

Stipulated Conditions

Condition	Stipulated
3(c)(i) (new)	<p><u>Respondent shall finalize design and installation of sulfur treatment system(s) through adoption of post-combustion control. Respondent shall proceed with finalizing design of the post-combustion sulfur treatment system(s), and shall develop a final procurement and installation timeline, through coordination and contracting of appropriate consultants, vendors, manufacturers, and installers, as needed. The system(s) shall be designed following the direction of the U.S. EPA under the Unilateral Administrative Order (“UAO”) and U.S. EPA’s letter issued October 19, 2026 re <i>Amended Additional Work required under UAO for Gas Collection and Control System Improvements</i>, as further modified by the U.S. EPA. Respondent shall submit the workplan(s) submitted to the U.S. EPA to South Coast AQMD within 24 hours of submittal to the U.S. EPA. Any updates to the workplan shall be submitted to South Coast AQMD within 24 hours of submittal to the U.S. EPA. Updates on current contract, design, and schedule status shall be provided in the monthly report pursuant to Condition 8(--) until the installation timeline/schedule has been finalized and provided to South Coast AQMD.</u></p>
3(e)	<p><u>Respondent shall conduct source testing for post-combustion SOx control equipment installed on any thermal oxidizer or flare, according to the following requirements:</u></p> <ul style="list-style-type: none"> <u>i. Respondent shall conduct an initial source test on the equipment at the maximum flow rates achievable at the time. The initial source test shall be conducted no later than 180 days after initial startup of the SOx control equipment. Thereafter, source testing shall be conducted according to the associated combustion equipment testing schedule specified in Condition No. 22.</u> <u>ii. Initial and subsequent testing shall be conducted at the maximum flow rates achievable at the time, and consistent with the requirements of Condition No. 22(a)(i. through iv).</u> <u>iii. Source test protocol(s) shall be submitted consistent with the requirements of all parts of Condition No. 22(b).</u> <u>iv. Source test report(s) shall be submitted according to the requirements of Condition No. 22(d), excluding subparts 22(d)(i) through (xv) for the initial source test, unless otherwise required for determination of SOx emissions and sulfur control efficiency, and shall include testing of the inlet to the equipment and equipment exhaust for the following:</u> <ul style="list-style-type: none"> <u>1. SOx (ppmv, lb/hr)</u> <u>1.2.Sulfur control efficiency (by weight).</u> <u>2.3.Hydrochloric acid (ppmv, lb/hr)</u>

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7	<p>Respondent shall maintain a record of the following information, and provide such records to the South Coast AQMD pursuant to Condition No. 8:</p> <p>a. The hourly and daily flow of landfill gas <u>and leachate vapor</u> combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G73696, A/N 645450; flare No. 3 under A/N 624296), the thermal oxidizer/flares, and any other equipment used to combust or control landfill gas <u>and leachate vapors</u> at the facility, and the total amount of landfill gas <u>and leachate vapors</u> combusted at the facility. <u>Once leachate vapors are routed to the thermal oxidizers/flares as required by the U.S. EPA, Respondent may report leachate vapor flow sent to the south TOX station (TOX units 1 and 6) together, as opposed reporting flow to each unit;</u></p> <p>b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; <u>and</u></p> <p>c. The results of the sulfur readings, sampling, and analyses, calculated as H2S with the time and date when each measurement or sample collection was conducted; and</p> <p>d. The results of the daily gas heat ratings, with time and date when each sample was collected, the sampling location, and the type of gas sampled (e.g. landfill gas, landfill gas and leachate vapor mix).</p>
8(b)	<p>The <u>leachate vapor flow and</u> landfill gas <u>and leachate vapor</u> records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format. If the <u>leachate vapor flow or</u> landfill gas <u>or leachate vapor</u> records show any landfill gas <u>or leachate vapor</u> combustion/control equipment (flares or thermal oxidizers) are offline for a period exceeding 7 consecutive calendar days, or offline for more than 15 calendar days in any one calendar month, Respondent shall report a detailed description of the reason(s) the equipment was offline (equipment breakdown, maintenance, construction, whether there was sufficient landfill gas control redundancy to control the collected landfill gas, etc.).</p>
8(g)	<p>All wellhead temperature, <u>pressure</u>, temperature probe, CO concentration measurements for those wells requiring analytical data, H2 concentration measurements for those wells requiring analytical data, CH4 measurements, O2 measurements, CO2 measurements, CH4:CO2 ratios, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format. -Beginning with the report submitted on October 20, 2026, if a request from Respondent is approved in writing by South Coast AQMD, Respondent may stop including this information in the monthly reports, except for all lab analysis for landfill gas from the past month, which Respondent shall continue to provide in a Microsoft Excel spreadsheet format.</p>

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8(j)	<p>Beginning with the report submitted on October <u>November</u> 20, 2026, updates on the investigation into the availability, viability, and feasibility, of post-combustion SOx control equipment, including updates on the investigation, report, and subsequent design and installation progress and timeline, updates on the post-combustion SOx control equipment contract, design, procurement, and installation timeline, pursuant to <u>Conditions 3(c)(i).</u> <u>Additionally, Respondent shall provide monthly updates relating to the design, procurement, and installation of the supplemental fuel system(s) under Condition 3(e)-104(d).</u> Updates are no longer required once the associated equipment and systems have been installed, with updates on contracts, design, procurement, and installation no longer applicable.</p>
8(m)	<p>Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15; an updated vertical extraction well map detailing all existing fully functional working vertical extraction wells and the vertical extraction well additions completed within the month; a map showing an overlay of fully operational working wells and landfill surface monitoring grids, and outlines of the areas demarcated as exempt in the attached Exhibit A pursuant to Condition 15(b); copies of as-built well <u>drilling logs/borehole reports (containing, at a minimum, the well ID, drilling date(s) and times, location, well material, well pipe size, well seal type, surface/bottom liner/perforated pipe/boring hole elevations and/or depths, drilling notes and comments, and incremental drill depths with waste composition, temperatures, decomposition, moisture, associated photographs of the waste encountered, and an as-built diagram of the well) logs (regarding well depth installations and updates)</u> for vertical extraction wells completed within the month; an updated map or drawing of as-built landfill gas collection and conveyance infrastructure, current with respect to any substantial modifications to the main headers of the landfill gas collection and control system, with the boundaries of the Reaction <u>Mitigation</u> Area included; a table in Microsoft Excel format, <u>containing the following information for all vertical extraction wells installed site-wide (within and outside the initial 9(a) reaction area): detailing</u> vertical extraction well IDs <u>for all existing wells</u>, installation dates, desired and/or required drill depth per Condition 15(b), <u>actual</u> drill depth achieved, if the well has a dewatering pump, and, to the extent available, the most recent liquid level readings (date, time, values); <u>including field liquid level measurements and any other available liquid level readings (other than the Lorentz pump data);</u> and a map displaying the as-built wellfield, with visual indication of wells which are and are not at desired depths.</p>

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8(r)	<p>Daily landfill gas <u>higher heating value (HHV) (BTU/scf) and composition analysis, to the extent such data is provided by the laboratory by the 15th of the month</u>, including CH₄%, <u>H₂%</u>, CO concentration (ppm), CO₂%, and O₂%, as recorded <u>through sample collection and through monitoring</u> by a real time analyzer and/or sample collected, at the inlets of the control equipment (TOx, Flares, and any additional control equipment brought on site to combust landfill gas), in a Microsoft Excel spreadsheet format. The<u>The HHV analysis shall be conducted pursuant to ASTM Method D3588-98 or subsequent method. The CH₄%, H₂%, CO₂%, and O₂% analysis shall be conducted pursuant to ASTM Method D1946. The CO analysis shall be conducted pursuant to U.S. EPA Method 10 or Method ALT-144. The analyzer monitoring (CH₄%, CO₂%, O₂%) analysis shall be conducted by a South Coast AQMD approved analyzer for CH₄, CO₂, or O₂ and analyzed pursuant to U.S. EPA Method 10 or Method ALT-144 for CO and O₂. In the event that data is provided by the laboratory after the 15th of the month, the data shall be included in the subsequent monthly report.</u> Request for approval shall include submittal of analyzer specifications. Beginning with the report submitted on October 20, 2026, if a request from Respondent is approved in writing by South Coast AQMD, Respondent may remove this data from the monthly reports.</p>
8(t)	<p>Operating temperature records (per minute <u>for Zeeco units and every two minutes for other units</u>) and pilot fuel/supplemental fuel types and usage rates (hourly), to the extent that data is known, of each landfill gas flare and thermal oxidizer <u>and leachate vapor control equipment (e.g. thermal oxidizer(s))</u> from the past month in a Microsoft Excel spreadsheet format. Beginning with the report submitted on October 20, 2026, if a request from Respondent is approved in writing by South Coast AQMD, Respondent may remove this data from the monthly reports.</p>
9(b)	<p>Respondent shall review applicable data to determine the extent and boundary of the Reaction Mitigation Area. Respondent shall consider revision to this data-determined Reaction Mitigation Area boundary, as frequently as appropriate but shall make a determination about the data-determined Reaction Mitigation Area boundary and the Condition 9(a) Reaction Mitigation Area the at least once per month. The determination shall be made by review of the below reaction-indicating parameters:</p> <ol style="list-style-type: none"> 1. Vertical landfill gas wellhead temperatures (greater than 160 degrees Fahrenheit), 2. Temperature probe measurements (greater than 170 degrees Fahrenheit for more than 3-weeks at any depth), 3. Landfill gas quality and methane to CO₂ ratio (methane levels of less than 30 percent in conjunction with methane to CO₂ ratios less than 1.0), 4. Landfill gas concentration of carbon monoxide (greater than 1,500 ppm), to the extent measured, 5. Landfill gas concentration of hydrogen (greater than 2 percent by volume), to the extent measured, 6. Landfill settlement (18 inches or greater within a 60-day period),

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	<p data-bbox="436 235 861 267">7. Pressurized leachate releases.</p> <p data-bbox="386 293 1892 1417"> The determination shall include a cumulative evaluation of <u>all</u> parameters within each individual landfill surface grid within the Main CayonCanyon (i.e., excluding grids 21-29, 105-107 [Canyon B] and grids 1-20, 108-144 [Primary Canyon], including all wells, temperature probes, and other characteristics within that grid's area. <u>If a parameter within a grid or at a well is not measured during a subject month, the most recent available data for that parameter within that grid and/or at that well shall be used for the determination.</u> For each individual landfill grid that is contiguous to the prior month's Reaction Mitigation Area, where any three (3) or more parameters listed above indicating reaction conditions are present at the time of evaluation, including any combination of wells, temperature probes, or areas within the grid, Respondent shall revise the Condition 9(b) data-determined Reaction Mitigation Area boundary and the Reaction Mitigation Area map as defined in Condition 9(a) to include such landfill grid(s). <u>Respondent shall not remove any grids that have been included as part of Reaction Mitigation Area unless the grid exhibits less than 3 parameters for 3 consecutive months, or unless otherwise approved by South Coast AQMD.</u> Beginning with the report due July 10, 2026, for each individual landfill grid that is not contiguous to the prior month's Reaction Mitigation Area, if the three parameters present do not include a temperature parameter (parameters 1 and 2 above), then Respondent shall conduct confirmatory sampling -to determine whether the grid should be included in the Reaction Mitigation Area. Respondent shall first conduct field testing for CO using colorimetric tubes with a lower limit of 100 ppm and for H2 using field instrumentation with a lower limit of 2% by volume. Beginning with the report due August 10, 2026, Respondent shall field test for H2 using instrumentation with a lower limit of 1% by volume. If field testing confirms the presence of either of these two parameters above the lower limits, Respondent shall pull a sample for lab analytical testing using Method ALT-144 for CO and Method 1946 for H2. If the lab testing confirms either of these parameters above the concentrations listed in parameters numbers 4 and 5 above, then Respondent shall include this grid cell within the Reaction Mitigation Area. <u>If lab data is received after the report due date, a subsequent revised Reaction Mitigation Area Determination Report shall be submitted within 5 working days (Mon-Fri) of receiving the results, including discussion of the results, and adjusted Reaction Mitigation Area map (as applicable).</u> For each individual landfill grid that is not contiguous to the prior month's Reaction Mitigation Area, if the three parameters present include a temperature parameter, then the grid shall be added to the Reaction Mitigation Area. In addition to the listed parameters, Respondent may also consider for the determination of the Reaction Mitigation Area boundary, also using an individual landfill grid-based evaluation: leachate seeps, odor characteristics, wellheads experiencing conditions which would be expected to result in a PLR (e.g. elevated pressure, elevated temperature, liquid flow through wellhead), and waste cuttings according to borehole drilling logs. Supporting evidence, including documentation of which parameters were met or exceeded for each individual landfill grid, field testing and laboratory results (if applicable), <u>explanationjustification</u> for the determination, <u>review and</u> </p>

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	<p><u>analysis of any spikes or outliers in the landfill data provided in the report</u>, revised Reaction Mitigation Area boundary, Reaction Mitigation Area map (if applicable), isothermal gradient range map consisting of wellhead temperature measurements, wellhead carbon monoxide range map, wellhead hydrogen range map, wellhead CH₄:CO₂ ratio range map, monthly landfill settlement isopach maps and 60-day isopach map, wellhead and temperature probe map with surface grids displayed, and vertical temperature profiles for temperature probes shall be submitted to the South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] no later than 10 days following the end of the month, or the next working day. Each map specified above shall include an outline of the Reaction Mitigation Area boundary. The carbon monoxide map shall include differentiated concentration ranges of < 500 ppmv, ≥ 500 and < 1,000 ppmv, ≥ 1,000 and < 1,500 ppmv, ≥ 1,500 and < 2,000 ppmv, ≥ 2,000 and < 5,000 ppmv and ≥ 5,000 ppmv. The hydrogen map shall include differentiated hydrogen concentration ranges of < 2%, ≥ 2 and < 5%, ≥ 5 and < 10%, and ≥ 10%. The CH₄:CO₂ map shall include differentiated ratios of < 0.5, ≥ 0.5 and < 0.9, ≥ 0.9 and < 1.1, ≥ 1.1 and < 1.5, and ≥ 1.5. The landfill settlement isopach map shall include a color scale to demonstrate severity of settlement for the entire landfill and shall be updated at least once monthly. The vertical temperature profiles for the temperature probes shall include graphical display of the initial maximum temperature data obtained from the probes in the first four weeks of their operation, and the latest 10 weeks of maximum temperature data.</p>
22(d)	<p>Source test report(s) shall be submitted to the South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)] no later than <u>45-60</u> days after completion of the source test, unless otherwise approved in writing by the South Coast AQMD. Combustion equipment testing and source test reports shall include, but not limited to, unless-unless otherwise approved in writing by South Coast AQMD, a test of the inlet to the equipment and the equipment exhaust for:</p> <ul style="list-style-type: none"> i. Methane (lb/hr) (semi-annually for primary; at every testing for backup). ii. VOC/Non-Methane Organic Compounds (NMOC) as hexane (lb/hr, lb/MMBtu, ppmvd, ppmvd @ 3% O₂) (semi-annually for primary; at every testing for backup). iii. Speciated organics including, but not limited to Rule 1150.1 Table 1 Carcinogenic and Toxic Air Contaminants (ppmv, lb/hr) (semi-annually for primary; at every testing for backup). iv. Additional Toxic Air Contaminants, including TACs analyzed by EPA Method TO-15 (including acrolein and additionally at least the ten highest concentration compounds tentatively identified from the flux chamber studies conducted pursuant to Condition 12(i)) (semi-annually for primary; at every testing for backup), aldehydes pursuant to CARB Method 430 (annually for primary; at every testing for backup), and simultaneous

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	<p>testing of metals and hexavalent chromium pursuant to CARB Method 436 and CARB Method 425 (annually for primary; at every testing for backup), respectively. Respondent shall split samples and provide split samples to South Coast AQMD for speciated organics and TACs under Condition 22(d)(iii and iv), <u>or as otherwise approved in writing by South Coast AQMD</u> (semi-annually for primary; at every testing for backup).)</p> <p>v. NOx, as NO2 (exhaust only, lb/hr, lb/MMBtu) (annually for primary; at every testing for backup).</p> <p>vi. CO (exhaust only, ppmvd with 15 minute average, lb/hr, lb/MMBtu) (annually for primary; at every testing for backup).</p> <p>vii. Total Particulates (PM10) (exhaust only, lb/hr, grains/dscf) (annually for primary; at every testing for backup).</p> <p>viii. Oxygen and Carbon Dioxide (percent by volume).</p> <p>ix. Moisture Content (percent by volume).</p> <p>x. Temperature (exhaust only).</p> <p>xi. Flowrate of inlet landfill gas and exhaust gas (scfm).</p> <p>xii. Total Sulfur Compounds as Hydrogen Sulfide and speciated sulfur compounds (inlet only, ppmv) (annually for primary; at every testing for backup).</p> <p>xiii. Btu Value (HHV) (inlet only, -Btu/scf).</p> <p>xiv. Nitrogen (exhaust only, percent by volume).</p> <p><u>xv. Methane and VOC/NMOC destruction efficiency (by weight).</u></p> <p><u>xv. xvi. Chlorinated compounds (ppmv, lb/hr) including the complete range of chlorinated compounds under U.S. EPA Method TO-15 and hydrochloric acid (HCl) per an appropriate method as determined in writing by South Coast AQMD, or as otherwise approved in writing by South Coast AQMD (starting with source tests whose protocol submittals, per Condition 22(b) are required to be submitted after October 29, 2026; semi-annually for primary; at every testing for backup)</u></p>
34(a)(iii) (new)	<p><u>By December 31, 2026, Respondent shall implement a monthly process by which publicly facing air monitoring data are updated with all final, quality-controlled data. Until the device manufacturer is able to set up an electronic audit trail, original data points shall be preserved in an Excel spreadsheet created for any updated data points, along with appropriate quality control flags for each. Once the electronic audit trail is set up and implemented, original data points shall be preserved with the audit trail created for any updated data points, along with appropriate quality control flags for each.</u></p>

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34(a)(iv) (new)	<p><u>For any instrumental or monitor issue resulting in a failure to publicly report air monitoring data for more than three hours, a notice shall be clearly posted on the webpage created pursuant to Condition 39. This notice shall indicate the affected monitoring site, parameters, and that Respondent shall restore reporting of the data as soon as possible. An email notification shall also be sent to South Coast AQMD [Stephen Dutz, (sdutz@aqmd.gov); and Angela Haar, (ahaar@aqmd.gov)] with the same information. The notice and email shall be completed within 24 hours of the initial missing data.</u></p>
34(d)	<p>Respondent shall investigate any measurement which results in an exceedance notification being distributed as defined in Condition 34. The investigation should include a review of meteorological conditions in the area near the exceedance event, review of monitors downwind of the exceedance event, review of landfill activity that may have contributed to the exceedance event (e.g. nearby construction, traffic, cracks in soil, tears in liner, flare downtime, etc.), review of recent activity at the monitoring site for any correlation with the exceedance measurement, review of other environmental factors that may have impacted the measurement, <u>review of the TO-15/TO-15A triggered canister sample (as outlined in Condition 34(g))</u>, and review of any instrument data and data validation/invalidation recommendation(s) provided by the instrument vendor. Within one business day, Respondent shall submit to South Coast AQMD [attn: Stephen Dutz, sdutz@aqmd.gov; Kathryn Roberts, kroberts@aqmd.gov; Mary Reichert, mreichert@aqmd.gov] a preliminary report of its investigation and findings. Full documentation of the above investigation shall be submitted to South Coast AQMD [attn: Stephen Dutz, sdutz@aqmd.gov; Kathryn Roberts, kroberts@aqmd.gov; Mary Reichert, mreichert@aqmd.gov] within four business days, noting any remediation activity or corrective action that took place, along with recurrence minimization if the measurement is found to be invalid. <u>If Respondent does not receive the Condition 34(g) analytical data from the laboratory in time to include it within the submission of the investigation documentation, Respondent shall submit the data and, if needed, a supplemental report, to South Coast AQMD within 2 business days of receipt of the data.</u></p>

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34(e)	By December 31, 2025, Respondent shall retain sufficient third-party support to ensure that all CH ₄ , H ₂ S, PM, and meteorological sensors meet data quality objectives identified by the instrument vendor or outlined in the standard operating procedures or quality assurance documentation; and are maintained, calibrated, and replaced in accordance with the instruments' standard operating procedures or quality assurance documentation. <u>Maintenance, inspection, or replacement schedules and/or performance tests for consumable parts shall be set at a frequency no less than 80% of the manufacturer's recommendation or the third-party support's recommended maintenance, inspection, or replacement frequency, whichever is shorter.</u> For any measurement that results in an exceedance notification being distributed as defined in Condition No. 34, the entity/ies must also provide <u>Respondent shall ensure it obtains the</u> instrument data and a data validation/invalidation recommendation to Respondent from the appropriate entity/ies sufficient for Respondent to meet the time frames allotted by Condition 34(d) above.
34(f)	By December 31, 2025, Respondent shall retain sufficient third-party support to ensure that all microGC instruments meet data quality objectives identified by the instrument vendor or outlined in the standard operating procedures or quality assurance documentation; and are maintained, calibrated, and replaced in accordance with the instruments' standard operating procedures or quality assurance documentation. <u>Replacement schedules for sensor modules should be set at a frequency no less than 80% of the manufacturer's recommendation or the third-party support's recommended replacement frequency, whichever is shorter.</u> <u>Maintenance, inspection, or replacement schedules and/or performance tests for consumable parts should be set at a frequency no less than 80% of the manufacturer's recommendation or the third-party support's recommended maintenance, inspection, or replacement frequency, whichever is shorter.</u> For any measurement that results in an exceedance notification being distributed as defined in Condition No. 34, the entity/ies must also provide instrument data and a data validation/invalidation recommendation to Respondent sufficient to meet the time frames required by Condition 34(d).
34(g) (new)	<u>By December 11, 2026, unless otherwise approved by South Coast AQMD in writing, Respondent shall install a system on each microGC that collects a 1-hr time-integrated canister sample immediately after a benzene concentration is reported to exceed the OEHHA Acute REL. The sample shall be retrieved and submitted to a laboratory within 1 business day of the collection event, to be analyzed by EPA TO-15/ TO-15A via 1-day turnaround time with results reported to the South Coast AQMD [Stephen Dutz, (sdutz@aqmd.gov), Angela Haar, (ahaar@aqmd.gov), and Lab Results, (labresults@aqmd.gov)] and posted publicly within 1 business day of receipt of the analytical results from the laboratory. A new canister shall be installed within 2 business days of the event, if the canister has not yet been replaced since the last sampling event, Respondent shall not have to collect a new sample</u>

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	<u>immediately after a benzene exceedance at that same microGC. Once the canister is replaced, Respondent shall begin sampling immediately following an exceedance again.</u>
34(h) (new)	<u>Within 30 days, Respondent shall identify a portable benzene analyzer with a detection limit of 10 ppb or less and submit the recommendation to South Coast AQMD. Upon receiving approval from South Coast AQMD, within an additional 60 days, Respondent shall procure and conduct field and lab tests to confirm the recommended analyzer can reliably measure a concentration of 10 ppb benzene. Results of this testing shall be provided to South Coast AQMD. If the results confirm that the analyzer can reliably measure a concentration of 10 ppb benzene and South Coast AQMD concurs, Respondent shall place the analyzer into use. If the results confirm that the analyzer cannot reliably measure a concentration of 10 ppb benzene, Respondent and South Coast AQMD shall meet and confer regarding whether another analyzer should undergo confirmatory field and lab testing. In response to any benzene exceedance of the OEHHA Acute REL at a monitoring station, unless otherwise approved by South Coast AQMD, the approved portable benzene gas detector shall be collocated at the monitoring site and used to obtain three discrete measurements of at least one minute each, distributed over the course of 30 minutes. The results of these measurements shall be reported to South Coast AQMD [Stephen Dutz, (sdutz@aqmd.gov); and Angela Haar, (ahaar@aqmd.gov)] and posted publicly within 5 hrs of an exceedance reported between 6am-6pm, and by 11am for an exceedance reported between 6:01 pm and 5:59 am.</u>
34(i) (new)	<u>If any microGC downtime due to a malfunction exceeds 48 hours, appropriate action should be taken to replace the malfunctioning microGC and put into service a spare instrument within three business days, or as otherwise approved by South Coast AQMD.</u>
40	Respondent shall host a public one-hour community meeting once each calendar month following a month in which Respondent receives three or more Rule 402 NOVs from the South Coast AQMD. If Respondent does not receive three or more Rule 402 NOVs from the South Coast AQMD in a calendar month, Respondent does not need to host a community meeting during the following month. During each meeting, Respondent shall provide updates with regards to implementation of this Order and make time available for public comment on matters related to CCL. The meeting date and time and format (in-person or virtual) shall be announced via Respondent's website <u>at a central</u>

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	<p><u>location where all other Upcoming Public Meetings are announced, at least 7 days in advance of the scheduled meeting,</u> and shall also be sent via email to everyone who has signed up for email notifications on Respondent’s website. The announcement shall include a link and dial-in information to the virtual platform used to conduct the meeting, or if the meeting is in-person, the location of the meeting. All meetings held in person shall adhere to all applicable public health guidelines and shall take place within the Val Verde community. Any presentation, meeting materials, or other media created or shared by Respondent at such community meeting shall be posted to Respondent’s Odor Mitigation webpage via hyperlink, including a brief narrative description of the materials.</p>
70	<p>Respondent shall, by June 28, 2024, submit a report on the landfill’s current landfill gas generation and projected landfill gas generation for the next five calendar years, through the end of calendar year 2029. The current and projected landfill gas generation shall be estimated through use of U.S. EPA’s Landfill Gas Emissions Model (LandGEM), and the Reaction Committee’s analysis for additional landfill gas generated as a result of the ongoing reaction. The report shall include, at a minimum, the following items:</p> <ul style="list-style-type: none"> a. LandGEM inputs, assumptions, and results; b. Reaction Committee analysis and associated rationale and supporting data or information. <u>This shall include, but is not limited to an analysis of waste volume, expected gas generation increase from reaction area waste (as compared to normal expected gas generation rates), and an evaluation of the existing reaction area based on temperature probe data, temperature probe depth, well depth, landfill liquid levels, wellhead temperature data, wellhead gas composition data (methane %, methane/CO2 ratio, H2, CO), leachate seeps, odor characteristics, PLRs, wellheads experiencing conditions which would be expected to result in a PLR (e.g. elevated pressure, elevated temperature, liquid flow through wellhead), and waste cuttings according to borehole drilling logs; and</u> c. A comparison of the estimated landfill gas generation, both current and projected, with the landfill’s flaring capacity as based on actual operational flaring capacity or expected capacity for flares or thermal oxidizers not yet installed, both current and proposed, assuming one or more flares or thermal oxidizers are offline due to maintenance, overhaul, or other unforeseen circumstances. <p>By July 10, 2026, <u>and according to any timeline subsequently required by U.S. EPA,</u> Respondent shall submit updated report(s), including at a minimum, the items mentioned in 70(a), (b), and (c) above, <u>or as otherwise required by U.S.</u></p>

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	<p><u>EPA</u>. Based on the report findings, if the landfill gas generation is expected to exceed the landfill's flaring capacity when one or more flares or thermal oxidizers are offline, Respondent shall start the planning and procurement process for the addition of an additional flare, thermal oxidizer, or other landfill gas combustion/control equipment and ensure sufficient redundant control capacity (meaning at least one additional control unit, equivalent in landfill gas combustion capacity to the largest control unit on site, and whose operational capacity is not required to combust the quantity of gas estimated in the LandGEM) to handle all generated landfill gas, assuming any one or more unit(s) is offline.</p> <p>a. Respondent shall submit, by October 31, 2024, a complete permit application for the new construction of a Landfill Gas Flare (Flare No. 5), and modifications of Flare 1 & 2 (G73696, A/N 645450), Flare 3 (A/N 624296), and Flare 4 (A/N 647996) to the extent necessary, to increase the landfill gas control capacity. The submittals shall be accompanied with a complete Title V Revision application and shall be submitted with an expedited permit processing request and associated required fees, forms, and information.</p>
81(a)	<p>Downtime of 30 Minutes or Longer:</p> <p>i. — Respondent shall provide the notification required by this Condition 81 for any individual control device <u>or combination of devices</u> that has downtime which is anticipated to last 30 minutes or more, or once any downtime for an individual control device <u>or combination of devices</u> reaches 30 minutes of downtime; <u>and-</u></p> <p>ii. — If the downtime of any combination of landfill gas collection equipment results or is planned to result in a reduction of gas flow to control devices by 10% or more (compared to the gas flow prior to the downtime of the first device), or is occurring during an existing downtime event with gas flow already decreased by 10% or more, and the total site-wide landfill gas flow drops below 15,500 cfm, Respondent shall provide the notification required by this Condition 81 for any such control devices that have downtime which is anticipated to last 30 minutes or more, or once any downtime for such devices reaches 30 minutes of downtime.</p>
82(a)	<p>Downtime of 30 Minutes or Longer:</p> <p>i. — Respondent shall provide the notification required by this Condition 82 for any individual control device <u>or combination of devices</u> that has downtime which is anticipated to last 30 minutes or more, or once any downtime for an individual control device <u>or combination of devices</u> reaches 30 minutes of downtime; <u>and-</u></p> <p>ii. — If the downtime of any combination of landfill gas collection equipment results or is planned to result in a reduction of gas flow to control devices by 10% or more (compared to the gas flow prior to the downtime of the first device), or is occurring during an existing downtime event with gas flow already decreased by 10% or more, and the total site-wide landfill gas flow drops below 15,500 cfm, Respondent shall provide the notification required by this Condition 82 for any such control devices that have downtime which is anticipated to last 30 minutes or more, or once any downtime for such devices reaches 30 minutes of downtime.</p>

Condition	Stipulated
82(b)	<p>This notification shall include an initial notification 24 hours prior to the planned shutdown event, unless the event is planned less than 24 hours before the planned downtime, Respondent shall provide the notification as soon as possible, within 1-hour of finalizing plans for the downtime if such plans are finalized within working hours (i.e., 7am to 6pm, Monday through Friday and 8am to 5pm Saturday and Sunday). After working hours, Respondent shall provide the notification as soon as possible, not to exceed 2 hours from the start of the next working day. For unplanned downtime, notification shall occur within 1-hour of reasonable discovery of any control equipment issue resulting in unplanned downtime made during the working hours. After working hours, Respondent shall provide the notification as soon as possible, not to exceed 2 hours from the start of the next working day. Respondent shall also provide a subsequent additional notification and follow-up written report within 48 hours of startup and operation of the equipment after the downtime event is corrected <u>if such startup and operation occurs during business hours (i.e., 7am to 6pm, Monday through Friday). If 48 hours after startup and operation occurs after business hours, Respondent shall provide the subsequent additional notification and follow-up written report as soon as possible, not to exceed 4 hours from the start of the next business day.</u> The initial notification, and subsequent notifications/follow-up report shall include the following items, unless otherwise noted below: ...</p> <p>vi. A running log of all combustion equipment downtime events reported pursuant to Condition 82, <u>and any additional downtime events exceeding 30 minutes of individual equipment downtime</u>, including the equipment name (e.g., Flares 1, 2, 3, or Zeeco 1, Zeeco 6, Zeeco 7, Parnel, Hero, or other unit), planned or unplanned event, estimated (initial notification) and actual (subsequent notification/follow-up report) start date and time of each event, estimated (initial notification) and actual (subsequent notification/follow-up report) end date and time of each event, estimated (initial notification) and actual (subsequent notification/follow-up report) duration of downtime in minutes, and reason(s) for downtime in an Excel format. The information shall be clearly displayed for all downtime events and combustion equipment in rows within one Excel sheet, allowing quick determination of the downtime details for any equipment or combination of equipment, including simultaneous downtime events.</p> <p>...</p>

Condition	Stipulated
	<p><u>viii. Estimated site-wide reduction in gas flow (scfm), including the site-wide pre-downtime gas flow (scfm), gas flow (scfm) during the downtime event, and post-downtime gas flow (scfm), including the calculations for site-wide gas flow rates within the Microsoft Excel sheet provided under Condition 82(b)(v).</u></p>
86(d)	<p>The liquid treatment system, leachate tanks, sludge/solids handling equipment and tanks, and any other equipment associated with the treatment or storage processes shall be fully enclosed, under vacuum, and vented to appropriate control <u>which achieves a minimum destruction efficiency of 98% for total organic compounds (TOC)</u> (i.e. flare station and/or thermal oxidizer(s)). This does not include the liquid treatment granular activated carbon adsorbers, or liquid filtration equipment which operate under positive pressure. Storage tanks and aeration tanks with vapor headspace shall not be excluded from the requirements of Condition No. 86(d).</p>
104	<p>Respondent shall contract John Zink, and/or other appropriate landfill gas combustion equipment design or installation company, to assist in designing and installing a supplemental fuel (natural gas or propane) system or systems, to allow the operational ability to enrich the landfill gas, landfill gas/leachate vapor mixture, and/or leachate vapor controlled in the landfill gas flares (flares 1, 2, 3, 4, and/or 5 as applicable). The system shall be designed and installed to ensure landfill gas, landfill gas/leachate vapor mixture, and/or leachate vapor with low methane content can be sufficiently enriched, to allow continued operation of the flares, maintaining of flame in the flare burners, sufficient control of the collected gas, and maintenance of a flare stack temperature above 1400 degrees Fahrenheit. The system shall be used by Respondent, as necessary. The system(s) shall include a supplemental fuel flow recorder, with fuel records submitted in the monthly report, in accordance with Condition 8(t). Respondent shall complete the design and installation, according to the following timeline:</p> <ul style="list-style-type: none"> a. By July 31, 2026, provide written confirmation from the existing manufacturers for Flares 1, 2, and 3 of the minimum landfill gas methane content necessary to ensure destruction efficiency of methane and NMOC consistent with regulatory requirements. The highest minimum content of these three flares shall provide the required minimum content for Condition 104(c), below. b. By July 31, 2026, provide written documentation from a qualified installer stating the proposed timeline (as expedited as feasible) for installing supplemental fuel system(s). c. If Respondent's collected data results in an average weekly methane content in the combined gas being routed to Flares 1, 2, and 3 within 2.5 percentage points of the minimum required content pursuant to Condition 104(a), Respondent shall begin installation of the supplemental fuel system(s) per Respondent shall design and install the

Condition	Stipulated
	<p><u>required supplemental fuel system(s). Design and installation shall be completed by March 5, 2027 or according to the timeline established in Condition 104(b).</u></p> <p>Extensions to the proposed schedules may be allowed, if approved by South Coast AQMD in writing.</p>
106	<p>Respondent shall, by June 26, 2026, provide South Coast AQMD staff with continuous web access to all well, mapping, probe, and test port data in SCS eTools, and data query and temperature monitoring probe data in RMC. Access shall initially be provided to Dr. Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov) and Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and additionally shall be provided to any additional South Coast AQMD staff within 30 days of written request by South Coast AQMD.</p> <p>a. <u>Respondent shall, by November 13, 2026, provide South Coast AQMD staff as listed above with continuous web access to all available digital control equipment data within the SCS eTools or RMC programs, as applicable, to include data query and download access for landfill gas flowrate, stack temperature, and any other data for each landfill gas control device installed on site.</u></p>
107	<p><u>Respondent shall provide the latest as-built map of the entire landfill gas collection and control system, including headers, wells, sumps and sump pumps, leachate tanks, landfill gas treatment system(s), landfill gas control equipment, temperature probes, perimeter probes, isolation valves, and blind flanges. The map shall also overlay the latest Reaction Mitigation Area defined in Condition 9(b). The map shall be provided to South Coast AQMD [Baitong Chen, Air Quality Engineer (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer (ndickel@aqmd.gov); and Christina Ojeda, Air Quality Inspector (cojeda@aqmd.gov)] on a weekly basis, to the maximum extent feasible. If any instance of the map is not able to be provided timely, Respondent shall notify the South Coast AQMD as above, and provide an explanation for the infeasibility and an updated deadline when the map will be provided. The map shall include a legend which identifies, at a minimum, the different sizes and types of headers, types of wells, and types of equipment (TOx/flares, tanks, sumps, blowers, etc.).</u></p>
108	<p><u>Respondent shall install supplementary fuel flow meters for all landfill gas control equipment that currently utilizes supplementary fuel no later than December 15, 2026. Supplementary fuel flow meter(s) to record minute-by-minute data shall additionally be installed for any new supplemental fuel systems installed for landfill gas control equipment. Beginning with the monthly report submitted on January 20, 2027, pursuant to Condition No. 8, Respondent shall provide the supplemental fuel flow data, in scfm, in a Microsoft Excel spreadsheet format.</u></p>

Condition	Stipulated
109	<p><u>Respondent shall operate all landfill gas combustion equipment in accordance with the operating conditions and parameters recommended by the manufacturers. Respondent shall operate all landfill gas combustion equipment to avoid flames being visible above the top of the exhaust stack opening of the enclosed landfill gas flares and thermal oxidizer units. If Respondent confirms that visible flames above the top of an exhaust stack occurred for a continuous period of 15 minutes or more, Respondent shall conduct a root cause analysis and submit a report to South Coast AQMD [Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] within five (5) days of confirming any equipment operating outside of the manufacturer-recommended conditions or parameters, or with visible flames as described above. The report shall include the operating data for all relevant combustion equipment for the 48-hour period before and after the occurrence, including if applicable the operating temperature, landfill gas flow rate, combustion air flow rate, and supplemental fuel gas flow rate in Microsoft Excel spreadsheet format. This condition does not apply to equipment shutdown and downtime, as reported pursuant to Condition No. 82.</u></p>
110	<p><u>Respondent shall comply with all requirements, permit conditions, and compliance plans in Respondent's most recently revised Title V Facility Permit. The requirements in the Title V Permit shall continue under this Order if the permits are canceled, denied, or otherwise become inactive, unless equipment has been removed from the facility, or unless otherwise addressed under the Order.</u></p>
111	<p><u>Respondent shall expand monitoring of landfill gas wells to include carbon monoxide (CO) and hydrogen (H2) sampling and analysis throughout the Main Canyon (i.e., excluding grids 21-29, 105-107 [Canyon B] and grids 1-20, 108-144 [Primary Canyon]). Respondent shall sample and analyze one well in each grid in the Main Canyon for CO and H2 not otherwise sampled for CO and H2 under existing regulatory requirements, or under Condition No. 9(b), by January 18, 2027. Additional sampling and analysis shall take place at least semi-annually thereafter. For the initial sampling event, Respondent shall sample the well with the highest wellhead temperature within the grid. For each subsequent sampling event, Respondent shall rotate which well in each grid is sampled, prioritizing the highest wellhead temperature wells not previously sampled under this condition. Respondent shall first conduct field testing for CO using colorimetric tubes with a lower limit of 100 ppm and for H2 using field instrumentation with a lower limit of 2% by volume. If field testing confirms the presence of either of these two parameters above the lower limits, Respondent shall take a sample from the applicable well for lab analytical testing using Method ALT-144 for CO and Method 1946 for H2, unless otherwise approved in writing by South Coast AQMD. If field testing confirms the presence of only H2 above the lower limit, at a wellhead located within new waste (waste deposited within the last 5 years), Respondent is not required to grab a sample from the well for lab analytical testing. Respondent shall provide</u></p>

Condition	Stipulated
	<u>documentation identifying areas with newly deposited waste, and the associated field testing results for CO and H2, in the monthly report submitted pursuant to Condition 8.</u>
112	<u>Respondent shall ensure all spent treatment media (such as activated carbon, etc.) -removed from the treatment system(s) is stored in closed and secured leak-tight containers at all times. During media replacement spent media shall be directly transferred from the treatment system(s) into the leak-tight enclosed containers, and shall not be exposed to atmosphere except during this media transfer activity. Respondent shall document these activities the same calendar day they are performed, and shall keep and maintain records of each instance of media replenishment or change-out. The records shall include the date of each media replenishment or replacement and the type and amount of media replenished or replaced.</u>
113	Respondent shall return for a status and modification hearing on <u>March 17 (and 18 if necessary), 2027, September 16 (and 17 if necessary), 2026</u> , or as soon thereafter as the Hearing Board can schedule a hearing.
115	The Hearing Board shall retain jurisdiction over this matter until <u>October 31, 2026-2027</u> and at that time this Order shall no longer be of any force or effect, unless this Order is amended, modified, or dissolved before then.