## Chiquita Canyon Landfill (Facility ID: 119219) Case No. 6177-4 Stipulated Order for Abatement (modified on January 17, 2024) Action Items for South Coast Air Quality Management District

	Prior			
Condition No.	Condition No.	Key Action	Start Date/ Deadline Date	Completion Status/Date Submitted
NO.	NO.	COMPLETED	Deadille Date	Submitted
		Designate an employee able to receive notifications related to		
1(f)		odor surveillance results	9/7/2023	Completed
31	25	Submit completed design for the geosynthetic cover	9/12/2023	Completed
13	23	Connect 18 vertical dual extraction wells to the LFG system	9/15/2023	Completed
13		Install, maintain, and operate 1,000 feet or more of Semi-	3/ 13/ 2023	Completed
45	32	Permanent Vapor Odor Control in the Reaction Area	9/20/2023	Completed
		ermanent vapor odor control in the readdon/wed	3/20/2023	Completed
1(a)		Contract with a trained third party to conduct odor surveillance	10/6/2023	Completed
12, 12(a)		Form the Reaction Committee	10/6/2023	Completed
		Provide Reaction Committee member information to South		
12		Coast AQMD	10/6/2023	Completed
16		Submit permit modification application for LFG system	10/6/2023	Completed
		Submit permit modification application for LFG condensate and		
19		leachate collection/storage system	10/6/2023	Completed
12(i)	12(d)	Submit report on initial flux chamber study	10/31/2023	Completed
15		Notify South Coast AQMD of number of wells added to wellfield	10/31/2023	Completed
21		Submit permit application for Flare 4	10/31/2023	Completed
		Notify South Coast AQMD on progress of procuring and		
31	25	installing cover	10/31/2023	Completed
44	31	Obtain and install onsite MET station in the Reaction Area	10/31/2023	Completed
		Identify LFG wells with worst liquid impaction issues in the		
17		Reaction Area	11/3/2023	Completed
12(g)(iv)	12(b)(iv)	Submit report on landfill best management practices	11/6/2023	Completed
20		Lestell and an easter Flore 2 motify Court Court ACMD	44/24/2022	Completed: installed
20		Install and operate Flare 3; notify South Coast AQMD	11/24/2023	11/15; notified 11/17
12/-\/:::\	12/5//:::\	Submit report on feasibility of continuous community emission	12/1/2022	Camanlatad
12(g)(iii) 32	12(b)(iii) 26, 26(a)	monitoring system Submit report on air dispersion modeling	12/1/2023 12/1/2023	Completed Completed
18	20, 20(a)	Submit proposed Reaction Area dewatering guidelines	12/5/2023	Completed
10		Submit report on investigation on landfill reaction cause and	12/3/2023	Completed
12(g)(ii)	12(b)(ii)	solutions to slow the reaction	12/8/2023	Completed
12(g)(iii)	12(b)(iii)	Submit workplan for installation of continuous monitoring	12/31/2023	Completed
12(g)(iii)	12(d)	Submit proposal for second flux chamber study	12/31/2023	Completed
12(g)(v)	12(b)(v)	Submit report on health risks of DMS	1/15/2024	Completed
32(b)	26(b)	Submit proposal for additional air modeling study	1/15/2024	Completed
J=(V)		Provide South Coast AQMD with access to all real-time	1, 13, 2027	35
34		continuous monitoring data for TRS and TAC	1/19/2024	Completed
		Provide South Coast AQMD all SOPs and QA/QC documents for	-,, :	
35		air monitoring equipment	1/19/2024	Completed
41		Submit Rule 1150 Landfill Excavation Plan	1/30/2024	Completed
		Provide the design and installation schedule for 70 new wells	-,,	I
15(a)		and their associated piping	1/31/2024	Completed
		Provide updates to South Coast AQMD on the installation of the	·	
36		continuous BTEX/VOC monitoring equipment	2/16/2024	Completed

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	Prior			1
Condition No.	Condition No.	Key Action	Start Date/ Deadline Date	Completion Status/Date Submitted
		Ongoing Actions		
1		Conduct odor surveillance	9/7/2023; ongoing	Ongoing
1(e)		Maintain odor surveillance log	9/7/2023; ongoing	Ongoing
		Review and modify odor mitigation measures based on odor		
1(f)		surveillance results, as appropriate	9/7/2023; ongoing	Ongoing
2		Log odor surveillance notifications and actions taken in response	9/7/2023; ongoing	Ongoing
		Expedite replacement of granular activated carbon media in LFG		Ongoing; see Condition 8
3		treatment system	9/7/2023; ongoing	monthly reports
		Ensure adequate stock of all odor control products and supplies		
3		are maintained on site	9/7/2023; ongoing	Ongoing
		Monitor and record landfill gas temperature at the inlet of the		
3(a)		treatment system; temp must not exceed 145oF	1/18/2024; ongoing	Ongoing
4		Prioritize Flare 2 and Flare 3 over Flare 1	9/7/2023; ongoing	Ongoing
		Sample LFG sulfur compounds combusted using colorimetric		
5		tests for H2S	9/7/2023; ongoing	Ongoing
		Sample LFG sulfur compounds for total sulfur compounds as H2S		
5		using South Coast AQMD Method 307-91	9/7/2023; ongoing	Ongoing
		Sample, analyze, and record the landfill gas sulfur compounds in		
		the raw, pre-treatment and pre-control, landfill gas collected		
		from the Reaction Area for total sulfur compounds as H2S using		
5		Method 307-91	1/18/2024; ongoing	Ongoing
		Maintain adequate stock of appropriately ranged colorimetric		
6		tubes	9/7/2023; ongoing	Ongoing
		Measure the total amount of landfill gas combusted at the		Ongoing; see Condition 8
7(a), (b)		facility; measure the daily flow of landfill gas not flared	9/7/2023; ongoing	monthly reports
				Ongoing; submitted on
				9/30/23, 10/16/23,
				11/20/23, 12/18/23,
8		Submit monthly written report to South Coast AQMD	9/30/2023; monthly	01/15/24, 02/19/2024
9		Conduct integrated landfill surface sampling	9/20/2023; ongoing	Ongoing
9(b)		Review and revise Reaction Area	10/6/2023; ongoing	Ongoing
				Ongoing; submitted on
				10/06/23, 11/06/23,
		Submit revised Reaction Area map and related documentation		12/06/23, 01/05/24,
9(a)		to South Coast AQMD	10/6/2023; monthly	02/07/2024
10		Conduct instantaneous landfill surface monitoring	9/13/2023; ongoing	Ongoing
		Continue operating flares and treatment system despite	- 1- 1- :	
11		exceedances of the TRS and SOx limits	9/7/2023; ongoing	Ongoing
		Submit deviation reports in accordance with Title V permit to		
11		South Coast AQMD	1/18/2024; ongoing	Ongoing
12/5)	12/-\	Doct all avant reports on Oder Mittetter with a se-	Upon submission of	Ongoing
12(h)	12(c)	Post all expert reports on Odor Mitigation webpage	export reports	Ongoing
13		Expand gas well system	9/7/2023; ongoing	Ongoing
14		Address wells with temps above 170 degrees Fahrenheit	9/7/2023; ongoing	Ongoing
1.4		Manitor each LEG system wall for temporature at least manthly	0/7/2022: angaine	Ongoing
14		Monitor each LFG system well for temperature at least monthly  Continue to operate all wells despite temp exceedances as	9/7/2023; ongoing	Ongoing
11		1 ' '	0/7/2022: 022012	Ongoing
14		necessary	9/7/2023; ongoing	Ongoing

	Prior			
Condition	Condition		Start Date/	Completion Status/Date
No.	No.	Key Action	Deadline Date	Submitted
		Ensure the operation of the collection system equipment does		
		not result in the release of raw landfill gas or condensate into		
14(a)		the atmosphere	1/18/2024; ongoing	Ongoing

	Prior			
Condition No.	Condition No.	Key Action	Start Date/ Deadline Date	Completion Status/Date Submitted
		Report breakdowns or malfunctions of the collection system		
		resulting in the emission of raw landfill gas within one hour after		
		occurrence or within one hour of the time said person knew or		
		reasonably should have known of its occurrence. Take		
		immediate remedial measure to correct the breakdown or		
14(b)		malfunction and prevent further emissions	1/18/2024; as needed	Ongoing
15		Add vertical dual extraction wells (as needed)	9/7/2023; ongoing	Ongoing
15		Expand well-field (as needed)	9/7/2023; ongoing	Ongoing
				Ongoing; see Condition 8
15		Document subsequent additions to the wellfield	9/7/2023; ongoing	monthly reports
		Provide updates to the design and schedule for the 70 wells in		See Condition 8 monthly
15(a)		Condition 8 reports	2/19/2024; ongoing	reports
		Notify South Coast AQMD which wells are scheduled to be		
15(c)		installed the following week	1/18/2024; ongoing	Ongoing
		Use a landfill gas control box vented to an approved emissions		
15(e)		control system while drilling a new well	1/18/2024; ongoing	Ongoing
		Complete and cap each well the same day its construction		
		commences unless the well hole is completely covered or the		
15(f)		subsequently installed pipe is capped	1/18/2024; ongoing	Ongoing
		Connect each horizontal well to an operating header or seal the		
		ends of the well with blind flanges, glued or fused caps, or other		
15(g)		approved seals as soon as the well is installed	1/18/2024; ongoing	Ongoing
		Properly cover and seal all openings and connections of the		
		collection system in accordance with Title V permit and all		
15(h)		applicable rules and regulations	1/18/2024; ongoing	Ongoing
		Install additional stainless steel, carbon steel, or CPVC wells in		
15(i)		the Reaction Area	1/18/2024; ongoing	Ongoing
		Expeditiously dewater wells being impacted by liquids; take		
		proactive measure to remove additional liquids in the Reaction		Ongoing; see Condition 8
17, 17(a)		Area	11/5/2023; ongoing	monthly reports
		Implement proposed Reaction Area dewatering guidelines and		
18		implementation procedures	12/5/2023; ongoing	Ongoing
		Continue using portable thermal oxidizer(s) until Reaction		
		Committee concludes they are no longer needed; notify South		
22		Coast AQMD within 48 hours of determination	9/7/2023; ongoing	Ongoing
_		Continue using Flares 1 and 2 until Flare 4 is permitted and		
23		operational.	9/7/2023; ongoing	Ongoing
		Operate and maintain the landfill to prevent standing leachate		
		and the pooling or ponding of leachate exposed to the	4/40/2001	
24		atmosphere	1/18/2024; ongoing	Ongoing
		If pooling or ponding of liquid/leachate occurs, immediately		
		collect and contain it in a sealed tanker truck or leachate tank, or		
2.4		promptly perform repairs to redirect the leachate into the	4/40/2024	
24		leachate collection system	1/18/2024; ongoing	Ongoing
		When encountering a discharge of pressurized leachate,		
		mitigate odors and the dispersion and exposure of leachate into		
		the atmosphere to the maximum extent possible. Once the		
25		discharge of pressurized leachate ends, remove soil saturated	4/40/2024	
25		with leachate or add dry soil cover	1/18/2024; ongoing	Ongoing

	Prior			
Condition No.	Condition No.	Key Action	Start Date/ Deadline Date	Completion Status/Date Submitted
110.	1101	Measure, record, and report on leachate temps within the four 6-	Deddiiiie Date	Submitted
		inch pipes feeding into the onsite frac tanks and at the piping		Ongoing; see Condition 8
27(a)		leading into the bottom tanks	1/18/2024; ongoing	monthly reports
27(0)		Conduct and document inspections for leachate seeps twice	1, 10, 202 1, 011801118	Ongoing; see Condition 8
27(b)		each calendar day	1/18/2024; ongoing	monthly reports
(,				Ongoing; see weekly
		Compile and report the details of the inspection logs, including		leachate inspection
27(c)		any ongoing leachate seepage and pooling	1/23/2024; weekly	reports
(-/		Measure and record quantities of leachate sent offsite for	, -, - , ,	Ongoing; see Condition 8
27(d)		disposal/ treatment	1/18/2024; ongoing	monthly reports
` ,		Submit copies of leachate manifests to South Coast AQMD	1/18/2024; as	, .
27(d)		within 3 weeks of request	requested	Ongoing
, ,		Operate and maintain the landfill gas and liquids systems with	·	
		materials capable of handling gases/liquids at the temps		
		measured. Utilize casing materials for elevated temp wells as		
28		agreed upon with the LEA	1/18/2024; ongoing	Ongoing
		Provide information pertaining to installed equipment and	<del></del>	
28		specifications to SCAQMD upon request	1/18/2024; ongoing	Ongoing
		Ensure proper capacity to dispose of collected liquids/leachate		
29		at appropriate facilities	1/18/2024; ongoing	Ongoing
		Visually inspect landfill cover around the Reaction Area; repair		Ongoing; see Condition 8
30	24	landfill cover Issues as needed; maintain log of cover repairs	9/7/2023; ongoing	monthly reports
		Notify South Coast AQMD on progress of procuring and		Ongoing; see Condition 8
31	25	installing cover	10/31/23; ongoing	monthly reports
		Expand and enhance current ambient air monitoring program		
33	27	pursuant to DPH's direction.	9/7/2023; ongoing	Ongoing
		Submit ambient air monitoring reports for DPH to South Coast		
33	27	AQMD	As needed	Ongoing
		Ensure that live, real-time H2S concentration data, wind speed,		
		and direction from all offsite monitors are accessible on		
		Chiquita's Odor Mitigation webpage, including the acute 1-hour		
34(a)		REL for H2S and a map of the monitoring station locations	2/16/2024; ongoing	Ongoing
34(a)		Provide weekly data collected by the offsite monitors on	2/10/2024, Oligoling	Oligoling
34(b)		Chiquita's Odor Mitigation webpage in downloadable format	2/16/2024; ongoing	Ongoing
34(6)		Document dates and times of unexpected monitor downtime.	2/10/2024, Oligoling	Oligonia
		Keep documentation of monitor downtime on file and post to		
34(b)(i)		Chiquita's Odor Mitigation webpage	2/16/2024; ongoing	Ongoing
0 .(2)(.)		Provide updates to the QA/QC docs, a calibration log, and	2/10/2021/01/8011/8	Ongoing; see Condition 8
35		maintenance activities performed	1/18/2024; ongoing	monthly reports
		Provide South Coast AQMD with the same access as Chiquita to	, -, - , - 6- 6	/
35(a)		onsite and offsite monitoring equipment	1/18/2024; ongoing	Ongoing
. ,		Provide South Coast AQMD list of appropriate PPE within 24	,	1 "
35(a)		hours of request	1/18/2024; ongoing	Ongoing
. ,		Increase the number of 24-hour time integrated cannister		
		sampling and analysis for VOCs at MS-10 and MS-12 to 3 times		
36(b)		per week	1/18/2024; ongoing	Ongoing
` '		Take at least one representative sample of liquids from the	,	1 "
		Reaction Area and one from the bottom tanks and analyze per		
38		USEPA Method 624.1 for VOCs and TACs	1/18/2024; monthly	Ongoing

Condition No.	Prior Condition No.	Key Action	Start Date/ Deadline Date	Completion Status/Date Submitted
			Within 1 week of	
		Post leachate analytical results on website and provide to South	recept from contract	
38		Coast AQMD	lab	Ongoing
39	28	Maintain Odor Mitigation webpage; update weekly	9/7/2023; weekly	Ongoing
39	28	Translate Odor Mitigation webpage and reports into Spanish	10/6/2023; ongoing	Ongoing
			9/14/2023; monthly	
			based on receipt of	
40	29	Host community information meetings	NOV's	Ongoing
		Until final approval of Rule 1150 landfill excavation plan,	When conducting non-	
		implement additional mitigation measures while conducting non-	exempt Rule 1150	
42		exempt Rule 1150 excavation activities	excavation	Ongoing
		Until final approval of Rule 1150 landfill excavation plan, notify	When conducting non-	
		South Coast AQMD at least two days before and within five days	exempt Rule 1150	
42(a)		after completion of excavation activities	excavation	Ongoing
		Maintain fresh trash odor mitigation measures during		
43	30	Unfavorable Wind Conditions	9/7/2023; ongoing	Ongoing
44	31	Maintain onsite MET station in the Reaction Area	10/31/2023; ongoing	Ongoing
		Maintain and operate 1,000 feet or more of Semi-Permanent		
45	32	Vapor Odor Control in the Reaction Area	9/20/2023; ongoing	Ongoing
		Operate and maintain a landfill perimeter odor control misting		
46, 47	33, 34	system	9/7/2023; ongoing	Ongoing
		Permit South Coast AQMD personnel to conduct inspections		
51		deemed necessary, including sample collection	1/18/2024; ongoing	Ongoing
		Provide South Coast AQMD with list of appropriate PPE upon	_	
51		request	1/18/2024; ongoing	Ongoing
		Host meetings between South Coast AQMD technical staff and		
52		Chiquita's technical consultants	1/18/2024; biweekly	Ongoing

## **Future Actions**

		Take at least 10 liquid samples from wells with pumps in the		
		Reaction Area with the highest average temps to the extent		
37		possible and analyze per USEPA Method 624.1	3/5/2024	
		Submit the results to South Coast AQMD along with the lab	Within 1 week of the	
37		analysis from the 10/20/23 sampling event	results	
		Prepare and submit to South Coast AQMD the Discharge of		
26		Pressurized Leachate Containment Feasibility Study	3/12/2024	
		Provide a workplan listing the actions Chiquita plans to take to		
50		address the reaction	3/13/2024	
		Install dewatering sumps/pumps in at least 60% of vertical wells		
		in the Reaction Area capable of extracting liquids; if infeasible,		
		provide detailed rational and reasoning in Condition 8 report		
17		and continue implementing dewatering guidelines	3/15/2024	
		Provide updates to South Coast AQMD on the installation of the		
36		continuous BTEX/VOC monitoring equipment	3/17/2024	
31	25	Add Reaction Committee member relating to public health	3/25/2024	
		Host a monthly virtual meeting with all members of the Reaction		
12(f)		Committee and South Coast AQMD technical staff	March 2024; monthly	
		Following each Reaction Committee meeting, prepare meeting		
12(f)(iv)		summary and post on webpage	March 2024; monthly	

	Prior			
Condition	Condition		Start Date/	Completion Status/Date
No.	No.	Key Action	Deadline Date	Submitted
		Install and maintain continuous BTEX/VOC monitoring		
36		equipment at MS-10 and MS-12	4/1/2024	
		Submit report on study of treatment of DMS and preventative		
12(g)(i)	12(b)(i)	mechanisms for DMS formation	4/30/2024	
		Prepare and submit to South Coast AQMD a report of the health		
		impacts from ongoing and long-term exposure to H2S or other		
12(g)(vi)		speciated sulfur compounds and other HAPs	8/1/2024	
50		Provide quarterly updates to the workplan in Condition 50	6/13/2024; quarterly	
		Once Flare 4 is in operation, prioritize Flare 3 and Flare 4 over	Once Flare 4 is in	
4		Flare 1 and Flare 2	operation	
		Provide new Reaction Committee member information to South		
12		Coast AQMD	TBD	
			Within 5 calendar days	
			after enhanced	
		Provide South Coast AQMD access to all real-time continuous	monitors are brought	
34		monitoring data for TRS and TAC at enhanced monitors	online	
12(a)(iv)		Add Reaction Committee member relating to public health	TBD	
( )( )			No later than 90 days	
			after South Coast	
			AQMD approval of	
12(i)	12(d)	Conduct second flux chamber study	protocol	
12(1)		Conduct Second max chamber study	No later than 90 days	
			after South Coast	
			AQMD approval of	
12(i)		Submit report on second flux chamber study	protocol	
12(1)		Submit report on second max enamber study	Within 14 days of	
		If Chiquita decides that more wells are imminently necessary,	completion of the	
		submit the design and installation schedule of the additional	installation of the 70	
1E/b\		wells and their associated piping	wells	
15(b)		wells and their associated piping	Within 14 days of	
			completion of the	
		Duranida un datas to the design and sale adula for the additional	· '	
4 F / L \		Provide updates to the design and schedule for the additional	installation of the 70	
15(b)		wells	wells; monthly	
		Notify South Coast AQMD at least 1 week in advance when an	Following in stallation	
<b>1</b> L / J/		additional well or set of wells and associated piping will be	Following installation	
15(d)		installed	of additional 70+ wells	
		Dravido undatos to the design and asked the fourth and the	Following installation	
45/-11		Provide updates to the design and schedule for the additional	of additional 70+ wells;	
15(d)		wells	monthly	
		Berline annually to the Book and the Book an	Following installation	
45(1)		Replace any wells in the Reaction Area which are damaged,	of additional 70+ wells;	
15(j)		blocked, pinched, or have temps exceeding 145 degrees F	as needed	
			Following installation	
			of additional 70+ wells;	
		Notify South Coast AQMD of proposed installation schedule for	within 7 days of	
15(j)		replacement of damaged, blocked, pinched, or high temp wells	discovery	
			Following installation	
			of additional 70+ wells;	
		Install replacement well within 7 days of notification; update	within 7 days of	
15(j)		South Coast AQMD every 7 days until installation is complete	notification	

	Prior			
Condition	Condition		Start Date/	Completion Status/Date
No.	No.	Key Action	Deadline Date	Submitted
			Once	
			additional/adequate	
		Operate gas extraction wells with less than 3% oxygen and	gas extraction capacity	
15(k)		follow BMPs to keep oxygen below 5% in interior wells	is installed	
15(l)		Install well boots seals on all wells in Reaction Area	TBD	
		Submit semi-annual as-built drawings in duplicate to South		
15(m)		Coast AQMD	TBD; semi-annually	
		If Chiquita begins onsite leachate treatment, record on a weekly		
27(d)		basis quantities of leachate collected and treated onsite	TBD	
			No later than 150 days	
			after South Coast	
		Complete additional air modeling study (if recommended) and	AQMD approval of	
32(b)(ii)	26(b)(ii)	submit final written report	protocol	
		Make continuous BTEX/VOC monitoring data available on		
36(a)		Chiquita's Odor Mitigation webpage	Upon installation	