

SCS ENGINEERS

August 25, 2011
File No. 04211030.06/.18

Mr. Mohsen Kourehdar, P.E.
Washington State Department of Ecology
Southwest Regional Office
Toxics Cleanup Program
300 Desmond Drive
Lacey, Washington 98503

**Subject: Second Quarter 2011 Progress Report for the Closed Leichner Brothers Landfill,
Vancouver, Washington, Consent Decree 96-2-03081-7, Facility ID No. 1017**

Dear Mr. Kourehdars:

This letter presents the second quarter 2011 progress report for the closed Leichner Brothers Landfill (LBLF) located in Vancouver, Washington. This progress report was prepared by SCS Engineers, Inc. (SCS), on behalf of Clark County (County) and the Leichner Landfill Oversight Committee (LLOC), whose members include the City of Vancouver and Leichner Brothers Land Reclamation Corporation (LBLRC). The report is being submitted in accordance with reporting requirements specified in the July 1996 Consent Decree issued to the LBLRC by the Washington State Department of Ecology (Ecology).

Compliance monitoring of groundwater, surface water (i.e., storm water), and landfill gas (LFG) is performed at LBLF to fulfill certain requirements of the 1996 Consent Decree and associated Cleanup Action Plan (CAP), as well as to concurrently fulfill the requirements of LBLF's post-closure monitoring under Minimum Functional Standards (MFS), Chapter 173-304 WAC. Compliance monitoring is performed generally in accordance with the methods and procedures described in the site's Compliance Monitoring Plan (CMP; EMCON, 2005¹).

This progress report summarizes field activities performed during the second quarter 2011, including storm water and LFG compliance monitoring, and the monitoring and maintenance of the facility's landfill gas collection and control system (GCCS) and storm water control system. The GCCS includes a LFG extraction well field, condensate collection system, and a LFG flare and blower station. No fieldwork-related groundwater monitoring activities were performed during the second quarter 2011 period. This progress report also describes other pertinent, non-routine activities performed during the second quarter 2011.

SECOND QUARTER 2011 MAJOR ACTIVITIES

The following major activities were performed during the second quarter 2011 period and are described in more detail in subsequent sections of this report.

¹ EMCON. 2005. Compliance Monitoring Plan, Leichner Landfill, Clark County, Washington. Prepared by EMCON/OWT, Inc., Portland, Oregon, for the Leichner Brothers Land Reclamation Corp. April.

- Conducted the second quarter 2011 storm water monitoring in June 2011 and monthly storm water inspections in accordance with LBLF's General Storm Water Permit (Permit No. WAR005572B) issued by Ecology in October 2009.
- Conducted monthly compliance monitoring of the LFG compliance monitoring probes.
- Conducted monitoring and balancing of the LFG extraction well field at least semimonthly (twice a month).
- Monitored and maintained the performance and operation of the GCCS.

SECOND QUARTER 2011 PROJECT ACTIVITIES AND RESULTS

Project Management and Correspondence

Correspondences conducted during the second quarter 2011 period included the following:

- Submitted the April, May, and June 2011 monthly updates to the County and LLOC.
- Submitted to Ecology a technical memorandum dated March 30, 2011, providing review comments of its Draft Periodic Review (DPR²) document dated December 2010. Ecology subsequently issued a letter dated April 27, 2011³, to the County that outlined specific modifications to the environmental monitoring program to be implemented at LBLF based on the DPR and the technical memorandum. The modifications requested by Ecology and proposed to be implemented at LBLF are discussed in the last section of this report.
- Submitted to the Clark County Public Health (CCPH) and Ecology a letter dated May 10, 2011, regarding re-approval to discontinue monitoring for laboratory specific conductivity, pH, ammonia, sulfate, and total suspended solids. The letter was prepared in response to the discovery that official documentation of approval from Ecology in 2000 could not be readily found. Ecology approved the changes as documented in a letter dated April 27, 2011 that was issued to the County.⁴
- Submitted to the County (Mr. Mike Davis and CCPH) an updated Storm Water Pollution Prevention Plan (SWPPP) dated May 2011, consistent with requirements of LBLF's Industrial Storm Water General Permit (Permit) issued in October 2009. A copy of the SWPPP will be kept at the site as required by the Permit.

² Ecology. 2010. Periodic Review Draft, Leichner Brothers Landfill, Facility Site ID#: 1017, 9411 Northeast 94th Avenue, Vancouver, Washington 98666. Prepared by Ecology, Southwest Region Office, Toxics Cleanup Program. December.

³ Ecology, 2011. Letter (Period Review Under Model Toxics Control Act (MTCA, Leichner Brothers Landfill) to Michael Davis, Clark County Public Works Department, Vancouver, WA, from Mohsen Kourehdar, Ecology, Southwest Region Office. April 27.

⁴ Ecology. 2011. Letter (re: Periodic Review Under Model Toxics Control Act (MTCA), Leichner Brothers Landfill, from M. Kourehdar, Ecology, Southwest Regional Office, to M. Davis, Clark County.

- Submitted to Ecology the First Quarter 2011 Progress Report dated June 8, 2011⁵, which included the results of the annual groundwater monitoring event performed in March 2011 during the first quarter 2011 period.

Second Quarter 2011 Storm water Monitoring and Results

The second quarter 2011 storm water monitoring event was performed on June 20, 2011. A second quarter 2011 discharge monitoring report (DMR) describing the storm water analytical results will be submitted to Ecology in August 2011, consistent with requirements of LBLF's Industrial Storm Water General Permit.

Landfill Gas System Monitoring and Results

Compliance LFG Migration Monitoring

The compliance LFG monitoring probes were monitored monthly on April 12, May 12, and June 27, 2011. The monitoring probe locations are shown in Figure 1. Summaries of the monthly compliance LFG monitoring probe data are provided in Attachment 1.

Methane concentrations were below the MFS compliance level of 5 percent methane by volume in all LFG probes on the days monitored, except for the methane concentrations measured in probe GP-08 on May 12 and June 27, 2011 (8.5 and 6.4 percent methane, respectively). Probe GP-08 is not located along the LBLF's point of compliance (i.e., the property boundary); rather, it is located in the northwest closure area (Module 1) near or within the waste limits. Methane concentrations in this probe have periodically been above the compliance level due to its proximity to the waste limits. Adjustments made to the GCCS during the second quarter 2011, including balancing of the LFG extraction wells in the vicinity of this probe, were successful at reducing the elevated methane concentrations in probe GP-08 to below the compliance level by the end of each month.

As reported in the 2010 annual report for LBLF⁶ and observed by SCS in 2011, positive static pressures were not measured at probe GP-8 or in nearby LFG extraction wells during instances when the methane concentrations exceeded 5 percent by volume. The lack of positive static gas pressures when higher methane concentrations are observed in probe GP-08 is indicative of a low rate of biological decomposition near this probe location, which is consistent with other municipal solid waste landfills of similar age as LBLF. This lack of positive pressure, combined with the apparent efficiency of the GCCS at capturing and collecting LFG, indicates that methane is likely not migrating laterally in the subsurface soils over any sizable distance from the edge of the waste limits.

⁵ SCS. 2011. First Quarter 2011 Progress Report for the Closed Leichner Brothers Landfill, Vancouver, Washington, Consent Decree 96-2-03081-7, Facility ID No. 1017. Prepared by SCS, Portland, OR, for Clark County. June 8.

⁶ Shaw Environmental, Inc., 2011. 2010 Fourth Quarter and Annual Report, Groundwater, Storm water, and Landfill Gas Monitoring, Closed Leichner Brothers Landfill, Vancouver, Washington. March 7.

LFG Extraction System

The LFG extraction wells (see Figure 4) were monitored at least semi-monthly (twice a month) during the second quarter 2011 on the following days:

- April 5, 18, and 27, and 26, 2011.
- May 6 and 25, 2011.
- June 2 and 3, and June 20 and 21, 2011.

There were no problems noted during monitoring of the LFG extraction system in the second quarter 2011.

Greenhouse Gas Monitoring

The LFG flare system was monitored on a weekly basis for criteria required for evaluating greenhouse gas (GHG) emissions.

SCS prepared and submitted a report to the County and LLOC dated June 29, 2011 presented the results of a GHG applicability and emissions modeling study. A copy of the report was also submitted to Ecology and the Clark County Health District. The purpose of the report was to evaluate if the LFG emissions generated by LBLF trigger the EPA's Mandatory GHG Reporting Rule. The results of the applicability study indicated that GHG emissions do not exceed the federal EPA threshold limit of 25,000 MTCO_{2e} per year, and as a result, GHG emissions for LBLF are not required to be reported to the EPA. GHG emissions do, however, exceed the threshold limit for the State of Washington, which will require GHG emissions reporting for calendar year 2012. Per the County's and LLOC's request, SCS will continue routine monitoring of the LFG flare system in 2011 for evaluating the performance and efficiency of the LFG flare and blower.

GCCS Operations and Maintenance

Routine operations, maintenance, and repair of the GCCS performed during the second quarter 2011 generally included the following:

- Maintenance and repair (as needed) of the LFG extraction wells and piping.
- Maintenance and repair (as needed) of the flare system, condensate collection system, including the condensate sumps, airlines, discharge lines, and compressors.
- Repair (as needed) of minor leaks in the GCCS conveyance lines due to loosely attached flex hoses or fittings.

Other non-routine maintenance and repair activities performed during in month of the second quarter 2011 period are described below.

April 2011

- Removed approximately 15 gallons of liquid residue from the compressor blow-down tank.
- Replaced the compact flash card in the Yokogawa flare data recorder. Performed troubleshooting of problems with compact flash card not interfacing with Yokogawa flare data recorder.
- Installed a vapor meter on the propane line to the flare.
- Modified the condensate tank inlet pipe by replacing a 3-inch PVC pipe with a smaller diameter pipe (1-¼-inch PVC) and replumbed the piping.
- Replaced the pump controller at sumps N-4 and S-7.
- Regraded the header on supports south of well SE-16.
- Shut off the louver on east end of flare.

May 2011

- Replaced the compact flash card in the Yokogawa flare data recorded.
- Coordinated with Emerald Services, Inc. to remove and dispose (offsite) of liquids from the condensate tank, blow down tank in the air compressor shed, and flare sump.
- Drained the lateral servicing LFG wells NE-3 and NE-4.
- Repaired a disconnected flex hose at LFG well SW-17, and replaced a 6-inch flex coupling in northwest corner of northwest loop.
- Replaced valves at wells NW-14, NW-24, and NW-27.
- Installed new belts and greased bearings for both blowers 1 and 2.
- Identified maintenance needed at several LFG wells, including repair or replacement of new valves, couplings, and flex hoses.
- Adjusted the flare manual louvers as needed to maintain appropriate temperature.
- Performed troubleshooting of automatic flare shut down/restart systems so that restart procedures maintain optimum operating efficiency at startup. Troubleshooting included discussions with an LFG Specialties representative. Adjustments were made to the temperature set point that initiates automatic louver actuation.

June 2011

- Replaced the compact flash card in the Yokogawa flare data recorded.
- Shut off the air compressor used for condensate pumping. The air compressor will remain shut off during the dry season period because little or no condensate is generated during the dry season.
- Checked the motor starter current transducers.
- Lubricated the louver motors.
- Identified minor repairs of valves, flex hose, and/or piping needed at several LFG extraction wells.
- Evaluated the flare blower performance with respect to LFG generation rates. SCS is planning to modify the blowers to reduce their speed and vacuum potential to compensate for lower LFG generation rates. Ordered new blower sheaves to accomplish this task.
- SCS performed flare system operations troubleshooting with LFG Specialties over the phone. Modifications made to the flare system based on these troubleshooting efforts have resulted in a significant positive effect on the flare system performance, including constant running time of the flare in June 2011 (in contrast to repeated automatic shut downs of the flare that the system experienced before and since SCS took over operations in January 2011).

REPLACEMENT/RENOVATION ACTIVITIES

SCS obtained contractor bids for repair or replacement, as needed, for the South Pond electrical control panel and pump controllers. This work is anticipated to be performed during the third quarter 2011 operational period.

MODIFICATIONS TO ENVIRONMENTAL MONITORING PROGRAM

The following modifications to the environmental (compliance) monitoring program will be implemented, as approved by Ecology in its letter dated April 27, 2011³.

- The schedule for performing LFG compliance monitoring of the perimeter LFG probes will be changed from monthly to quarterly beginning in the third quarter 2011 period.
- Field-measurement of specific conductivity in groundwater samples collected from the site monitoring wells will be performed during all future monitoring events.

- Consistent with volatile organic compound (VOC) analytical method used for the first quarter 2011 groundwater monitoring event, vinyl chloride (VC) and 1,1-dichloroethene (1,1-DCE) will be tested using the low-level Method 8260B in order to meet the compliance level (i.e., 0.1 µg/L) for these two VOCs established in the 1996 Consent Decree/Cleanup Action Plan. If after two years of testing (i.e., three additional monitoring events), the results show that VC and 1,1-DCE are not detected above a MRL of 0.1 µg/L, then the testing for these two VOCs will be discontinued.

If you have any questions or comments regarding this report, please contact Mr. Louis Caruso at (503) 639-9208 or by email at lcaruso@scsengineers.com.

Sincerely,



David Lamadrid, LG (WA 562)
Project Geologist
SCS ENGINEERS



Louis Caruso, LG, LHG (WA 1329)
Project Manager
SCS ENGINEERS

Attachments: Figure 1 – Landfill Gas Probe and Extraction Well Locations
Attachment 1 – Second Quarter 2011 Compliance LFG Monitoring Probe Data

cc: Mike Davis; Clark County Environmental Services
Gary Bickett and Melissa Sutton; Clark County Public Health
Brian Carlson; City of Vancouver
Steve Horenstein; Miller Nash
Craig Leichner; LBLRC
SCS Leichner Project File

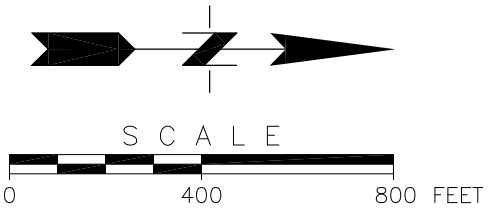
File: G:\04211030\01 - Lechner Landfill\Figures\Landfill Gas\2011-08-10 Second Quarter\Figure 1.dwg Layout: Layout1 User: 1171fal Aug 10, 2011 - 12:42pm



LEGEND:

- ⊕ GP-30 Compliance Landfill Gas Monitoring Probe Location
- ⊖ GP-6 Decommissioned Gas Probe Location
- SW-2 Vertical Landfill Gas Extraction Well
- ▲ Condensate Sump
- Gas Collection Piping
- Property Boundary
- · - · - Limit of Landfill Cover and Approximate Edge of Waste

NOTE:
Topography Taken From Clark County GIS, December 2008



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PROJECT NO. 04211030.06/18	DES BY D.L.
SCALE AS SHOWN	CHK BY D.L.
CAD FILE FIGURE 1	APP BY L.C.

LANDFILL GAS PROBE AND EXTRACTION WELL LOCATIONS
LEICHER BROTHERS LANDFILL
CLARK COUNTY, WASHINGTON

DATE AUGUST 2011
FIGURE 1

ATTACHMENT 1

**Second Quarter 2011
Compliance LFG Monitoring Probe Data**

**Compliance Landfill Gas Monitoring Probe Data
April 2011
Leichner Brothers Landfill**

Probe	Date / Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance (% by vol)	Relative Pressure (H₂O inch)
LBLFGP02	4/12/2011 10:51	0	2.9	18.8	78.3	-0.26
LBLFGP03	4/12/2011 10:48	0	2.7	17.1	80.2	0
LBLFGP05	4/12/2011 10:39	0	3.7	16.7	79.6	0.02
LBLFGP06	4/12/2011 11:03	0	3.8	15.8	80.4	0.03
LBLFGP07	4/12/2011 11:07	0	5.1	9.4	85.5	0.02
LBLFGP08	4/12/2011 11:34	0	8.9	3	88.1	0
LBLFGP11	4/12/2011 11:17	0	1.4	20.1	78.5	0.01
LBLFGP12	4/12/2011 11:15	0	0.9	20.6	78.5	0
LBLFGP13	4/12/2011 11:11	0	1.9	19.9	78.2	0
LBLFGP14	4/12/2011 11:44	0	2.2	20	77.8	0.02
LBLFGP15	4/12/2011 11:46	0	1.5	20.1	78.4	0.03
LBLFGP1A	4/12/2011 10:55	0	2.4	19.5	78.1	0.01
LBLFGP1B	4/12/2011 10:54	0	2.7	19.2	78.1	0.13
LBLFGP20	4/12/2011 12:29	0	5.9	9.1	85	0.02
LBLFGP22	4/12/2011 12:40	0	0.8	20.7	78.5	0.02
LBLFGP23	4/12/2011 12:43	0	1.3	20.3	78.4	0.04
LBLFGP26	4/12/2011 13:03	0	0.5	20.6	78.9	0
LBLFGP27	4/12/2011 13:06	0	0.5	20.5	79	0
LBLFGP28	4/12/2011 10:24	0.2	5.3	13.4	81.1	0.01
LBLFGP29	4/12/2011 10:35	0.1	4.8	9.3	85.8	0.03
LBLFGP31	4/12/2011 12:18	0	1.7	20.2	78.1	0.16
LBLFGP32	4/12/2011 12:24	0	2	19.4	78.6	0
LBLFGP33	4/12/2011 12:26	0	1.7	20.1	78.2	0.02
LBLFGP34	4/12/2011 12:31	0	2.9	16.3	80.8	0.03
LBLFGP35	4/12/2011 12:33	0	2	17.9	80.1	0
LBLFGP36	4/12/2011 12:51	0	1.5	20	78.5	0.04
LBLFGP37	4/12/2011 12:53	0	2.2	19	78.8	0.04
LBLFGP38	4/12/2011 12:59	0	1.3	20.2	78.5	0.05
LBLFGP4A	4/12/2011 10:44	0	2.8	16.3	80.9	-1.2
LBLFGP4B	4/12/2011 10:43	0	3.1	11.8	85.1	-1.11
LBLFGP9A	4/12/2011 11:30	0	2.6	17.2	80.2	0.06
LBLFGP9B	4/12/2011 11:28	0	11.2	1.6	87.2	0.04
LBLGP10A	4/12/2011 11:21	0	4.8	14.7	80.5	0.03
LBLGP10B	4/12/2011 11:20	0	1.5	18.6	79.9	0.02
LBLGP16D	4/12/2011 11:56	0	2.8	18.6	78.6	0.02
LBLGP16S	4/12/2011 11:58	0	1.6	19.9	78.5	0.03
LBLGP17D	4/12/2011 12:02	0	1.9	20.6	77.5	0.51
LBLGP17S	4/12/2011 12:01	0	3	17.6	79.4	0.02
LBLGP18D	4/12/2011 12:16	0	1.9	19.3	78.8	0
LBLGP18S	4/12/2011 12:15	0	1.4	20.1	78.5	0
LBLGP19D	4/12/2011 12:22	0	2.1	19.3	78.6	0
LBLGP19S	4/12/2011 12:21	0	1.3	20.5	78.2	0
LBLGP21A	4/12/2011 12:37	0	0.8	20.9	78.3	0.02
LBLGP21B	4/12/2011 12:36	0	1.1	20.5	78.4	0.02
LBLGP24A	4/12/2011 12:48	0	1.5	20.2	78.3	0.05
LBLGP24B	4/12/2011 12:47	0	1.6	19.8	78.6	0.04
LBLGP25A	4/12/2011 12:56	0	3.3	19.3	77.4	0.04
LBLGP25B	4/12/2011 12:56	0	3.1	18.2	78.7	0.04
LBLGP30A	4/12/2011 10:32	0.1	5.3	15.2	79.4	-1.3
LBLGP30B	4/12/2011 10:30	0.1	5	15.8	79.1	0.01



**Compliance Landfill Gas Monitoring Probe Data
May 2011
Lechner Brothers Landfill**

Probe	Date / Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance (% by vol)	Relative Pressure (H₂O inch)
LBLFGP02	5/12/2011 12:08	0	2.8	17.9	79.3	0.01
LBLFGP03	5/12/2011 12:17	0	2.9	16.6	80.5	0
LBLFGP05	5/12/2011 11:51	0	3.2	15.7	81.1	0
LBLFGP06	5/12/2011 12:28	0	4.1	15.2	80.7	0
LBLFGP07	5/12/2011 12:25	3.6	9.2	0.7	86.5	-0.01
LBLFGP08	5/12/2011 13:00	8.5	13.1	0.3	78.1	0
LBLFGP08 (recheck)	5/23/2011 10:41	10.1	13.2	1.7	75	0
LBLFGP08 (recheck)	5/25/2011 14:07	11.6	15.4	0.3	72.7	0
LBLFGP08 (recheck)	5/26/2011 10:51	11.2	15.5	0.8	72.5	0
LBLFGP08 (recheck)	5/26/2011 17:34	8.3	14	1.7	76	-6.51
LBLFGP08 (recheck)	5/27/2011 10:19	0.5	2.7	16	80.8	0
LBLFGP11	5/12/2011 12:51	0	1.4	17.4	81.2	0
LBLFGP12	5/12/2011 12:49	0	1	20	79	0
LBLFGP13	5/12/2011 12:43	0	1.7	18.2	80.1	-0.06
LBLFGP14	5/12/2011 11:40	0	1	20.8	78.2	-6.17
LBLFGP15	5/12/2011 11:43	0	1.1	20.1	78.8	0
LBLFGP1A	5/12/2011 12:12	0	2.2	18.7	79.1	0
LBLFGP1B	5/12/2011 12:11	0	2.3	18.7	79	0
LBLFGP20	5/12/2011 10:54	0	6.5	8.4	85.1	-0.01
LBLFGP22	5/12/2011 10:37	0	1.2	20.2	78.6	-0.03
LBLFGP23	5/12/2011 10:32	0	1.2	19.6	79.2	-0.02
LBLFGP26	5/12/2011 10:04	0	0.7	19.2	80.1	0
LBLFGP27	5/12/2011 10:01	0	0.9	19	80.1	0
LBLFGP28	5/12/2011 12:39	0	4.4	11.6	84	-0.03
LBLFGP29	5/13/2011 10:42	0.1	4.8	7.2	87.9	0
LBLFGP31	5/12/2011 11:06	0	1.3	19.8	78.9	0
LBLFGP32	5/12/2011 10:59	0	1.8	19.1	79.1	-0.01
LBLFGP33	5/12/2011 10:56	0	1.9	19.4	78.7	0
LBLFGP34	5/12/2011 10:51	0	2.4	16.3	81.3	0
LBLFGP35	5/12/2011 10:48	0	1.6	17.3	81.1	0
LBLFGP36	5/12/2011 10:26	0	1.9	18.6	79.5	-0.01
LBLFGP37	5/12/2011 10:23	0	2.7	17.7	79.6	0
LBLFGP38	5/12/2011 10:09	0	0.8	17.5	81.7	-0.01
LBLFGP4A	5/12/2011 11:55	0	2.4	15.7	81.9	-0.48
LBLFGP4B	5/12/2011 11:53	0	2.9	15.2	81.9	0
LBLFGP9A	5/12/2011 12:57	2.2	6.8	1.1	89.9	-0.01
LBLFGP9B	5/12/2011 12:56	0	5.7	9.8	84.5	-0.01
LBLGP10A	5/12/2011 12:55	0	4.7	14.2	81.1	0
LBLGP10B	5/12/2011 12:53	0	2.1	17.1	80.8	0
LBLGP16D	5/12/2011 11:29	0	3.1	17.7	79.2	-0.02
LBLGP16S	5/12/2011 11:27	0	1.3	19.2	79.5	-0.02
LBLGP17D	5/12/2011 11:24	0	1.2	20.4	78.4	0.01
LBLGP17S	5/12/2011 11:23	0	3.7	16.9	79.4	0
LBLGP18D	5/12/2011 11:08	0	2.2	18.5	79.3	0
LBLGP18S	5/12/2011 11:10	0	1.5	19.4	79.1	0
LBLGP19D	5/12/2011 11:01	0	2.3	19.3	78.4	-0.01
LBLGP19S	5/12/2011 11:03	0	1.3	20	78.7	-0.23
LBLGP21A	5/12/2011 10:42	0	0.9	20.4	78.7	0
LBLGP21B	5/12/2011 10:40	0	1.1	20.1	78.8	-0.03
LBLGP24A	5/12/2011 10:30	0	0.7	20.3	79	-0.01
LBLGP24B	5/12/2011 10:28	0	0.9	20.2	78.9	-0.02
LBLGP25A	5/12/2011 10:20	0	2.8	17.6	79.6	0



Compliance Landfill Gas Monitoring Probe Data
May 2011
Lechner Brothers Landfill

Probe	Date / Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance (% by vol)	Relative Pressure (H₂O inch)
LBLGP25B	5/12/2011 10:19	0	3.3	16.7	80	0
LBLGP30A	5/12/2011 9:47	0	5.6	14.6	79.8	0
LBLGP30B	5/12/2011 9:45	0	5	15.1	79.9	-0.01



**Compliance Landfill Gas Monitoring Probe Data
June 2011
Lechner Brothers Landfill**

Probe	Date / Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance (% by vol)	Relative Pressure (H₂O inch)
LBLFGP02	6/27/2011 13:39	0	3.8	15.6	80.6	0
LBLFGP03	6/27/2011 13:36	0	3.5	15.2	81.3	0.01
LBLFGP05	6/27/2011 13:30	0	3.7	15.2	81.1	-7.63
LBLFGP06	6/27/2011 13:55	0	4.5	13.6	81.9	0.02
LBLFGP07	6/27/2011 13:52	3.3	12.6	0.1	84	-16.54
LBLFGP08	6/27/2011 16:15	6.4	15.7	0.1	77.8	0.01
LBLFGP08 (recheck)	6/28/2011 13:38	0	0.2	21	78.8	0
LBLFGP11	6/27/2011 16:05	0	1.9	16.4	81.7	0
LBLFGP12	6/27/2011 16:03	0	0.9	19.6	79.5	0
LBLFGP13	6/27/2011 16:00	0	1.5	18.3	80.2	0
LBLFGP14	6/27/2011 15:57	0	0.6	20.1	79.3	0
LBLFGP15	6/27/2011 15:54	0	1.5	18.7	79.8	0
LBLFGP1A	6/27/2011 13:44	0	2.7	17.1	80.2	0
LBLFGP1B	6/27/2011 13:42	0	2.3	17	80.7	0
LBLFGP20	6/27/2011 15:08	0	6.6	9.6	83.8	0
LBLFGP22	6/27/2011 14:55	0	1	19.7	79.3	0
LBLFGP23	6/27/2011 14:53	0	1.6	19.2	79.2	0.01
LBLFGP26	6/27/2011 14:10	0	0.6	19.3	80.1	0
LBLFGP27	6/27/2011 14:07	0	0.9	18.7	80.4	0.01
LBLFGP28	6/27/2011 14:04	0	4.8	11.9	83.3	0
LBLFGP29	6/27/2011 13:58	0	5	7.4	87.6	0.03
LBLFGP31	6/27/2011 15:27	0	1.5	19	79.5	0
LBLFGP32	6/27/2011 15:21	0.1	1.5	18.6	79.8	0.02
LBLFGP33	6/27/2011 15:19	0.1	0.9	20	79	-0.01
LBLFGP34	6/27/2011 15:06	0	2.4	16.5	81.1	0
LBLFGP35	6/27/2011 15:03	0	1.9	16.7	81.4	0
LBLFGP36	6/27/2011 14:45	0	1.6	18.5	79.9	0
LBLFGP37	6/27/2011 14:43	0	2.4	17.8	79.8	0.01
LBLFGP38	6/27/2011 14:12	0	0.8	18.6	80.6	0
LBLFGP4A	6/27/2011 13:33	0	2.7	14.6	82.7	0
LBLFGP4B	6/27/2011 13:32	0	2.7	14.3	83	0.02
LBLFGP9A	6/27/2011 16:12	0	10	6.8	83.2	-0.01
LBLFGP9B	6/27/2011 16:11	0	5.6	8.8	85.6	-0.01
LBLGP10A	6/27/2011 16:09	0	4.1	13.2	82.7	-0.01
LBLGP10B	6/27/2011 16:08	0	2.4	17.4	80.2	0
LBLGP16D	6/27/2011 15:44	0	4.2	15.5	80.3	-0.01
LBLGP16S	6/27/2011 15:46	0	2.5	18.3	79.2	0
LBLGP17D	6/27/2011 15:40	0	1.1	20.2	78.7	0.87
LBLGP17S	6/27/2011 15:39	0	4.3	17.3	78.4	0
LBLGP18D	6/27/2011 15:34	0	2.8	16.8	80.4	0
LBLGP18S	6/27/2011 15:35	0	1.8	18.6	79.6	0
LBLGP19D	6/27/2011 15:25	0	2	18.3	79.7	0
LBLGP19S	6/27/2011 15:24	0	0.9	19.4	79.7	0
LBLGP21A	6/27/2011 15:00	0	0.9	19.7	79.4	0
LBLGP21B	6/27/2011 14:58	0	1	19.5	79.5	0
LBLGP24A	6/27/2011 14:50	0	1.7	19.2	79.1	0.01
LBLGP24B	6/27/2011 14:48	0	1.8	18.9	79.3	0.01
LBLGP25A	6/27/2011 14:40	0	3	17.4	79.6	0
LBLGP25B	6/27/2011 14:38	0	3	16.7	80.3	0
LBLGP30A	6/27/2011 13:26	0.2	6.7	13.1	80	0
LBLGP30B	6/27/2011 13:27	0.1	6.3	13.2	80.4	-10.78

