

**2nd HALF 2012**  
**SEMI-ANNUAL MONITORING REPORT**

**HILLSIDE CLASS III DISPOSAL SITE**  
**COLMA, CALIFORNIA**  
**PERMIT #A1364**

**Prepared By:**  
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Type of Limit	Location of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliant to Regulations as of report date?	Comments
Collection system Installation Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition #16884, Parts 18.d.-e.	P/E	Records	Y	
Collection system Installation Dates	BAAQMD 8-34-304.2	Y		For Active Areas: collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition #16884, Parts 18.d.-e.	P/E	Records	Y	
Collection system Installation Dates	BAAQMD 8-34-304.3	Y		For any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste.	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition #16884, Parts 18.d.-e.	P/E	Records	Y	
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas flow meter and recorder	Y	
Gas Flow	BAAQMD Condition #16884, Parts 5, 6, 7, and 8	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD Condition #16884, Parts 13, 14, and 18.d.-f.	P/C, E	Gas flow meter, flare alarms, and records of landfill gas flow rates, collection and control systems downtime, and collection system components	Y	
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year nor 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating records	Y	

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Startup Shutdown or Malfunction Procedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)	Y	
Periods of In operation for Parametric Monitors	BAAQMD 1-523.2	Y		15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating records for all parametric monitors	Y	
Continuous monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating records for all continuous monitors	Y	
Permitted LFG well locations	8-34-304	N		N/A	BAAQMD 8-34-304	P/M	Operating records for all continuous monitors	Y	
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly inspection and records	Y	
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2 and BAAQMD Condition #16884, Part 7	Y		< 55 °C (131 °F) or ≤ 140 °F and < 5% O <sub>2</sub>	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly inspection and records	Y	
Gas concentrations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y		N <sub>2</sub> < 20% or O <sub>2</sub> < 5%	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly inspection and records	Y	
Well Shutdown Limits	BAAQMD 8-34-116.2	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5, 8-34-117.6, and 501.1	P/D	Records	Y	
Well Shutdown Limits	BAAQMD 8-34-116.3	Y		24 hours per well	BAAQMD 8-34-116.5, 8-34-117.6, and 501.1	P/D	Records	Y	

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TOC (Total Organic Compounds plus Methane)	BAAQMD 8-34-301.2	Y		1000ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly inspection of collection and control system components with a portable analyzer and records	Y	
TOC	BAAQMD 8-34-303	Y		500ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly visual inspection of cover. Quarterly inspection of surface with a portable analyzer. Re-inspection times for leaking areas, and Records	Y	
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3	Y		98% removal by weight < 30 ppmv, dry basis @ 3% O <sub>2</sub> , expressed as methane (applies to A-2 Landfill Gas Flare only)	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition #16884, Part 16	P/A	Source tests and records.	Y	
Temperature of Combustion Zone (CT)	BAAQMD Condition #16884, Part 12	Y		CT ≥ 1400 °F, averaged over any 3-hour period, until 11/01/04, and Effective 11/01/04, CT ≥ 1500 °F, averaged over any 3-hour period, (applies to A-2 Landfill Gas Flare only)	BAAQMD 8-34-501.3 and 507	C	Temperature sensor and recorder (continuous)	Y	
Total Carbon	BAAQMD 8-2-301 and BAAQMD Condition #16884, Part 3	Y		15 pounds/day or 3000 ppm, dry basis (applies only to aeration of or use as cover soil of soil containing ≤ 50 ppmv of volatile organic compounds)	BAAQMD Condition #16884, Parts 3 and 18.b.	P/D	Records	Y	

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Volatile Organic Compounds	BAAQMD Condition #16884, Part 2	N		Facility shall not accept soil containing more than 50 ppmv of VOC	BAAQMD Condition #16884, Part 2	P/E	Records	Y	
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to A-2 Landfill Gas Flare only)	None	N	NA	NA	
FP	BAAQMD 6-310	Y		≤ 0.15 grains/dscf (applies to A-2 Landfill Gas Flare only)	None	N	NA	NA	
SO <sub>2</sub>	BAAQMD regulation 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours (applies to A-2 Landfill Gas Flare only)	None	N	NA	NA	
SO <sub>2</sub>	BAAQMD regulation 9-1-302	Y		≤ 300 ppm (dry basis) (applies to A-2 Landfill Gas Flare only)	BAAQMD Condition #16884, Part 16	P/A	Source Test	Y	
Total Sulfur content in Landfill Gas	BAAQMD Condition #16884, Part 15	Y		≤ 1300 ppmv	BAAQMD Condition #16884, Part 15	P/Q	Sulfur analysis of landfill gas	Y	
Amount of Waste Accepted	BAAQMD Condition #16884, Part 1	Y		≤ 400 tons/day and ≤5,028,000 tons (cumulative amount of all wastes) and ≤9,830,000 yd <sup>3</sup> (cumulative amount of all wastes and cover materials)	BAAQMD Condition #16884, Part 18.a	P/Q	Records and calculations	Y	
Heat Input	BAAQMD Condition #16884, Part 9	Y		≤ 633.6 MM BTU per day, and ≤231,264 MM BTU per year	BAAQMD Condition #16884, Parts 9 and 18.f	P/D	Records	Y	
NO <sub>x</sub>	BAAQMD Condition #16884, Part 10	Y		≤ 30 ppmv of NO <sub>x</sub> , corrected to 15% O <sub>2</sub> dry	BAAQMD Condition #16884, Part 16.d	P/A	Source Test	Y	
CO	BAAQMD Condition #16884, Part 11	Y		≤ 208 ppmv of CO, corrected to 15% O <sub>2</sub> dry	BAAQMD Condition #16884, Part 16.d	P/A	Source Test	Y	