Proposed Contested Conditions, June 4 and 17, 2025 Status Hearing

Condition	South Coast AQMD Proposed Language	Chiquita Canyon, LLC
No.		Proposed Language
75	Respondent shall install and operate a real-time,	[None]
	remote monitoring and control system (RMCS)	
	to monitor and control the operation of vertical	
	landfill gas extraction wells, and landfill gas	
	headers. The RMCS shall include a minimum of	
	21 remote monitoring and control (controller)	
	units mounted on wellheads located around the	
	outside perimeter of the data determined	
	Reaction boundary as specified in Condition	
	9(b), and shall include a minimum of 5 remote	
	monitoring only (monitor) units mounted on	
	landfill gas headers conveying gas from the	
	Condition 9(b) Reaction boundary. The RMCS	
	shall be procured, installed, and operated	
	according to the following requirements:	
	a. Procurement	
	i. Respondent shall contact at least	
	two reputable, third-party, RMCS	
	vendors/distributors, separate from Respondent	
	or its existing gas collection consultants, to	
	determine the operational capabilities of their	
	systems (temperature, pressure, gas quality, or	
	other limitations), and ability to operate	
	according to the requirements of this Order for	
	Abatement. Respondent shall initiate contact	
	with the vendors/distributors by June 27, 2025,	
	with full Respondent and vendor/distributor	
	communication logs and/or correspondence,	
	including RMCS capabilities or any limitations,	
	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 July 18, 2025, unless	
	otherwise approved in writing by South Coast	
	AQMD.	
	ii. Respondent shall make request(s)	
	for quote(s) from the third-party	
	vendor(s)/distributor(s) by August 1, 2025,	

South Coast AQMD v. Chiquita Canyon, LLC (Case No. 6177-4)

Condition	South Coast AQMD Proposed Language	Chiquita Canyon, LLC
No.		Proposed Language
	unless otherwise approved in writing by South	
	Coast AQMD.	
	iii. Respondent shall finalize	
	contracts with the third-party RMCS vendor/distributor, and shall submit finalized	
	contracts 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,	
	(<u>cojeda@aqmd.gov</u>)] by August 22, 2025,	
	unless otherwise approved in writing by South	
	Coast AQMD. The contracts shall include, at a	
	minimum, an agreement for procurement of	
	equipment, installation and setup of equipment,	
	ongoing maintenance, ongoing monitoring of	
	landfill gas data at the site, and ongoing	
	advisement, support, and input from the	
	vendor/distributor on operation of the system.	
	b. Installation	
	i. Upon finalization of contracts,	
	Respondent and its RMCS vendor/distributor	
	shall conduct site assessments to determine the	
	best two method(s) of communication (Radio,	
	Cell, Satellite internet, etc.) for each individual	
	controller unit located on the wellheads, and	
	each individual monitor unit located on the	
	headers by September 12, 2025, unless	
	otherwise approved in writing by South Coast	
	AQMD. The site assessment shall be performed	
	to ensure the units are capable of consistent	
	upload of real-time data to the	
	vendor/distributor's historical data platform and	
	user interface. Each unit shall have at least two	
	methods of communication tied into the unit, to	
	allow for redundancy of data communication.	
	ii. Respondent shall procure, install	
	and begin operation of the minimum 21	
	controller and 5 remote monitoring units by	
	October 31, 2025, 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,	

Condition No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
	(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.	
	iii. The controller units shall include	
	19 permanent units, to be located on a particular	
	wellhead for at least 12 months, except as	
	described in subpart (b)(iv) below, and shall	
	include 2 mobile units which may be relocated	
	on site as necessary. Relocation of the mobile	
	controller units shall be performed according to	
	analysis from Respondent and its	
	vendor/distributor, or according to South Coast	
	AQMD written request.	
	iv. The 19 permanent controller	
	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, shall include rationale and justification	
	for installing the controller(s) on any alternative	
	wells, and shall be signed by Respondent and its	
	vendor/distributor. In the case that the Reaction	
	boundary expands beyond the existing data	
	determined reaction boundary (per Condition	
	9(b)) as of October 31, 2025, which results in or	
	is expected to result in higher temperatures or	
	other unfavorable conditions which may damage	
	the controller equipment, the controller unit(s)	
	may be relocated to well(s) in the immediate	
	vicinity outside the boundary of the revised data	
	determined Reaction boundary.	
	v. The 5 monitor units shall be	
	installed on primary header lines conveying gas	
	from the Condition 9(b) Reaction boundary and	
	surrounding areas. The monitor unit locations	
	shall be determined by Respondent in	

Condition No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
110.	coordination with its vendor/distributor, for	Toposeu Language
	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	
	monitor units. Two monitor 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.	
	vi. The controllers and monitor units	
	shall be battery powered and solar charged, with	
	batteries capable of lasting at least two weeks	
	without solar charging.	
	c. Operation	
	i. The RMCS controller units shall	
	monitor the parameters listed below, at the	
	wellhead of a minimum 21 operating wells	
	located in the immediate vicinity surrounding	
	the data determined Reaction boundary as	
	specified in Condition 9(b), unless otherwise	
	approved in writing by South Coast AQMD.	
	The RMCS controller units shall additionally	
	include the ability to remotely adjust valve	
	positioning and tuning of the wells.	
	1. Wellhead pressure	
	(gauge)	
	2. Barometric pressure	
	3. Liquid level sensor	
	4. Landfill gas temperature	
	5. Landfill gas flowrate	
	6. Landfill gas composition	
	(oxygen, methane, carbon	
	dioxide, and balance gas).	
	ii. The RMCS monitor units shall	
	monitor the parameters listed below, on a	
	minimum 5 landfill gas collection headers	
	conveying gas extracted from wells located in	
	and around the data driven Reaction Area as	
	specified in Condition 9(b), unless otherwise	
	approved in writing by South Coast AQMD.	
	1. System pressure (gauge)	
	2. Barometric pressure	

Condition	South Coast AQMD Proposed Language	Chiquita Canyon, LLC
No.		Proposed Language
	3. Landfill gas temperature	
	4. Landfill gas flowrate	
	5. Landfill gas composition	
	(oxygen, methane, carbon dioxide, and	
	balance gas)	
	iii. The RMCS controller and	
	monitor units shall record or upload the required	
	measurements, as listed above, at least once	
	every 3 hours.	
	iv. Respondent shall monitor the	
	collected controller and monitor data, reviewing	
	it at least daily, and shall utilize the data to guide	
	and optimize the operation of the landfill gas	
	collection system in accordance with a written	
	policy which adheres to recommendations from	
	Respondent's vendor/distributor. The landfill	
	gas collection system shall additionally be	
	optimized according to a written policy	
	developed by Respondent with input from the	
	third-party vendor/distributor, and approved by	
	South Coast AQMD. The written policy shall be	
	submitted to 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,	
	(<u>cojeda@aqmd.gov</u>)] not later than September	
	2, 2025. South Coast AQMD may provide	
	comments or require revisions to the written	
	policy prior to approval. Respondent shall	
	implement the written policy to optimize the	
	landfill gas collection system not later than 7	
	calendar days following approval in writing	
	from South Coast AQMD, or once the RMCS	
	equipment is installed and operational,	
	whichever is later. Revised written policy(ies)	
	may be submitted in response to data collected	
	and reviewed, changing conditions on site, or	
	other factors as necessary, and shall be	
	implemented according to the same	
	requirements and upon approval from South	
	Coast AQMD. The written policy directing	
	optimization of the landfill gas collection	
	system shall be developed giving due	

Condition No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
	consideration and priority to, at minimum, the	
	following:	
	1. Wellhead valve position	
	(opened or closed) optimized to maximize	
	landfill gas extraction, with healthy gas	
	(methane \sim 50%, methane to CO2 ratio > 1.0),	
	and minimize oxygen intrusion (maintain	
	oxygen less than 2%);	
	2. Performance of well	
	tuning immediately if oxygen composition at a	
	wellhead reaches or exceeds 2%, to reduce	
	vacuum at the well, and/or other measures as	
	necessary to reduce oxygen intrusion into the	
	landfill and gas collection system;	
	3. Optimizing nearby	
	vertical extraction wells to increase vacuum if a	
	wellhead valve is completely open with full	
	vacuum, and the well is not experiencing	
	oxygen intrusion (oxygen is less than 2%), or	
	installing an additional vertical dual extraction	
	well to increase gas extraction in the vicinity;	
	4. Inspection and	
	appropriate measures to address the controller	
	unit, wellhead, and upstream/downstream	
	conveyance piping for any controller unit which	
	measures an unexpected or unexplained	
	decrease in gas flow of 15% or more over a 1	
	week period (as compared to the prior week's	
	average), or decrease in vacuum at a wellhead of	
	5% or more over a one week period (as	
	compared to the prior week's average);	
	5. Inspection and	
	appropriate measures to address the monitor unit, upstream wellheads, and	
	upstream/downstream conveyance piping for	
	any monitor unit which measures an unexpected	
	or unexplained decrease in gas flow of 5% or	
	more over a 1 week period (as compared to the	
	prior week's average), decrease in vacuum pull	
	in the header of 5% or more over a one week	
	period (as compared to the prior week's	
	average), or increase in oxygen concentration of	
	0.2% (measured against the prior week's	
	average).	
	uvoiu50 <i>j</i> .	

Condition No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
	d. Inspection and Maintenance	
	i. Respondent shall perform routine	
	inspection and maintenance of the controller and	
	monitor units, according to a written protocol	
	which adheres to the manufacturer's and	
	vendor's/distributor's recommendations.	
	ii. Calibration of the gas	
	composition measurement devices within each	
	controller and monitor unit shall be performed	
	and documented at least once every 2 weeks.	
	iii. Cleaning of the solar panels	
	attached to the controller and monitor units'	
	batteries shall be performed and documented at	
	least once each calendar month.	
	e. Data and Reporting	
	i. Data collected by the controller	
	and 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 controller and monitor unit. South Coast	
	AQMD shall be granted read and download	
	access to this graphical user interface, to review	
	historical and real-time data.	
	ii. Respondent shall conduct a study	
	of the RMCS and monitoring unit data gathered,	
	LFG well and header issues discovered as a	
	result of the RMCS and monitoring unit and	
	actions performed to resolve issues, dates and	
	times for discovering and resolving issues as a	
	result of the RMCS, comparison of landfill gas	
	well operational history and data pre- and post-	
	RMCS installation, advantages and	
	disadvantages of the RMCS, recommendation of	
	additional wells or headers (if any) which would	
	benefit from the installation of a RMCS, and	
	Respondent and its vendor/distributor's written	

Condition No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
	recommendation for relocations of the existing RMCS units to alternative wells or headers (if any). The study shall be conducted based on the collection of at least six (6) months of RMCS data. The study 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 May 29, 2026, or within 60 days of collecting six (6) months of RMCS data, whichever is later. f. Recordkeeping i. Records documenting the landfill gas collection system adjustments, and inspections of well and header piping performed under Condition 75(c)(iv) shall be kept and maintained daily on site, and shall be provided to South Coast AQMD upon request. ii. Records documenting the inspection and maintenance activities specified in Condition 75(d) shall be kept and maintained on site, and shall be provided to South Coast AQMD upon request. iii. Records documenting any periods of RMCS equipment downtime, controller and/or 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.	
77	Respondent shall conduct aerial surveillance over the entire landfill surface on a monthly 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	Respondent shall perform, or cause to be performed, a pilot project that conducts aerial surveillance over the entire landfill surface on a monthly basis, employing a drone equipped with sensors with a minimum detection level of 1 ppmv methane, and in accordance with OTM-51, concurrently with surface

South Coast AQMD Proposed Language	Chiquita Canyon, LLC
	Proposed Language
±	emissions monitoring
· · · · · · · · · · · · · · · · · · ·	conducted in accordance with
	U.S. EPA Method 21. If an
•	aerial surveillance reading
follow-up field inspection shall be performed	reaches or exceeds 200 ppmv
within 2 hours of becoming aware of aerial	methane, Respondent shall
surveillance exceedances. If an exceedance of	conduct follow-up ground-
500 ppmv methane is found or confirmed during	based surface emission
the follow-up inspection, Respondent shall	monitoring field inspections
implement corrective actions within 2 calendar	according to the procedures of
days, including but not limited to, geosynthetic	OTM-51 and U.S. EPA
cover maintenance or repair, landfill cover	Method 21, unless Respondent
maintenance or repair, wellfield vacuum	is unable to monitor the
adjustments, and piping/gas component	subject locations due to
maintenance or repair. Respondent shall develop	inaccessibility or dangerous
a color-coordinated geospatial methane map	conditions for a technician.
displaying the results of the methane readings, a	The follow-up field inspection
color-coordinated geospatial interpolated	shall be performed within 2
methane map displaying the change in methane	hours of becoming aware of
readings as compared to the prior aerial	aerial surveillance
surveillance, and a map displaying geolocated	exceedances. If an exceedance
coordinates with local methane peaks. The	of 500 ppmv methane is found
methane map displaying the results of methane	or confirmed during the
readings shall include a color legend to	follow-up inspection,
differentiate locations displaying methane	Respondent shall implement
readings of 1) < 200 ppmv, 2) \ge 200 and < 500	corrective actions within 2
	calendar days, including but
and < 2,000 ppmv, 5) ≥2,000 and < 5,000ppmv,	not limited to, geosynthetic
and $6 \ge 5000$ ppmv, or as otherwise approved	cover maintenance or repair,
by South Coast AQMD. The interpolated map	landfill cover maintenance or
displaying the change in methane readings shall	repair, wellfield vacuum
include a color legend to differentiate the	adjustments, and piping/gas
magnitude of the differential reading as	component maintenance or
determined by Respondent, or as otherwise	repair. Respondent shall
requested by South Coast AQMD. The maps,	develop a color-coordinated
follow-up field inspection measurements and	geospatial methane map
locations with associated dates/times, causes of	displaying the results of the
exceedances (500 ppmv methane or greater),	methane readings, a color-
any corrective actions performed, and	coordinated geospatial
documentation (date, time, reasoning) of field	interpolated methane map
inspections not performed due to inaccessibility	displaying the change in
or dangerous conditions shall be provided in the	methane readings as compared
subsequent monthly report pursuant to	to the prior aerial surveillance,
Condition 8(c).	and a map displaying
	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 a color-coordinated geospatial methane map displaying the results of the methane readings, a color-coordinated geospatial interpolated methane map displaying the change in methane readings as compared to the prior aerial surveillance, and a map displaying geolocated coordinates with local methane peaks. The methane map displaying the results of methane readings shall include a color legend to differentiate locations displaying methane readings of $1 > 200$ ppmv, $2 \ge 200$ and < 500 ppmv, $3 \ge 500$ and $< 1,000$ ppmv, $4 \ge 1,000$ and $< 2,000$ ppmv, $5 \ge 2,000$ and $< 5,000$ ppmv, and $6 \ge 5000$ ppmv, or as otherwise approved by South Coast AQMD. The interpolated map displaying the change in methane readings shall include a color legend to differentiate the magnitude of the differential 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 No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
		geolocated coordinates with
		local methane peaks. The
		methane map displaying the
		results of methane readings
		shall include a color legend to
		differentiate locations
		displaying methane readings
		of 1) < 200 ppmv, 2) ≥ 200
		and $< 500 \text{ ppmv}, 3 \ge 500 \text{ and}$
		$< 1,000 \text{ ppmv}, 4) \ge 1,000 \text{ and}$
		$< 2,000 \text{ ppmv}, 5 \ge 2,000 \text{ and}$
		$< 5,000$ ppmv, and $6 \ge 5000$
		ppmv, or as otherwise
		approved by South Coast
		AQMD. The interpolated map
		displaying the change in
		methane readings shall include
		a color legend to differentiate
		the magnitude of the
		differential 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).
		r mount to condition o(c).
		Following three months of
		data collection using both
		OTM-51 and U.S. EPA
		Method 21, the Reaction
		Committee shall review and
		analyze concurrently collected
	<u> </u>	analyze concurrently conected

Condition No.	South Coast AQMD Proposed Language	Chiquita Canyon, LLC Proposed Language
Condition No.	South Coast AQMD Proposed Language	Proposed LanguageOTM-51 and U.S. EPAMethod 21 data, and shallsubmit a report to South CoastAQMD on the equivalency ofthe monitoring methods. If theReaction Committee finds thatthe two monitoring methodsare equivalent, Respondentmay conduct the surfaceemissions monitoring requiredby Condition Nos. 9 and 10using OTM-51. If theReaction Committee finds that
		the two monitoring methods are not equivalent, Respondent may stop conducting the OTM-51 monitoring pursuant to this Condition No. 77.