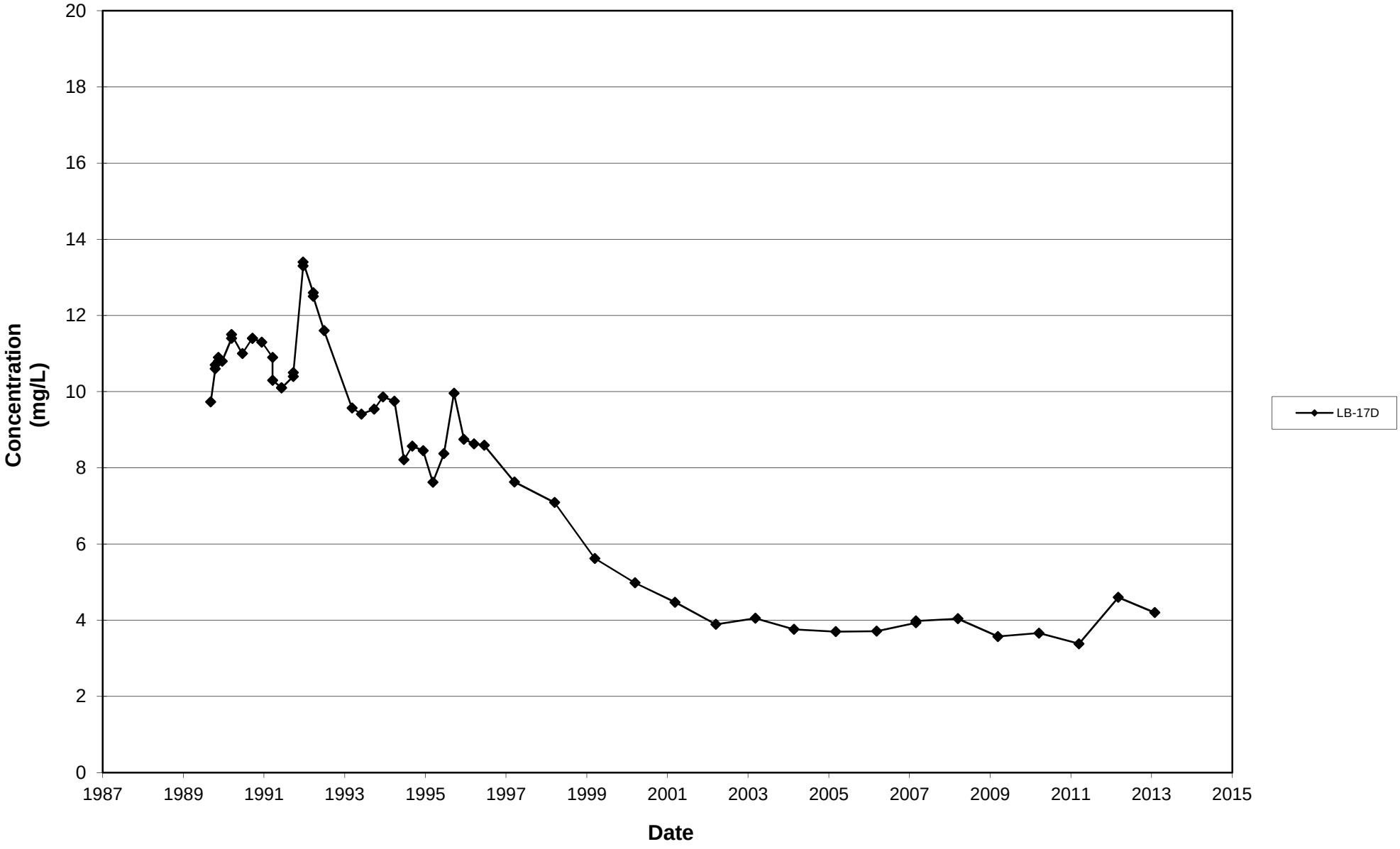
Leichner Landfill
Dissolved Manganese, LB-13D
1987 - 2013



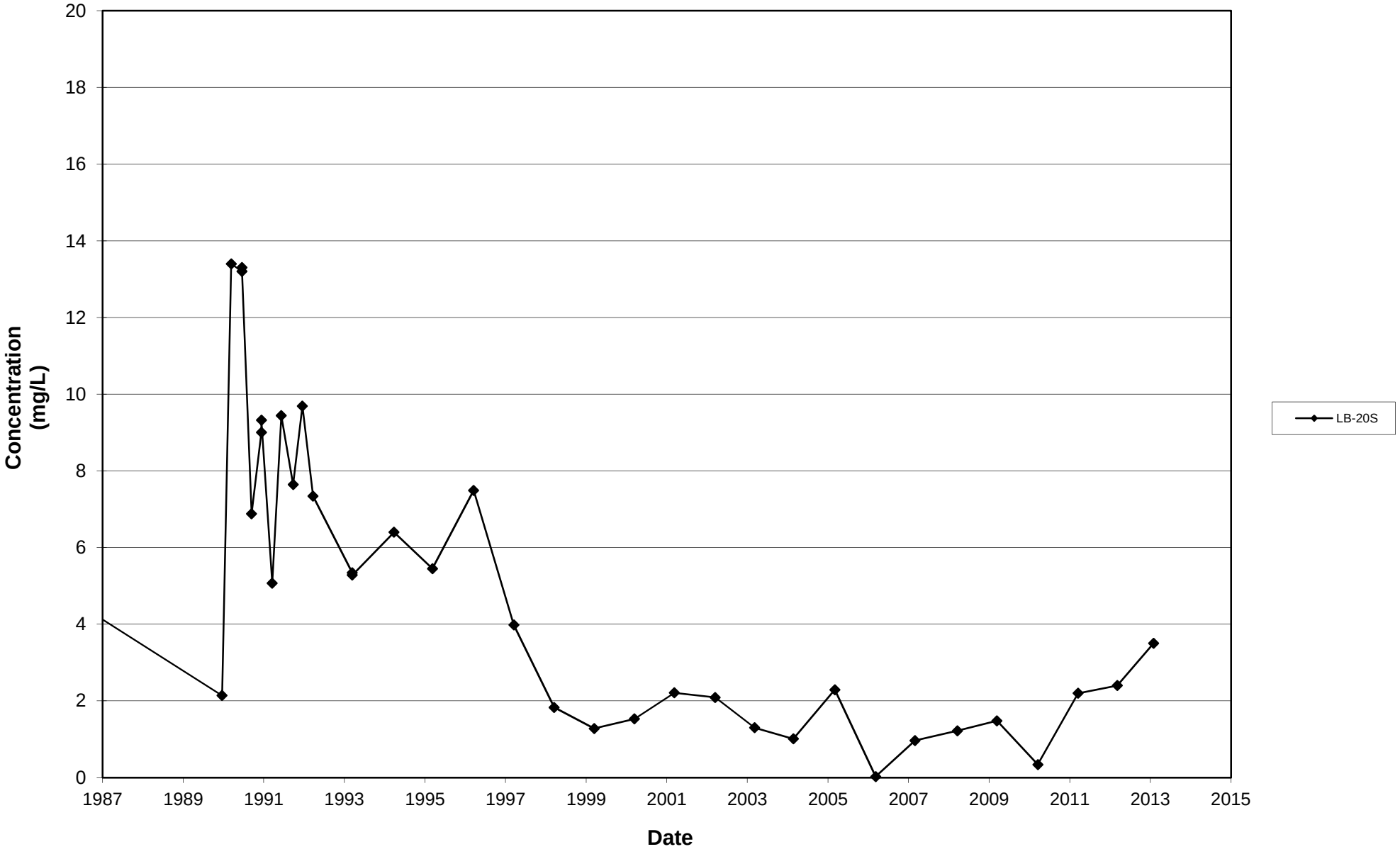
Leichner Landfill
Dissolved Manganese, LB-17I
1987 - 2013



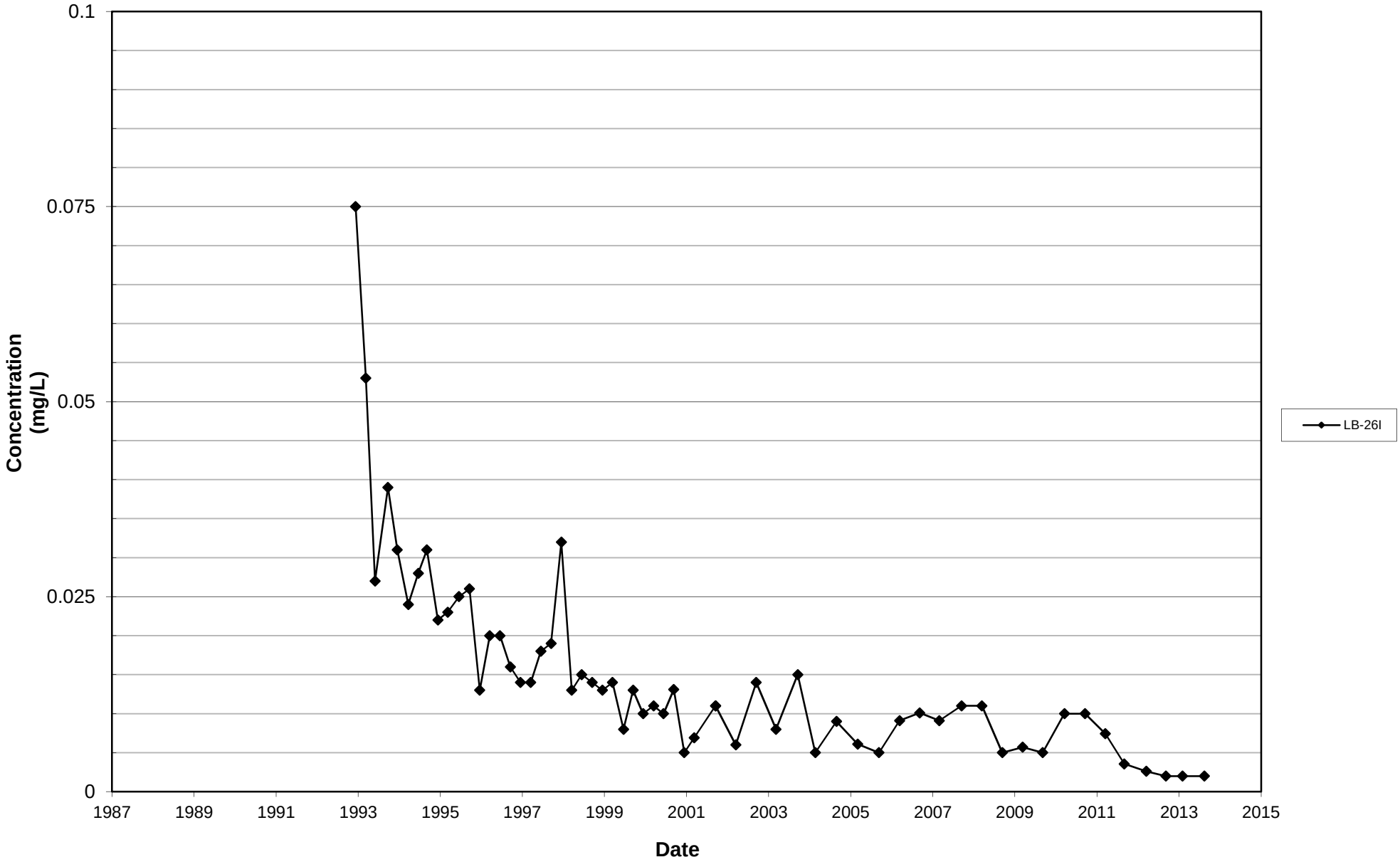
Leichner Landfill
Dissolved Manganese, LB-17D
1987 - 2013



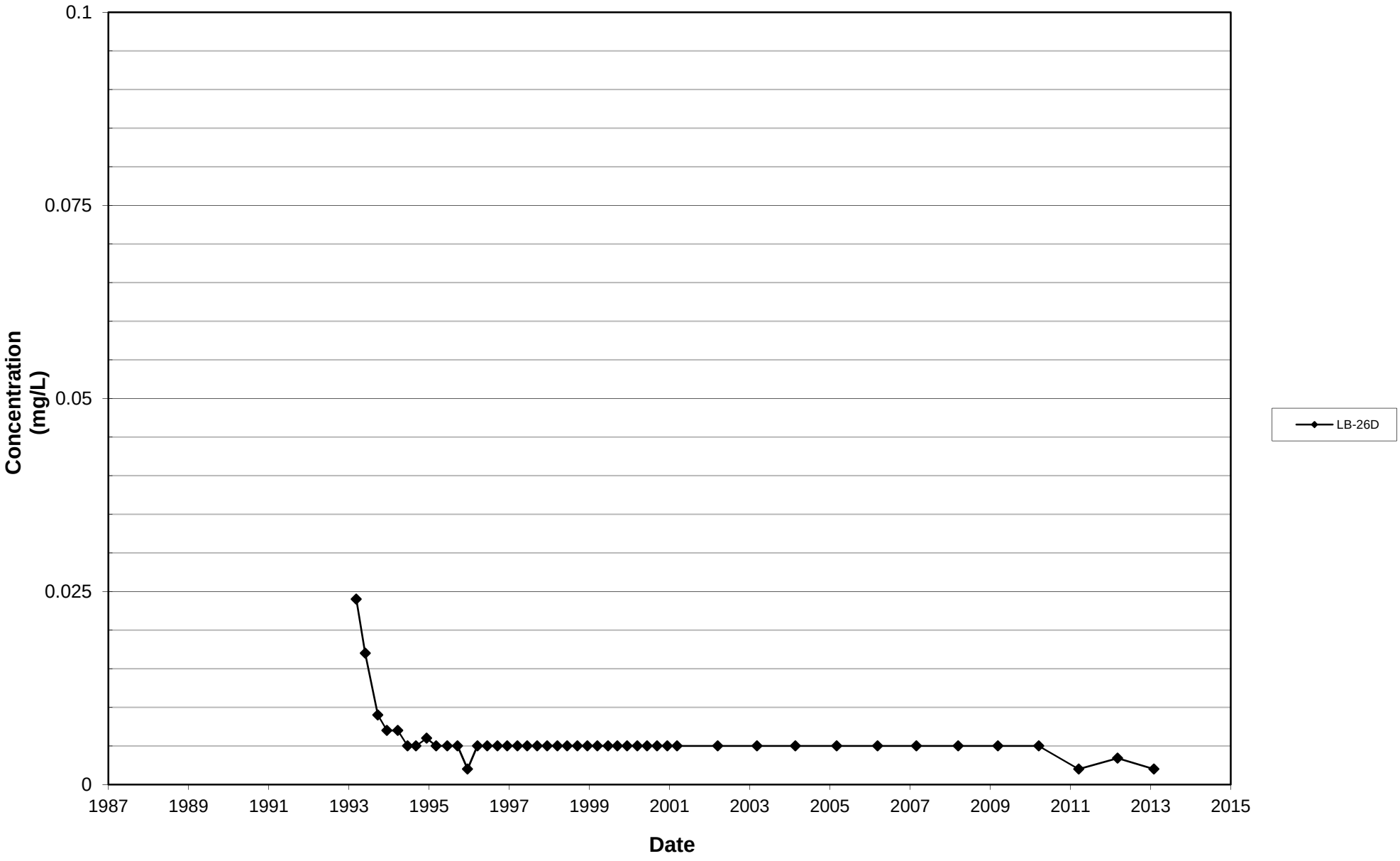
Leichner Landfill
Dissolved Manganese, LB-20S
1987 - 2013



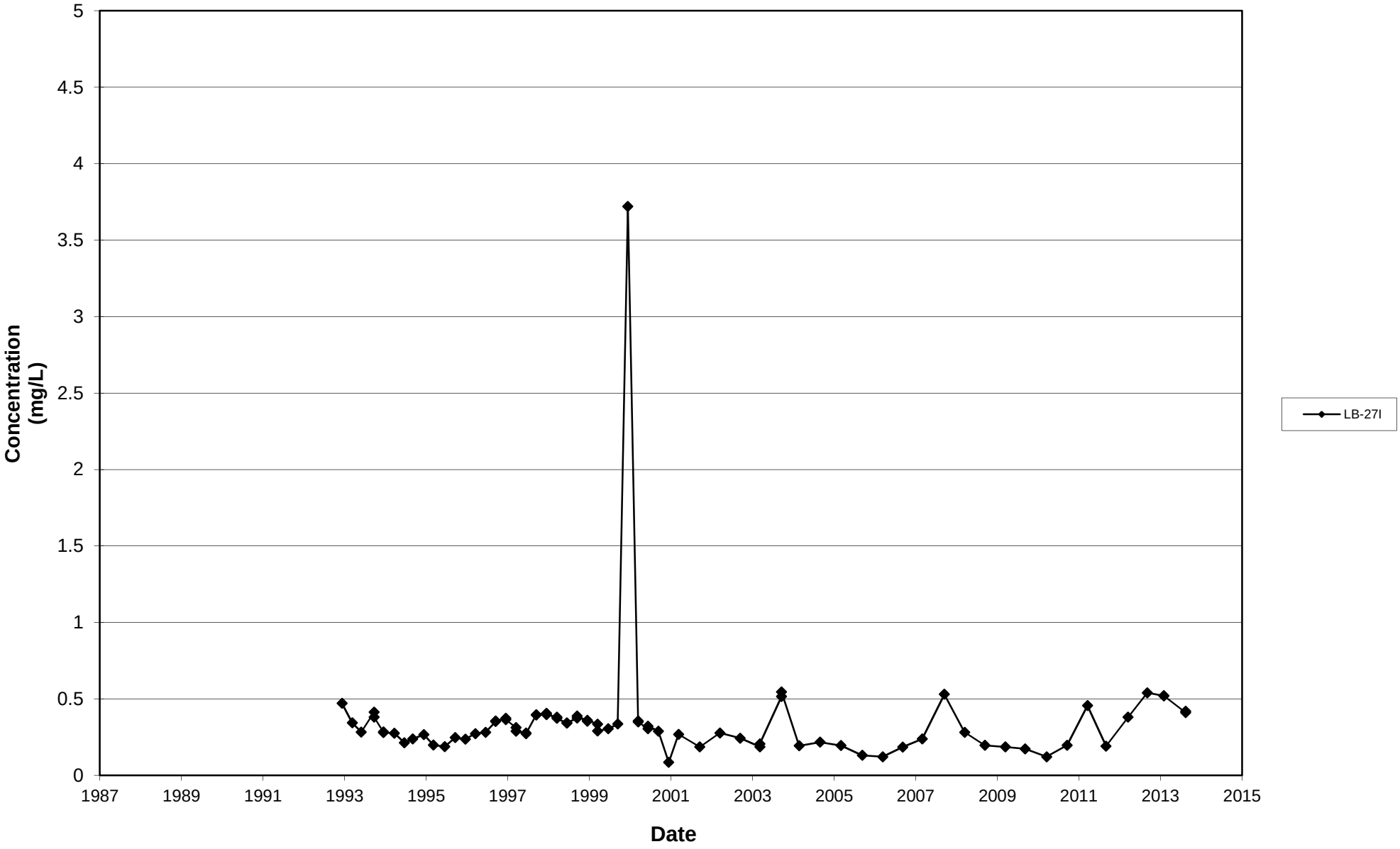
Leichner Landfill
Dissolved Manganese, LB-26I
1987 - 2013



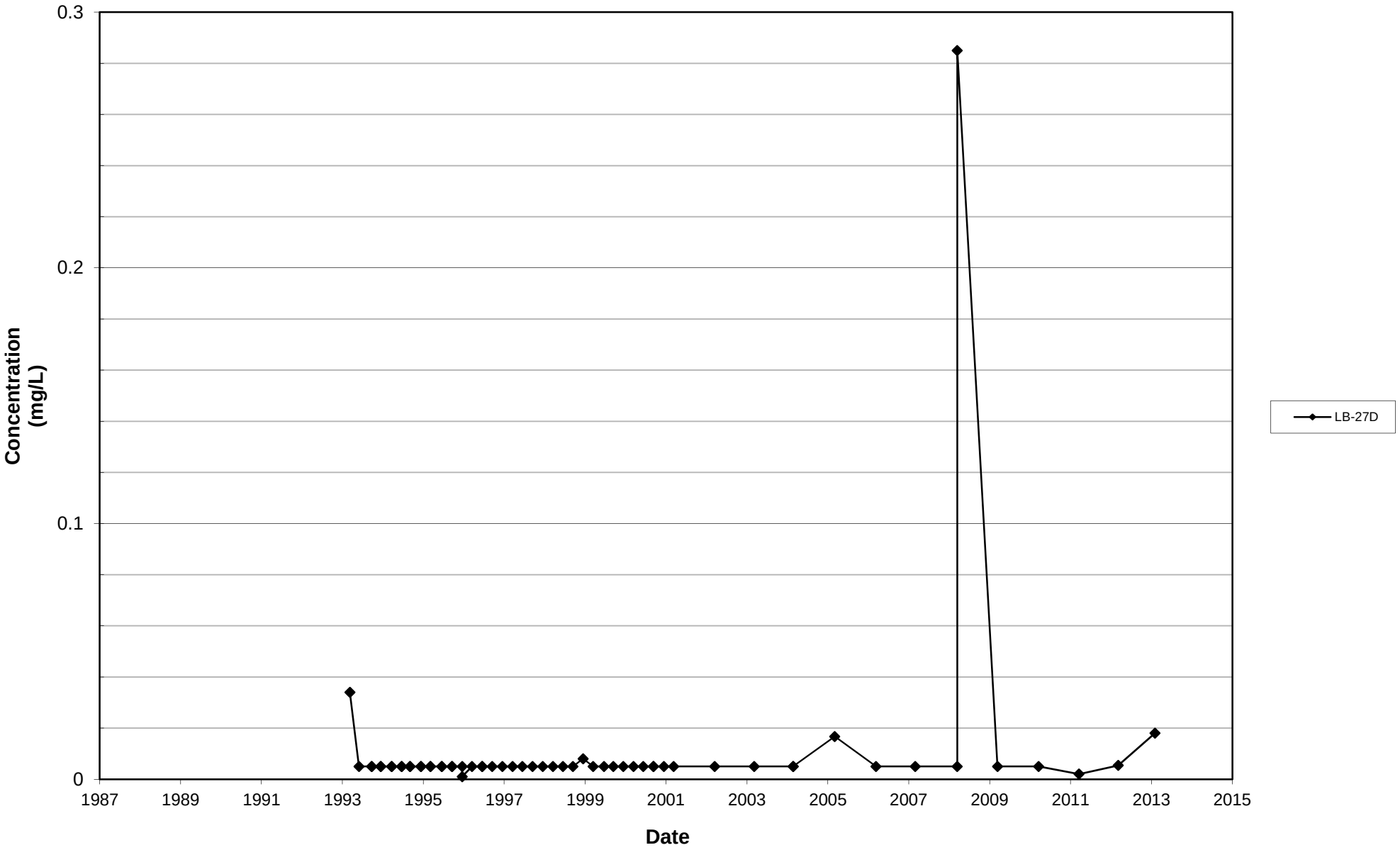
Leichner Landfill
Dissolved Manganese, LB-26D
1987 - 2013



Leichner Landfill
Dissolved Manganese, LB-27I
1987 - 2013



Leichner Landfill
Dissolved Manganese, LB-27D
1987 - 2013



APPENDIX E

2013 Landfill Gas Monitoring Probe Data

Compliance Landfill Gas Monitoring Probe Data
First Quarter (March) 2013
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	3/6/2013 12:46	0.0	2.1	19.4	78.5	0.00
GP-1B	3/6/2013 12:48	0.0	2.1	19.3	78.6	0.00
GP-02	3/6/2013 12:43	0.0	0.4	20.8	78.8	0.00
GP-03	3/6/2013 8:50	0.0	2.7	16.9	80.4	0.00
GP-4A	3/6/2013 8:46	0.0	2.8	14.9	82.3	-0.01
GP-4B	3/6/2013 8:47	0.0	3.1	13.9	83.0	0.00
GP-05	3/6/2013 8:44	0.0	4.0	14.8	81.2	-0.01
GP-06	3/6/2013 14:01	0.0	4.6	13.7	81.7	0.00
GP-07	3/6/2013 15:24	9.9	10.1	0.0	80.0	0.00
GP-07	3/8/2013 8:26	0.0	0.4	20.8	78.8	0.00
GP-8R	3/6/2013 8:55	0.0	1.0	20.2	78.8	0.00
GP-9A	3/6/2013 11:55	7.9	10.0	0.0	82.1	0.00
GP-9A	3/7/2013 9:03	1.7	10.4	0.0	87.9	0.00
GP-9B	3/6/2013 11:58	0.8	10.5	0.7	88.0	0.00
GP-10A	3/6/2013 11:50	0.0	5.0	10.6	84.4	0.00
GP-10B	3/6/2013 11:51	0.0	2.6	15.8	81.6	0.00
GP-11	3/6/2013 11:47	0.0	1.6	14.4	84.0	0.00
GP-12	3/6/2013 16:01	0.0	0.7	19.6	79.7	0.00
GP-13	3/6/2013 12:10	0.0	2.5	16.2	81.3	0.00
GP-14	3/6/2013 12:13	0.0	0.9	20.4	78.7	0.00
GP-15	3/6/2013 12:17	0.0	1.5	20.0	78.5	0.00
GP-16D	3/6/2013 12:31	0.0	3.1	19.1	77.8	0.00
GP-16S	3/6/2013 12:30	0.0	1.3	19.8	78.9	0.00
GP-17D	3/6/2013 12:26	0.0	2.3	19.5	78.2	0.00
GP-17S	3/6/2013 12:27	0.0	3.8	17.8	78.4	0.00
GP-18D	3/6/2013 13:11	0.0	2.6	18.7	78.7	0.00
GP-18S	3/6/2013 13:12	0.0	1.4	19.6	79.0	0.00
GP-19D	3/6/2013 13:16	0.0	2.9	18.3	78.8	0.00
GP-19S	3/6/2013 13:21	0.0	1.9	19.2	78.9	0.00
GP-20	3/6/2013 13:28	0.0	6.9	8.7	84.4	0.00
GP-21A	3/6/2013 13:35	0.0	1.0	20.2	78.8	0.00
GP-21B	3/6/2013 13:36	0.0	1.5	20.1	78.4	0.00
GP-22	3/6/2013 13:39	0.0	0.2	20.8	79.0	0.00
GP-23	3/6/2013 13:41	0.0	2.1	18.9	79.0	0.00
GP-24A	3/6/2013 13:43	0.0	0.8	20.0	79.2	0.00
GP-24B	3/6/2013 13:44	0.0	0.7	20.6	78.7	0.00
GP-25A	3/6/2013 13:51	0.0	3.1	18.0	78.9	0.00
GP-25B	3/6/2013 13:52	0.0	3.8	17.2	79.0	0.00
GP-26	3/6/2013 9:53	0.0	0.4	20.8	78.8	0.00
GP-27	3/6/2013 10:05	0.0	0.7	20.4	78.9	0.00
GP-28	3/6/2013 15:29	0.0	4.8	10.2	85.0	0.00

Compliance Landfill Gas Monitoring Probe Data
First Quarter (March) 2013
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-29	3/6/2013 8:40	0.0	5.7	9.1	85.2	0.00
GP-30A	3/6/2013 8:31	0.0	4.6	15.2	80.2	-1.47
GP-30B	3/6/2013 8:34	0.0	4.6	15.2	80.2	-0.40
GP-31	3/6/2013 13:14	0.0	1.4	19.8	78.8	0.00
GP-32	3/6/2013 13:24	0.0	2.3	18.1	79.6	0.00
GP-33	3/6/2013 13:26	0.0	1.7	19.4	78.9	0.00
GP-34	3/6/2013 13:31	0.0	3.2	15.2	81.6	0.00
GP-35	3/6/2013 13:32	0.0	2.1	17.4	80.5	0.00
GP-36	3/6/2013 13:46	0.0	1.9	17.9	80.2	0.00
GP-37	3/6/2013 13:48	0.0	3.4	16.9	79.7	0.00
GP-38	3/6/2013 9:44	0.0	1.1	18.9	80.0	0.00

Compliance Landfill Gas Monitoring Probe Data
Second Quarter (June) 2013
Leichner Landfill

Probe	Date Time	Methane (percent by volume)	Carbon Dioxide (percent by volume)	O2 (percent by volume)	Balance (percent by volume)	Rel Press (inches of water)
GP-1A	6/5/2013 11:37	0.0	2.2	18.4	79.4	0.03
GP-1B	6/5/2013 11:37	0.0	2.0	18.6	79.4	0.00
GP-02	6/5/2013 11:40	0.0	2.3	17.6	80.1	0.10
GP-03	6/5/2013 11:31	0.0	1.9	16.8	81.3	0.01
GP-4A	6/5/2013 11:24	0.0	3.2	15.7	81.1	0.02
GP-4B	6/5/2013 11:25	0.0	2.9	15.6	81.5	0.00
GP-05	6/5/2013 11:22	0.0	4.2	15.6	80.2	0.03
GP-06	6/5/2013 11:18	0.0	4.9	14.0	81.1	0.00
GP-07	6/5/2013 9:28	10.2	13.9	0.0	75.9	-0.01
GP-07	6/5/2013 13:01	10.8	12.7	0.0	76.5	0.00
GP-07	6/6/2013 8:50	9.9	13.9	0.0	76.2	0.00
GP-07	6/7/2013 7:44	8.5	13.8	0.0	77.7	0.00
GP-07	6/10/2013 11:03	5.5	13.6	0.0	80.9	0.00
GP-07	6/13/2013 10:02	3.6	11.9	0.0	84.5	0.00
GP-8R	6/5/2013 11:28	0.0	1.8	18.4	79.8	0.00
GP-9A	6/5/2013 9:50	7.2	14.8	0.0	78.0	0.02
GP-9A	6/5/2013 13:07	7.2	12.9	0.0	79.9	-0.01
GP-9A	6/6/2013 8:35	5.9	14.0	0.0	80.1	-0.01
GP-9A	6/7/2013 7:32	0.0	14.1	6.1	79.8	0.00
GP-9B	6/5/2013 9:52	0.7	11.0	1.7	86.6	0.03
GP-10A	6/5/2013 10:01	0.0	5.9	11.8	82.3	0.07
GP-10B	6/5/2013 10:02	0.0	3.8	16.4	79.8	0.00
GP-11	6/5/2013 10:05	0.0	2.8	15.9	81.3	0.02
GP-12	6/5/2013 10:11	0.0	1.0	19.9	79.1	0.00
GP-13	6/5/2013 10:14	0.0	1.3	16.9	81.8	0.01
GP-14	6/5/2013 10:18	0.0	0.9	20.2	78.9	0.00
GP-15	6/5/2013 10:21	0.0	0.7	19.2	80.1	0.05
GP-16D	6/5/2013 10:43	0.0	2.1	17.8	80.1	0.00
GP-16S	6/5/2013 10:39	0.0	2.3	18.7	79.0	0.00
GP-17D	6/5/2013 10:32	0.0	1.2	20.0	78.8	-0.02
GP-17S	6/5/2013 10:33	0.0	1.2	17.7	81.1	-0.01
GP-18D	6/5/2013 12:09	0.0	2.1	18.0	79.9	-0.01
GP-18S	6/5/2013 12:10	0.0	2.5	19.2	78.3	0.00
GP-19D	6/5/2013 12:20	0.0	1.2	18.8	80.0	0.02
GP-19S	6/5/2013 12:21	0.0	1.7	19.6	78.7	0.02
GP-20	6/5/2013 13:48	0.0	6.5	9.0	84.5	0.00
GP-21A	6/5/2013 12:39	0.0	1.3	19.4	79.3	0.00
GP-21B	6/5/2013 12:40	0.0	1.0	19.3	79.7	0.00
GP-22	6/5/2013 12:42	0.0	1.0	19.6	79.4	0.00
GP-23	6/5/2013 12:44	0.0	1.1	19.1	79.8	0.01
GP-24A	6/5/2013 12:47	0.0	1.4	19.6	79.0	0.02

Compliance Landfill Gas Monitoring Probe Data
Second Quarter (June) 2013
Leichner Landfill

Probe	Date Time	Methane (percent by volume)	Carbon Dioxide (percent by volume)	O2 (percent by volume)	Balance (percent by volume)	Rel Press (inches of water)
GP-24B	6/5/2013 12:48	0.0	0.8	20.2	79.0	0.00
GP-25A	6/5/2013 12:55	0.0	2.1	18.5	79.4	0.00
GP-25B	6/5/2013 12:56	0.0	2.9	17.0	80.1	0.01
GP-26	6/5/2013 11:50	0.0	1.0	20.1	78.9	0.12
GP-27	6/5/2013 11:52	0.0	0.8	19.8	79.4	0.00
GP-28	6/5/2013 9:22	0.0	4.5	14.0	81.5	0.00
GP-29	6/5/2013 11:15	0.0	5.0	9.8	85.2	0.01
GP-30A	6/5/2013 11:10	0.0	4.3	15.6	80.1	-0.07
GP-30B	6/5/2013 11:11	0.0	4.6	15.4	80.0	-0.05
GP-31	6/5/2013 12:14	0.0	1.5	19.8	78.7	0.00
GP-32	6/5/2013 12:23	0.0	1.4	18.8	79.8	0.03
GP-33	6/5/2013 12:27	0.0	1.6	19.0	79.4	0.02
GP-34	6/5/2013 12:33	0.0	2.2	15.7	82.1	0.00
GP-35	6/5/2013 12:36	0.0	2.3	16.7	81.0	0.03
GP-36	6/5/2013 12:50	0.0	0.7	18.7	80.6	-0.02
GP-37	6/5/2013 12:53	0.0	2.1	18.0	79.9	0.01
GP-38	6/5/2013 11:46	0.0	2.4	19.3	78.3	0.10

Compliance Landfill Gas Monitoring Probe Data
Third Quarter (September) 2013
Leichner Landfill

Probe	Date Time	Methane (percent by volume)	Carbon Dioxide (percent by volume)	O2 (percent by volume)	Balance (percent by volume)	Rel Press (inches of water)
GP-1A	9/3/2013 10:43	0.0	2.1	19.4	78.5	0.00
GP-1B	9/3/2013 10:44	0.0	1.9	19.5	78.6	0.00
GP-02	9/3/2013 10:47	0.0	3.0	18.2	78.8	0.00
GP-03	9/3/2013 9:52	0.0	3.9	16.7	79.4	0.00
GP-4A	9/3/2013 9:47	0.0	3.3	16.5	80.2	0.00
GP-4B	9/3/2013 9:48	0.0	3.1	16.1	80.8	0.00
GP-05	9/3/2013 9:43	0.0	4.7	15.5	79.8	0.00
GP-06	9/3/2013 10:20	0.0	5.1	14.0	80.9	-0.05
GP-07	9/3/2013 10:11	7.2	16.9	0.0	75.9	0.00
GP-07	9/5/2013 8:26	7.6	17.3	0.0	75.1	0.00
GP-07	9/6/2013 8:38	0.2	0.7	20.8	78.3	0.00
GP-8R	9/3/2013 10:02	0.0	1.6	19.7	78.7	-0.01
GP-9A	9/3/2013 11:09	0.0	8.0	11.3	80.7	0.00
GP-9B	9/3/2013 11:11	0.2	12.2	1.8	85.8	0.00
GP-10A	9/3/2013 11:06	0.0	4.9	12.9	82.2	0.00
GP-10B	9/3/2013 11:07	0.0	2.0	19.1	78.9	0.00
GP-11	9/3/2013 11:02	0.0	1.5	18.9	79.6	-0.61
GP-12	9/3/2013 10:59	0.0	1.4	20.5	78.1	0.00
GP-13	9/3/2013 11:24	0.0	4.0	17.6	78.4	-0.01
GP-14	9/3/2013 11:33	0.0	0.8	20.5	78.7	0.00
GP-15	9/3/2013 11:36	0.0	1.3	19.2	79.5	0.00
GP-16D	9/3/2013 11:43	0.0	3.3	17.4	79.3	0.00
GP16S	9/3/2013 11:45	0.0	1.8	19.3	78.9	0.00
GP-17D	9/3/2013 11:50	0.0	3.4	17.6	79.0	0.00
GP-17S	9/3/2013 11:51	0.0	3.5	18.3	78.2	0.00
GP-18D	9/3/2013 12:13	0.0	2.3	17.8	79.9	0.00
GP-18S	9/3/2013 12:15	0.0	1.8	19.3	78.9	0.00
GP19D	9/3/2013 12:21	0.0	2.6	17.9	79.5	0.00
GP-19S	9/3/2013 12:22	0.0	1.6	19.4	79.0	0.00
GP-20	9/3/2013 12:30	0.0	7.8	9.8	82.4	0.00
GP-21A	9/3/2013 12:39	0.0	1.1	20.0	78.9	0.00
GP-21B	9/3/2013 12:40	0.0	1.1	19.5	79.4	0.00
GP-22	9/3/2013 12:42	0.0	1.2	19.9	78.9	0.00
GP-23	9/3/2013 12:44	0.0	1.2	19.8	79.0	0.00
GP-24A	9/3/2013 12:46	0.0	1.0	20.6	78.4	0.00
GP-24B	9/3/2013 12:47	0.0	0.7	20.6	78.7	0.00
GP-25A	9/3/2013 12:54	0.0	1.7	19.5	78.8	0.00
GP-25B	9/3/2013 12:58	0.0	3.6	16.2	80.2	0.00
GP-26	9/3/2013 13:05	0.0	0.4	20.8	78.8	0.00
GP-27	9/3/2013 13:12	0.0	0.7	20.4	78.9	0.00
GP-28	9/3/2013 9:21	0.0	5.4	15.4	79.2	-0.01

Compliance Landfill Gas Monitoring Probe Data
Third Quarter (September) 2013
Leichner Landfill

Probe	Date Time	Methane (percent by volume)	Carbon Dioxide (percent by volume)	O2 (percent by volume)	Balance (percent by volume)	Rel Press (inches of water)
GP-29	9/3/2013 9:31	0.0	5.3	10.5	84.2	-0.03
GP-30A	9/3/2013 9:38	0.0	6.1	14.9	79.0	-9.24
GP-30B	9/3/2013 9:40	0.0	5.3	15.5	79.2	-0.07
GP-31	9/3/2013 12:18	0.0	1.1	19.9	79.0	0.00
GP-32	9/3/2013 12:25	0.0	1.7	18.8	79.5	0.00
GP-33	9/3/2013 12:26	0.0	1.8	17.3	80.9	0.00
GP-34	9/3/2013 12:33	0.0	4.0	14.3	81.7	0.00
GP-35	9/3/2013 12:36	0.0	3.0	16.1	80.9	0.00
GP-36	9/3/2013 12:50	0.0	2.9	15.7	81.4	0.00
GP-37	9/3/2013 12:52	0.0	2.3	17.2	80.5	0.00
GP-38	9/3/2013 13:01	0.0	1.6	19.6	78.8	0.00

Compliance Landfill Gas Monitoring Probe Data
Fourth Quarter (October) 2013
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	12/16/2013 13:12	0.0	3.4	19.3	77.3	0.00
GP-1B	12/16/2013 13:13	0.0	2.2	19.5	78.3	0.00
GP-02	12/16/2013 13:15	0.0	2.2	18.6	79.2	-0.01
GP-03	12/16/2013 12:58	0.0	2.9	17.4	79.7	0.00
GP-4A	12/16/2013 12:54	0.0	3.2	16.5	80.3	0.00
GP-4B	12/16/2013 12:55	0.0	2.9	16.1	81.0	0.00
GP-05	12/16/2013 12:35	0.0	3.0	15.4	81.6	0.02
GP-06	12/16/2013 12:42	0.0	5.4	13.4	81.2	0.09
GP-07	12/16/2013 15:16	8.9	13.2	0.0	77.9	0.00
GP-07	12/24/2013 11:28	1.9	8.2	2.4	87.5	0.00
GP-8R	12/16/2013 13:02	0.0	2.0	19.7	78.3	0.00
GP-9A	12/16/2013 13:41	0.0	8.4	8.2	83.4	0.00
GP-9B	12/16/2013 13:42	0.8	14.9	0.0	84.3	0.01
GP-10A	12/16/2013 13:39	0.0	4.5	12.0	83.5	0.00
GP-10B	12/16/2013 13:39	0.0	4.5	16.3	79.2	0.00
GP-11	12/16/2013 13:36	0.0	0.8	18.3	80.9	0.01
GP-12	12/16/2013 13:33	0.0	0.7	20.8	78.5	0.00
GP-13	12/16/2013 13:29	0.0	2.3	18.5	79.2	0.00
GP-14	12/16/2013 13:53	0.0	2.5	19.7	77.8	0.00
GP-15	12/16/2013 13:55	0.0	2.0	19.8	78.2	0.00
GP-16D	12/16/2013 14:01	0.0	2.0	19.3	78.7	0.00
GP-16S	12/16/2013 14:03	0.0	2.2	20.0	77.8	0.00
GP-17D	12/16/2013 14:07	0.0	1.9	18.7	79.4	0.00
GP-17S	12/16/2013 14:09	0.0	3.1	18.5	78.4	0.00
GP-18D	12/16/2013 14:15	0.0	3.1	18.3	78.6	0.00
GP-18S	12/16/2013 14:16	0.0	3.1	19.4	77.5	0.00
GP-19D	12/16/2013 14:19	0.0	2.0	18.5	79.5	0.00
GP-19S	12/16/2013 14:20	0.0	2.7	18.9	78.4	0.00
GP-20	12/16/2013 14:26	0.0	8.5	6.9	84.6	0.00
GP-21A	12/16/2013 14:40	0.0	2.0	20.0	78.0	0.00
GP-21B	12/16/2013 14:41	0.0	1.4	19.8	78.8	0.00
GP-22	12/16/2013 14:43	0.0	1.4	20.3	78.3	0.02
GP-23	12/16/2013 14:46	0.0	1.4	19.9	78.7	0.02
GP-24A	12/16/2013 14:48	0.0	1.4	20.0	78.6	0.02
GP-24B	12/16/2013 14:50	0.0	1.7	19.1	79.2	0.00
GP-24B	12/16/2013 14:59	0.0	3.4	16.0	80.6	0.00
GP-25A	12/16/2013 14:58	0.0	2.8	19.1	78.1	0.00
GP-26	12/16/2013 15:07	0.0	1.2	20.9	77.9	0.00
GP-27	12/16/2013 15:09	0.0	1.0	20.3	78.7	0.00
GP-28	12/16/2013 12:21	0.1	5.1	14.3	80.5	0.00
GP-29	12/16/2013 13:07	0.0	4.0	10.4	85.6	0.00
GP-30A	12/16/2013 12:30	0.0	3.4	15.6	81.0	0.00
GP-30B	12/16/2013 12:33	0.0	3.0	17.8	79.2	0.00
GP-31	12/16/2013 14:18	0.0	2.1	19.6	78.3	0.00

Compliance Landfill Gas Monitoring Probe Data
Fourth Quarter (October) 2013
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-32	12/16/2013 14:22	0.0	2.5	18.6	78.9	0.00
GP-33	12/16/2013 14:24	0.0	2.5	17.1	80.4	0.00
GP-34	12/16/2013 14:29	0.0	5.1	14.3	80.6	0.00
GP-35	12/16/2013 14:39	0.0	3.1	16.0	80.9	0.00
GP-36	12/16/2013 14:54	0.0	2.3	17.4	80.3	0.00
GP-37	12/16/2013 14:56	0.0	2.9	17.2	79.9	0.00
GP-38	12/16/2013 15:03	0.0	2.8	17.8	79.4	0.01