

South Coast AQMD v. Chiquita Canyon (6177-4)
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1(f)	<p>If Respondent, or Respondent’s contractor, as applicable, conducting the odor surveillance detects odors at three or more stops that are determined to be of a strength of 3 or higher on the scale above during any surveillance occurring during Respondent’s operating hours (between the hours of 4:00am and 5:00pm), that are described as chemical, leachate, landfill gas, or similar non-trash landfill odors, Respondent, or Respondent’s contractor, as applicable, shall immediately notify landfill operating staff responsible for the Reaction Area. If such odors are described as trash, Respondent, or Respondent’s contractor, shall immediately notify landfill operating staff responsible for the Working Face Area <u>Well Drilling Activities</u>. Respondent shall designate an employee in each of the Reaction Area and the Working Face-Well Drilling Area(s) able to receive and direct action related to such notifications promptly. Upon receiving such notification for the Reaction Area, Respondent shall, within 30 minutes of receipt, review and initiate modifications, as appropriate, to fan placement, and conduct a visual inspection of the Reaction Area (as defined in Condition 9(a)) to assess, and address as needed, any cracks in the surface of the area. Upon receiving such notification for the Working Face-Well Drilling Area(s), Respondent shall employ all appropriate trash odor mitigation strategies, including taking action pursuant to Condition Nos. <u>15(e) and 43(g)</u>. Respondent shall have trained employee(s) or trained contractor(s) re-perform odor surveillance following deployment of additional mitigation to assess if trash odors have dissipated, and, as applicable, take additional remedial steps pursuant to Condition No. 43(f).</p>
3	<p>Respondent shall expedite, to the maximum extent feasible, replacement of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249), including the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System. Respondent shall ensure adequate stock of all odor control products and supplies are maintained on site. [Reserved; See Appendix 1]</p> <p>a. Respondent shall monitor and record the landfill gas temperature at least daily at the inlet of the Landfill Gas Treatment System. The temperature of the landfill gas shall not exceed 145 F.</p> <p><u>b. Respondent shall investigate and prepare a report on the potential cause(s) of the recent fires within the carbon media vessels. The report shall detail the results of the investigation and shall be submitted 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)] by July 17, 2026.</u></p>

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	<p><u>c. Respondent shall investigate and prepare a report on potential solutions to address the potential cause(s) of the vessel fires identified in the report prepared pursuant to Condition 3(b) and/or build upon the Landfill Gas DMS Treatment Study submitted pursuant to Condition 12(g)(i) and updates submitted as required by Condition 8(j) to identify alternative known and possible pre-combustion H₂S or SO_x control systems, viability of such system(s), and feasibility of operation of such system(s) at the landfill. The report shall detail the results of the investigation, and, if relevant, H₂S or SO_x control systems identified, feasibility of the systems at the landfill, advantages/disadvantages of the control systems, viability and expected H₂S or SO_x control efficiency, expected limitations (if any) due to conditions at the landfill, a list of equipment which may be required for installation (e.g. new carbon media vessel(s), etc.), and a proposed timeline for design, procurement, and installation of such system(s). The report shall be submitted 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)] by August 28, 2026.</u></p> <hr/> <p><u>d. Respondent shall investigate known and possible post-combustion SO_x control systems, viability of such system(s), and feasibility of operation of such system(s) at the landfill. A report detailing the results of the investigation, SO_x control systems identified, feasibility of the systems at the landfill, advantages/disadvantages of the control systems, viability and expected SO_x control efficiency, expected limitations (if any) due to conditions at the landfill, a list of equipment which may be required for installation (e.g. new TO_x unit(s), SO_x scrubber, gas cooling and drainage system, etc.), and a proposed timeline for design and installation of such system(s). The report shall be submitted 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)] by August 28, 2026.</u></p>
4	<p>Respondent shall maximize landfill gas combustion utilizing all operational flares <u>and thermal oxidizers</u> (excepting periods of maintenance, breakdowns, or automatic shutdown) to limit release of raw landfill gas. <u>For gas being processed at the flare station</u>, Respondent shall prioritize and maximize the use and operation of landfill gas flares No. 2 (under Permit G73696, A/N 645450) and No. 3 (under A/N 624296) over landfill gas flare No. 1 (under Permit G73696, A/N 645450) to the maximum extent feasible when combusting landfill gas at the facility (F1D 119219). Once Respondent receives the necessary permits and puts the new landfill gas flare discussed in Condition 21 ("landfill gas flare No. 4") into operation, Respondent shall prioritize and maximize the use and operation of landfill gas flares Nos. <u>2, 3,</u> and 4 over landfill gas flares No. 1 <u>and No. 2</u> (under Permit G73696, A/N 645450) <u>and prioritize and</u></p>

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	maximize the use and operation of landfill gas flare No. 2 over landfill gas flare No. 1 to the maximum extent feasible when combusting landfill gas at the facility (FID 119219).
5	<p>Respondent shall sample, analyze, and record the landfill gas sulfur compounds combusted and gas heat rating for the <u>combined landfill gas/leachate vapor that is:</u></p> <ol style="list-style-type: none"> <u>1. Combusted</u> in each flare (as measured at sampling location FL-150 that is representative of the gas combusted in the flares under Permit 073696<u>G73696</u>, A/N 454506<u>45450</u>; A/N 624296), <u>2. Combusted</u> in the thermal oxidizer/flare<u>flares</u>, and <u>3. Combusted</u> in any other landfill gas control equipment operating on site. <p>Sampling and analysis shall be completed at least once each week using colorimetric tests for H₂S and at least once each day sample for analysis for total sulfur compounds as H₂S using South Coast AQMD Method 307-91. <u>for total sulfur compounds as H₂S, and at least once each day for methane content using field instruments, which can be converted to a gas heat rating (BTU/scf).</u> Additionally, Respondent shall sample, analyze, and record the landfill gas sulfur compounds and speciated organic compounds found in the raw, pre-treatment and pre-control, landfill gas collected from the Reaction Area (as defined in Condition 9(a)) at least once each calendar month for total sulfur compounds as H₂S using South Coast AQMD Method 307-91 and for speciated organic compounds using U.S. Environmental Protection Agency (EPA) Method TO-15.</p> <ol style="list-style-type: none"> a. "..." b. Sulfur compound readings and analysis shall be reported to South Coast AQMD pursuant to Condition No. 8. <ol style="list-style-type: none"> i. Tedlar bags used for Method 307-91 sampling and analysis shall not contain droplets or debris. ii. Colorimetric tube readings shall be conducted by taking a reading from a Tedlar bag sample using an appropriate colorimetric tube sample collection pump. All sampling shall be performed in accordance with the operational manual for the colorimetric tube sample collection pump. [Reserved; See Appendix 1] iii. Colorimetric tube readings shall use colorimetric tubes of appropriate concentration range and shall be reported as follows: <ol style="list-style-type: none"> 4. Respondent shall first use the estimated appropriately ranged colorimetric tube.

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	<p>5. If the resulting reading reaches the upper concentration of the colorimetric tube concentration range, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a larger upper concentration threshold until the result is not the upper concentration threshold of the concentration range. Report the tube concentration range and tube concentration result for each reading.</p> <p>6. If the reading results in the lower concentration of the colorimetric tube concentration range or does not register a result, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a smaller lower concentration threshold, if available, until the colorimetric tubes available to the facility result in:——</p> <p style="padding-left: 40px;">a. A reading that is within the concentration range of the tube,</p> <p style="padding-left: 40px;">b. A reading is the lower concentration of the colorimetric tube concentration range,</p> <p style="padding-left: 40px;">or</p> <p style="padding-left: 40px;">c. The colorimetric tube does not register a result.</p> <p>7.4. When the result is the lower concentration of the colorimetric tube concentration range or does not register a result, the lower concentration of the colorimetric tube concentration shall be considered the concentration result. Report the tube concentration range and tube concentration result for each reading. If a lower range colorimetric tube is not used and the tube concentration result is below the lower range of the colorimetric tube used, Respondent shall report the result as “less than” or “<” the lower range value of the tube. Notwithstanding the forgoing, Respondent shall ensure that the colorimetric tube result is below the upper range of the colorimetric tube used and shall report the precise result of all results above the lowest range of the colorimetric tube used. <u>[Reserved; See Appendix 1]</u></p> <p>c. “...”</p>

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6	<u>[Reserved; See Appendix 1]</u>
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> <ul style="list-style-type: none"> a. The hourly and daily flow of landfill gas 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/flare (under Zeeeo A/N 653611), flares, and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility; b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; and c. <u>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-</u> e.d. <u>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).</u>
8(d)	Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3. The landfill gas temperature at inlet of the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3(a). <u>[Reserved; See Appendix 1]</u>
8(e)	Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249). Respondent shall submit copies of documents or other records to support any problems or delays noted pursuant to this Condition No. 8(e) along with such description. <u>[Reserved; See Appendix 1]</u>

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8(f)	<u>[Reserved; See Appendix 1]</u>
8(g)	All wellhead temperature, 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. <u>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.</u>
8(h)	A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit), each well with CO exceedances (above 1,000 ppmv and less than or equal to 1,500 ppmv, above 1,500 ppmv and less than or equal to 2,000 ppmv, and above 2,000 ppmv), and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures or gas concentrations. <u>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.</u>
8(j)	Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternative sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any. <u>Beginning with the report submitted on October 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, pursuant to Condition 3(c).</u>
8(m)	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

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	Condition 15(b); copies of as-built well logs (regarding well depth installations and updates) 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 Area included; <u>a table in Microsoft Excel format, detailing vertical extraction well IDs, installation dates, desired and/or required drill depth per Condition 15(b), drill depth achieved, if the well has a dewatering pump, and, to the extent available, the most recent liquid level readings (date, time, values); and a map displaying the as-built wellfield, with visual indication of wells which are and are not at desired depths.</u>
8(r)	Daily landfill gas composition analysis, including CH ₄ %, CO concentration (ppm), CO ₂ %, and O ₂ %, as recorded 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), <u>in a Microsoft Excel spreadsheet format.</u> The analysis shall be conducted by a South Coast AQMD approved analyzer for CH ₄ , CO ₂ , or O ₂ and analyzed pursuant to U.S. EPA Method 10 or Method ALT-144 for CO. Request for approval shall include submittal of analyzer specifications. <u>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.</u>
8(t)	<u>Operating temperature records (per minute) 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 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.</u>
9(a)	The “ Reaction Area <u>Reaction Mitigation Area</u> ” shall be defined initially by the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2. The boundary of the Reaction Area <u>Reaction Mitigation Area</u> shall be modified to include the associated landfill surface area of the cells and modules that experience well temperatures of at least 170 degrees Fahrenheit, settlement, cracks in the landfill cover, presence and quantity of liquids, the presence of hydrogen in the landfill gas, and readings of temperature probes (once data is available). <u>additionally include all landfill surface grids identified in 9(b) that are outside the cells within the modules/cells listed above. The Reaction Committee (defined in Condition No. 12), Respondent</u> shall transmit to the South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov ; Nathaniel Dickel, ndickel@aqmd.gov ; Christina Ojeda, cojeda@aqmd.gov]; 1 the revised map which clearly displays

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	<p>the proposed boundary change(s) and depicts the new <u>Reaction Mitigation Area</u>; 2) a narrative summary explaining the rationale behind the proposed changes, including memorializing any dissenting view of any member of the Reaction Committee; 3) any supporting data relied upon in the decision to revise the Reaction Area; and 4) locations of each temperature probe, clearly distinguished from the landfill gas wells on the map.</p>
9(b)	<p>The Reaction Committee Respondent shall review applicable data to determine the extent and boundary of the <u>ongoing Reaction Mitigation Area</u>. The Reaction Committee Respondent shall consider revision to this <u>data-determined Reaction</u> data-determined Reaction boundary, and the <u>Reaction Area as defined in Condition 9(a)</u> Mitigation Area boundary, as frequently as appropriate but shall make a determination about <u>whether to revise the data-determined the Reaction</u> data-determined Reaction Mitigation Area boundary; and <u>the Condition 9(a) Reaction Mitigation Area</u> the Condition 9(a) Reaction Area map at least once per month. The determination shall be <u>made according to landfill</u> made by review of the below reaction-indicating parameters:</p> <ol style="list-style-type: none"> 1. <u>Vertical landfill gas wellhead temperatures</u>, temperature (greater than 160 degrees Fahrenheit), 2. <u>Temperature probe measurements</u>, landfill (greater than 170 degrees Fahrenheit for more than 3-weeks at any depth), 3. <u>Landfill gas quality and methane to CO2 ratio</u>, landfill (methane levels of less than 30 percent in conjunction with methane to CO2 ratios less than 1.0), 4. <u>Landfill gas concentration of carbon monoxide</u> and (greater than 1,500 ppm), to the extent measured, 5. <u>Landfill gas concentration of hydrogen</u>, (greater than 2 percent by volume), to the extent measured, 6. <u>Landfill settlement (18 inches or greater within a 60-day period)</u>, 7. <u>Pressurized leachate releases.</u> <p><u>The determination shall include a cumulative evaluation of parameters within each individual landfill surface grid within the Main Cayon (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. 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</u></p>

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	<p><u>settlement, grid(s). 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. 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, assumptions, and including documentation of which parameters were met or exceeded for each individual landfill grid, field testing and laboratory results (if applicable), explanation for the determination, revised Reaction Reaction Mitigation Area Mitigation Area boundary, Reaction Mitigation 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, quarterly <u>monthly</u> landfill settlement isopach maps and <u>60-day isopach map</u>, <u>wellhead and temperature probe map with surface grids displayed</u>, 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 <u>Reaction Mitigation Area</u> data determined reaction 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, and ≥ 2,000 <u>and < 5,000 ppmv and ≥ 5,000</u> 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</u></p>

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	settlement for the entire landfill and shall be updated at least once quarterly 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.
12(f)	<p>f.—Beginning in March 2024, and concluding May 2026 Respondent shall host a monthly virtual meeting with all members of the Reaction Committee and South Coast AQMD technical staff. The purpose of the monthly meeting shall be to allow Reaction Committee members to provide an update on progress of ongoing and future planned work performed/to be performed pursuant to this Order which is directly related to the subsurface reaction at the Landfill, and allow South Coast AQMD to provide recommendations and/or feedback on such progress.</p> <p>i. [delete]</p> <p>ii. [delete]</p> <p>iii. [delete]</p> <p>iv. [delete]</p>
12(g)	<p>Respondent, through the Reaction Committee, shall conduct investigations and studies into the cause of the landfill reaction, the impact of air emissions, interim measures to limit odor transport, and corrective measures to reduce or abate the landfill reaction. Such investigations shall include, at a minimum:</p> <p>i. [Reserved; See Appendix 1] A study into known and possible methods for effective treatment of DMS and preventative mechanisms for DMS formation in landfill gas, including assessment of other landfills and review of scientific studies. By no later than April 30, 2024, Respondent shall provide a report detailing the findings of this Landfill Gas DMS Treatment Study and the proposals for implementation of the treatment methods. This report shall be submitted to South Coast AQMD [Baitong Chen, Air Quality Engineer, (behen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)]. Respondent shall submit any required permit applications, with information included, for equipment installations or modifications necessary for implementation of the remedy strategies and/or treatment methods;</p> <p>ii. An investigation and report on 1) the cause of the alleged chemical reaction(s) resulting in the elevated well temperatures, elevated levels of DMS formation in the landfill gas, and elevated levels of NMOC formation in the landfill gas and 2) solutions to slow and stop the reaction(s) in the landfill. Investigation into the cause of the alleged</p>

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	<p>chemical reaction(s) shall include, but not be limited to, waste characterization study of waste disposed within the Reaction Area, to the extent records of such waste are within Respondent's possession, including (but not limited to) analysis of chemical and physical characteristics, BTU, moisture content, biological methane potential. Respondent shall also conduct drill core sampling in the Reaction Area (as defined in Condition 9(a)) to assess waste characterization in areas not affected by elevated temperatures at the time of drilling. Respondent shall submit a report on the findings of the investigation by no later than December 8, 2023 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)]; [Reserved; See Appendix 1]</p> <p>iii. [Reserved; See Appendix 1]. An investigation and report on the feasibility and availability of a continuous community emission monitoring system to conduct continuous monitoring and provide estimates of DMS concentrations at the facility fence line and within the affected community. By no later than December 1, 2023, Respondent shall submit 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)], the feasibility and availability findings of this fence line and community DMS monitoring program. The findings shall identify all companies, vendors, contractors, and consultants that were inquired regarding the feasibility and availability and the results for each inquiry, including an ultimate decision if monitoring is feasible. If the Reaction Committee deems monitoring under this provision feasible, Respondent shall prepare and submit 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)] a workplan for the installation of and operation of the required monitoring equipment and related installations within thirty (30) days of the Reaction Committee's decision. This workplan will include a timeline for procurement of monitoring equipment and for the commencement of monitoring. It will also include a timeline for reporting out on the collected data, including a proposal relating to the real time posting of monitoring data on Respondent's website or other regular report outs on the data;</p> <p>iv. [Reserved; See Appendix 1]. A study and report on landfill best management practices and alternative methods to minimize the release of fugitive surface gas and minimize odors from fugitive surface gas, including cover practices at the Reaction Area (as defined in Condition 9(a)) and working face, and how best to address related odorous emissions, such as through the use of misting systems, fans, odor neutralizer, or other means. By no later than</p>

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	<p>November 6, 2023, Respondent shall submit a report detailing the findings of this Fugitive Landfill Gas Odor Mitigation Study and the proposals for the minimization of landfill gas release and odors. This report shall be submitted to South Coast AQMD [Baitong Chen, Air Quality Engineer, (behen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)];</p> <p>v. [Reserved; See Appendix 1]; A report on the known health risks from acute and long-term exposure to DMS, including any action levels from other public health or government entities, and including a summary of recommended actions for persons exposed to DMS for acute and long-term durations. By no later than January 15, 2024, Respondent shall submit this report to South Coast AQMD [Baitong Chen, Air Quality Engineer, (behen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)];</p> <p>vi. [Reserved; See Appendix 1]; A report of the health impacts from ongoing and long-term (e.g. greater than one year) exposure to hydrogen sulfide (H₂S), or other speciated sulfur compounds, and any other hazardous air pollutants (HAPs), as defined in the federal Clean Air Act, 42 U.S.C. § 7412. The HAPs evaluated in the report shall include those which are detected: (1) in landfill gas over the past twelve months at the Chiquita Canyon Landfill as documented in the initial or additional flux chamber study (per Condition No. 12(f)) or detected in stack emissions testing; (2) in the liquids and leachate samples collected and analyzed (per Condition No. 37); (3) in air sampling performed to determine emissions from exposed liquids/leachate; and (4) in the community pursuant to the enhanced community air monitoring program in exceedance of recommended toxicity screening values published by the US EPA or other applicable screening values where US EPA toxicity screening values are unavailable. The report shall include, but not be limited to, assessment and analysis of any action levels from other public health or government entities in the United States for any such constituents, recommended actions for persons exposed to such constituents, and recommendations on how to limit any anticipated adverse health impacts. Such report shall also include a summary of all findings, health impacts and recommendations in an easy-to-read format designed for distribution to and use by the public. By no later than August 1, 2024, Respondent shall submit this report to South Coast AQMD [Baitong Chen, Air Quality Engineer, (behen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)]; and</p>

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	viii. <u>[Reserved; See Appendix 1]</u>
12(g)(vii)	<p>The development of a model to estimate the rate of liquid generation in the landfill, and total quantity of liquid existing within the landfill waste mass at any given time (including supporting assumptions, references, and calculations). By no later than June 25, 2024, Respondent shall submit to South Coast AQMD a report summarizing the model and results of modeling.</p> <ol style="list-style-type: none"> Respondent shall update this model and submit 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)] a report summarizing the updated model and results of modeling on a semi-annual basis beginning on January 7, 2025 and every six calendar months thereafter. <u>Beginning on July 21, 2026, Respondent shall submit this report on a semi-annual basis every six calendar months on the 21st of the month, or the following working day.</u>
13	<u>[Reserved; See Appendix 1]</u>
15	<p>Respondent shall continue to evaluate and install, as needed, vertical dual extraction wells to collect both landfill gas and leachate. Respondent shall continue to expand the well field as needed, and notify South Coast AQMD by October 31, 2023 of the number of wells added, attention to 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). Any subsequent additions to the well-field shall be documented in the monthly reports pursuant to Condition No. 8. In installing any additional wells, Respondent shall ensure it complies with all conditions in Respondent’s currently operative landfill gas collection system permit. In installing any additional wells pursuant to this Condition, Respondent shall additionally take the following measures:</p>

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	<p>a. [Reserved; See Appendix 1];</p> <p>b. By January 6, 2025, unless otherwise approved in writing by the South Coast AQMD, Respondent shall install vertical landfill gas extraction wells in the initial Reaction Area (including the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2 as defined in Condition 9(a)). These wells shall be fully operational, working wells, installed with desired depth within the landfill waste mass (approximately 30 ft from the bottom liner), with the ability to extract landfill gas within the depths of the landfill waste mass and deliver it to the gas control system(s). Respondent shall achieve a vertical gas extraction well density of wells installed at the desired depth, at a minimum, an average of three (3) wells per acre within the initial Reaction Area stated above, and within the estimated extent of elevated temperature landfill conditions as depicted by the Reaction Committee in their monthly determinations submitted in accordance with Condition 9(a). The wells with the desired depth shall be installed with even dispersion, achieving a well density of at least two (2) vertical extraction wells within any one acre, except for the areas demarcated in the attached Exhibit A to this Modified Stipulated Order. The following interim deadlines shall apply to this Condition 15(b) for wells installed with the desired depth:</p> <ul style="list-style-type: none"> i. By July 1, 2024, installation of 50% of wells necessary to achieve the well installation density; and [Reserved; See Appendix 1] ii. [Reserved; See Appendix 1] By October 1, 2024, installation of 75% of wells necessary to achieve the well installation density. iii. In the circumstance that vertical landfill gas extraction wells are incapable of being installed with the desired depth within the initial Reaction Area in accordance with the schedule specified above, due to the ongoing Reaction Area conditions, Respondent shall install the wells to the depths achievable at the densities specified in Condition No. 15(b)(i) above, and in accordance with the schedule specified in Condition Nos. 15(b), 15(b)(i) and 15(b)(ii). Respondent shall then achieve the well installation depth and density requirements of described above in Condition 15(b) by August 17, 2026, unless otherwise approved in writing by South Coast AQMD., in accordance with Condition 15(o), continue

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	<p><u>monitoring and evaluating whether the vertical landfill gas extraction wells within the initial Reaction Area can be expanded deeper or drilled to achieve the initially desired depth, or whether new replacement wells can be drilled nearby to achieve the initially desired depth.</u></p> <p>iv. If any reading of 500 ppmv TOC or greater is detected during instantaneous surface monitoring required by Condition No. 10, corrective actions shall be taken by the Respondent within 2 calendar days after detecting the exceedance, including, but not limited to the following: cover maintenance or repair, or well vacuum adjustments. The location shall be remonitored no later than 10 calendar days after detecting the exceedance. If the remonitoring of the location shows a second exceedance, the Respondent shall install and operate the new and/or replacement well(s) no later than 30 days after detecting the initial exceedance, or otherwise approved in writing by South Coast AQMD.</p> <p>v. If any reading of 25 ppmv TOC or greater is detected during integrated surface sampling required by Condition No. 9, corrective actions shall be taken by Respondent within 2 calendar days after detecting the exceedance, including, but not limited to, the following: the gas collection equipment and the landfill cover shall be serviced in the vicinity of the grid with the exceedance (e.g. cover maintenance or repair, or well vacuum adjustments). The grid shall be resampled no later than 10 calendar days after detecting the exceedance. If the resampling of the grid shows a second exceedance, the Respondent shall install and operate the new and/or replacement well(s) no later than 30 days after detecting the initial exceedance, or otherwise approved in writing by South Coast AQMD.</p> <p>vi. An extension to the well installation timelines under Condition 15(b)(iv and v) above may be requested in writing, submitted 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)]. The extension request shall be submitted at least 7 days prior to the 30-day well installation deadline, and shall include, at a minimum, the instantaneous surface monitoring and/or integrated surface sampling data, corrective actions performed, date of all monitoring/sampling and corrective actions performed, and detailed reasoning</p>

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	<p>of equipment delays, operational concerns, safety concerns, or other reasons inhibiting the installation of the well(s) according to the 30-day schedule.</p> <p><u>c.</u> While installing wells pursuant to Conditions 15(a) and 15(b), <u>if Respondent plans to install wells the following week,</u> Respondent shall notify the South Coast AQMD [attn: 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)] in writing, by Friday of each week, which wells are scheduled to be installed the following week;</p> <p>e. <u>f.</u></p> <p>d. Following installation of all wells pursuant to Conditions 15(a) and 15(b), Respondent shall notify the South Coast AQMD in writing [attn: 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)] at least one (1) week in advance when an additional well or set of wells and their associated piping will be installed. <u>Estimated gas collection volume, well depths, pipe lengths, diameters and layouts shall be supplied to the South Coast AQMD in this advance notification, to the extent known. The information required by Condition 15(a) shall be included in the notification.</u> Updates to the design and schedule shall be provided in the monthly report pursuant to Condition No. 8(m);</p> <p>e. During any well drilling a landfill gas control box shall be used to prevent the emissions of landfill gas into the atmosphere, and this control box shall be vented to an approved emissions control system;</p> <p>f. Each well shall be completed and capped the same day its construction commences, unless the well hole is completely covered (using a minimum 8'x 8' at least 0.25" thick steel plate, and 12 inches depth of clean dirt), or the subsequently installed pipe is capped;</p> <p>g. Each gas collection well shall be connected to an operating landfill gas header or the ends of the well shall be sealed with blind flanges, glued or fused caps, or other types of seals approved by the South Coast AQMD as soon as the well is installed;</p>

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	<p>h. All openings and connections of the landfill gas collection system shall be properly covered and sealed to prevent leaks in accordance with Respondent’s Title V Permit and in accordance with all applicable rules and regulations;</p> <p>i. Respondent shall install additional stainless steel, carbon steel, or chlorinated polyvinyl chloride (CPVC) wells in the Reaction Area per recommendation of the Reaction Committee. Stainless steel or carbon steel shall be installed for any well which has gas temperatures exceeding 170 degrees Fahrenheit;</p> <p>j. Following the installation of additional wells per Conditions 15(a) and 15(b), Respondent shall replace any wells in the Reaction Area which are damaged, blocked, pinched, or which have gas temperatures exceeding 145 degrees Fahrenheit with CPVC wells, carbon steel, and/or stainless steel wells, or add new wells that replace the landfill gas extraction capacity. Within 7 days of discovery of any such well, Respondent shall notify South Coast AQMD in writing [attn: 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)] of a proposed installation schedule. Installation shall take place within 7 days of the notification, whenever feasible, but the schedule shall take into account availability of drilling equipment, replacement materials, and weather and safety conditions. Following initial notification, Respondent shall update South Coast AQMD in writing every 7 days until the well installation is complete, with evidence substantiating the delay, and additionally shall provide an updated installation schedule.</p> <p>k. Respondent shall, once additional/adequate gas extraction capacity is installed, operate gas extraction wells with less than 3 percent oxygen where feasible, and follow landfill best management practices to keep the oxygen below 5 percent in interior wells;</p> <p>l. Respondent shall install well boots seals on all wells in the Reaction Area in accordance with the installation schedule for the geosynthetic cover that is being installed pursuant to Condition No. 31 and consistent with requirements of the Local Enforcement Agency Respondent shall install well boots seals on all wells located <u>in geosynthetic/EVOH covered areas by July 31, 2026, and upon installation for new wells installed in geosynthetic/EVOH covered areas;</u></p>

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	<p>m. Respondent shall submit semi-annual as-built drawings in duplicate to the South Coast AQMD [attn: Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, ()]. As-built drawings shall depict all wells constructed to date.</p> <p>n. As of April 25, 2024, all new vertical extraction wells installed within the Reaction Area (as defined in Condition 9(a)) shall be dual extraction wells with the ability to extract both landfill gas and liquid/leachate within the well, to maximize landfill gas collection and prevent liquid/leachate build-up within wells and within the landfill. Dewatering pumps and associated infrastructure (pneumatic supply piping, liquid forcemain piping, etc.) shall be installed, allowing the pump at each well to be capable of operation. For 75% of wells, installation of all associated infrastructure shall be completed within 30 days of completion of the vertical extraction well drilling operation. For the remaining 25% of wells, installation of all associated infrastructure shall be completed within 60 days of completion of the vertical extraction well drilling operation. This sub-condition shall supersede the specific language listed in Condition No. 15 allowing Respondent to evaluate and install vertical dual extraction wells as needed.</p> <p>o. Respondent shall, on a monthly basis determine whether any of the existing landfill gas collection wells in the Reaction Area (as defined in Condition 9(a)), which were not able to be drilled and installed at the desired well depth (generally approximately 30 ft above the bottom liner), can be expanded deeper or drilled to achieve the initially desired depth, or whether new replacement wells can be drilled nearby to achieve the initially desired depth. This determination shall include an evaluation of the landfill gas well/wellbore conditions, landfill liquid/leachate flow data, pressurized liquid/leachate release data, and landfill gas data, wellhead temperature data, temperature probe data, and any additional parameters as necessary. Respondent shall report on the monthly determination, along with any supporting evidence and reasoning for the determination, as part of the monthly report pursuant to Condition No. 8, beginning with the report submitted in October 2024 covering data from September 2024.</p>

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16	<u>[Reserved; See Appendix 1]</u>
18	<p>Respondent shall, in addition to the installation of dewatering sumps/pumps specified in Condition No. 17 above, within ninety (90) days of the issuance of the Initial Order, provide proposed Reaction Area dewatering guidelines and implementation procedures for the landfill to South Coast AQMD (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov)) that include but are not limited to the following:</p> <p>Proposed methodologies and monitoring procedures that determine the level of dewatering within the Reaction Area (as defined in Condition 9(a)) wells impacted by liquid. Methods may include the measurement of the gas flow at each landfill gas collection well impacted by liquids;</p> <p>Use of dewatering pumps or other methods to remove liquids from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;</p> <p>An implementation plan for the use of dewatering pumps or other methods to remove liquids from the Reaction Area wells impacted by liquids. The plan shall include a list of wells in the Reaction Area and depth where liquids are expected to impact landfill gas collection efficacy or be a concern, the proposed action to remove the liquids, and the schedule for liquid removal. The implementation plan shall also include pro-active measures, such as additional dewatering pumps, to be installed at landfill gas collection wells where liquid impaction issues have not yet occurred, but may be expected to occur.</p> <p>Upgrades to the site leachate collection system as needed, including through the addition of increased air compressor and/or drain line infrastructure;</p> <p>Protocols for the pumping and monitoring of dewatering pumps and other such methods to remove water from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;</p> <p>Well field liquid sounding in the Reaction Area (as defined in Condition 9(a)), and a proposed schedule for conducting liquid sounding on a consistent basis;</p> <p>A timeline for appropriate reporting on impacted wells;</p> <p>The feasibility of integrity testing of all vertical gas wells in the Reaction Area (as defined in Condition 9(a)) and a timeline and protocol for addressing any wells that the integrity testing demonstrates are damaged or are exhibiting temperatures of at least 170 degrees Fahrenheit; and</p>

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	<p>A timeline for implementation of appropriate dewatering procedures upon discovery of wells impacted by liquids. Respondent shall, within 14 calendar days of approval of this Order, revise the dewatering guidelines according to the comments received by email on March 13, 2024, and re-submit the revised dewatering guidelines to South Coast AQMD for final written approval. The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented within seven (7) days of South Coast AQMD approval, and shall be implemented to the maximum extent feasible if Respondent's facility is encountering leachate tank capacity shortages. If any conflict exists between any condition or requirement of this Order and any part of the South Coast AQMD approved Dewatering Guidelines, this Order shall take precedence over the approved Dewatering Guidelines and Respondent shall submit revised Dewatering Guidelines that resolve such a conflict to South Coast AQMD for final written approval.<u>[Reserved; See Appendix 1]</u></p> <p><u>[following 18(i)]:</u></p> <p><u>Respondent shall implement the revised the dewatering guidelines submitted June 7, 2024. Should South Coast AQMD provide any comment(s) on the revised dewatering guidelines or any subsequent revised dewatering guidelines, Respondent shall incorporate South Coast AQMD comments and submit further revised dewatering guidelines, or shall provide detailed justification for not incorporating comments, to South Coast AQMD within 15 days of receipt of the comments. The revised dewatering guidelines shall be implemented upon submission to South Coast AQMD. The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented to the maximum extent feasible if Respondent's facility is encountering leachate tank capacity and/or disposal shortages. If any conflict exists between any condition or requirement of this Order and any part of the South Coast AQMD approved Dewatering Guidelines, this Order shall take precedence over the approved Dewatering Guidelines and Respondent shall submit revised Dewatering Guidelines that resolve such a conflict to South Coast AQMD for final written approval.</u></p>
19	<u>[Reserved; See Appendix 1]</u>

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20	<u>[Reserved; See Appendix 1]</u>
21	<u>[Reserved; See Appendix 1]</u>
22	<p>Respondent shall continue to use one or multiple portable thermal oxidizer(s)/flare(s), <u>including as directed by EPA that operate under a permit to operate or temporary permit to operate for additional landfill gas control capacity until the Reaction Committee concludes that such portable thermal oxidizer(s)/flare(s) are no longer needed. Any work plans Respondent submits to EPA relating to thermal oxidizers/flare(s) shall be submitted to shall notify the South Coast AQMD as to the Reaction Committee's recommendation within 48 hours of when the Reaction Committee's recommendation was determined</u> (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)) <u>within 24 hours of submittal to EPA. For combustion equipment operating without a permit, including at the direction of EPA, the following shall apply:</u></p> <p style="margin-left: 40px;">a. <u>For equipment which has not undergone an initial source test onsite, Respondent shall conduct an initial source test on the equipment at the maximum flow rates achievable at the time after the equipment is able to achieve a firing period of at least 60 minutes. The initial source test shall be conducted no later than 180 days after initial startup. Thereafter, Respondent shall conduct semi-annual source tests for all primary equipment subject to this condition and for every 4,000 hours of operation, or every 18 months, whichever is sooner, for the backup equipment. Subsequent semi-annual source tests on the primary equipment shall be conducted at least once every six (6) months, and no later than 225 days from the prior source test for primary equipment, and subsequent source tests on the backup equipment shall be conducted at least once every eighteen (18) months, and no later than 590 days from the prior source test unless otherwise approved in writing by South Coast AQMD as indicated below, in as-found condition. Initial and subsequent source testing shall be conducted under the following conditions:</u></p>

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	<p><u>i. Testing shall be conducted by an approved contractor under the South Coast AQMD Laboratory Approval Program (LAP) and in compliance with South Coast AQMD Rule 304 (No Conflict of Interest).</u></p> <p><u>ii. The LAP contractor shall not conduct any pre-tests for compliance.</u></p> <p><u>iii. Sampling facilities shall comply with South Coast AQMD “Guidelines for Construction of Sampling and Testing Facilities” pursuant to Rule 217.</u></p> <p><u>iv. At least one week prior to the scheduled source test, South Coast AQMD shall be notified of the scheduled source test date. If a scheduled source test is delayed, Respondent shall notify the South Coast AQMD within 24 hours from the time that Respondent knew of the delay. Respondent shall provide at least 7 days prior notice of the rescheduled date of the source test or arrange a rescheduled date with the South Coast AQMD by mutual agreement.</u></p> <p><u>b. A source test protocol shall be submitted to South Coast AQMD no later than 90 days before the proposed test date, unless otherwise approved in writing by South Coast AQMD, and shall be approved in writing by South Coast AQMD before the test commences. A valid protocol, previously approved by South Coast AQMD, may be used for a recurring source test, subject to South Coast AQMD written approval. At a minimum, the source test protocol should include the following, unless otherwise approved in writing by South Coast AQMD:</u></p> <p><u>i. The name, address, and contact information of the unit operator and the South Coast AQMD approved source testing contractor that will conduct the test(s).</u></p> <p><u>ii. The application and permit number (if applicable).</u></p> <p><u>iii. A copy of the current valid approved permit (if applicable).</u></p> <p><u>iv. A description of the equipment to be tested. Include a process schematic indicating sampling locations/ports, and sampling duct/stack dimensions along with upstream and downstream flow disturbances (e.g. elbows, tees and fans).</u></p> <p><u>v. A brief process description.</u></p> <p><u>vi. Operating conditions under which the test will be performed, including flow rate, temperature, pressure, number of tests to be conducted, and operation loads.</u></p> <p><u>vii. A description of the sampling and analytical methods for each constituent measured.</u></p> <p><u>viii. Complete calculations for flow rates, concentrations, emission rates, and efficiencies.</u></p>

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	<p><u>ix. A description of the calibration and quality assurance procedures.</u></p> <p><u>x. Sampling facilities shall comply with the South Coast AQMD guidelines for construction of sampling and testing facilities, pursuant to Rule 217.</u></p> <p><u>xi. Copy of LAP approval for methods being used in the source test.</u></p> <p><u>xii. A statement determining that the testing laboratory qualifies as an “independent testing laboratory” under Rule 304 (no conflict of interest), signed by the responsible authority.</u></p> <p><u>c. Respondent shall submit the initial source test report to South Coast AQMD no later than 180 days after start-up and each succeeding complete annual source test report no later than 45 days after the subject source test date, unless otherwise approved in writing by South Coast AQMD.</u></p> <p><u>d. 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 45 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 otherwise approved in writing by South Coast AQMD, a test of the inlet to the equipment and the equipment exhaust for:</u></p> <p><u>i. Methane (lb/hr) (semi-annually for primary; at every testing for backup).</u></p> <p><u>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).</u></p> <p><u>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).</u></p> <p><u>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 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</u></p>

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	<p><u>South Coast AQMD for speciated organics and TACs under Condition 22(d)(iii and iv) (semi-annually for primary; at every testing for backup).</u></p> <p>v. <u>NOx, as NO2 (exhaust only, lb/hr, lb/MMBtu) (annually for primary; at every testing for backup).</u></p> <p>vi. <u>CO (exhaust only, ppmvd with 15 minute average, lb/hr, lb/MMBtu) (annually for primary; at every testing for backup).</u></p> <p>vii. <u>Total Particulates (PM10) (exhaust only, lb/hr, grains/dscf) (annually for primary; at every testing for backup).</u></p> <p>viii. <u>Oxygen and Carbon Dioxide (percent by volume).</u></p> <p>ix. <u>Moisture Content (percent by volume).</u></p> <p>x. <u>Temperature (exhaust only).</u></p> <p>xi. <u>Flowrate of inlet landfill gas and exhaust gas (scfm).</u></p> <p>xii. <u>Total Sulfur Compounds as Hydrogen Sulfide and speciated sulfur compounds (inlet only, ppmv) (annually for primary; at every testing for backup).</u></p> <p>xiii. <u>Btu Value (HHV) (inlet only, Btu/scf).</u></p> <p>xiv. <u>Nitrogen (exhaust only, percent by volume).</u></p> <p>xv. <u>Methane and VOC/NMOC destruction efficiency (by weight).</u></p>
26	<u>[Reserved; See Appendix 1]</u>
27(b)	<p>i. In the event that two weeks of twice daily inspections show no exposed liquid/leachate seepage or pooling, Respondent may reduce the inspection frequency to once daily. If after another two weeks of daily inspections, no exposed liquid/leachate seepage or pooling is observed, Respondent may reduce the inspection frequency to once every other day during the operating week (i.e., three times each operating week). If at any point inspections show exposed liquid/leachate seepage or pooling, inspection frequency shall return to twice daily inspections. <u>Membrane covered liquid/leachate seepage or pooling, or other temporary solution to ongoing seepage or pooling, which requires ongoing intervention to</u></p>

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	<p style="text-align: center;"><u>expose and collect/pump out liquids by vacuum truck, shall be considered exposed liquid/leachate seepage or pooling and result in ineligibility of this reduced inspection frequency.</u></p> <p>ii. <u>On a weekly basis, Respondent’s staff or contractor shall conduct and document an expanded inspection over the entire Main Canyon area for liquid/leachate seepage and pooling. In the event that two weeks of weekly inspections show no exposed liquid/leachate seepage or pooling, Respondent may reduce the inspection frequency to once every other week. If at any point inspections show exposed liquid/leachate seepage or pooling, inspection frequency shall return to once weekly inspections.</u></p>
27(c)	<p>On a weekly basis, compile and report the details of the inspection logs from that calendar week required under Condition 27(b). Respondent shall additionally <u>report on any other liquid/leachate seepage or pooling found in addition to the Condition 27(b) inspections, and</u> report on any ongoing leachate seepage and pooling at the landfill, found to have occurred at a location more than once within the calendar week, including location(s) (identified on graphic map(s) of the landfill), estimated duration of presence of leachate at such locations, characteristics of leachate (estimated quantity, extent of area impacted, odor type and intensity), leachate saturation of surrounding soils (standing free liquid, saturated, semi-dry, dry), and containment systems or measures deployed to route, collect, and contain the exposed leachate and prevent further leachate exposure, <u>and solutions proposed to resolve the ongoing seepage or pooling (if applicable).</u> By no later than January 23, 2024, Respondent shall submit 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)], the first weekly report, and shall submit an additional weekly report every 7 calendar days thereafter;</p>
27(e)	<p>Respondent shall report to South Coast AQMD any leachate leak, or spill, <u>or pressurized leachate releases,</u> separately from leachate seeps reports specified in Condition 27(c). The report shall be submitted 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)] within 48 hours of discovering at the leak or spill <u>estimated at 1 gallon or larger, and for every pressurized leachate release.</u> The report(s) shall, at a minimum, include: (1) the date and time of the leak or spill; (2) area designation inspected; (3) the name of the person that discovered the leak or spill; (4) written acknowledgement that they did, or did not, take corrective action with rationale for these actions; (5) a root cause analysis on why and how the leak or spill occurred; (6) the estimated quantity of the leak or spill; (7) corrective actions to clean and/or remove the leak or spill; (8) corrective actions implemented or to be implemented, including an estimated timeline, to prevent future recurrence; (9) the type of affiliation of the operator</p>

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	involved in the root cause (e.g., employee, regularly onsite contractor, other contractors, or haulers); (10) whether any individuals involved in the root cause had previously received training on applicable operations to avoid leaks or spills; and (11) the number of times individuals involved in the root cause had previously been involved in the root cause of a leachate leak or spill. If any of the above items are not able to be determined, Respondent shall list “not determined” and a brief explanation. Root cause shall include ultimate determination of attribution of error, including, as applicable, operator error, equipment breakdown, equipment malfunction, lack of training, lack of documented procedures, lack of following procedures, etc, to the extent known at the time the report is submitted to South Coast AQMD after good faith investigation. For spills or leaks of greater than 100 gallons where root cause was not determined at the time of report submission, Respondent shall provide a supplement to the report following completion of investigation and determination of the root cause.
27(e)(i)	<u>For the purposes of Condition 27(c) and 27(e), leaks of leachate from equipment that were initially reported as a leak but which are later determined to have resulted from leachate seepage (e.g. leachate leakage through holes, tears, connections in the geocover), shall be reported under both Condition 27(c) and 27(e) (initially as a leak and then in the subsequent seep report), and shall be indicated as such in both reports.</u>
31	<u>Respondent shall include updates on the procurement and installation of the geosynthetic cover in the monthly reports pursuant to Condition No. 8.</u>
32	<u>[Reserved; See Appendix 1]</u>
33	<u>[Reserved; See Appendix 1]</u>

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35	<p>Respondent shall, by January 19, 2024, provide all standard operating procedures (SOPs) and any other Quality Control and Quality Assurance (QA/QC) documents describing the operation and maintenance of all instruments used at the air monitoring stations and/or enhanced monitoring stations specified in Condition No. 34. These QA/QC documents shall include detailed information on the calibration, and maintenance of the monitoring equipment and associated instrumentation, and procedures used for data handling, validation, and analysis. They shall additionally include the frequency/schedule of these actions. Respondent shall provide these QA/QC documents to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov); Christina Ojeda, Air Quality Inspector, Payam Pakbin, Atmospheric Measurements Manager, (ppakbin@aqmd.gov)]. Respondent shall provide updates <u>on all standard operating procedures (SOPs) and any other Quality Control and Quality Assurance (QA/QC) documents submitted to South Coast AQMD on January 19, 2024, describing the operation and maintenance of all instruments used at the air monitoring stations and/or enhanced monitoring stations specified in Condition No. 34</u> to these QA/QC documents (if any) and a log for calibration, and maintenance activities performed on the monitors, in the monthly reports pursuant to Condition No. 8.</p>
35(c)	<p><u>Beginning June 8th, 2026, and every Monday thereafter, respondent shall provide a weekly summary of the landfill's air monitoring network to sduz@aqmd.gov and ahaar@aqmd.gov. The summary shall include (1) a listing of instrument downtime from the prior week for H₂S, methane, VOC, and meteorological parameters; (2) cause, corrective action, and recurrence mitigation efforts for any period of downtime; (3) weekly average concentration, standard deviation, and range compared with the prior three months of data for H₂S, methane, and speciated VOC for each site; and (4) chiquitacanyon.com air monitoring data portal reporting status and data completeness for each instrument and site for the prior week.</u></p>
36(b)	<p><u>[Reserved; See Appendix 1]</u></p>
37	<p><u>[Reserved; See Appendix 1]</u></p>

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38	[Reserved; See Appendix 1]
41	[Reserved; See Appendix 1]
42	Respondent shall comply with the following requirements in the interim period, starting upon issuance of this Order and until the final approval of the Rule 1150 landfill excavation plan under the application specified in Condition No. 41 above, for all excavation, as defined in Rule 1150(a)(5), and including but not limited to any west slope project work performed under a work plan, except to the extent limited by U.S. EPA, unless excavation is occurring pursuant to one or more exemption as listed in South Coast AQMD Rule 1150(c):
43	<p>To ensure that fresh trash odors remain controlled, Respondent shall maintain the following fresh trash-related odor mitigation measures recommended by its landfill operations expert from the Stipulated Order for Abatement in Case No. 6177-1 during Unfavorable Wind Conditions, as defined in the Stipulated Order for Abatement in Case No. 6177-1. Respondent shall not expose more of the working face than is operationally necessary on any working day and shall additionally maintain the following odor mitigation measures:</p> <ul style="list-style-type: none"> a. Use orchard fans, and tow-and-blow fans as needed, placed and spaced around the working face in accordance with the recommendations of Chiquita’s landfill operations expert; <u>a.</u> b. Use equipment equipped with odor neutralizer misting systems in various portions of CCL to neutralize any fresh trash odors. This equipment shall include, but not be limited to, fans and arm tower misters; c. Identify and appropriately handle odorous loads at the scale and working face as new waste loads enter CCL; d. Haul odorous loads with proper sequencing and cover; and

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	<p>e. Regularly train staff on all aspects of landfill operations, employee safety, and odor control.</p> <p><u>f.</u> If Respondent detects trash-based odors at any stops during any odor surveillance conducted pursuant to Condition No. 1(f) during Respondent’s operating hours, Respondent shall deploy additional permitted orchard-style fans to the working face and surrounding area. If Respondent is not able to confirm the reduction of trash based odors within 1 hour of deployment of additional fans, Respondent shall reduce its working face by 25% of that day’s total size for the remainder of the operating day.</p> <p><u>g.</u> <u>To ensure that reaction area, leachate, landfill gas, chemical-like, and other odors throughout the Landfill remain controlled, Respondent shall maintain the following odor mitigation measures:</u></p> <p style="padding-left: 40px;">A. <u>Use orchard fans, and tow-and-blow fans as appropriate and where feasible around other areas of the Landfill with noticeable odors;</u></p> <p style="padding-left: 40px;">B. <u>Regularly train staff on all aspects of landfill operations, employee safety, and odor control.</u></p>
45	<p>Respondent shall install, maintain in good working order, and operate 1,000 feet or more of Semi-Permanent Vapor Odor Control in the Reaction Area (as defined in Condition 9(a)) within 14 days of the approval of this Order. Respondent shall operate the Semi-Permanent Vapor Odor Control system from 6am to 10am while the winds are blowing in the direction of Val Verde, or during any <u>non-exempt Rule 1150</u> excavation work including but not limited to <u>non-exempt Rule 1150 excavation conducted during</u> the West Toe Buttress work, <u>except to the extent limited by U.S. EPA, or during well drilling activities.</u></p>
46	<p>Respondent shall operate and maintain in good working order a landfill perimeter odor control misting system on permanent fencing on the west and northwest of the property. <u>If Respondent is required to remove the perimeter fencing for work approved by another regulatory agency, Respondent shall, upon completion of such work, install perimeter odor control on all new perimeter permanent fencing installed on the west and northwest of the property.</u></p>

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47	<p>The landfill perimeter odor control misting system shall be operated immediately and continuously upon receiving data from the meteorological station, referenced in Condition No. 44 above, that the 1-hour averaged wind direction is blowing in West, Northwest, North, or Northeast directions (270 degrees to 45 degrees). The misting system shall continue to operate until the 1-hour averaged wind direction data demonstrates the wind is no longer blowing in the specified directions. The system shall be operated in such a manner and with sufficient odor neutralizers to mitigate, to the extent possible, transient odors from the landfill into surrounding communities, as determined by the Reaction Committee.</p> <p><u>a. Notwithstanding the forgoing, if Respondent removes the perimeter fencing and installs new perimeter fencing pursuant to Condition 46 above, Respondent shall cease operations of the odor control misting system until a new perimeter odor control is installed on the new perimeter fencing. Following such install, Respondent shall operate the new perimeter odor control pursuant to this condition.</u></p>
52	<p>Respondent shall reserve 60 minutes biweekly to host a virtual meeting between South Coast AQMD technical staff and Respondent / Respondent's technical consultants to discuss key updates on Respondent's implementation of this Order and any changes to Landfill conditions or operations.</p> <p><u>a. Respondent shall, at a minimum, ensure attendance of at least 1 person able to speak to: 1) landfill gas collection and combustion, 2) air monitoring, 3) leachate collection, treatment, and disposal; 4) onsite operational improvements including but not limited to geomembrane cover and/or status of US EPA workplans; and 5) daily on-the-ground operations at the Landfill.</u></p> <p><u>a.b. Any instance of the biweekly meeting may be extended to 90 minutes at South Coast AQMD's discretion where South Coast AQMD provides notice via email not less than 3 calendar days in advance of the scheduled meeting.</u></p> <p>Any instance of the biweekly meeting may be cancelled at South Coast AQMD's sole discretion.</p>
56	<p><u>[Reserved; See Appendix 1]</u></p>

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57	[Reserved; See Appendix 1]
58	[Reserved; See Appendix 1]
59	[Reserved; See Appendix 1]
60	[Reserved; See Appendix 1]
61	[Reserved; See Appendix 1]
62	[Reserved; See Appendix 1]
63	By June 12, 2026 , Respondent shall provide South Coast AQMD with a schematic of the current leachate treatment system and leachate storage system, including but not limited to connections, flow lines, treatment vessels, aeration tanks , storage tanks , and tank groups, vent lines to control equipment, control equipment , lines to and between leachate tanks, tanks which are connected and not connected to vacuum vent lines, and the leachate tanker truck loading/unloading equipment and locations . Respondent shall provide a revised schematic in the monthly Condition 8 reports following any month during which Respondent has completed any changes or modifications to the leachate treatment system and/or leachate storage system that would be reflected on the schematic.

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66	<p>Beginning September 2024, Respondent shall increase the frequency with which it monitors for temperature and pressure at landfill gas collection wells within the Reaction Area to twice monthly.</p> <p>a. <u>[Reserved; See Appendix 1]</u></p> <p>i. <u>[Reserved; See Appendix 1]</u></p> <p>ii. <u>[Reserved; See Appendix 1]</u></p> <p>iii. <u>[Reserved; See Appendix 1]</u></p> <p>iv. <u>[Reserved; See Appendix 1]</u></p> <p>1. <u>[Reserved; See Appendix 1]</u></p> <p>v. <u>[Reserved; See Appendix 1]</u></p> <p>vi. <u>[Reserved; See Appendix 1]</u></p> <p>vii. <u>Respondent shall continue operating a remote monitoring system which measures temperature in at least twenty (20) wellheads operated in the Initial Reaction Area (defined as the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2 as specified in Condition No. 9(a)). Should any of the remote monitoring system equipment fail due to the Reaction Area conditions at the Landfill, Respondent is not required to replace it. Notification of this failure shall be submitted to South Coast AQMD within 14 days of failure. Notification shall include suspected reason(s) for failure, and proposed remedies/solutions for the future. If the failure was suspected to be due to Reaction Area conditions, Respondent shall provide a subsequent notification within 60 days of the failure, including evidence detailing how and why the failure occurred due to ETLF conditions. This evidence shall include, but shall not be limited to, a root cause analysis of the failure, well conditions (temperature, pressure, liquids, gas quality, etc.) prior to the failure, records of preventative maintenance performed, reasons for the failure, and solutions.</u></p>
67	<p><u>Respondent, following any change in appointment of Landfill management, shall designate an Inspection Liaison responsible for coordinating the exchange of information between Respondent and South Coast AQMD. Respondent shall notify South Coast AQMD (attn: Baitong Chen [bchen@aqmd.gov]; Nathaniel Dickel [ndickel@aqmd.gov]; Christina Ojeda [cojeda@aqmd.gov]) within 2 business days, including 1) the date of departure of the prior Liaison</u></p>

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	<u>personnel, and 2) the Name, Title, Effective Date, and Contact Information [e.g. business phone number and/or email address] for the new Inspection Liaison.</u>
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> <ol style="list-style-type: none"> a. LandGEM inputs, assumptions, and results; b. Reaction Committee analysis and associated rationale and supporting data or information; and c. A comparison of the estimated landfill gas generation, both current and projected, with the landfill’s flaring capacity <u>as based on actual operational flaring capacity or expected capacity for flares or thermal oxidizers not yet installed</u>, both current and proposed, assuming one or more flares or thermal oxidizers are offline due to maintenance, overhaul, or other unforeseen circumstances. <p><u>By July 10, 2026, Respondent submit an updated report, including at a minimum, the items mentioned in 70(a), (b), and (c) above.</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> <ol style="list-style-type: none"> 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.

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70(b)	<u>During the planned installation of additional and/or replacement flares, Respondent shall ensure sufficient redundant control capacity is on site and operational to maintain a total minimum flow of no less than 12,000 cubic feet per minute during downtime resulting from control equipment installation and/or replacement.</u>
70(c)	<u>During the installation of Flare 4, Respondent shall add redundant header capacity, including redundant headers from the landfill to the H2S vessel(s), H2S vessel(s) to the flare station, and between and into the knockout pots.</u>
71	<u>[Reserved; See Appendix 1]</u>
72	<p>Respondent shall conduct sampling and analysis, testing, installation, and monitoring of the leachate and landfill gas condensate collection, storage, and treatment tank system, as specified below:</p> <ol style="list-style-type: none"> a. At least quarterly<u>semi-annually</u>, conduct testing to sample and analyze the vapor flow in the piping used to vent the leachate storage/treatment tanks and landfill gas condensate storage/treatment tanks and route the vapors to the landfill gas control system, and the landfill gas header line(s) feeding the flares/thermal oxidizers. The testing shall at least include the following items and the results of this testing shall be provided in the monthly report pursuant to Condition No. 8.: <ol style="list-style-type: none"> i. vented leachate tank vapor flowrate, ii. vented condensate tank vapor flowrate, iii. vapor temperature, iv. concentrations of speciated organics (including but not limited to Rule 1150.1 Table 1

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	<p style="text-align: center;">Carcinogenic and Toxic Air Contaminants),</p> <ul style="list-style-type: none"> v. the total sulfur compounds as H₂S and speciated sulfur compounds, and vi. testing at each of the locations indicated below: <ul style="list-style-type: none"> 1. The tank vents or manifolds which are representative of a set of tanks; 2. The header/manifold from each leachate tank farm or manifold including Tank Farm #7, Tank Farm #9, North Perimeter Manifold, New East Perimeter Manifold, LC Manifold, landfill gas condensate storage tanks, and any other future tank farms or manifolds, with testing performed upstream of the piping connection to the LFG Collection and Conveyance System where landfill gas may affect results; and 3. The inlet of the flare(s)/thermal oxidizers prior to combustion. 4. The landfill gas header line(s) to the flares/thermal oxidizers (upstream of leachate/condensate vapor mixing) vii. gas heat rating (BTU/scf) viii. Landfill gas vapor flowrate <ul style="list-style-type: none"> b. A modified source test protocol for this testing shall be submitted to South Coast AQMD by June 30, 2026, unless otherwise approved in writing by South Coast AQMD. Testing shall be conducted within 45 days of receiving written approval of the source test protocol by South Coast AQMD, and the final results in a source test report format shall be submitted within 30 days of testing, unless otherwise approved in writing by South Coast AQMD. c. Within 30 days of the initial source test report, Respondent shall submit a recommendation from the Reaction Committee on additional vapor flow testing to the South Coast AQMD [attn: Baitong Chen, behen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov]. The

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	<p style="text-align: center;">Reaction Committee may submit further recommendations regarding additional vapor flow testing to the South Coast AQMD within 30 days of additional source testing under this condition. <u>[Completed]</u></p> <p>d. <u>[Completed]</u> Beginning April 29, 2024, at least daily, conduct pressure testing and monitoring within the HDPE header(s) venting the leachate storage tanks to quantify the vacuum from the flare station blowers exerted on the leachate tanks, in inches of Water Column (W.C.). Pressure testing and monitoring as specified in this condition is not required upon complete installation of pressure gauges as specified in Condition 68.</p> <p style="padding-left: 40px;">i. <u>[Completed]</u> Daily pressure readings, pressure testing location, indication of the tank farm represented by the test results, and indication of each tank within the tank farm represented by the test results shall be submitted in the monthly report per Condition No. 8.</p> <p>e. <u>[Completed]</u> By June 28, 2024, unless otherwise approved in writing by South Coast AQMD, install flow meters within the HDPE piping headers for associated leachate tank farms to accurately measure and record the flow rate (scfm) and total daily volume of vented leachate tank vapors being sent to the flare station for combustion. The flow meters shall be installed according to manufacturer specifications and recommendations to ensure accurate flow readings.</p> <p style="padding-left: 40px;">i. Daily flow rate (scf/day), flow meter location, indication of the tank farm whose flow is being measured, and indication of each tank within the tank farm vented and represented in the flow rate shall be submitted in the monthly report per Condition No. 8. <u>[Reserved]</u></p>
73	<p>Respondent shall prepare an inventory of all internal combustion engine equipment rated greater than 50 HP onsite as of April 25, 2024 and shall submit this inventory to South Coast AQMD by May 21, 2024. Respondent shall submit a permit application for internal combustion engine equipment rated greater than 50 HP that is not already permitted through South Coast AQMD by June 30, 2024, accompanied with a complete Title V Revision application(s) and shall be submitted with an expedited permit processing request and associated required fees, forms, and information. Going forward, Respondent shall submit a permit application, accompanied with a complete Title V Revision application(s),</p>

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	for any internal combustion engines <u>rated</u> greater than 50 HP brought on site that does not already have a valid permit under Respondent’s Title V Facility Permit or that does not already have a complete application submitted to South Coast AQMD for the engine to be included in Respondent’s Title V Facility Permit.
75	<p>Respondent shall expand the real-time, remote monitoring system installed in accordance with Condition 66(a) and 66(a)(v) to include a minimum of 21 remote monitoring units mounted on wellheads located around the outside perimeter of the data determined Reaction boundary as specified in Condition 9(b), and a minimum of 5 remote monitoring units mounted on landfill gas headers conveying gas from the Condition 9(b) Reaction boundary.</p> <p>a. Respondent shall <u>continue operating the procure, install and begin operation of</u> remote monitoring units <u>installed by October 31, 2025 pursuant to the Order, unless otherwise approved in writing by South Coast AQMD. Notice of completed installation and operational start 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)] by November 3, 2025.</u></p> <p>b. The wellhead units shall include 19 permanent units, to be located on a particular wellhead for at least 12 months, and shall include 2 mobile units which may be relocated on site as necessary.</p> <p>c. The 19 permanent units shall be installed on wells located in the immediate vicinity surrounding the Condition 9(b) Reaction boundary, including the following wells: CV-1906, CV-24120, CV-24126, CV-2455, CV-2454, CV-2305, CV-2476, CV-24148, CV-24149, CV-2314, CV-2474, CV-24151, CV-2472, CV-2488, CV-2482, CV-2480, CV-2466, CV-2344, and CV-2350, or as recommended by Respondent and its vendor/distributor. Any changes to the above-mentioned well selection shall be provided to South Coast AQMD in writing and shall include rationale and justification for installing the unit(s) on any alternative wells.</p> <p>d. The 5 header units shall be installed on primary header lines conveying gas from the Condition 9(b) Reaction boundary and surrounding areas. The header unit locations shall be for strategic monitoring of the gas collection system to allow for maximum gas extraction, and to allow for quick actions to be taken to resolve issues noticed upstream or downstream of the units. Two header units shall be installed on the following header lines: 24-inch header piping running near CV-1426, 12-inch header piping running near CV-24098, unless otherwise approved in writing by South Coast AQMD.</p> <p>e. All units shall be capable of monitoring temperature, pressure, and vacuum. The units installed on wells without dewatering pumps shall also be capable of monitoring liquid levels.</p>

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	<p>f. [Reserved; See Appendix 1] By August 29, 2025, the Reaction Committee shall submit a proposal to assess the viability and functionality of adding gas flow rate and composition as monitoring parameters to at least five (5) units installed on the wells listed in this condition. The Proposal shall be submitted to Baitong Chen [bchen@aqmd.gov]; Nathaniel Dickel [ndickel@aqmd.gov]; Christina Ojeda [cojeda@aqmd.gov]. Respondent shall conduct the feasibility assessment. The Reaction Committee shall submit a final report to the South Coast AQMD (to Baitong Chen [bchen@aqmd.gov]; Nathaniel Dickel [ndickel@aqmd.gov]; Christina Ojeda [cojeda@aqmd.gov]) detailing the results of the feasibility study, and recommendations on further deployment of the remote monitoring system not later than 210 days from submittal of the feasibility proposal with a minimum of 3 months of data collection.</p> <p>g. Data collected by the monitor units shall be immediately recorded and uploaded as to be available to review in the vendor/distributor’s provided graphical user interface. The graphical user interface shall include historical data, and shall be continuously updated with newly gathered data. Additionally, the graphical user interface shall allow for simple filtering and review of wellhead pressure, system pressure, landfill gas temperature, landfill gas flowrates, and landfill gas composition measurements and trends for each monitor unit. South Coast AQMD shall be granted read and download access to this graphical user interface, to review historical and real-time data.</p> <p>h. Records documenting actions performed to resolve issues, and dates and times for discovering and resolving issues as a result of the RMS shall be kept and maintained daily on site, and shall be provided to South Coast AQMD upon request.</p> <p>i. Records documenting the inspection and maintenance activities performed on the monitoring units required by this condition shall be kept and maintained on site, and shall be provided to South Coast AQMD upon request.</p> <p>j. Records documenting any periods of Condition 75 RMS equipment downtime, monitor units involved, the date and times of the downtime, reason(s) for the downtime, and steps taken to resolve the downtime shall be kept and maintained on site, and shall be provided to South Coast AQMD upon request.</p>
76	<p>Respondent shall install sample ports on all equipment on site that requires sampling, to prevent unnecessary fugitive emissions from sampling activities, <u>and shall continue collecting samples from the sampling ports installed pursuant to the Order, unless otherwise approved in writing by South Coast AQMD.</u> By December 2, 2024, Respondent shall install sampling ports on all subject equipment and collect samples from the sampling ports thereafter, unless otherwise approved in writing by South Coast AQMD. For new equipment brought on site that requires sampling, sample ports shall be installed within 30 days of bringing the equipment on site, or within 15 days of starting operation of the equipment, whichever is sooner, unless otherwise approved in writing by South Coast AQMD.</p>

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77	<p>Respondent shall conduct aerial surveillance over the entire landfill <u>Main Canyon</u> surface on a monthly<u>weekly</u> basis, and over the Reaction Area defined in Condition 9(a) on a weekly basis, employing a drone equipped with sensors with a minimum detection level of 1 ppmv methane, and in accordance with OTM-51. If an aerial surveillance reading reaches or exceeds 200 ppmv methane, Respondent shall conduct follow-up ground-based surface emission monitoring field inspections according to the procedures of OTM-51 and U.S. EPA Method 21, unless Respondent is unable to monitor the subject locations due to inaccessibility or dangerous conditions for a technician. The follow-up field inspection shall be performed within 2 hours of becoming aware of aerial surveillance exceedances. If an exceedance of 500 ppmv methane is found or confirmed during the follow-up inspection, Respondent shall implement corrective actions within 2 calendar days, including but not limited to, geosynthetic cover maintenance or repair, landfill cover maintenance or repair, wellfield vacuum adjustments, and piping/gas component maintenance or repair. Respondent shall develop 1) a color-coordinated geospatial interpolated methane map displaying the absolute value results of the methane readings, 2) a color-coordinated geospatial interpolated methane map displaying the change in methane readings as compared to the prior aerial surveillance, 3) a map displaying geolocated coordinates with local methane peaks and ground-based follow-up peak verification, and 4) a map displaying the drone flight path. The local methane peak map (map #3) shall include a color legend to differentiate locations displaying methane readings of 1) < 200 ppmv, 2) ≥ 200 and < 500 ppmv, 3) ≥ 500 and < 1,000 ppmv, 4) ≥1,000 and < 2,000 ppmv, 5) ≥2,000 and < 5,000 ppmv, and 6) ≥ 5000 ppmv, or as otherwise approved in writing by South Coast AQMD. The interpolated maps displaying the absolute value (map #1) and change in methane readings (map #2) shall include a color legend to differentiate the magnitude of the reading, as determined by Respondent, or as otherwise requested by South Coast AQMD. The maps, follow-up field inspection measurements and locations with associated dates/times, causes of exceedances (500 ppmv methane or greater), any corrective actions performed, and documentation (date, time, reasoning) of field inspections not performed due to inaccessibility or dangerous conditions shall be provided in the subsequent monthly report pursuant to Condition 8(c). Raw data used to create any of the above documents shall be provided to South Coast AQMD within 5 working days of request.</p>

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81(b)	<p>This notification shall be posted online at least 48 hours prior to a planned downtime event, unless the event is planned less than 48 hours before the planned downtime. If there is less than 48 hours before the planned downtime, Respondent shall provide the notification as soon as possible, within 1-hour of finalizing plans for the downtime <u>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.</u> For unplanned downtime, notification shall occur within 1-hour of reasonable discovery of any collection or control equipment issue resulting in unplanned downtime <u>made during 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.</u> The notification shall inform the public of the control equipment downtime, expected extent (in days/hours) of the downtime, and the possibility of increased odors in the community during the indicated period.</p>
81(c)	<p>Respondent shall, by November 18, 2024, develop a system allowing members of the public to sign-up for notifications of such outages or downtime, <u>and resumed operation</u> via email or text message. Respondent shall develop the system such that any personally identifying information (including but not limited to name, phone number or email address) shall not be received nor retained directly by Respondent, any subsidiary or parent company of Respondent, or any direct employee of Respondent. Respondent shall deploy this system within three (3) business days of receiving notice to deploy from South Coast AQMD.</p>
81(d)	<p><u>A follow-up notification shall be posted online within 2 hours after the gas collection and control equipment has resumed operation if such resumption occurs during working hours (7am-6pm Monday through Friday; and 8am-5pm Saturday and Sunday). After working hours, Respondent shall post the notification as soon as possible, not to exceed 2 hours from the start of the next working day. The follow-up notification shall inform the public of the start date/time and end date/time of the associated control equipment downtime.</u></p>
82	<p>Respondent shall provide notification to South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov; Larry Israel, lisrael@aqmd.gov] whenever any landfill gas collection or control equipment (i.e. gas collection wells/trenches, headers, flares, thermal oxidizer(s), blowers, etc.) has scheduled and/or unplanned downtime. Downtime refers to cessation of operation lasting 30 minutes or longer, according to the following:</p> <p>a. Downtime of 30 Minutes or Longer:</p>

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	<p>i. Respondent shall provide the notification required by this Condition 82 for any individual control device that has downtime which is anticipated to last 30 minutes or more, or once any downtime for an individual control device reaches 30 minutes of downtime.</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), 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> <p>b. 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 <u>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.</u> For unplanned downtime, notification shall occur within 1-hour of reasonable discovery of any control equipment issue resulting in unplanned downtime <u>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.</u> 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. The initial notification, and subsequent notifications/follow-up report shall include the following items, unless otherwise noted below:</p> <p>i. Reason(s) for the downtime,</p> <p>ii. Specification of whether the event was planned or unplanned event,</p> <p>iii. Estimated (initial notification) and actual (subsequent notification/follow-up report) start and end dates and times of the downtime event,</p> <p>iv. Meteorological data (15-minute averaged), including wind direction(s) and wind speed(s), starting from 48 hours prior to the downtime event, and, <u>if possible,</u> extending until 24 hours after associated equipment start-up and resumed operation during the period of downtime (subsequent notification/follow-up report only),</p> <p>v. Facility-wide minute by minute landfill gas flow data, in Microsoft Excel format, starting from 48 hours prior to the downtime event, and extending until 24 hours after associated equipment start-up and resumed operation (subsequent notification/follow-up report only),</p>

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	<p>vi. A running log of all combustion equipment downtime events reported pursuant to Condition 82, including the equipment name (e.g., Flares 1, 2, 3, or Zeeco 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>c. The notifications specified in this condition are additional notifications and do not replace Title V and/or breakdown notifications required by South Coast AQMD or Federal Regulations, or by the Title V permit.</p>
82(b)(vii)	<u>If the downtime for 2 or more control devices is, or is expected to be, the result of a common reason (e.g. header work serving multiple devices), additional details shall be provided in the initial and follow-up notifications. These shall include, but are not limited to, a detailed explanation of the work, reason(s) for the work, detailed explanation of why simultaneous downtime is necessary and why the downtime cannot be staggered, and supporting information/evidence (e.g. drawing(s) showing common piping, planned work, etc.).</u>
83	<u>[Reserved; See Appendix 1]</u>
85	<u>[Reserved; See Appendix 1]</u>
86(c)	The operation of the equipment shall not result in the release of any raw landfill gas, or discharge of odorous liquid vapors into the atmosphere, except for when collecting samples from leachate treatment equipment. <u>Respondent shall continue collecting samples from the sampling ports installed pursuant to the Order on all leachate tanks for which leachate sampling would occur and would otherwise result in leachate exposure to open air during sampling. By November 1, 2024, Respondent shall install sampling ports on all leachate tanks for which leachate sampling would occur and would otherwise result in leachate exposure to open air during sampling, and thereafter shall collect samples</u>

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	from such sampling ports. By November 1, 2024, Respondent shall also prepare and submit to South Coast AQMD (Baitong Chen [bchen@aqmd.gov]; Nathaniel Diekel [ndiekel@aqmd.gov]; Christina Ojeda [cojeda@aqmd.gov]) a schematic of the leachate treatment equipment, showing where the sampling ports are located.
86(d)	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 (i.e. thermal oxidizer(s), flare station(s)). This does not include the liquid treatment granular activated carbon adsorbers, or liquid filtration equipment which operate under positive pressure. Storage tanks <u>and aeration tanks</u> with vapor headspace shall not be excluded from the requirements of Condition No. 86(d).
87	Respondent is prohibited from conducting planned landfill gas combustion/control equipment downtime for three (3) or more landfill gas combustion/control units (Flares, Zeeeo unit <u>or thermal oxidizers</u>) at any one time, unless approved in writing by South Coast AQMD or where Respondent is conducting work under any of the following scenarios that requires the gas flow to be cut off from the flares <u>and has sufficient redundant control capacity in accordance with Condition 70 to maintain control capacity during downtime</u> : <ul style="list-style-type: none"> a. Installing a new flare under an approved authority to construct; b. Installing or replacing the blowers to the landfill gas flares; c. Performing installation or maintenance activities; d. Performing installation or maintenance activities that require Respondent to remove the piping coming into the flare station; or e. Performing installation or maintenance activities on the flares or flare station that require the use of a crane.
94	<u>[Reserved; See Appendix 1]</u>
95	<u>[Reserved; See Appendix 1]</u>

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96	<u>[Reserved; See Appendix 1]</u>
102	<u>[Reserved; See Appendix 1]</u>
103	<u>[Reserved; See Appendix 1]</u>
New #1 (104)	<p><u>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:</u></p> <p><u>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 106(c), below.</u></p> <p><u>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).</u></p>

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	<p><u>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 106(a), Respondent shall begin installation of the supplemental fuel system(s) per the timeline established in Condition 106(b).</u></p> <p><u>Extensions to the proposed schedules may be allowed, if approved by South Coast AQMD in writing.</u></p>
New #2 (105)	<p><u>Respondent shall provide any requested and available landfill gas and/or leachate vapor collection and control equipment records (e.g. gas flowrates, gas heat value, gas composition, stack temperature, pilot/supplemental fuel usage rates, etc.) within 3 working days of request by South Coast AQMD, unless otherwise approved in writing by South Coast AQMD.</u></p>
New #5 (106)	<p><u>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.</u></p>
Old 104 (107)	<p>Respondent shall return for a status and modification hearing on May 28<u>September</u> __, 2026, or as soon thereafter as the Hearing Board can schedule a hearing.</p>