

## **CCL - Draft 2023 Annual Compliance Report Public Works' Review Comments**

Public Works (PW) has reviewed the Draft 2023 Annual Report dated March 2024, submitted pursuant to the requirements of the Chiquita Canyon Landfill's Conditional Use Permit (CUP) Number 18, and Part XII of the Implementation and Monitoring Program (IMP), and we have the following comments:

### **General Comments**

For future draft annual reports, please use the previous year's final annual report as template to avoid receiving similar general comments. We noticed that the comments we provided in last year's draft annual report resembled some of the comments we provided below.

### **Section 1 – Solid Waste and Beneficial Use Materials**

- Table 1 – Summary of Material Received During the 2022 Reporting Period.
  - For consistency with wastes reported to various agencies, please update the table to reflect the total tonnages reported on the attached zipped Implementation and Monitoring Plan – Part III Monthly Monitoring Reports, which are submitted to Public Works.
- Table 2 – Cumulative Totals of Waste Disposed
  - Please conduct a comprehensive review of data provided on Table 2 to ensure consistency with reported “Total Material Received” from previous and current reporting periods and revise the reported numbers accordingly to reflect the correct figures.

### **Section 2 – Waste Disposal Plan**

- For future Annual Reports, please also provide the original electronic file (e.g. AutoCAD, MicroStation, etc.) of the landfill survey that was conducted for the reporting period.

### **Section 3 – Weight to Volume Ratio**

- In the 2<sup>nd</sup> paragraph (last sentence), please revise “2022 compliance period” to “2023 compliance period.”
- Please make sure that the information provided in Table 4 are based on the latest available Annual Report by the County. If the landfill density values provided are not consistent with the latest 2022 Annual Report, please revise the table to reflect the latest information.
  - Please revise “2021 Annual Report” to “2022 Annual Report”
  - For your reference, here is the link to the [2022 Annual Report](#).
- **Table 4 – Landfill Density Comparison**

- Revise the column name for “Disposal Rate” to “Average Disposal Rate.”
- Revise the source from “LACPW 2022” to “Countywide Integrated Waste Management Plan – 2022 Annual Report.”

### **Section 6 – Complaint Summary**

- Since not all complaints provided on Table 6 are reported to CCL, please generalize the Table title to: “Summary of Reports Regarding Litter, Noise, Dust, and Odor Complaints.”

### **Section 7 – Citation and Notices of Violation Summary**

- Please make sure that inspection reports identifying violations by the Local Environmental Agency (LEA) are referenced in this report, specifically those dated 6/29/2023 and 9/1/23. Please also provide a status update on these unresolved issues mentioned in other site inspection reports by the LEA, and if these issues have not been resolved, include them in the report.

### **Section 12 – Traffic Minimization**

- With the odor incident at CCL beginning in May 2023, please discuss how the truck trips and queuing associated with leachate transportation to offsite facilities are mitigated. This may require a revision to the Unnecessary Truck Trip and Queuing Minimization Plan.

### **Section 14 – Landfill Gas Collection and Management**

- **Table 9 – Landfill Gas Collection Efficiency**
  - Please provide an explanation for why the collection efficiency in 2023 was not included and, instead, is listed as "To Be Determined" (TBD).

### **Appendix F, Table F1. CUP Compliance Summary Table**

- **Condition No. 12**
  - Please include the Notice of Violation (NOV) received from Regional Planning for the violation of Conditions 12 and 63.
- **Condition No. 54**
  - Please ensure that the compliance status reflects the inclusion of Condition 54 into the Settlement Agreement, as approved by the Los Angeles County Board of Supervisors on October 11, 2022.
- **Condition No. 63**
  - Please include the Notice of Violation (NOV) received from Regional Planning for the violation of Conditions 12 and 63.
- **Condition No. 68**

- CCL refers to the CAMP as Community Air Monitoring Protocol. However, the CAMP was typically referred to as the Community Air Monitoring Program. Please revise.
- Please revise from “LADPW” to “LACPW”
- Similar to comments provided last year, please include in the compliance status the discreet sampling performed by CCL as part of the CAMP Reports. As such, please include in the second to the last paragraph the following: “In addition, the consultant performed discrete sampling at the monitoring station locations for a variety of constituents outlined in the CAMP. The Third Quarter 2022 Community Air Monitoring Report was published in November 2022 and posted on the LADRP and CCL websites.”
- **Condition No. 69**
  - Please include the information that since July 27, 2023, CCL has been submitting reports to various agencies pursuant to Condition 69 of the CUP.
- **Condition No. 77**
  - Please ensure that the compliance status indicates that this Condition was challenged in a lawsuit filed by CCL and was incorporated into the Settlement Agreement approved by the Los Angeles County Board of Supervisors on October 11, 2022.
- **Condition No. 79**
  - Please ensure that the compliance status indicates that this Condition was challenged in a lawsuit filed by CCL and was incorporated into the Settlement Agreement approved by the Los Angeles County Board of Supervisors on October 11, 2022.
- **Condition No. 125**
  - Please note that this condition was challenged in a lawsuit by CCL and is part of the Settlement Agreement. Please revise the compliance status accordingly

## **Appendix F, Table F2. IMP Compliance Status Summary Table**

- **IMP Part VI**
  - Please indicate if, and when, Public Works has approved the Waste Load Checking Program.

**Chiquita Canyon Landfill**  
**2023 Draft Annual Compliance Report**  
**LA County Planning Comments**

1. General comment – It appears that many edits that were made for the 2022 Final Annual Report **were not** carried over to the 2023 Draft report.
2. Table of Contents
  - a. Section 7 of the TOC is missing LA County Planning’s NOV and the numbering references the incorrect NOVs.
3. Table F1 – CUP Compliance Status
  - a. Please carry forward clarification statements from the 2022 Final Annual Report related to conditions that were addressed or dismissed as a result of the Settlement Agreement.
    - i. For the conditions that will be modified as part of the settlement agreement (ie., 1, 3, 7, 19, 23, 37, 38, 40, 43, 54, 77, 79, 111, 116-120, 123, 125, and 126), it should be noted that these conditions will be modified as part of the settlement agreement. Please add statement from the 2022 report: “CCL has a pending application to modify this condition to implement the settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.”
    - ii. There are challenged conditions that were not addressed as part of the settlement agreement, including Conditions 9, 28, 29, 34, 35, 36, 39, 42, 48, 109, 115, 121, 122, 124, and IMP Part I. As there is no longer a nexus, please remove references to the lawsuit for these conditions. If CCL insists on keeping the language, please clarify and differentiate the status for these conditions accordingly. Please add from the 2022 report: “This settlement agreement resolves the challenge to this condition.”
  - b. Condition 8: During the 2023 Reporting Period, CCL made additional payments to LADRP of \$25, 952.13 on March 14, 2023, and \$6,547.41 on ~~March 2~~ May 31, 2023.
  - c. Condition 12: LA County Planning issued an NOV to CCL on August 18, 2023 for violation of Conditions 12 of the CUP. Please update the compliance status in this table.
  - d. Condition 23: There is an exceedance in the facility annual maximum capacity for solid waste (excluding beneficial use). Please clarify.  
le: 2023 Reporting Period Total for Municipal Solid Waste of 2,193,713.07 tons > 2,064,300 tons per CUP Condition 23(E)(1).
  - e. Condition 40: Please note any temporary extended hours of operation approved by other regulatory agencies (Ex. Approval by LEA in November 2023 to address leachate.)
  - f. Condition 63: LA County Planning issued an NOV to CCL on August 18, 2023 for violation of Conditions 163 of the CUP. Please update the compliance status in this table.

- g. Condition 64: Please note the limited use of LFGTE in 2023 due to the landfill reaction.
- h. Condition 125A: On March ~~17~~ 14, 2023, CCL deposited an additional \$21,539.55 for Condition No. 125 Part A.

4. Table F2 – IMP Compliance Status

- a. Part XI: During the 2023 Reporting Period, ~~online~~ in-person CAC meetings in 2023 were held on January 10, April 11, July 11, August 15, September 12, October 10, November 14, and December 12. A virtual option was provided beginning the November 14<sup>th</sup> meeting.
- b. Part XIV: Add “The 2022 CCL Annual Compliance Report was certified during the June 29, 2023 TAC meeting.”

## CCL Draft 2023 Annual Compliance Report LEA Comments

- **PDF page 26: 7.3 LEA NOVs**

Confirming the following items noted:

- LEA conducted inspections on September 19, 2023 and November 28, 2023.
- LEA 9.19.23 inspection noted 2 violations – subsurface methane exceedance and leachate seepage.
- LEA 11.28.2023 inspection noted 3 violations – subsurface methane exceedance, leachate seepage and maintenance for failure to keep all aspects of the site in a state of reasonable repair.

**LEA Comments:**

**The summary did not include the LEA's site inspection report dated October 25, 2023. Violations related to subsurface methane exceedance and leachate seepage were noted in the inspection report.**

- **PDF page 39: Section 13 - Odor Control and Mitigation** states that the OIMP is required to be prepared for approval by LACPW, LADRP, SCAWMD, LEA. The OIMP was submitted to the LEA on November 21, 2017 and no comments were provided by the LEA.

**LEA Comments:**

- **The OIMP that is discussed in this section pertains to the landfill operation and is a requirement of the CUP 74, not the LEA requirement for disposal sites.**
- **The OIMP is specific to compostable material handling operations and facilities (14 CCR 17863.4). CCL does have an activity for composting that is pending (not actively composting), therefore, LEA did not comment.**

- **PDF page 41 (bottom) continuing on next page - CalRecycle – Recommended Mitigation Measures** states the following are measures recommended by CalRecycle by letter on October 17, 2023 that are in addition to recommendations required by the SCAQMD's stipulated order:

- Extend the geographic scope of the geosynthetic cover
- **Apply and maintain a flexible membrane liner or light scrim over the remainder of the area affected by the landfill reaction**
- **Following installation of the flexible membrane liner or light scrim, operate gas wells in the reaction area at or below 5% oxygen using best management practices**
- Install well boots seals on all wells in the reaction area
- Replace damaged, blocked, or pinched polyvinyl chloride wells
- Address wells with temperatures consistently over 170°F
- Measure leachate temperatures on a monthly basis
- Sample leachate for benzene and other volatile organic compounds on a quarterly basis
- Obtain a drone with sensors that allow for GPS, methane, and instantaneous surface monitoring and use it on a biweekly basis
- Add carbon monoxide concentration data to the monthly reports required by the Stipulated Order

## LEA Comments:

Some discrepancies between what CCL stated the LEA said and what the LEA actually said in the LEA letter. See yellow and blue highlighted sections. The following list includes recommendations provided by LEA/CalRecycle and CCL's Response provided.

1. Repair cracks in the soil cover within 48 hours in and around the Reaction Settlement Area and any well showing signs of a reaction (already implemented and ongoing per CCL)
2. Place and compact a minimum cover of 24 inches of 1 x10<sup>-6</sup> low permeability soil in and around the Reaction Settlement Area and a radius of 30 feet of soil around any well with temperatures over 160°F or CO concentrations over 1,500 ppmv (CCL plans to install geomembrane cover)
3. Install well boots seals on all wells in and adjacent to the Reaction Settlement Area and any wells with temperatures over 160°F or CO concentrations over 1,500 ppmv (will begin doing so per CCL)
4. Replace all PVC wells that have been damaged, blocked, pinched, or that have gas temperatures over 145°F with steel wells (already implemented and ongoing per CCL)
5. Install additional steel wells in the Reaction Settlement Area and other areas where the gas extraction temperature exceeds 170°F to capture the additional gas generated by the incident (already implemented and ongoing per CCL)
6. Once additional gas extraction capacity is installed, remove all oxygen HOVs for interior gas wells and operate gas extraction wells with less than 3 percent oxygen where feasible. Use best management practices to keep oxygen below 5 percent in an interior well (one month following installation of flexible membrane liner/scrim installation per CCL)
7. Measure the leachate temperature at the liner level and all sumps (will begin November 2023)
8. Sample the leachate for benzene and other volatile organic compounds. Past incidents similar to Chiquita Canyon in Bridgeton and Bristol have shown that heating event increases the levels of VOCs in the leachate (will begin Q4 2024 per CCL)
9. Install temperature monitoring devices in and around the Reaction Settlement Area and other areas where gas temperatures exceed 170°F or CO over 1000 ppm. These devices should be installed within 25 ft. of a vertical LFG extraction well. These temperature devices should be able to sustain temperatures up to 750°F and be installed in boreholes up to 150 feet deep. The temperature devices should be spaced at 20-foot intervals and based on previous designs from SCS Engineering projects in Bridgton, San Diego, and Bristol. Since the temperature profiles were not successfully collected at the required enhanced gas wells C- 55R, CV-1418, CV-1419, CV-1532, CV-2202, CV-2204, H-1561C, H-1561N, below-ground temperature devices should be first installed at these wells (CCL requested to not have to implement)
10. The landfill owner should review available internal manifests or other documents as far back as possible to ensure no reactive material was accepted at this landfill (required by SCAQMD Stipulated Order, due Dec 8, 2023)
11. The landfill owner should hire an odor expert to determine which chemicals are causing the odor. A past expert at Bridgeton Landfill in Missouri identified a set of chemicals causing the greatest odor. Once the chemicals are identified, additional toxicological assessment can be performed (already implemented and ongoing per CCL)
12. Design and install a temporary geomembrane cover over the Reaction Settlement Area and other areas where gas temperatures have exceeded 170°F or CO over 1000 ppm once additional gas extraction capacity is operational (CCL plans to install geomembrane cover)

13. Consider installing remote telemetry technology to continuously collect and analyze landfill gas data at the collection wells. The real-time data and control platform can instantaneously measure and report wellhead temperatures, pressures, O<sub>2</sub>, CO, and methane concentrations. Remote access to the real-time data should be provided to regulatory agencies, i.e., SCAQMD (unnecessary at this time due to significant data being collected and potential of the technology to interfere with liquids extraction per CCL)
14. Consider utilizing a drone or land rover equipment with GPS, methane, and gas sensors to conduct daily instantaneous surface monitoring and provide real-time data throughout the Reaction Settlement Area and adjacent areas of concern. This technology can facilitate immediate operational changes, including flagging hot spots, surface cracks, and fissures (will begin December 2023 per CCL)
15. To better understand and communicate to the community if the heating/smoldering event is expanding or increasing in intensity, the CCL should submit monthly figures and data showing the reaction area, CO level, and temperature data (already implemented and ongoing and will add CO concentration data beginning 11/20/23 report to SCAQMD per CCL)

- **PDF page 42 (bottom) continuing on next page – CalRecycle-Recommended Mitigation Measures** states that LEA-issued letter dated November 21, 2023 required CCL to implement the following:

- Document and track figures, settlement, and tension cracks on a daily basis and submit weekly reports to the LEA

- Prepare a slope stability analysis work plan for LEA review and approval
- Install temperature monitoring devices in and around the reaction area
- Prepare a soil reaction break/barrier plan

**LEA Comments:**

**The following are the Mitigation Measures (MM) required by the LEA as they are numbered and referred to in current correspondence:**

**MM 1A: Develop a soil reaction break/barrier plan**

**MM 1B: Install temperature monitoring probes to obtain necessary data.**

**MM 2A: Place and compact a minimum cover of 24 inches of low permeability soil in and around the reaction settlement area and any well showing signs of reaction.**

**MM 2B: Develop a written plan that includes documentation and tracking of fissures, settlement, and tension cracks in the soil cover.**

**MM 3: Submit a workplan to perform a slope stability analysis for LEA review.**

**MM 4: Use the temperatures collected (MM 1B) to ensure manufacturer maximum temperature design specifications are met, such as for the French drain.**

**The statements made regarding explanation and corrective actions are not confirmed by LEA.**

**As the enforcement agency, the LEA does not comment beyond the scope of the California Health and Safety law and regulations, specifically CCR Title 14 and 27, and PRC.**



**Chiquita Canyon Landfill**  
**2023 Draft Annual Compliance Report**  
**UltraSystems (Independent Consultant for TAC) Comments**

1. Section 8 - Landfill Vegetation
  - a. The report states, "During the 2023 reporting period, there were no areas of the landfill that required interim or final fill revegetation. See Appendix F for the compliance status of the mitigation measure contained in the MMRP, including those that address revegetation." Primary Canyon and B Canyon are closed landfill areas. A portion of Primary Canyon is being used for soil and material storage. When will these areas be fully closed and revegetated?
  
2. Section 14 Landfill Gas Collection
  - a. On page 14-2, the report has Table 9 showing landfill gas collection efficiency for 2018 through 2023. For 2023 it shows TBD. When will the percentage efficiency be calculated?
  
3. SCS Engineers Report Data
  - a. When did the Ameresco gas-to-energy facility not operate in 2023?