2 SEMI-ANNUAL MONITORING REPORT

In accordance with RLI Title V Permit Standard Conditions I.F and 19867, Part 32; BAAQMD Regulation 8-34-411; and 40 CFR §60.757(f) of the NSPS for landfills, this report is a Title V Combined Semi-Annual Report and Partial 8-34 Annual Report that is required to be submitted by RLI. This Report contains monitoring data for the operation of the gas collection and control system (GCCS). The operational records have been reviewed and summarized. The timeframe included in this Report is May 1, 2012 through October 31, 2012. The following table lists the rules and regulations that are required to be included in this Combined Report:

Table 2-1 Semi-Annual Report Requirements

	Table 2-1 Selfil-Allitual Report Requirements				
RULE	REQUIREMENT	LOCATION IN REPORT			
§60.757(f)(4)	All collection system downtime, including individual well shutdown times and the reason for the shutdown.	Section 2.1, Appendices B & D			
8-34-501.2, §60.757(f)(3)	All emission control system downtime and the reason for the shutdown.	Section 2.2, Appendix B			
8-34-501.3, 8-34-507, §60.757(f)(1)	Continuous temperature for all operating flares and any enclosed combustor subject to Section 8-34-507.	Section 2.3, Appendix E			
8-34-501.4, 8-34-505, 8-34-510	Testing performed to satisfy any of the requirements of this rule.	Sections 2.4 & 2.10, Appendices G & J			
8-34-501.5	Monthly landfill gas (LFG) flow rates and well concentration readings for facilities subject to 8-34-404.	Sections 2.5 & 2.11, Appendix L			
8-34-503, 8-34-506,	For operations subject to Section 8-34-503 and 8-34-506, records of all monitoring dates, leaks in excess of the limits in Section 8-34-301.2 or 8-34-303 that are discovered by the operator, including the location of the leak, leak concentration in parts per million by volume (ppmv), date of discovery, the action taken to repair the leak, date of the repair, date of any required re-monitoring, and the re-monitored concentration in ppmv.	Sections 2.6 & 2.7, Appendices H & I			
8-34-501.7	Annual waste acceptance rate and current amount of waste in-place.	Section 2.8			
8-34-501.8	Records of the nature, location, amount, and date of deposition of non- degradable wastes, for any landfill areas excluded from the collection system requirement as documented in the GCCS Design Plan.	Section 2.9			
8-34-505,	For operations subject to Section 8-34-505, records of all monitoring dates and any excesses of the limits stated in Section 8-34-305 that are discovered by the operator, including well identification number, the measured excess, the action taken to repair the excess, and the date of repair.	Section 2.10, Appendices J & K			
8-34-501.10, 8-34-508, §60.757(f)(1)	Continuous gas flow rate records for any site subject to Section 8-34-508.	Section 2.11, Appendix L			

RULE	REQUIREMENT	LOCATION IN REPORT
	For operations subject to Section 8-34-509, records or key emission control system operating parameters.	Section 2.2.2
8-34-501.12	The records required above shall be made available and retained for a period of five years.	Section 1.2
§60.757(f)(2)	Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under §60.756.	Section 2.2.1
§60.757(f)(6)	The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), (c)(4) of §60.755.	
§60.10 (d)(5)(i)	Start-up, Shutdown, Malfunction Events	Section 4, Appendices B & D

2.1 COLLECTION SYSTEM OPERATION [BAAQMD 8-34-501.1& §60.757(f)(4)]

Appendix A contains a map of the GCCS at RLI. Section 2.1.1 includes all collection system downtimes. The information contained in Appendix B, A-51 and A-60 Flares SSM Logs and GCCS Downtime Summary, includes the individual well shutdown times and the reason for each shutdown.

2.1.1 FLARE SYSTEM DOWNTIME

The A-51 Flare commenced operation in June 2005, and the A-60 Flare commenced operation on April 1, 2009. Table 2-2 summarizes the A-51 and A-60 Flares' downtimes for the reporting period.

Table 2-2 A-51 and A-60 Downtimes

Month	A-51 Downtime (Hours)	A-60 Downtime (Hours)
May 2012	0.00	67.37
June 2012	15.93	346.23
July 2012	0.10	33.63
August 2012	0.43	0.30
September 2012	0.00	6.47
October 2012	1.77	0.00
Total Hours:	18.23	454.00

During the period covered in this report, the GCCS was not shut down for more than five days on any one occasion. Appendix B contains the A-51 and A-60 Flare SSM

logs, and GCCS Downtime Summary which lists dates, times, and lengths of shutdowns for the reporting period and year-to-date.

2.1.2 WELL DISCONNECTION LOG

There were 37 wellfield SSM events which occurred during the reporting period. See Appendix D, Wellfield SSM Log for details of well disconnection and reconnection events.

2.2 EMISSION CONTROL DEVICE DOWNTIME [BAAQMD 8-34-501.2 & §60.757(f)(3)]

No bypassing of the control system or emissions of raw LFG occurred. The Flare SSM Logs that include all downtimes and reasons for each shutdown for the A-51 and A-60 Flares are contained in Appendix B. The total GCCS downtime for the period of May 1, 2012 through October 31, 2012 was 15.90 hours. This, combined with the previously reported 13.07 hours of downtime for the period between January 1, 2012 and April 30, 2012 results in a partial 2012 calendar year (January 1, 2012 through April 30, 2012) downtime of 28.97 hours out of 240 hours available per calendar year pursuant to BAAQMD Regulation 8-34-113 (Limited Exemption, Inspection and Maintenance).

2.2.1 LFG BYPASS OPERATIONS (§60.757(f)(2))

Title 40 CFR §60.757(f)(2) is not applicable at RLI because no bypass line is installed. LFG cannot be diverted around the control equipment.

2.2.2 KEY EMISSION CONTROL OPERATING PARAMETERS (BAAQMD 8-34-501.11 & 8-34-509)

The A-51 and A-60 Flares are subject to continuous temperature monitoring as required in BAAQMD Regulation 8-34-507 and 40 CFR §60.757(f)(1).

2.3 TEMPERATURE MONITORING RESULTS [(BAAQMD 8-34-501.3, 8-34-507, & §60.757(f)(1)]

A-51 Flare

The A-51 Flare commenced operation in June 2005. The combustion zone temperature of the A-51 Flare is monitored with Omega Type K thermocouples. The temperature is primarily recorded with a Yokogawa DX100 paperless chart recorder. There were no temperature deviations for the A-51 Flare during the reporting period. A copy of the Temperature Deviation Report for the A-51 Flare is included in Appendix E.

The A-51 Flare operated at an average temperature of 1,501 degrees Fahrenheit (°F) during the March 21, 2012 Source Test, which results in a calculated NSPS minimum operating temperature of 1,451°F. Title V Permit Condition Number 19867 Part 22 states that the minimum combustion zone temperature shall be equal to the average combustion zone temperature determined during the most recent complying source test

minus 50°F, provided that the minimum combustion zone temperature is not less than 1,400°F. As a result, the enforceable minimum combustion zone temperature during this reporting period was 1,451°F. Operating records for the A-51 Flare indicate that the three-hour average combustion zone temperature of the A-51 Flare did not operate below the minimum operating temperature of 1,451°F on a three-hour average basis while the flare was in operation from May 1, 2012 through October 31, 2012.

There were no periods of missing temperature data for the A-51 Flare during the reporting period.

A-60 Flare

The A-60 Flare commenced operation on April 1, 2009. The combustion zone temperature of the A-60 Flare is monitored with Omega Type E thermocouples. The temperature is primarily recorded with a Yokogawa DX100 paperless chart recorder. There were no temperature deviations for the A-60 Flare during the reporting period. A copy of the Temperature Deviation Report for the A-60 Flare is included in Appendix E

The A-60 Flare Zone A operated at an average temperature of 1,499°F during the March 21, 2012 Source Test, which results in a calculated minimum operating temperature of 1,449°F. The A-60 Flare Zone B operated at an average temperature of 1,462°F during the April 5, 2010 Source Test, which results in a calculated NSPS minimum operating temperature of 1,412°F. Title V Permit Condition Number 19867 Part 22 states that the minimum combustion zone temperature shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50°F, provided that the minimum combustion zone temperature is not less than 1,400°F. As a result, the enforceable minimum combustion zone temperature for the A-60 Flare during this reporting period was 1,449°F for Zone A, and 1,412°F for Zone B. Pursuant to Title V Permit Condition Number 19867, Part 30g, the annual source test at A-60 may be conducted while A-60 is operating in either zone, provided that each operating zone is tested at least once every five years. Therefore, the source test from Zone B is due by April 5, 2015.

Operating records for Zones A and B of the A-60 Flare indicate that the three-hour average combustion zone temperatures of Zones A and B of the A-60 did not operate below the minimum operating temperature of 1,449°F on a three-hour average basis while the flare was in operation from May 1, 2012 through October 31, 2012.

There were no periods of missing temperature data for the A-60 Flare during the reporting period.

2.4 MONTHLY COVER INTEGRITY MONITORING [BAAQMD 8-34-501.3, 8-34-507, & §60.757(f)(1)]

The Monthly Cover Integrity Monitoring Reports are included in Appendix G. The cover integrity monitoring was performed on the following dates:

- May 8, and 9, 2012
- June 1, 4, 5, 6, 7, 8, 18, 20, 22, and 25, 2012
- July 9, 11, 12, 17, 18, 19, 20, 23, and 25, 2012
- August 2, 8, 9, 13, 14, 15, 16, 20, 21, 24, 30, and 31
- September 1, 3, 4, 18, 20, 21, 25, 26, and 27, 2012
- October 10, 11, 12, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 29, 30, and 31, 2012

No breaches of cover integrity (e.g., cover cracks or exposed garbage) were found during the reporting period.

2.5 LESS THAN CONTINUOUS OPERATION (BAAQMD 8-34-501.5)

The RLI does not operate under BAAQMD Regulation 8-34-404 (Less Than Continuous Operation) and therefore is not required to submit monthly LFG flow rates.

2.6 SURFACE EMISSIONS MONITORING [BAAQMD 8-34-501.6, 8-34-506, & §60.757(f)(5)]

Quarterly Surface Emissions Monitoring (SEM), pursuant to BAAQMD Regulation 8-34-506, was conducted during the reporting period on the following dates:

Second Quarter 2012 – April 9 and 16, 2012 Third Quarter 2012 – July 23 and 24, 2012

A Toxic Vapor Analyzer (TVA) 1000 and an Organic Vapor Analyzer (OVA) 128 (both are flame ionization detectors [FIDs]) were used during the SEM events to monitor the path along the landfill surface according to the Landfill SEM Map. Any areas suspected of having emission problems by visible observations also were monitored. Immediately prior to both monitoring events, the FID was zeroed and calibrated using zero air and a 500-ppm_v methane calibration gas.

The Second Quarter 2012 SEM event was conducted by Roberts Environmental Services (RES) personnel on April 9 and 16, 2012; 41 exceedances were detected. Corrective actions were completed and RLI personnel conducted the 10-day remonitoring event on April 11, 16, 18, 23, and 24, 2012 and no exceedances were detected. The 30-day follow-up was conducted by RLI personnel on May 3, 2012 and no exceedances were observed.

The Third Quarter 2012 SEM event was conducted by RES personnel on July 23 and 24, 2012; 24 exceedances were detected. Corrective actions were completed and RLI personnel conducted the 10-day and 30-day re-monitoring events on July 31, 2012 and August 20, 2012. No exceedances were detected during either remonitoring event.

The Second Quarter 2012 and Third Quarter 2012 SEM Reports are included in Appendix H.

2.7 COMPONENT LEAK TESTING [BAAQMD 8-34-501.6, 8-34-503)

Quarterly component leak testing, pursuant to BAAQMD Regulation 8-34-503, occurred during the reporting period on the following dates:

Second Quarter 2012 – April 18, and June 26, 2012 Third Quarter 2012 – July 25 and September 28, 2012

No exceedances were identified during either event.

Appendix I contains the Second Quarter 2012 and Third Quarter 2012 Component Leak Test Reports.

2.8 SOLID WASTE PLACEMENT RECORDS (BAAQMD 8-34-501.7)

The solid waste placement total was calculated for the period of May 1, 2012 through October 31, 2012. The current waste in place figure includes solid waste placed in the landfill through October 31, 2012. Table 2-3 summarizes the RLI solid waste placement records for the reporting period.

Table 2-3 Solid Waste Placement

	Total Waste Landfilled (tons)
Waste Placement (May 1, 2012 through October 31, 2012)	91,441
Current Waste In Place as of October 31, 2012	12.59 million

2.9 NON-DEGRADABLE WASTE ACCEPTANCE RECORDS (BAAQMD 8-34-501.8)

RLI does not have non-degradable waste areas that are excluded from the collection system. Therefore, BAAQMD Regulation 8-34-501.8 is not applicable.

2.10 WELLHEAD MONITORING DATA (BAAQMD 8-34-501.4 & 8-34-505)

Wellhead monitoring was performed on a monthly basis pursuant to BAAQMD Regulation 8-34-505. The well data for May 2012 through October 2012 are included in Appendix J. Each well was monitored in accordance with the following requirements:

- 8-34-305.1 Each wellhead shall operate under a vacuum.
- 8-34-305.2 The LFG temperature in each wellhead shall be less than 55 degrees Celsius (131 °F).
- 8-34-305.4 The oxygen concentration in each wellhead shall be less than 5 percent by volume.

The wellhead monitoring was performed on the following dates:

- May 1, 8, 9, 14, 15, 29, and 30, 2012
- June 1, 4, 5, 6, 7, 8, 18, 20, 22, and 25, 2012
- July 9, 11, 12, 17, 18, 19, 20, and 23, 2012
- August 2, 8, 9, 13, 14, 15, 16, 20, 21, 24, 30, and 31, 2012
- September 1, 3, 4, 18, 20, 21, 25, 26, and 27, 2012
- October 10, 11, 12, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 29, 30, and 31, 2012

WELLHEAD DEVIATIONS [BAAQMD 8-34-501.9 & §60.757(f)(1)]

There was one LFG collection well in exceedance of the limits set forth in BAAQMD Regulation 8-34-305 during the reporting period.

A copy of the Wellfield Deviation Log is included in Appendix K.

2.11 GAS FLOW MONITORING RESULTS [BAAQMD 8-34-501.10, 8-34-508 & §60.757(f)(1)]

The LFG flow rates from both the A-51 and A-60 flares are measured with Veris flow meters. The flare flow meters meet the requirements of BAAQMD Regulation 8-34-508 by recording fuel flow at least every 15 minutes.

Appendix L contains a summary of the daily and monthly LFG flow rates and heat input for the flares. These flow rates are summarized in Table 2-4:

Table 2-4 Total LFG Flow

Emission Control Device	Total Runtime (hours)	Average Flow Rate (scfm)	Average Methane (%)	Total LFG Flow (scf)	Total LFG Flow (scf) Corrected to 500 BTU/scf	Total Methane Flow (scf)	Heat Input (MMBTU)
A-51 Flare	4,397.77	1,477	47.5 ¹	389,805,168	375,198,840	185,191,925	187,599
A-60 Flare	3,962.00	1,459	48.0 ²	346,860,741	337,343,966	166,507,387	168,672

Methane content determined from the March 31, 2011 and March 21, 2012 Source Tests. Heating value of methane used in heat input calculations is 1,013 BTU/scf

scf= standard cubic feet

MMBTU = million British thermal units

Pursuant to Title V Condition Number 19867, Part 20, the total LFG throughput to the A-51 Flare did not exceed 4,320,000 scf during any one day, and the total LFG throughput to the A-60 Flare did not exceed 4,320,000 scf during any one day during the reporting period of November 1, 2011 through May 30, 2012. The A-51 and A-60 Flares combined total LFG throughput did not exceed 2,207,520,000 scf during any consecutive 12-month period.

²Methane content determined from the March 31, 2011 and March 21, 2012 Source Tests. Heating value of methane used in heat input calculations is 1,013 BTU/scf

scfm = standard cubic feet per minute

Appendix L contains a summary of the combined daily LFG flow rates for the A-51 and A-60 Flares and the consecutive 12-month summaries.

There were no periods of missing data or chart recorder non-operation for the A-51 or A-60 Flares during the reporting period. The Flare Missing Data Report Forms are included in Appendix F.

2.12 COMPLIANCE WITH §60.757(f)(6)

"The date of installation and the location of each well or collection system expansion added pursuant to (a)(3), (b), (c)(4) of §60.755."

Routine GCCS maintenance occurred during the reporting period. The Wellfield SSM Log is included in Appendix D, Wellfield SSM Log.

On February 14, 2012, RLI submitted a request to the BAAQMD to extend Authority to Construct (ATC) Application Number 21623 for the installation, replacement, and decommissioning of LFG extraction wells, which had an expiration date of March 3, 2012. Per BAAQMD Regulation 2-1-407, RLI requested to extend the ATC for an additional two years, in order to allow RLI to modify the wellfield as necessary to meet regulatory standards. A copy of the letter is included in Appendix C, BAAQMD Correspondence.

The well count for RLI as of October 31, 2012 is 93 vertical wells and 14 horizontal collectors. A map of the LFG collection system showing the positioning of all vertical wells, horizontal collectors, and other LFG extraction devices is included in Appendix A.

2.13 COMPLIANCE WITH TITLE V PERMIT CONDITION 13123 (S-34 & S-39)

The S-34 Compost Facility Operations and S-39 Screening Operations were utilized during the reporting period. The total amount of material processed did not exceed 50,000 tons during any consecutive 12-month period during the reporting period of May 1, 2012 through October 31, 2012. Monthly and 12-month rolling throughputs are summarized in Table 2.5.

Table 2-5 Composting and Screening Operations Throughput

Month	Total Throughput (tons)	Rolling 12-Month Throughput (tons)
May 2012	3,390	36,140
June 2012	2,925	35,807
July 2012	2,996	36,360
August 2012	3,086	36,586
September 2012	2,698	36,493
October 2012	3,173	36,767
TOTAL:	18,269	

Pursuant to Title V Permit Condition Number 13123 Part 7, all yard waste material was processed within 72 hours of receipt. In addition, pursuant to Title V Permit Condition Number 13123 Part 8, the plant received no public nuisance notices of violation during the reporting period of May 1, 2012 through October 31, 2012.

2.14 COMPLIANCE WITH TITLE V PERMIT CONDITIONS 14098 AND 16516 (S-55)

Pursuant to Title V Permit Condition Number 14098, the annual gasoline throughput for the S-55 Non-Retail Gasoline Dispensing Facility Number 8573 did not exceed 940,000 gallons in any consecutive 12-month period during the timeframe of this report. The gasoline throughput for the 6-month period of May 1, 2012 through October 31, 2012 was 2,526 gallons. The maximum 12-month rolling total throughput for May 2012 through October 2012 was 4,566 gallons. Monthly gasoline throughput totals for the reporting period are listed in Table 2-6:

Table 2-6 Unleaded Gasoline Throughput

Month	Total Throughput (gallons)	Rolling 12-Month Fuel Usage (gallons)
May 2012	396	4,188
June 2012	369	4,061
July 2012	433	4,289
August 2012	434	4,361
September 2012	461	4,502
October 2012	433	4,566
TOTAL:	2,526	

Pursuant to Title V Permit Condition Number 16516, the Static Pressure Performance Test (Leak Test) for S-55 was performed on April 4, 2012. S-55 passed the 2012 Leak Test. The Static Pressure Performance Test results are included in Appendix P of the November 1, 2011 to April 30, 2012 Combined Report.

2.15 Compliance With Title V Permit Condition 22820 (S-49)

The S-49 Diesel Engine for Emergency Back-Up Generator operated for a total a total of 0 hours for the Semi-Annual reporting period (May 1, 2012 through October 31, 2012), and a total of 0 hours for the partial 2012 calendar year (through October 31, 2012), which is less than the 20 hours limit per calendar year for reliability-related activities.

2.16 COMPLIANCE WITH TITLE V PERMIT CONDITION 19865 (S-41)

Pursuant to Title V Permit Condition 19865, the total of waste processed at the S-41 Yard and Green Waste Shredding Operation did not exceed 820 tons per day or 200,000 tons per year as of April 30, 2012. A total 21,928 tons of green waste and yard

waste were processed at S-41 during the reporting period (May 1, 2012 through October 31, 2012), and a total of 34,989 tons were processed during the partial 2012 calendar year. Table 2-7 summarizes the amount of waste processed at S-41 during the monitoring period:

Table 2-7 Waste Processed at S-41

Month	Total Throughput (tons)	Rolling 12-Month Throughput (tons)
May 2012	4,478	38,463
June 2012	3,675	38,881
July 2012	3,200	39,637
August 2012	3,538	40,315
September 2012	3,212	40,736
October 2012	3,825	41,661
TOTAL:	21,928	

2.17 COMPLIANCE WITH TITLE V PERMIT CONDITION 19866 (S-42)

The total amount of material received at the S-42 Soil and Cover Stockpiles did not exceed 1,160 tons per day and 105,500 tons per year.

2.18 COMPLIANCE WITH TITLE V PERMIT CONDITION 19867, PARTS 6-10

The following is a summary of vehicle activity at the RLI:

- The mean vehicle fleet weight for all off-site vehicles traveling on paved roads was 14.58 tons, which is below the permit limit of 15.31 tons.
- Mean vehicle fleet weight for all off-site vehicles traveling on gravel or dirt roads was 16.09 tons, which is below the permit limit of 16.63 tons.
- The mean vehicle fleet weight for all on-site landfilling and construction related vehicles was 16.3 tons, which is below the permit limit of 28.37 tons.
- During the reporting period, the vehicle miles travelled (VMT) per day on gravel roads did not exceed the permit limit of 280 VMT per day. 2012 calendar year VMT on gravel roads is 28.247 VMT, below the limit of 87.080 VMT.
- During the reporting period, the VMT per day on dirt roads did not exceed the permit limit of 639 VMT per day. 2012 calendar year VMT on dirt roads is 69,835 VMT, below the limit of 198,650 VMT.
- During the reporting period, the VMT per day on paved roads did not exceed the permit limit of 622 VMT per day. 2012 calendar year VMT on paved roads is 41.588 VMT, below the limit of 205,880 VMT.

 During the reporting period, the VMT per day on paved for the on-site vehicle fleet did not exceed the permit limit of 61 VMT per day. 2012 calendar year VMT on paved roads is 13,883 VMT, below the limit of 19,080 VMT.

The records for VMT and average vehicle fleet weights are available for review at RLI.

2.19 Compliance With Title V Permit Condition 19867, Parts 14 and 15

No contaminated soil containing volatile organic compound (VOC) concentrations greater than 50 parts per million (ppm) was received during this reporting period. VOC-laden soil (containing less than 50 ppm of VOCs) was received during this reporting period. The total VOC emission rate for the reporting period (May 1, 2012 through October 31, 2012) is 3.83 lbs. The VOC soil log is included in Appendix M.

2.20 Compliance With Title V Permit Condition 19867, Parts 31 and 33

Pursuant to Title V Permit Condition Number 19867, Part 31b, weekly hydrogen sulfide (H_2S) readings were taken using Draeger tubes. The Second Quarter 2012, Third Quarter 2012, and partial Fourth Quarter 2012 weekly H_2S readings and quarterly averages are included in Appendix N, H_2S Weekly and Quarterly Monitoring.

Pursuant to Title V Permit Condition Number 19867, Part 31a, RLI collected the quarterly characterization of the LFG for analysis of sulfur compounds on June 28, 2012 for the Second Quarter 2012, and on September 27, 2012 for the Third Quarter 2012. The results are included in Tables 2-8 and Appendix N. The H₂S results were less than the peak total reduced sulfur limit of 505 ppm_v during the Second and Third Quarters of 2012.

Table 2-8 Second and Third Quarter 2012 Landfill Gas Characterization Results

Compound	Second Quarter 2012 Result (ppm _v)	Third Quarter 2012 Result (ppm _v)	Permit Limits (ppm _v)
Carbon Disulfide	N/A	N/A	N/A
Carbonyl Sulfide	N/A	N/A	N/A
Dimethyl Sulfide	N/A	N/A	N/A
Ethyl Mercaptan	N/A	N/A	N/A
Hydrogen Sulfide	440	340	505
Methyl Mercaptan	N/A	N/A	N/A

ND = not detected N/A = not applicable

Pursuant to Title V Permit Condition Number 19867, Part 33, RLI submitted a proposal, on May 17, 2011, for monitoring ground level H_2S concentrations at or near the fence line or property boundary. RLI will initiate H_2S monitoring within 3 months of approval from the District for the monitoring protocol. As of this Semi-annual reporting period (May 1, 2012 through October 31, 2012), approval from the District has not been received.

2.21 COMPLIANCE WITH TITLE V PERMIT CONDITION 22940 (S-56)

Conditions from the California Air Resources Board (CARB) Permit Number 117378 for the S-56 Portable Horizontal Grinder have been incorporated by reference into the RLI Title V Permit. Therefore, the compliance records for this equipment have been included in this Combined Report. Pursuant to BAAQMD Condition Number 22940, the emissions of particulate matter less than 10 microns in diameter (PM₁₀) did not exceed 10 tons per year. The PM₁₀ emissions are 0.97 tons for the reporting period (May 1, 2012 through October 31, 2012), and 1.66 tons for the partial 2012 calendar year (through October 31, 2012). The maximum daily throughput for the portable horizontal grinder (S-56) did not exceed 820 tons per day or 200,000 tons per year. Monitoring was performed daily for the recording of total throughput of all registered equipment units operating as part of a project. Table 2-9 lists the PM₁₀ emissions and total throughput of waste processed at S-56 for the reporting period:

Table 2-9 Waste Processed at S-56

Month	Emissions of Particulate Matter Less than 10 microns (tons)	Estimated Total Throughput (tons)
May 2012	0.18	3,960
June 2012	0.15	2,970
July 2012	0.12	2,480
August 2012	0.22	4,345
September 2012	0.17	3,300
October 2012	0.13	2,640
TOTAL:	0.97	19,695

2.22 Compliance With Title V Permit Condition 23052 (S-58)

Pursuant to Permit Condition 23052 Part 1, the total leachate influent rate to the Aerated Leachate Pond (S-58), excluding non-contact storm runoff, did not exceed 39.42 million gallons during any consecutive 12-month period. The total leachate flow rate to S-58 for each month (gallons/month) and the total cumulative flow rate to S-58 for each rolling 12-month period (millions of gallons/year) were recorded. Table 2-10 displays the leachate flow information for S-58.

Table 2-10 Leachate Flow Information for S-58

Month	Total Leachate Influent Rate to S-58 (gallons/month)	Total Rolling 12-Month Flow Rate to S-58 (millions of gallons/year)
May-12	1,896,017	17,565,777
Jun-12	1,046,372	18,020,898
Jul-12	1,064,636	16,835,774
Aug-12	1,230,505	17,095,818

Month	Total Leachate Influent Rate to S-58 (gallons/month)	Total Rolling 12-Month Flow Rate to S-58 (millions of gallons/year)
Sep-12	1,267,205	17,238,762
Oct-12	867,849	17,179,579
TOTAL:	7,372,584	

The average concentration of precursor organic compounds (POCs) in the leachate influent to S-58 did not exceed 500 parts per billion (ppb) by weight as required by Title V Permit Condition Number 23052 Part 2. The average concentrations of specified toxic air contaminants in the leachate influent to S-58 did not exceed 19 ppb by weight of benzene, 48 ppb by weight of 1,4-dichlorobenzene, and 7 ppb by weight of vinyl chloride as required by Title V Permit Condition Number 23052, Part 3. Table 2-11 summarizes POC concentrations in the influent to S-58, as determined by the analysis for calendar year 2012.

Table 2-11 POC Concentrations for S-58

Date	Benzene (ppb)	1,4-Dichlorobenzene (ppb)	Vinyl Chloride (ppb)	Total POC Concentration (ppb)
May 23, 2012	15	21.5	ND<1.6	132.55

2.23 Compliance With Title V Permit Condition 24527 (S-61 and S-62)

The S-61 Portable Diesel Engine for Waste Tipper and S-62 Portable Diesel Engine for Power Screens operated less than 4,992 hours combined during any 12-month period ending in the May 1, 2012 through October 31, 2012 reporting period. S-61 and S-62 operated a maximum of 259 hours combined during any 12-month period ending in the reporting period, out of the limit of 4,992 hours per rolling 12-month period. Table 2-12displays runtime hours for S-61 and S-62 during the reporting period.

Table 2-12 S-61 and S-62 Portable Diesel Engines

Month	S-61 Total Runtime (Hours)	S-62 Total Runtime (Hours)	Combined Rolling 12- Month Total (Hours)
November-11	18	_ 0	222
December-11	15	_ 5	226
January-12	19	0	232
February-12	25	3	240
March-12	10	9	243
April-12	22	21	259
TOTALS:	109	38	

4 START-UP, SHUTDOWN, MALFUNCTION REPORT

Start-up, Shutdown, Malfunction (SSM) Report for the Collection and Control Systems at the Redwood Landfill

The NESHAP contained in 40 CFR Part 63, AAAA for MSW landfills to control hazardous air pollutants include the regulatory requirements for submittal of a semi-annual report (under 40 CFR §63.10(d)(5) of the general provisions) if an SSM event occurred during the reporting period. The reports required by 40 CFR §63.1980(a) of the NESHAP and §60.757(f) of the NSPS summarize the GCCS exceedances. These two semi-annual reports contain similar information and have been combined as allowed by 40 CFR §63.10(d)(5)(i) of the General Provisions.

NESHAP 40 CFR Part 63, AAAA became effective on January 16, 2004. SSM events that occurred during the semi-annual reporting period (May 1, 2012 through October 31, 2012) are noted in this section and included in Appendix B. The following information is included as required:

- During the reporting period, 8 A-51 Flare SSM events, and 13 A-60 Flare SSM events occurred. The time, duration, and cause of each event are included in Appendix B, Flare SSM Logs.
- During the reporting period, 37 wellfield SSM events occurred. The time and duration of these events are included in Appendix D, Wellfield SSM Log.
- During the reporting period, no monitoring/recorder equipment SSM events occurred.
- In all 58 flare and wellfield SSM events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan.
- Revisions of the SSM Plan to correct deficiencies in the landfill operations or procedures were neither required nor prepared (§63.6(e)(3)(viii)).