**CITY OF MOUNTAIN VIEW**
**TITLE V SEMI-ANNUAL MONITORING REPORT**

**SITE NAME:** City of Mountain View – Shoreline Landfill

**FACILITY ID #** A2740

**REPORTING PERIOD:** 1/1/2017 – 6/30/2017

**CERTIFICATION:**

Based on information and belief formed after reasonable inquiry, the statements and information provided in this document are true, accurate, complete, and addresses all deviations during the reporting period:

Audrey S Ranberg
Signature of Responsible Official
Acting City Manager

7/25/17
Date

Daniel H. Rich
Name of Responsible Official (please print)

City Manager
Title of Responsible Official (please print)

Mail to:

*Director of Compliance and Enforcement*
*BAAQMD*
*939 Ellis Street*
*San Francisco, CA 94109*
*Attn: Title V reports*

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List of Permitted Sources and Abatement Devices

| PERMIT UNIT NUMBER | EQUIPMENT DESCRIPTION |
|---|---|
| S-1 | Landfill and Gas Collection System |
| A-6 | Landfill Gas Flare |
| A-7 | Landfill Gas Flare |
| A-8 | Landfill Gas Flare |
| S-11 | Diesel Engine For Emergency Standby Generator (at Flare Station) |
| S-14 | Diesel Engine For Emergency Standby Generator (at Sewer Pump Station) |
| S-16 | Microturbine (at Flare Station) |
| S-17 | Microturbine (at Sewage Pump Station) |

**CITY OF MOUNTAIN VIEW**
**Shoreline Landfill – Facility ID # A2740**
**TITLE V SEMI ANNUAL MONITORING REPORT (1/1/2017 – 6/30/2017)**
**PERMITTED UNITS: S-1 LANDFILL AND GAS COLLECTION SYSTEM; A-6, A-7, and A-8 LANDFILL GAS FLARES**

| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C/N) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| Amount of Waste Accepted | BAAQMD 8-34-501.7 | BAAQMD Condition # 16065, Part 1 | 0 tons/day and ≤ 12,725,000 tons (cumulative amount of all wastes) and ≤ 18,852,000 $yd^3$ (cumulative amount of all wastes and cover materials) | Records<br><br>Closed Landfill No waste accepted | P/A | Continuous Yes | |
| Gas Flow | BAAQMD 8-34-501.10 and 508 | BAAQMD 8-34-301 and 301.1 | Landfill gas collection system shall operate continuously (except as indicated in Condition # 16065, Part 3) and all collected gases shall be vented to a properly operating control system | Gas Flow Meter and Recorder (every 15 minutes) | C | Continuous Yes | |
| Gas Flow | BAAQMD 8-34-501.1, 501.2, 501.10, and 508 and BAAQMD Condition # 16065, Part 6 | BAAQMD Condition # 16065, Parts 2-3 | Landfill gas collection system shall operate continuously (except as indicated in Condition # 16065, Part 3) and all collected gases shall be vented to a properly operating control system | Gas Flow Meter, Flare Alarms, and Records of Collection and Control Systems Downtime | C,P/E | Continuous Yes | |
| Collection System Installation Dates | BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 16065, Parts 15a-b | BAAQMD 8-34-304.1 | For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement | Records | P/E | Continuous Yes | |

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| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C/N) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| Collection and Control Systems Shutdown Time | BAAQMD 8-34-501.1 | BAAQMD 8-34-113.2 | ≤ 240 hours/year and ≤ 5 consecutive days | Operating Records | P/D | Continuous Yes | |
| Startup Shutdown or Malfunction Procedures | 40 CFR 63.1980(a-b) | 40 CFR 63.6(e) | Minimize Emissions by Implementing SSM Plan | Records (all occurrences, duration of each, corrective actions) | P/E | Continuous Yes | |
| Periods of In-operation for Para-metric Monitors | BAAQMD 1-523.4 | BAAQMD 1-523.2 | ≤ 15 consecutive days/incident and ≤ 30 calendar days/12 month period | Operating Records for All Parametric Monitors (for gas flow and temperature monitors) | P/D | Continuous Yes | |
| Continuous Monitors | 40 CFR 60.7(b) | 40 CFR 60.13(e) | Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments | Operating Records for All Continuous Monitors (for gas flow and temperature Monitors | P/D | Continuous Yes | |
| Wellhead Pressure | BAAQMD 8-34-414, 501.9, and 505.1 | BAAQMD 8-34-305.1 | < 0 psig | Monthly Inspection and Records | P/M | Continuous Yes | |
| Temperature of Gas at Wellhead | BAAQMD 8-34-414, 501.9 and 505.2 | BAAQMD 8-34-305.2 | < 55 °C (131 °F) (Wells listed in BAAQMD Condition # 16065, Part 5a are excluded from this limit.) | Monthly Inspection and Records | P/M | Continuous Yes | |

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| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C/N) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| Temperature of Gas at Wellhead | BAAQMD 8-34-414, 501.9 and 505.2 | BAAQMD Condition # 16065, Part 5a | ≤ 140 °F (This limit applies only to wells listed in BAAQMD Condition # 16065, Part 5a) | Monthly Inspection and Records | P/M | Continuous Yes | |
| Gas Concentrations at Wellhead | BAAQMD 8-34-414, 501.9 and 505.3 or 505.4 | BAAQMD 8-34-305.3 or 305.4 | $N_2 < 20\%$ **OR** $O_2 < 5\%$ (Wells listed in BAAQMD Condition # 16065, Part 5b are excluded from these limits.) | Monthly Inspection and Records | P/M | Continuous Yes | |
| Gas Concentrations at Header | BAAQMD Condition # 16065, Part 5b | BAAQMD Condition # 16065, Part 5b | $O_2 \leq 5\%$ by volume, dry basis **AND** $CH_4 \geq 35\%$ by volume, dry basis | Monthly Inspection and Records | P/M | Continuous Yes | |
| Well Shutdown Limits | BAAQMD 8-34-117.6 and 501.1 | BAAQMD 8-34-117.4 | No more than 5 wells at a time or 10% of total collection system, whichever is less | Records | P/D | Continuous Yes | |
| Well Shutdown Limits | BAAQMD 8-34-117.6 and 501.1 | BAAQMD 8-34-117.5 | ≤ 24 hours per well | Records | P/D | Continuous Yes | |
| TOC (Total Organic Compounds Plus Methane) | BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 16065, Part 15c | BAAQMD 8-34-301.2 | Component Leak Limit: ≤ 1000 ppmv as methane at 1 cm from component (see BAAQMD Condition # 16065, Part 5c for Clarifications about vaults) | Quarterly Inspection of collection and control system components with Portable Analyzer and Records | P/Q | Continuous Yes | |

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**PERMITTED UNITS: S-1 LANDFILL AND GAS COLLECTION SYSTEM; A-6, A-7, and A-8 LANDFILL GAS FLARES**

| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C/N) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| TOC | BAAQMD 8-34-415, 416, 501.6, 506 and 510 and BAAQMD Condition # 16065, Part 15c | BAAQMD 8-34-303 | Surface Leak Limit: ≤ 500 ppmv as methane at 2 inches above surface (see BAAQMD Condition # 16065, Part 5c for clarifications about vaults) | Monthly Visual Inspection of Cover, Quarterly Inspection of Surface with Portable Analyzer, Reinspections as Needed, and Records | P/M, Q, and E | Continuous Yes | |
| Non-Methane Organic Compounds (NMOC) | BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 16065, Parts 13 and 15c | BAAQMD 8-34-301.3 | ≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% $O_2$, expressed as methane (applies to flares only) | Source Tests and Records | P/A | Continuous Yes | |
| Temperature of Combustion Zone (CT) | BAAQMD 8-34-501.3 and 507 | BAAQMD Condition # 16065, Part 7 (Updated: December 9, 2015) | CT ≥ 1577 °F, averaged over any 3-hour period (applies to each flares) | Temperature Sensor and Recorder | C | Continuous Yes | |
| $SO_2$ | BAAQMD Condition # 16065, Parts 13 and 15c or Parts 14 and15c | BAAQMD Regulation 9-1-302 | ≤ 300 ppm (dry basis) | Annual Source Test At Flare or Sulfur Analysis of Landfill Gas at Header and Records | P/A | Continuous Yes | |

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**PERMITTED UNITS: S-1 LANDFILL AND GAS COLLECTION SYSTEM; A-6, A-7, and A-8 LANDFILL GAS FLARES**

| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C/N) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| $SO_2$ | BAAQMD Condition # 16065, Parts 13f and 15c or 14 and 15c | BAAQMD Condition # 16065, Part 12 BAAQMD Regulation 9-1-302 | ≤ 9 ppm (dry basis) (applies to each flare A-6, A-7, and A-8) | Sulfur Analysis of Landfill Gas and Records | P/A | Continuous Yes | |
| Landfill Gas Sulfur Content | BAAQMD Condition # 16065, Parts 14 and 15c | BAAQMD Condition # 16065, Part 12 | ≤ 150 ppmv, expressed as $H_2S$ (applies if $SO_2$ testing is not conducted at flare exhaust) | Sulfur Analysis of Landfill Gas and Records | P/A | Continuous Yes | |
| $NO_x$ | BAAQMD Condition # 16065, Parts 13 and 15c | BAAQMD Condition # 16065, Part 9a (Updated: December 9, 2015) | ≤ 0.06 lbs/MMBTU or ≤ 15 ppmv, as NO2 at 15% $O_2$, dry basis (applies to A-6, A-7, and A-8 flares only) | Source Tests and Records | P/A | Continuous Yes | |
| CO | BAAQMD Condition # 16065, Parts 13 and 15c | BAAQMD Condition # 16065, Part 10a | < 0.20 lbs/MMBTU or ≤ 83 ppmv, at 15% $O_2$, dry basis (applies to A-6 A-7, and A-8 flares only) | Source Tests and Records | P/A | Continuous Yes | |

* Monitoring Frequency Legend
P = Periodic Monitoring / on an A = Annual, Q = Quarterly, M = Monthly, W = Weekly, D = Daily or E = Event basis

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**TITLE V SEMI ANNUAL MONITORING REPORT (1/1/2017 – 6/30/2017)**
**PERMITTED UNITS: S-11 AND S-14 DIESEL ENGINES FOR EMERGENCY STANDBY GENERATORS**

| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| Liquid Fuel Sulfur Content | BAAQMD Condition # 24175, Part 5f | BAAQMD Regulation 9-1-304 | Fuel Sulfur Limit: ≤ 0.5% S by weight | Vendor Certification | P/E | Continuous Yes | |
| Liquid Fuel Sulfur Content | BAAQMD Condition # 24175, Part 5f | CCR Title 17, Section 93115.5(b) and CCR Title 13, Section 2281(a)(1-5) | Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel which has Fuel Sulfur Limits of: ≤ 15 ppmw of S | Vendor Certification | P/E | Continuous Yes | |
| Operating Hours | BAAQMD Regulation 9-8-530 and BAAQMD Condition # 24175, Parts 4 and 5a-d and CCR Title 17, Section 93115.10(e)(1)&(g)(1) | BAAQMD Condition # 24175, Part 1 and CCR Title 17, Section 93115.6 (b)(3)(A)(1)(b) | For S-11 Diesel Engine: Operating hours for Reliability-Related Activities: ≤ 30 hours in a calendar year | Hour Meter and Records | P/C, M | Continuous Yes | |
| Operating Hours | BAAQMD Regulation 9-8-530 and BAAQMD Condition # 24175, Parts 4 and 5a-d and CCR Title 17, Section 93115.10(e)(1)&(g)(1) | BAAQMD Regulation 9-8-330.3 and BAAQMD Condition # 24175, Part 2b | For S-14 Diesel Engine Operating hours for Reliability-Related Activities: ≤ 50 hours in a calendar year (Effective 1/1/2012) | Hour Meter and Records | P/C, M | Continuous Yes (Effective 1/1/2012) | |

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**PERMITTED UNITS: S-11 AND S-14 DIESEL ENGINES FOR EMERGENCY STANDBY GENERATORS**

| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| Operating Hours | 40 CFR 63.6625(f) and 63.6655(f)(2) | 40 CFR 63.6640 (f)(2)(i) | Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: < 100 hours in a calendar year | Hour Meter and Records | C & P/M | Continuous Yes | |
| Operating Hours | 40 CFR 63.6625(f) and 63.6655(f)(2) | 40 CFR 63.6640 (f)(4) | Operating Hours for Non-Emergency Operation: < 50 hours in a calendar year | Hour Meter and Records | C & P/M | Continuous Yes | |
| Maintenance | 40 CFR §63.6625(f); 63.6655(e) | 40 CFR §63.6603(a) | Every 500 hours or annually, whichever comes first: Change oil and filter; unless following oil analysis program under §63.6625(j) | Non-resettable Hour Meter; Records | C P/E | Continuous Yes | |
| Maintenance | 40 CFR §63.6625(f); 63.6655(e) | 40 CFR §63.6603(a) | Every 1000 hours or annually, whichever comes first: Inspect spark plugs and replace as necessary | Non-resettable Hour Meter; Records | C P/E | Continuous Yes | |
| Maintenance | 40 CFR §63.6625(f); 63.6655(e) | 40 CFR §63.6603(a) | Every 500 hours or annually, whichever comes first: Inspect hoses and belts and replace as necessary | Non-resettable Hour Meter; Records | C P/E | Continuous Yes | |

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**TITLE V SEMI ANNUAL MONITORING REPORT (1/1/2017 – 6/30/2017)**
**PERMITTED UNITS: S-16 MICROTURBINE, AND S-17 MICROTURBINE**

| Type of Limit | Monitoring Requirement Citation | Citation of Limit | Limit | Parameter Monitored | Monitoring Frequency * (P/C) | Compliance | Comments/Corrective Action Taken |
|---|---|---|---|---|---|---|---|
| TOC (Total Organic Compounds Plus Methane) | BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 16065, Part 15c | BAAQMD 8-34-301.2 | ≤ 1000 ppmv as methane (component leak limit) | Quarterly Inspection of Control System Components with Portable Analyzer and Records | P/Q | Continuous Yes | |
| Non-Methane Organic Compounds (NMOC) | BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 24989, Parts 2 and 3 | BAAQMD 8-34-301.4 | ≥ 98% removal by weight OR < 120 ppmv, dry basis @ 3% $O_2$, expressed as methane | Source Tests and Records | P/A | Continuous Yes | |
| Volatile Organic Compounds (VOC) | CCR Title 17 Section 95204 | BAAQMD Condition # 24989, Part 1 | ≤ 1.0 lbs/MW-hr | CARB Certification | P/E | Continuous Yes | |
| $NO_x$ | CCR Title 17 Section 95204 | BAAQMD Condition # 24989, Part 1 | < 0.5 lbs/MW-hr | CARB Certification | P/E | Continuous Yes | |
| CO | CCR Title 17 Section 95204 | BAAQMD Condition # 24989, Part 1 | < 6.0 lbs/MW-hr | CARB Certification | P/E | Continuous Yes | |

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