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**BEFORE THE HEARING BOARD OF THE
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

In The Matter Of

SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT,

Petitioner,

vs.

CHIQUITA CANYON, LLC a Delaware
Corporation,
[Facility ID No. 119219]

Respondent.

Case No. 6177-4

**EXHIBIT J TO DECLARATION OF
PATRICK SULLIVAN, BCES, CPP,
REPA**

Health and Safety Code § 41700, and
District Rules 402, 431.1, 3002, 203, 1150

Hearing Date: October 29 and November
12, 2025

Hearing Time: 9:30 A.M.

Place: Hearing Board
South Coast Air Quality
Management District,
21865 Copley Drive
Diamond Bar, CA 91765

**SOURCE TEST REPORT FOR
2025 3RD QUARTER LEACHATE AND CONDENSATE
VAPOR SAMPLING AT THE
CHIQUITA CANYON LANDFILL
FACILITY ID: 119219**

Prepared For:

SCS Engineers – Chiquita Canyon Landfill
3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806

For Submittal To:

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765-4178

Prepared By:

Montrose Air Quality Services, LLC
1631 E. St. Andrew Pl.
Santa Ana, California 92705
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Pete San Juan

Test Date: **September 15, 2025**
Production Date: **October 15, 2025**
Document Number: **W002AS-059121-RT-7839**

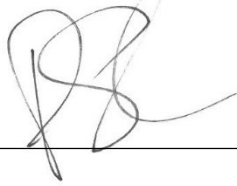


CONFIDENTIALITY STATEMENT

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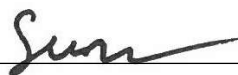
REVIEW AND CERTIFICATION

All work, calculations, and other activities and tasks performed and presented in this document were carried out by me or under my direction and supervision. I hereby certify that, to the best of my knowledge, Montrose operated in conformance with the requirements of the Montrose Quality Management System and ASTM D7036-04 during this test project.

Signature:  _____ Date: 10/15/2025

Name: Pete SanJuan Title: Client Project Manager

I have reviewed, technically and editorially, details, calculations, results, conclusions, and other appropriate written materials contained herein. I hereby certify that, to the best of my knowledge, the presented material is authentic, accurate, and conforms to the requirements of the Montrose Quality Management System and ASTM D7036-04.

Signature:  _____ Date: 10/15/2025

Name: Surya Adhikari Title: Senior Reporting QC Specialist

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1.0 INTRODUCTION

Montrose Air Quality Services, LLC (MAQS) was contacted by SCS Engineers (SCS) to conduct quarterly sampling at various locations on the vapor ventilation system located at the Chiquita Canyon Landfill (Chiquita), in Castaic, California. Testing was conducted to comply with Condition 72 of the Modified Stipulated Order for Abatement (SOFA) issued to Chiquita by the South Coast Air Quality Management District (SCAQMD). The tests were conducted according to the test protocol (MAQS Document Number W002AS-056454-PP-1074) and source test protocol evaluation (S/T ID: P24228). The Montrose test team consisted of Pete San Juan and Luis Olivares. Pete San Juan was the on-site qualified individual for MAQS. MAQS qualifies as an independent testing laboratory under SCAQMD Rule 304 (no conflict of interest) and is certified by the SCAQMD to conduct testing for criteria pollutants according to District Methods.

Equipment and facility information is provided in Section 2.0. Source test information is detailed in Section 3.0. Test results are provided in Section 4.0. Supplemental information is contained in the Appendices.

2.0 FACILITY AND SOURCE INFORMATION

The facility address is:

Physical Address: Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384

Sampling of leachate and condensate vapors was conducted from the following locations:

- The tank vents or manifolds which are representative of a set of tanks;
- The header/manifold from each leachate tank farm or manifold including Tank Farm #2, Tank Farm #6, Tank Farm #7A, Tank Farm #7B, Tank Farm Canyon D, Tank Farm 13, Inlet to Zeeco Flare, Inlet to Parnel Flare, Flare Station Pre-H₂S treatment, and Flare Station Post-H₂S treatment. Testing was performed upstream of the piping connection to the LFG Collection and Conveyance System where landfill gas may affect results.

2.1 PROCESS EQUIPMENT INFORMATION

Vapors created from the volatilization of chemicals in the head space in the leachate tanks at tank farms #2, #6, #7A, #7B, and Canyon D, and #13 are transferred under vacuum through the wellhead and into the landfill gas collection system then to the flare station for combustion. The pressure and temperature of the vapors in the piping varies based on ambient temperatures during normal operation. The facility operates 24 hours per day. Photographs of the locations sampled are located in Appendix A.1.

3.0 TEST INFORMATION AND METHODOLOGY

The pollutants measured and test methodology are summarized in Table 3-1. Volume flow rate measurements were performed before the sample collection.

The field sampling procedures utilized during the test program are described below. The published reference methods provide greater detailed descriptions than in this section. The purpose of this section is to provide an overview of the sampling methods and any variations. The sampling procedures are based on SCAQMD and EPA Reference Methods.

**TABLE 3-1
 TEST PROCEDURES
 TEST PROGRAM OVERVIEW
 CHIQUITA CANYON LANDFILL
 LEACHATE AND CONDENSATE VAPOR SAMPLING**

Parameter	Sample Medium	Analytical Technique	Reference Method	Number of Replicates
Flow Rate/Temperature	Pitot Tube / TC	Differential Pressure	SCAQMD 2.1	1 for each location
Moisture	Wet Bulb/Dry Bulb	Psychrometric Chart	SCAQMD 4.1	1 for each location
H ₂ S and TRS	Summa Can	GC/SCD	SCAQMD 307-91	1 for each location
TO-15 (Rule 1150.1)	Summa Can	GC/MS	EPA TO-15	1 for each location

3.1 SCAQMD METHOD 1.1 – SAMPLING AND VELOCITY TRAVERSES FOR STATIONARY SOURCES

A preliminary source test site assessment was performed prior to the source test in order to determine applicable sample point traverse locations. The stack diameter, and the distance from sample ports to disturbances (bends, flanges, etc.), both upstream and downstream, were measured. This information is utilized to determine the minimum number of sampling points per traverse, and the distance from the inner stack wall to each sample point location. All sample locations were located according to the minimum requirements of SCAQMD Method 1.1. Additionally, this method considers cyclonic flow patterns and in-situ stratified pollutant concentrations. Cyclonic flow tests were performed at locations where flow was measurable.

3.2 SCAQMD METHOD 2.1 – VELOCITY AND VOLUMETRIC FLOW RATE

The velocity of the gas stream was determined by using an "S" type or standard pitot tube, a low flow electronic manometer, and type "K" thermocouple with a digital temperature measuring device. The calibrated pitot tube is connected to the calibrated electronic Air Data Multimeter (ADM) manometer and leak checked. A temperature and delta P is obtained at each traverse point, and a duct static pressure is measured and recorded. The dry volumetric flow rate is determined from the gas velocity data, stack pressure, stack gas moisture content, stack gas molecular weight, and cross-sectional area of duct.

3.3 SCAQMD METHOD 3.1 – GAS ANALYSIS FOR DRY MOLECULAR WEIGHT AND EXCESS AIR

Leachate and condensate vapor gases were analyzed by GC for O₂ and CO₂.

3.4 SCAQMD METHOD 4.1 – DETERMINATION OF MOISTURE CONTENT IN STACK GASES

Moisture was measured using a wet bulb/dry bulb and calculated with a psychrometric chart.

3.5 SCAQMD METHOD 307-91 – HYDROGEN SULFIDE AND REDUCED SULFUR COMPOUNDS

Samples for determination of hydrogen sulfide and speciated reduced sulfur compounds were collected in Summa canisters. The samples were analyzed by GC/SCD by AtmAA, Inc., in Calabasas, California, following SCAQMD Method 307-91 protocol. The samples are analyzed within 24 hours of sampling.

3.6 EPA METHOD TO-15 – VOLATILES AND HYDROCARBON COLLECTED IN SUMMA CANISTER

Samples were collected in glass silicate lined Summa canisters. The samples were analyzed by AtmAA Inc., located in Calabasas, California for volatile organics listed in SCAQMD Rule 1150.1 Table 1 list.

Sampling Procedure:

One summa can per location was filled with sample gas using an evacuated cylinder. The sampling probe was connected to the can with Teflon tubing. The samples were collected at a fixed point halfway into the sampling duct.

4.0 RESULTS

The emission results are presented in Tables 4-1 and 4-2. Site schematics are presented in Appendix A.1.

**TABLE 4-1
 H₂S AND TOTAL REDUCED SULFUR RESULTS
 CHIQUITA CANYON LANDFILL
 LEACHATE AND CONDENSATE VAPOR SAMPLING
 SEPTEMBER 15, 2025**

Parameter/Units	Tank Farm 6	Zeeco	Parnel	Tank Farm 2	Canyon D	Tank Farm 7A	Tank Farm 7B	Flare Station Pre-H ₂ S	Flare Station Pre-H ₂ S	Tank Farm 13
Flow Rate, scfm	176	2,600	1,355	101	142	172	642	1,672	1,685	699
Temperature, °F	84	167	131	90	90	91	93	113	112	96
O₂, %	21.72	7.82	3.34	21.10	21.19	21.51	21.55	5.94	5.90	21.08
CO₂, %	0.10	33.37	51.59	0.75	0.97	0.10	0.10	36.29	36.30	0.74
N₂, %	76.86	35.09	16.03	74.59	74.71	75.90	76.11	26.03	25.80	75.69
H₂O, %	3.32	6.04	4.19	0.90	0.79	0.75	1.01	2.88	2.88	0.90
Sulfur Compounds										
H ₂ S, ppm	<0.10	137	202	0.15	<0.10	<0.10	<0.10	172	26.9	0.19
Carbonyl Sulfide, ppm	<0.10	<0.80	<1.50	<0.10	<0.10	<0.10	<0.10	<0.80	0.83	<0.10
Methyl Mercaptan, ppm	<0.10	68.7	329	0.91	0.31	<0.10	<0.10	79.7	65.8	0.12
Ethyl Mercaptan, ppm	<0.10	1.30	3.74	<0.10	<0.10	<0.10	<0.10	1.07	1.00	<0.10
Dimethyl Sulfide, ppm	0.50	298	997	27.20	5.65	1.32	1.23	289	326	9.33
Carbon Disulfide, ppm	<0.10	<0.80	<1.50	<0.10	<0.10	<0.10	<0.10	<0.80	<0.80	<0.10
i-Propyl Mercaptan, ppm	<0.10	1.25	2.55	<0.10	<0.10	<0.10	<0.10	1.87	1.80	<0.10
t-Butyl Mercaptan, ppm	<0.10	<0.80	<1.50	<0.10	<0.10	<0.10	<0.10	<0.80	<0.80	<0.10
n-Propyl Mercaptan, ppm	<0.10	3.69	11.2	0.23	<0.10	<0.10	<0.10	3.46	3.72	<0.10
s-Butyl Mercaptan, ppm	<0.10	3.73	11.6	0.12	<0.10	<0.10	<0.10	4.43	4.68	<0.10
i-Butyl Mercaptan, ppm	<0.10	<0.80	<1.50	<0.10	<0.10	<0.10	<0.10	<0.80	<0.80	0.12
Dimethyl Disulfide, ppm	<0.10	2.27	6.26	0.33	<0.10	<0.10	<0.10	2.24	6.38	<0.10
Tetrahydrothiophene, ppm	<0.10	1.69	6.69	0.22	<0.10	<0.10	<0.10	2.10	2.41	<0.10
Unidentified S Compounds, ppm	<0.10	6.61	36.7	1.29	<0.10	<0.10	<0.10	9.95	22.3	<0.10
Total Sulfur Compounds										
Total Sulfur, ppm	0.50	526.50	1612.44	30.75	5.96	1.32	1.23	567.54	468.13	9.75

TABLE 4-2
TRACE ORGANICS SPECIES RESULTS
CHIQUITA CANYON LANDFILL
LEACHATE AND CONDENSATE VAPOR SAMPLING
SEPTEMBER 15, 2025

Parameter/Units	Tank Farm 6	Zeeco	Parnel	Tank Farm 2	Canyon D	Tank Farm 7A	Tank Farm 7B	Pre Flare Station Pre -H ₂ S	Flare Station Post Post H ₂ S	Tank Farm 13
Test No.:	1	1	1	1	1	1	1	1	1	1
Start Time:	7:00	7:35	7:35	9:25	9:25	8:15	8:15	10:00	10:00	8:50
Flow Rate, scfm:	176	2600	1355	101	142	172	642	1,672	1,685	699
Species	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Hydrogen sulfide:	< 100	137,000	201,500	150	< 100	< 100	< 100	172,000	26,850	185
Benzene:	144	82,100	328,000	3,130	549	138	238	101,000	83,300	816
Benzyl Chloride:	< 55	< 5,000	< 5,000	< 55	< 55	< 55	< 55	< 5,000	< 5,000	< 55
Chlorobenzene:	< 55	< 4,500	< 4,500	< 55	< 55	< 55	< 55	< 4,500	< 4,500	< 55
Dichlorobenzenes*:	< 80	< 6,500	< 6,500	80.0	< 80	< 80	< 80	< 6,500	< 6,500	< 80
1,1-dichloroethane:	< 55	< 5,000	< 5,000	< 55	< 55	< 55	< 55	< 5,000	< 5,000	< 55
1,2-dichloroethane:	< 55	< 5,000	< 5,000	< 55	< 55	< 55	< 55	< 5,000	< 5,000	< 55
1,1-dichloroethylene:	< 60	< 5,000	< 5,000	< 60	< 60	< 60	< 60	< 5,000	< 5,000	< 60
Dichloromethane:	< 120	< 11,000	< 11,000	< 120	< 120	< 120	< 120	< 11,000	< 11,000	< 120
1,2-dibromoethane:	< 35	< 3,000	< 3,000	< 35	< 35	< 35	< 35	< 3,000	< 3,000	< 35
Perchloroethylene:	< 35	< 3,000	< 3,000	< 35	< 35	< 35	< 35	< 3,000	< 3,000	< 35
Carbon Tetrachloride:	< 70	< 6,000	< 6,000	< 70	< 70	< 70	< 70	< 6,000	< 6,000	< 70
Toluene:	< 55	7,810	25,100	301	133	< 55	< 55	11,000	9,540	59.5
1,1,1-trichloroethane:	< 40	< 4,000	< 4,000	< 40	< 40	< 40	< 40	< 4,000	< 4,000	< 40
Trichloroethene:	< 40	< 4,000	< 4,000	< 40	< 40	< 40	< 40	< 4,000	< 4,000	< 40
Chloroform:	< 45	< 4,000	< 4,000	< 45	< 45	< 45	< 45	< 4,000	< 4,000	< 45
Vinyl Chloride:	< 45	< 4,000	< 4,000	< 45	< 45	< 45	< 45	< 4,000	< 4,000	< 45
M+P-xylenes:	< 50	< 4,500	6,380	127	< 50	< 50	< 50	< 4,500	< 4,500	< 50
O-xylene:	< 50	< 4,500	< 4,500	< 50	< 50	< 50	< 50	< 4,500	< 4,500	< 50

< - indicates that the species was not detected in the sample above the analytical detection limit for this species.

The values reported is the detection limit for the species and the actual concentration is lower.

*Total amount containing meta, para, and ortho isomers.

APPENDIX A TEST DATA

Appendix A.1 Sample Location Data

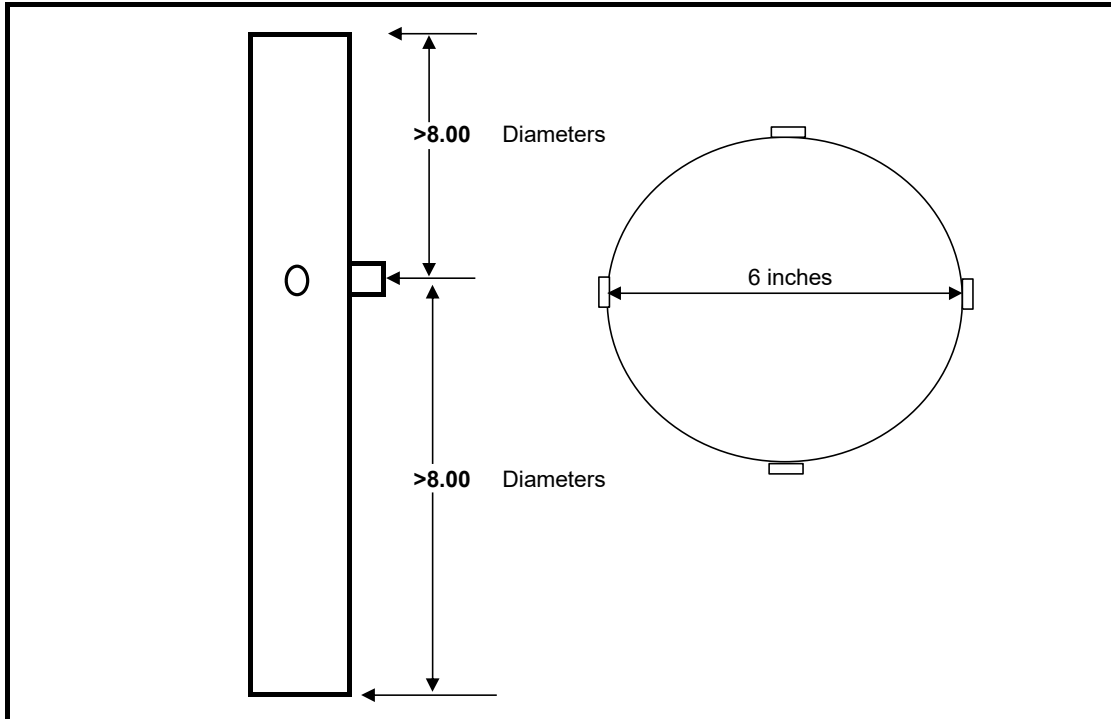
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 9/15/25

Location: Chiquita TF 6

Performed By: SJ, AD, JI



Diameter (inches)	6.00
Upstream (inches)	48.00
Downstream (inches)	48.00
Coupling (in.)	0.00
Stack Area (ft ²)	0.196

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	0.5	0.5
2	14.6	0.9	0.9
3	29.6	1.8	1.8
4	70.4	4.2	4.2
5	85.4	5.1	5.1
6	95.6	5.5	5.5



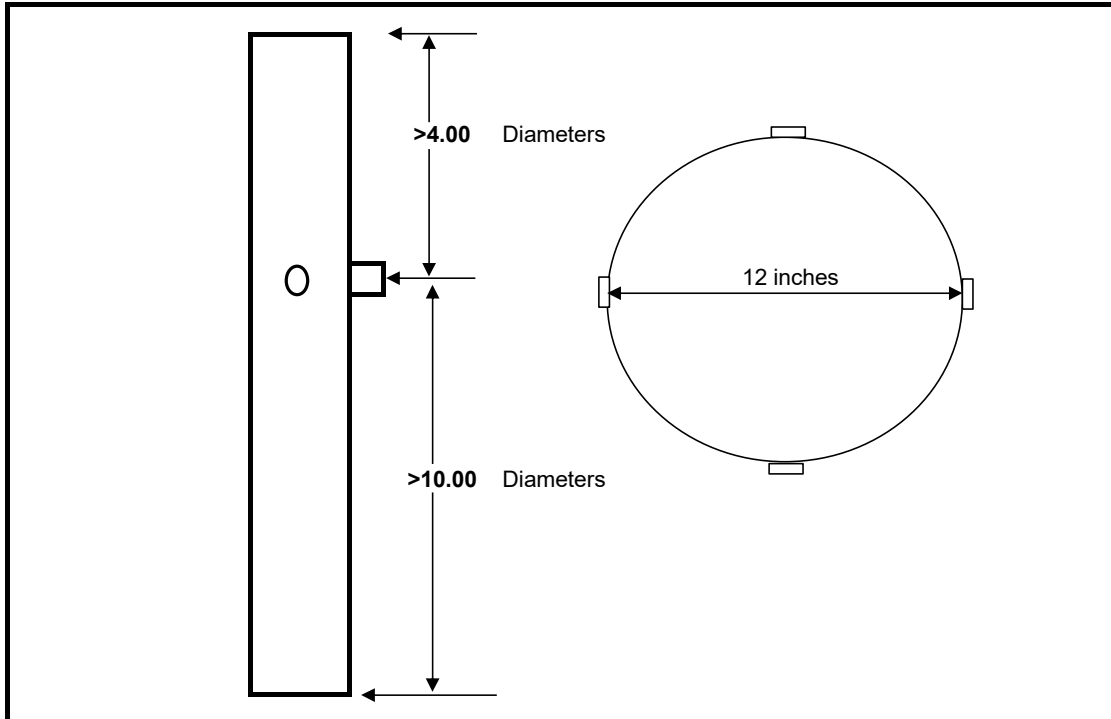
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 6/12/25

Location: Chiquita Parnel Inlet

Performed By: SJ, AD, JI



Diameter (inches)	<u>12.00</u>				
Upstream (inches)	<u>120.00</u>	Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
Downstream (inches)	<u>48.00</u>	1	4.4	0.5	0.5
Coupling (in.)	<u>0.00</u>	2	14.6	1.8	1.8
Stack Area (ft ²)	<u>0.785</u>	3	29.6	3.6	3.6
		4	70.4	8.4	8.4
		5	85.4	10.2	10.2
		6	95.6	11.5	11.5



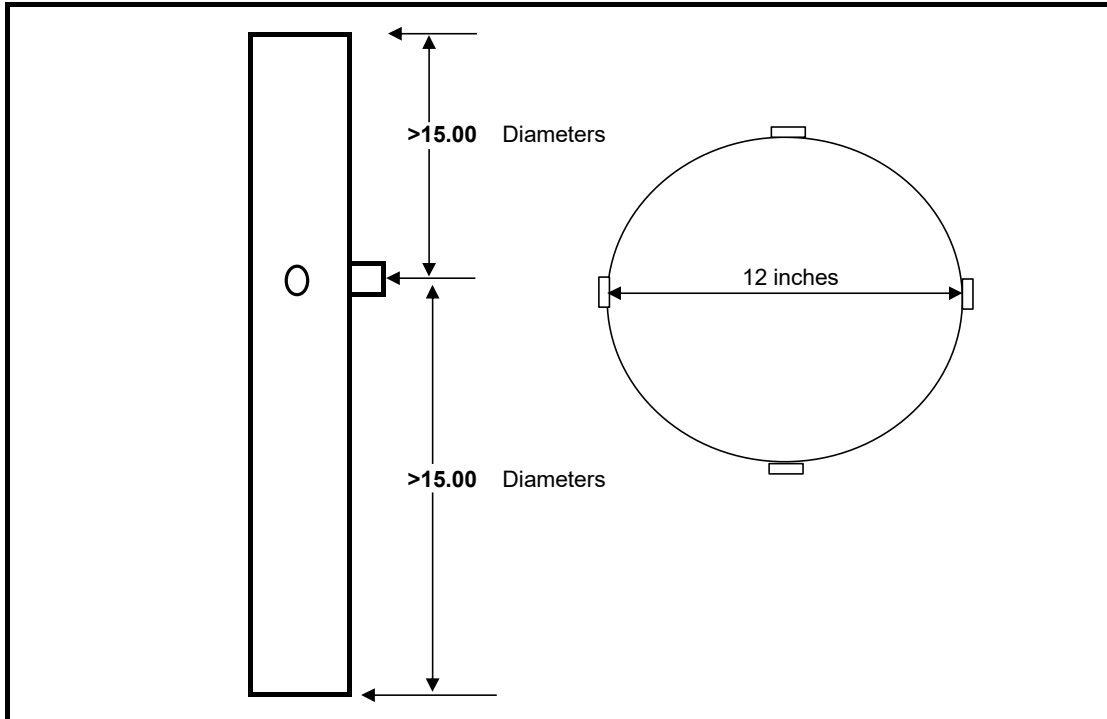
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 9/15/25

Location: Chiquita Zeeco Flare Inlet

Performed By: SJ, AD, JI



Diameter (inches)	12.00
Upstream (inches)	180.00
Downstream (inches)	180.00
Coupling (in.)	0.00
Stack Area (ft ²)	0.785

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	0.5	0.5
2	14.6	1.8	1.8
3	29.6	3.6	3.6
4	70.4	8.4	8.4
5	85.4	10.2	10.2
6	95.6	11.5	11.5



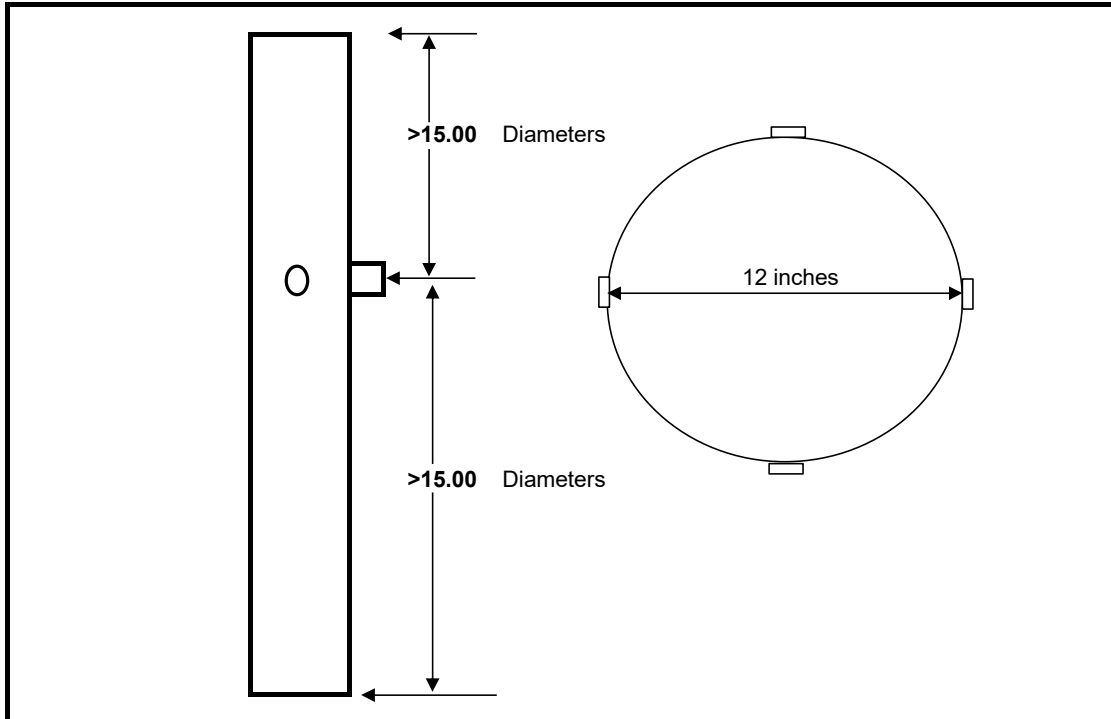
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 6/12/25

Location: Chiquita TF 7B

Performed By: SJ, AD, JI



Diameter (inches)	<u>12.00</u>
Upstream (inches)	<u>180.00</u>
Downstream (inches)	<u>180.00</u>
Coupling (in.)	<u>0.00</u>
Stack Area (ft ²)	<u>0.785</u>

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	0.5	0.5
2	14.6	1.8	1.8
3	29.6	3.6	3.6
4	70.4	8.4	8.4
5	85.4	10.2	10.2
6	95.6	11.5	11.5



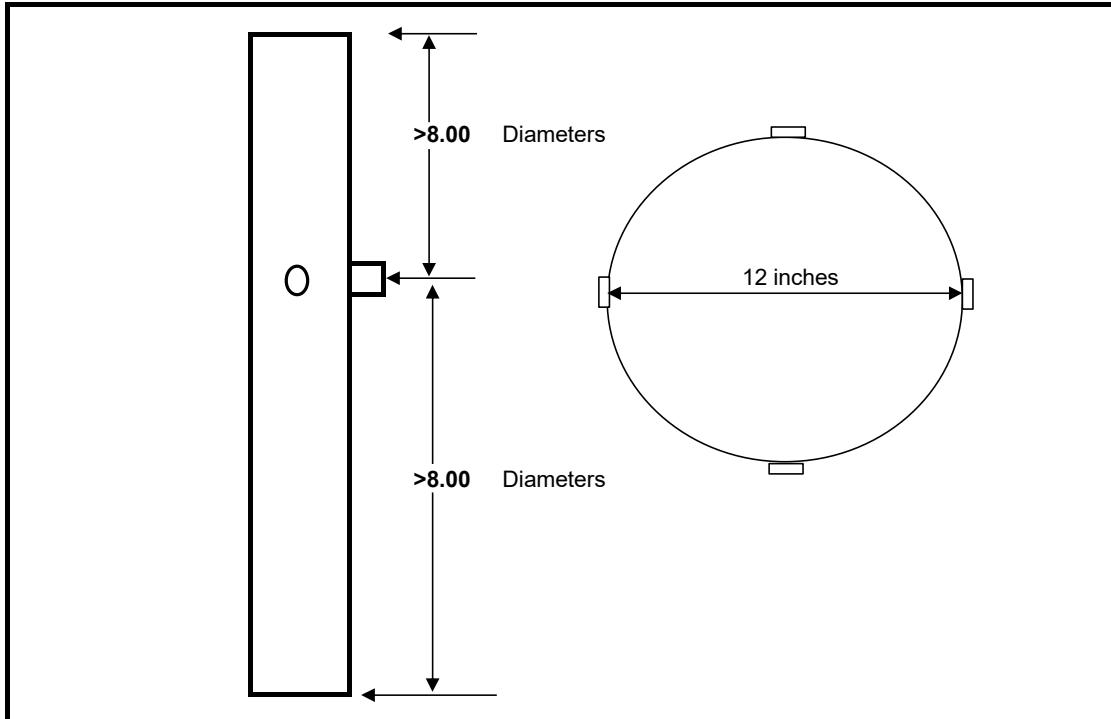
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 6/12/25

Location: Chiquita TF 7A

Performed By: SJ, AD, JI



Diameter (inches)	12.00
Upstream (inches)	96.00
Downstream (inches)	96.00
Coupling (in.)	0.00
Stack Area (ft ²)	0.785

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	0.5	0.5
2	14.6	1.8	1.8
3	29.6	3.6	3.6
4	70.4	8.4	8.4
5	85.4	10.2	10.2
6	95.6	11.5	11.5



METHOD 1 DATA SHEET INLET SAMPLE LOCATION

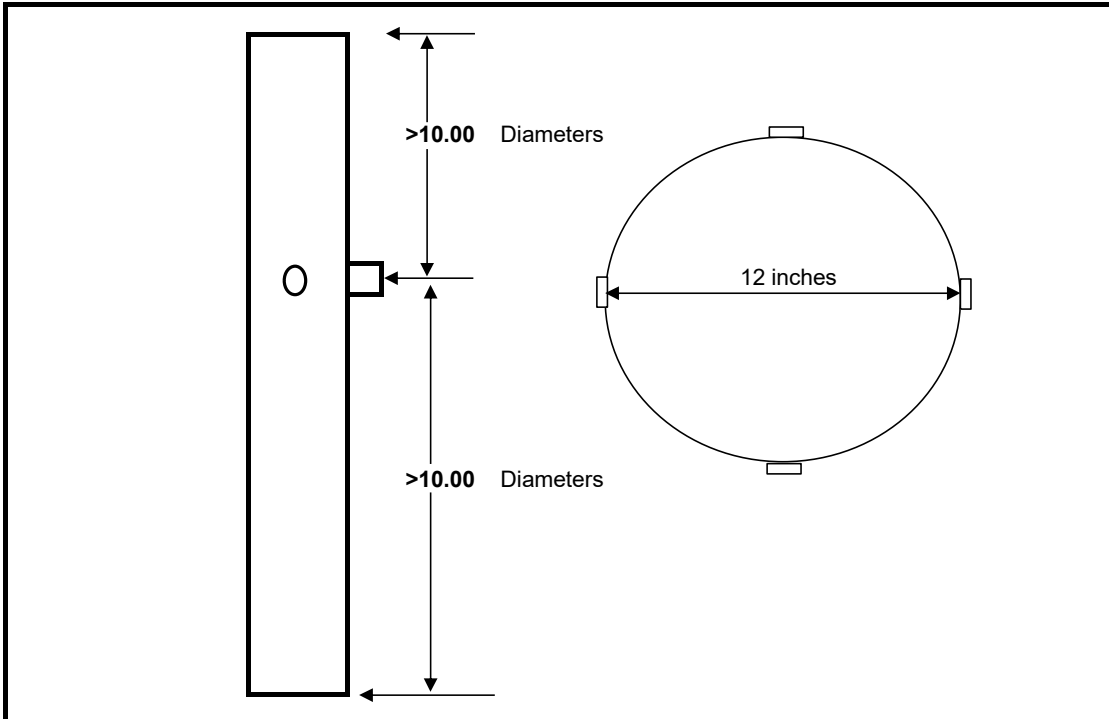


Client: SCS Field Services

Date: 9/15/25

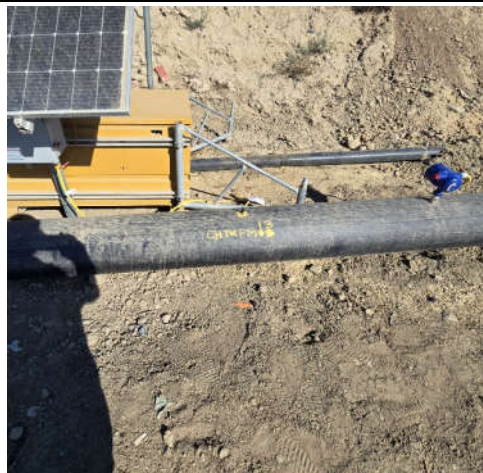
Location: Chiquita Tank Farm 13

Performed By: SJ, LO



Diameter (inches)	12.00
Upstream (inches)	120.00
Downstream (inches)	120.00
Coupling (in.)	0.00
Stack Area (ft ²)	0.785

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	0.5	0.5
2	14.6	1.8	1.8
3	29.6	3.6	3.6
4	70.4	8.4	8.4
5	85.4	10.2	10.2
6	95.6	11.5	11.5



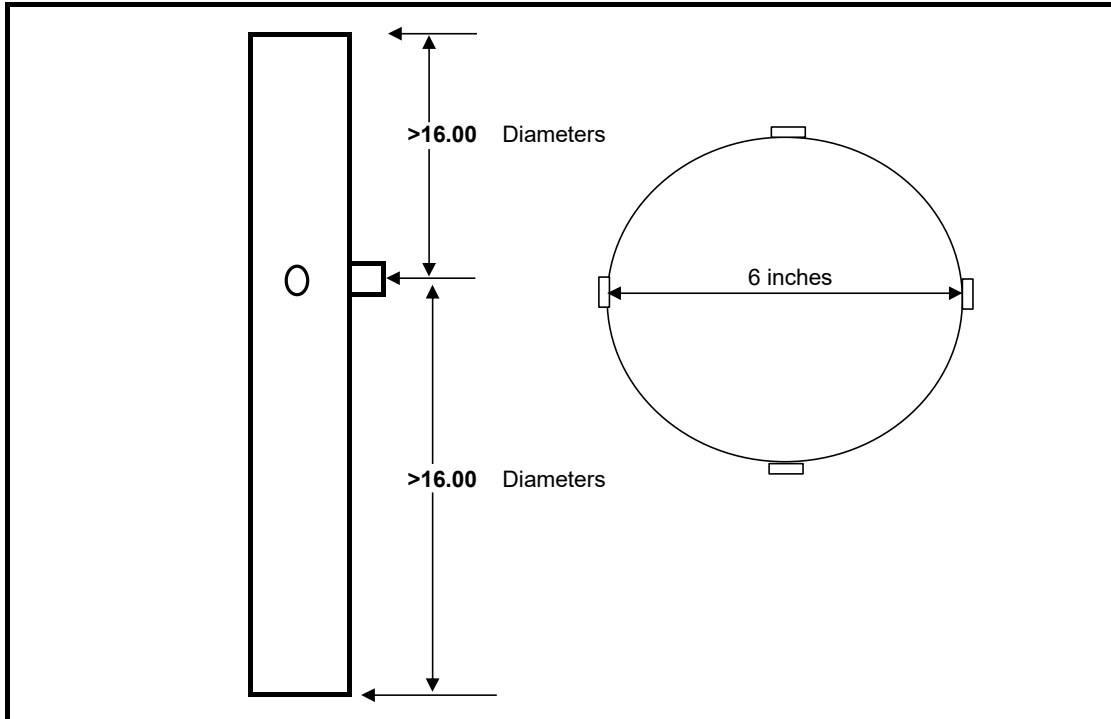
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 6/12/25

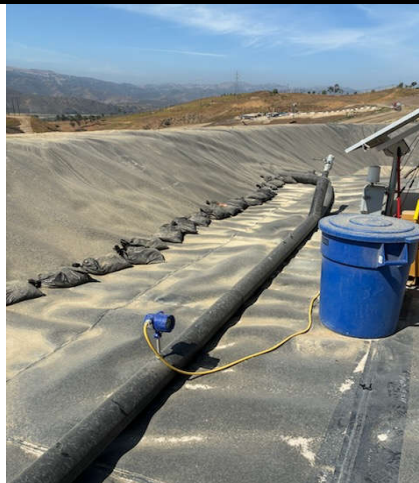
Location: Chiquita TF Canyon D

Performed By: SJ, AD, JI



Diameter (inches)	<u>6.00</u>
Upstream (inches)	<u>96.00</u>
Downstream (inches)	<u>96.00</u>
Coupling (in.)	<u>0.00</u>
Stack Area (ft ²)	<u>0.196</u>

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	0.5	0.5
2	14.6	0.9	0.9
3	29.6	1.8	1.8
4	70.4	4.2	4.2
5	85.4	5.1	5.1
6	95.6	5.7	5.7



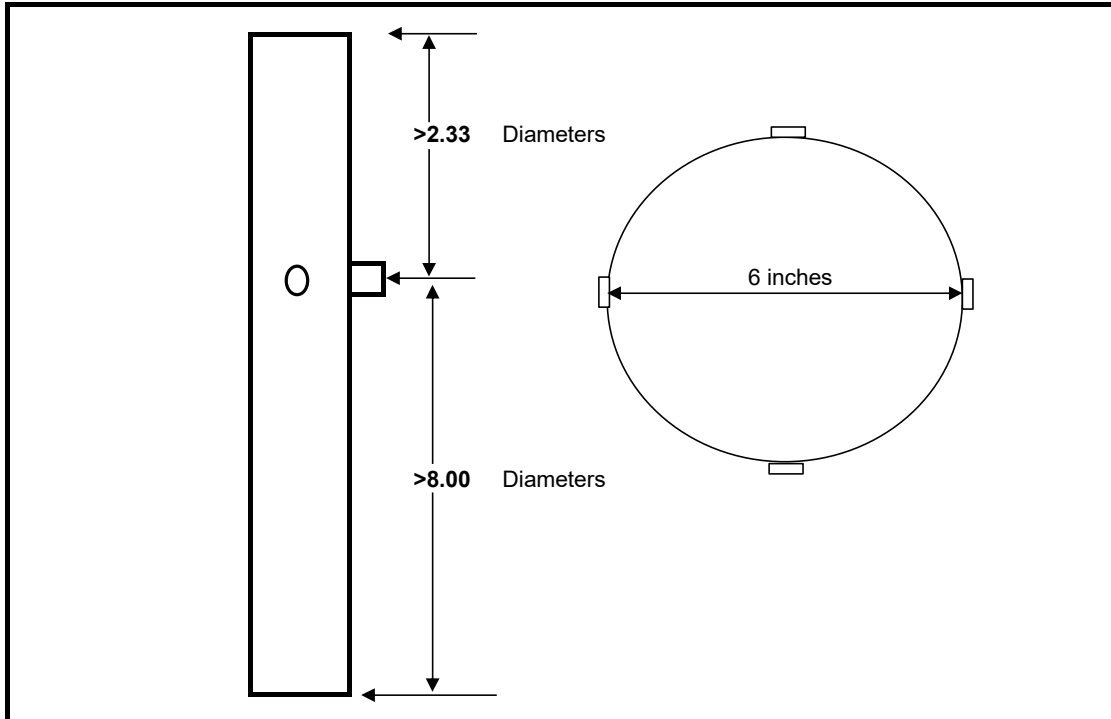
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 9/15/25

Location: Chiquita TF 2

Performed By: SJ, AD, JI



Diameter (inches)	6.00			
Upstream (inches)	48.00	Sample Point	% of Diameter	Dist from Wall (inches)
Downstream (inches)	14.00	1	4.4	0.5
Coupling (in.)	0.00	2	14.6	0.9
Stack Area (ft ²)	0.196	3	29.6	1.8
		4	70.4	4.2
		5	85.4	5.1
		6	95.6	5.5



METHOD 1 DATA SHEET INLET SAMPLE LOCATION

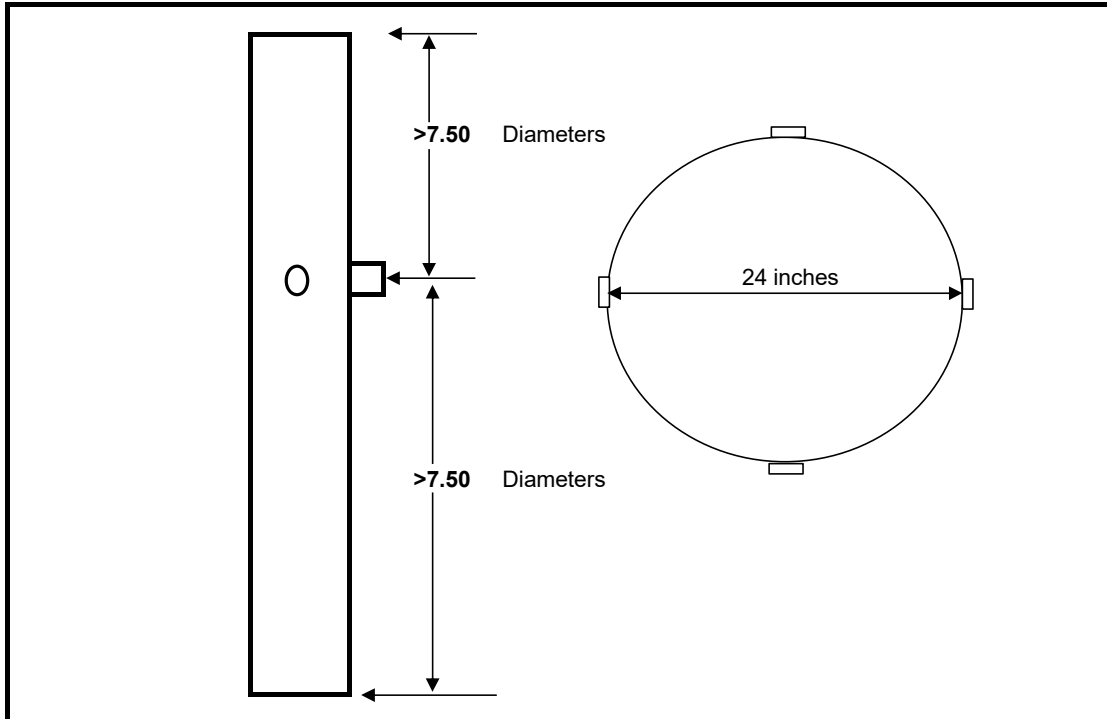


Client: SCS Field Services

Date: 6/12/25

Location: Flare Station Pre-H2S

Performed By: SJ, AD, JI



Diameter (inches)	<u>24.00</u>	Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
Upstream (inches)	<u>180.00</u>	1	3.2	0.8	0.8
Downstream (inches)	<u>180.00</u>	2	10.5	2.5	2.5
Coupling (in.)	<u>0.00</u>	3	19.4	4.7	4.7
Stack Area (ft ²)	<u>3.142</u>	4	32.3	7.8	7.8
		5	67.7	16.2	16.2
		6	80.6	19.3	19.3
		7	89.5	21.5	21.5
		8	96.8	23.2	23.2



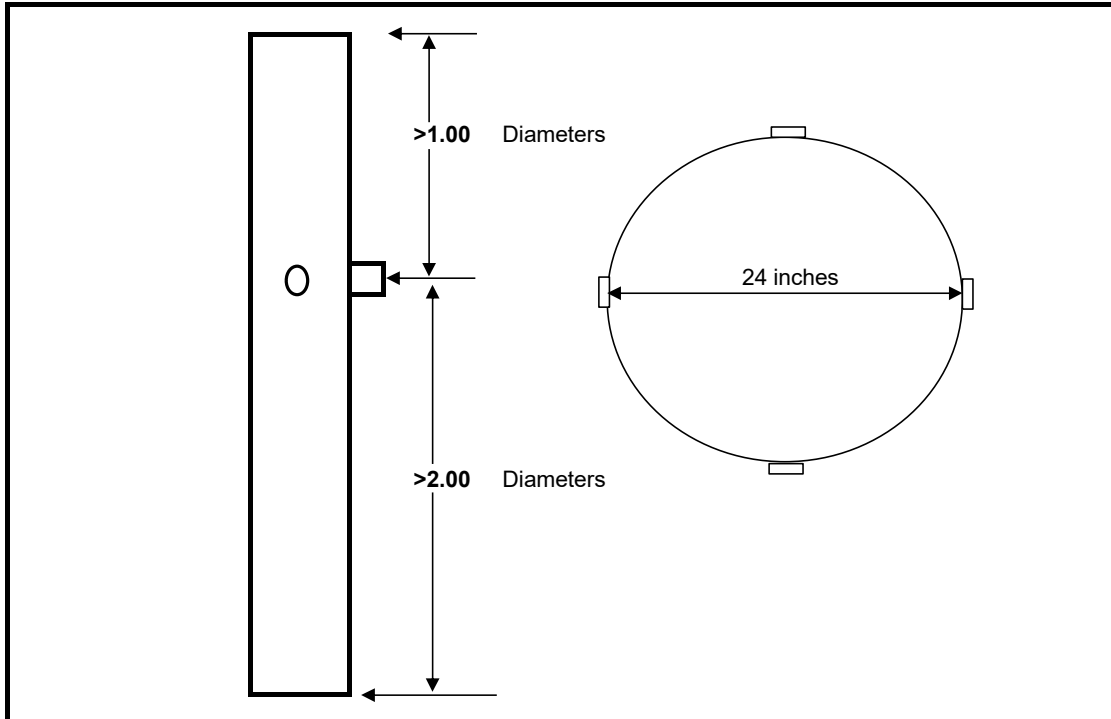
METHOD 1 DATA SHEET INLET SAMPLE LOCATION

Client: SCS Field Services

Date: 6/12/25

Location: Flare Station Post-H2S

Performed By: SJ, AD, JI



Diameter (inches)	<u>24.00</u>	Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
Upstream (inches)	<u>48.00</u>	1	3.2	0.8	0.8
Downstream (inches)	<u>24.00</u>	2	10.5	2.5	2.5
Coupling (in.)	<u>0.00</u>	3	19.4	4.7	4.7
Stack Area (ft ²)	<u>3.142</u>	4	32.3	7.8	7.8
		5	67.7	16.2	16.2
		6	80.6	19.3	19.3
		7	89.5	21.5	21.5
		8	96.8	23.2	23.2



Appendix A.2

Velocity, Moisture and Flow Rate Data

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Tank Farm 6				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.196 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 7:00 7:30				
Test Condition: Normal				
Barom. Pressure: 28.97				
P _{stack} : -0.11 iwg				
P _{stack} : 28.96 "Hg				
MW Wet: 28.18 lb/lb-mole				
MW Dry: 28.53 lb/lb-mole				
Moisture				
Moisture Content: 3.32 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 21.72 % From canister analysis				
CO ₂ : <0.10 % From canister analysis				
N ₂ : 76.86 % From canister analysis				
CH ₄ : <0.10 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.063	0.2510	84	14.69
2	0.068	0.2608	84	15.26
3	0.075	0.2739	84	16.03
4	0.070	0.2646	84	15.49
5	0.081	0.2846	84	16.66
6	0.077	0.2775	84	16.24
1	0.084	0.2898	84	16.96
2	0.080	0.2828	84	16.55
3	0.090	0.3000	84	17.56
4	0.084	0.2898	84	16.96
5	0.073	0.2702	84	15.81
6	0.070	0.2646	84	15.49
Average	0.0761	0.2758	84	16.14
Flow Rate: 190 wacfm				
Flow Rate: 176 scfm				
Flow Rate: 170 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: ST/LD
 LOCATION: CHICOITA BAR. PRESSURE: 20.97
 UNIT: TIF 6 STATIC PRESSURE: ±0.11
 TEST DATE: 9/15/25 TC READOUT ID: PTC 43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM 850 Itg ZERO: LEVEL:

CYCL. Time	T Port	Point	Vel. Head in. H ₂ O	Temp., °F	CYCL. Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
3°		1	0.063	84	2°		1	0.084	84
6		2	0.066	84	6		2	0.080	84
1		3	0.075	84	3		3	0.090	84
4		4	0.070	84	2		4	0.084	84
1		5	0.081	84	0		5	0.073	84
2		6	0.077	84	2		6	0.070	84

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: ZEECO				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.785 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 7:35 8:05				
Test Condition: Normal				
Barom. Pressure: 28.97				
Pstack: -12.0 iwg				
Pstack: 28.09 "Hg				
MW Wet: 29.28 lb/lb-mole				
MW Dry: 30.01 lb/lb-mole				
Moisture				
Moisture Content: 6.04 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 7.82 % From canister analysis				
CO ₂ : 33.37 % From canister analysis				
N ₂ : 35.09 % From canister analysis				
CH ₄ : 18.74 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	1.180	1.0863	167	67.99
2	1.260	1.1225	167	70.26
3	1.310	1.1446	167	71.64
4	1.250	1.1180	167	69.98
5	1.280	1.1314	167	70.82
6	1.350	1.1619	167	72.73
1	1.320	1.1489	167	71.91
2	1.240	1.1136	167	69.70
3	1.220	1.1045	167	69.14
4	1.340	1.1576	167	72.46
5	1.310	1.1446	167	71.64
6	1.330	1.1533	167	72.19
Average	1.2820	1.1323	167	70.87
Flow Rate: 3,340 wacfm				
Flow Rate: 2,600 scfm				
Flow Rate: 2,443 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: <u>WASTE CONNECTIONS</u>	PERFORMED BY: <u>SS / L0</u>
LOCATION: <u>CHICOITA</u>	BAR. PRESSURE: <u>28.97</u>
UNIT: <u>2000 W/RT</u>	STATIC PRESSURE: <u>-12.0</u>
TEST DATE: <u>9/15/25</u>	TC READOUT ID: <u>PC243</u>
TEST NUMBER: <u>1</u>	TC ID: <u>18</u>
LEAK CHECK PRE- <input checked="" type="checkbox"/> POST- <input checked="" type="checkbox"/>	PITOT TUBE ID: <u>180</u>
ΔP INDICATOR TYPE: <u>ELECTRONIC</u>	PITOT TUBE COEFFICIENT: <u>0.84</u>
ΔP INDICATOR ID: <u>ADM 850 #9</u>	ZERO: <input checked="" type="checkbox"/> LEVEL: <input checked="" type="checkbox"/>

CYC Time	I Port	Point	Vel. Head in. H ₂ O	Temp., °F	CYC Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
4°		1	1.18	167	5°		1	1.32	167
8		2	1.26	167	0°		2	1.24	167
2		3	1.31	167	1		3	1.22	167
6		4	1.25	167	3		4	1.34	167
1		5	1.28	167	2		5	1.31	167
3		6	1.35	167	2		6	1.33	167

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Parnel				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.785 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 7:35 8:05				
Test Condition: Normal				
Barom. Pressure: 28.97				
P _{stack} : -13.3 iwg				
P _{stack} : 27.99 "Hg				
MW Wet: 30.52 lb/lb-mole				
MW Dry: 31.06 lb/lb-mole				
Moisture				
Moisture Content: 4.19 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 3.34 % From canister analysis				
CO ₂ : 51.59 % From canister analysis				
N ₂ : 16.03 % From canister analysis				
CH ₄ : 17.54 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.310	0.5568	131	33.20
2	0.380	0.6164	131	36.76
3	0.350	0.5916	131	35.28
4	0.360	0.6000	131	35.78
5	0.390	0.6245	131	37.24
6	0.350	0.5916	131	35.28
1	0.250	0.5000	131	29.82
2	0.340	0.5831	131	34.77
3	0.310	0.5568	131	33.20
4	0.350	0.5916	131	35.28
5	0.390	0.6245	131	37.24
6	0.350	0.5916	131	35.28
Average	0.3431	0.5857	131	34.93
Flow Rate: 1,646 wacfm				
Flow Rate: 1,355 scfm				
Flow Rate: 1,298 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: SL/CO
 LOCATION: CHIROITA BAR. PRESSURE: 28.97
 UNIT: PANEL STATIC PRESSURE: -13.3
 TEST DATE: 2/15/25 TC READOUT ID: PTL43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM850#9 ZERO: LEVEL:

Cyc Time	T Port	Point	Vel. Head in. H ₂ O	Temp., °F	Cyc Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
2°		1	0.31	131	3°		1	0.25	131
1		2	0.38	130	4		2	0.34	131
6		3	0.35	131	2		3	0.31	131
3		4	0.36	131	1		4	0.35	131
4		5	0.39	131	1		5	0.37	131
1		6	0.35	131	3		6	0.35	131

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Tank Farm 2				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.196 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 9:25 9:55				
Test Condition: Normal				
Barom. Pressure: 28.97				
P _{stack} : -0.008 iwg				
P _{stack} : 28.97 "Hg				
MW Wet: 27.89 lb/lb-mole				
MW Dry: 27.98 lb/lb-mole				
Moisture				
Moisture Content: 0.90 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 21.10 % From canister analysis				
CO ₂ : 0.75 % From canister analysis				
N ₂ : 74.59 % From canister analysis				
CH ₄ : <0.10 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.022	0.1483	90	8.77
2	0.027	0.1643	90	9.72
3	0.026	0.1612	90	9.54
4	0.024	0.1549	90	9.16
5	0.031	0.1761	90	10.41
6	0.025	0.1581	90	9.35
1	0.024	0.1549	90	9.16
2	0.026	0.1612	90	9.54
3	0.025	0.1581	90	9.35
4	0.021	0.1449	90	8.57
5	0.023	0.1517	90	8.97
6	0.028	0.1673	90	9.90
Average	0.0251	0.1584	90	9.37
Flow Rate: 110 wacfm				
Flow Rate: 101 scfm				
Flow Rate: 100 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: 88 / 20
 LOCATION: CHICQUITA BAR. PRESSURE: 28.97
 UNIT: T/E 2 STATIC PRESSURE: -0.008
 TEST DATE: 9/15/25 TC READOUT ID: PTC43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM 850 #9 ZERO: LEVEL:

Cycl Time	T Port	Point	Vel. Head in. H ₂ O	Temp., °F	Cycl Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
1		1	0.022	90	7 ⁰		1	0.024	90
2		2	0.027	90	3		2	0.026	90
4		3	0.026	90	1		3	0.025	90
2		4	0.024	90	2		4	0.021	90
0		5	0.031	90	1		5	0.023	90
3		6	0.025	90	3		6	0.028	90

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Canyon D				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.196 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 9:25 9:55				
Test Condition: Normal				
Barom. Pressure: 28.97				
Pstack: -0.045 iwg				
Pstack: 28.97 "Hg				
MW Wet: 28.06 lb/lb-mole				
MW Dry: 28.14 lb/lb-mole				
Moisture				
Moisture Content: 0.79 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 21.19 % From canister analysis				
CO ₂ : 0.97 % From canister analysis				
N ₂ : 74.71 % From canister analysis				
CH ₄ : <0.10 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.049	0.2214	90	13.05
2	0.050	0.2236	90	13.19
3	0.045	0.2121	90	12.51
4	0.051	0.2258	90	13.32
5	0.049	0.2214	90	13.05
6	0.051	0.2258	90	13.32
1	0.045	0.2121	90	12.51
2	0.050	0.2236	90	13.19
3	0.053	0.2302	90	13.58
4	0.055	0.2345	90	13.83
5	0.051	0.2258	90	13.32
6	0.048	0.2191	90	12.92
Average	0.0497	0.2230	90	13.15
Flow Rate: 155 wacfm				
Flow Rate: 142 scfm				
Flow Rate: 141 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: ST/LD
 LOCATION: CHIHUITA BAR. PRESSURE: 28.77
 UNIT: CANYON D STATIC PRESSURE: -0.045
 TEST DATE: 9/15/25 TC READOUT ID: PTC43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM 850 #9 ZERO: LEVEL:

Cycl Time	T Port	Point	Vel. Head in. H ₂ O	Temp., °F	Cycl Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
2°		1	0.049	90	3°		1	0.045	90
1		2	0.050	90	3		2	0.050	90
7		3	0.045	90	2		3	0.053	90
3		4	0.051	90	3		4	0.055	90
6		5	0.049	90	5		5	0.051	90
4		6	0.051	90	2		6	0.048	90

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Tank Farm 7A				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.785 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 8:15 8:45				
Test Condition: Normal				
Barom. Pressure: 28.97				
P _{stack} : -0.005 iwg				
P _{stack} : 28.97 "Hg				
MW Wet: 28.12 lb/lb-mole				
MW Dry: 28.20 lb/lb-mole				
Moisture				
Moisture Content: 0.75 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 21.51 % From canister analysis				
CO ₂ : <0.10 % From canister analysis				
N ₂ : 75.90 % From canister analysis				
CH ₄ : <0.10 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.004	0.0632	91	3.73
2	0.005	0.0707	91	4.17
3	0.005	0.0707	91	4.17
4	0.005	0.0707	91	4.17
5	0.005	0.0707	91	4.17
6	0.003	0.0548	91	3.23
1	0.007	0.0837	91	4.93
2	0.005	0.0707	91	4.17
3	0.005	0.0707	91	4.17
4	0.005	0.0707	91	4.17
5	0.003	0.0548	91	3.23
6	0.004	0.0632	91	3.73
Average	0.0046	0.0679	91	4.00
Flow Rate: 189 wacfm				
Flow Rate: 172 scfm				
Flow Rate: 171 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: SS/LD
 LOCATION: CHIRITA BAR. PRESSURE: 28.27
 UNIT: T/F 7A STATIC PRESSURE: -0.005
 TEST DATE: 9/15/25 TC READOUT ID: PTC43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM 850 #9 ZERO: LEVEL:

Cycl Time	T Port	Point	Vel. Head in. H ₂ O	Temp., °F	Cycl Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
3°		1	0.004	91	3°		1	0.007	91
2		2	0.005	91	1		2	0.005	91
6		3	0.005	91	7		3	0.005	91
1		4	0.005	91	4		4	0.005	91
2		5	0.005	91	3		5	0.003	71
5		6	0.003	91	4		6	0.004	91

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Tank Farm 7B				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.785 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 8:15 8:45				
Test Condition: Normal				
Barom. Pressure: 28.97				
P _{stack} : -0.01 iwg				
P _{stack} : 28.97 "Hg				
MW Wet: 28.16 lb/lb-mole				
MW Dry: 28.27 lb/lb-mole				
Moisture				
Moisture Content: 1.01 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 21.55 % From canister analysis				
CO ₂ : <0.10 % From canister analysis				
N ₂ : 76.11 % From canister analysis				
CH ₄ : <0.10 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.059	0.2429	93	14.34
2	0.063	0.2510	93	14.81
3	0.067	0.2588	93	15.28
4	0.064	0.2530	93	14.93
5	0.066	0.2569	93	15.16
6	0.068	0.2608	93	15.39
1	0.064	0.2530	93	14.93
2	0.069	0.2627	93	15.50
3	0.065	0.2550	93	15.05
4	0.060	0.2449	93	14.46
5	0.063	0.2510	93	14.81
6	0.064	0.2530	93	14.93
Average	0.0643	0.2536	93	14.97
Flow Rate: 705 wacfm				
Flow Rate: 642 scfm				
Flow Rate: 636 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: ST/LO
 LOCATION: CHIQUITA BAR. PRESSURE: 28.97
 UNIT: T/F 2B STATIC PRESSURE: -0.01
 TEST DATE: 9/15/25 TC READOUT ID: PTC43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM 850 #9 ZERO: LEVEL:

<u>cyc</u> <u>Time</u>	<u>T</u> <u>Port</u>	<u>Point</u>	<u>Vel. Head</u> <u>in. H₂O</u>	<u>Temp., °F</u>	<u>cyc</u> <u>Time</u>	<u>S</u> <u>Port</u>	<u>Point</u>	<u>Vel. Head</u> <u>in. H₂O</u>	<u>Temp., °F</u>
<u>8</u>		<u>1</u>	<u>0.059</u>	<u>93</u>	<u>0</u>		<u>1</u>	<u>0.064</u>	<u>93</u>
<u>3</u>		<u>2</u>	<u>0.063</u>	<u>93</u>	<u>1</u>		<u>2</u>	<u>0.069</u>	<u>93</u>
<u>2</u>		<u>3</u>	<u>0.067</u>	<u>93</u>	<u>3</u>		<u>3</u>	<u>0.065</u>	<u>93</u>
<u>1</u>		<u>4</u>	<u>0.064</u>	<u>93</u>	<u>2</u>		<u>4</u>	<u>0.060</u>	<u>93</u>
<u>2</u>		<u>5</u>	<u>0.066</u>	<u>93</u>	<u>6</u>		<u>5</u>	<u>0.063</u>	<u>93</u>
<u>4</u>		<u>6</u>	<u>0.068</u>	<u>93</u>	<u>5</u>		<u>6</u>	<u>0.064</u>	<u>93</u>

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Flare Station Pre-H2S				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 3.142 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 10:00 10:30				
Test Condition: Normal				
Barom. Pressure: 28.97				
Pstack: -0.06 iwg				
Pstack: 28.97 "Hg				
MW Wet: 29.02 lb/lb-mole				
MW Dry: 29.34 lb/lb-mole				
Moisture				
Moisture Content: 2.88 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 5.94 % From canister analysis				
CO ₂ : 36.29 % From canister analysis				
N ₂ : 26.03 % From canister analysis				
CH ₄ : 26.17 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.027	0.1643	113	9.73
2	0.029	0.1703	113	10.08
3	0.031	0.1761	113	10.42
4	0.035	0.1871	113	11.07
5	0.032	0.1789	113	10.59
6	0.028	0.1673	113	9.90
7	0.026	0.1612	113	9.54
8	0.024	0.1549	113	9.17
1	0.027	0.1643	113	9.73
2	0.029	0.1703	113	10.08
3	0.031	0.1761	113	10.42
4	0.033	0.1817	113	10.75
5	0.035	0.1871	113	11.07
6	0.031	0.1761	113	10.42
7	0.025	0.1581	113	9.36
8	0.024	0.1549	113	9.17
Average	0.0291	0.1705	113	10.09
Flow Rate: 1,903 wacfm				
Flow Rate: 1,672 scfm				
Flow Rate: 1,624 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: WASTE CONNECTIONS PERFORMED BY: 85/20
 LOCATION: CHIRQUITA BAR. PRESSURE: 28.97
 UNIT: GA FINE STATION POGH2S STATIC PRESSURE: -0.06
 TEST DATE: 9/15/25 TC READOUT ID: PTC43
 TEST NUMBER: 1 TC ID: 180
 LEAK CHECK PRE- POST- ✓ PITOT TUBE ID: 180
 ΔP INDICATOR TYPE: ELECTRONIC PITOT TUBE COEFFICIENT: 0.84
 ΔP INDICATOR ID: ADM850 #8 ZERO: ✓ LEVEL: ✓

CYCL Time	A Port	Point	Vel. Head in. H ₂ O	Temp., °F	CYCL Time	B Port	Point	Vel. Head in. H ₂ O	Temp., °F
5'		1	0.027	113	3'		1	0.027	113
2		2	0.029	113	9		2	0.029	113
3		3	0.031	113	7		3	0.031	113
2		4	0.035	113	1		4	0.033	113
0		5	0.032	113	4		5	0.035	113
1		6	0.028	113	0		6	0.031	113
6		7	0.026	113	2		7	0.025	113
1		8	0.024	113	2		8	0.024	113

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Flare Station Post-H2S				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 3.142 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 10:00 10:30				
Test Condition: Normal				
Barom. Pressure: 28.97				
Pstack: 3.15 iwg				
Pstack: 29.20 "Hg				
MW Wet: 28.89 lb/lb-mole				
MW Dry: 29.22 lb/lb-mole				
Moisture				
Moisture Content: 2.88 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 5.90 % From canister analysis				
CO ₂ : 36.30 % From canister analysis				
N ₂ : 25.80 % From canister analysis				
CH ₄ : 25.82 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.033	0.1817	112	10.72
2	0.031	0.1761	112	10.39
3	0.030	0.1732	112	10.22
4	0.027	0.1643	112	9.70
5	0.026	0.1612	112	9.52
6	0.029	0.1703	112	10.05
7	0.034	0.1844	112	10.88
8	0.030	0.1732	112	10.22
1	0.030	0.1732	112	10.22
2	0.034	0.1844	112	10.88
3	0.030	0.1732	112	10.22
4	0.031	0.1761	112	10.39
5	0.033	0.1817	112	10.72
6	0.026	0.1612	112	9.52
7	0.023	0.1517	112	8.95
8	0.021	0.1449	112	8.55
Average	0.0291	0.1707	112	10.07
Flow Rate: 1,899 wacfm				
Flow Rate: 1,685 scfm				
Flow Rate: 1,637 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: <u>WASTE CONNECTIONS</u>	PERFORMED BY: <u>35/20</u>
LOCATION: <u>CHICOMITA</u>	BAR. PRESSURE: <u>28.97</u>
UNIT: <u>FLUE STATION POST #25</u>	STATIC PRESSURE: <u>315</u>
TEST DATE: <u>9/15/25</u>	TC READOUT ID: <u>PTC43</u>
TEST NUMBER: <u>1</u>	TC ID: <u>180</u>
LEAK CHECK PRE- <input checked="" type="checkbox"/> POST- <input checked="" type="checkbox"/>	PITOT TUBE ID: <u>180</u>
ΔP INDICATOR TYPE: <u>ELECTRONIC</u>	PITOT TUBE COEFFICIENT: <u>0.84</u>
ΔP INDICATOR ID: <u>ADM 850 #9</u>	ZERO: <input checked="" type="checkbox"/> LEVEL: <input checked="" type="checkbox"/>

Cyc Time	A Port	Point	Vel. Head in. H ₂ O	Temp., °F	Cyc Time	B Port	Point	Vel. Head in. H ₂ O	Temp., °F
30		1	0.033	112	2		1	0.030	112
9		2	0.031	112	2		2	0.034	112
4		3	0.030	112	7		3	0.030	112
2		4	0.027	112	3		4	0.031	112
0		5	0.026	112	6		5	0.033	112
1		6	0.029	112	1		6	0.026	112
3		7	0.034	112	5		7	0.023	112
1		8	0.030	112	1		8	0.021	112

Comments: _____

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS				
Station: Chiquita Canyon Landfill				
Unit: Tank Farm 13				
Performed By: 9/15/2025				
Cp: 0.84				
T _{ref} : 60 °F				
Stack Area: 0.785 ft ²				
TEST VARIABLES				
Start Date: 9/15/25				
Start/End Time: 8:50 9:20				
Test Condition: Normal				
Barom. Pressure: 28.97				
P _{stack} : -0.04 iwg				
P _{stack} : 28.97 "Hg				
MW Wet: 28.19 lb/lb-mole				
MW Dry: 28.28 lb/lb-mole				
Moisture				
Moisture Content: 0.90 % From WbDb				
Fuel Gas Composition Data				
O ₂ : 21.08 % From canister analysis				
CO ₂ : 0.74 % From canister analysis				
N ₂ : 75.69 % From canister analysis				
CH ₄ : <0.11 % From canister analysis				
METHOD 2.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)
1	0.071	0.2665	96	15.76
2	0.073	0.2702	96	15.98
3	0.084	0.2898	96	17.15
4	0.079	0.2811	96	16.63
5	0.086	0.2933	96	17.35
6	0.078	0.2793	96	16.52
1	0.077	0.2775	96	16.42
2	0.074	0.2720	96	16.09
3	0.073	0.2702	96	15.98
4	0.075	0.2739	96	16.20
5	0.076	0.2757	96	16.31
6	0.074	0.2720	96	16.09
Average	0.0766	0.2768	96	16.37
Flow Rate: 772 wacfm				
Flow Rate: 699 scfm				
Flow Rate: 692 dscfm				

FLUE GAS VELOCITY DATASHEET

CLIENT: <u>WASTE CONNECTIONS</u>	PERFORMED BY: <u>BT/20</u>
LOCATION: <u>CHIQUITA</u>	BAR. PRESSURE: <u>28.97</u>
UNIT: <u>T/F 13</u>	STATIC PRESSURE: <u>-0.04</u>
TEST DATE: <u>9/15/25</u>	TC READOUT ID: <u>PTC43</u>
TEST NUMBER: <u>1</u>	TC ID: <u>180</u>
LEAK CHECK PRE- <input checked="" type="checkbox"/> POST- <input checked="" type="checkbox"/>	PITOT TUBE ID: <u>180</u>
ΔP INDICATOR TYPE: <u>ELECTRONIC</u>	PITOT TUBE COEFFICIENT: <u>0.84</u>
ΔP INDICATOR ID: <u>ADM 850 #9</u>	ZERO: <input checked="" type="checkbox"/> LEVEL: <input checked="" type="checkbox"/>

CYC Time	T Port	Point	Vel. Head in. H ₂ O	Temp., °F	CYC Time	S Port	Point	Vel. Head in. H ₂ O	Temp., °F
2		1	0.071	96	4		1	0.077	96
8		2	0.073	96	6		2	0.074	96
7		3	0.084	96	2		3	0.073	96
3		4	0.079	96	0		4	0.075	96
1		5	0.086	96	1		5	0.076	96
5		6	0.078	96	3		6	0.074	96

Comments: _____

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/C CHIQUITA Date: 9/15/25
 Unit/Location: TANK FARM 6 Performed By: SS / LO
 Barometric Pressure 29.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1	
Canister ID		626	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	07:00	30
	10	07:10	22
	20	07:20	14
	WVP → 30	07:30	5
Sample Collection	Stop		
Post -Test Leak Check	Start	07:42	5
Post-Test Leak Check	Stop	07:52	5

FLOWRATE DATA

Diameter: 6"
 Upstream: 48"
 Downstream: 48"
 Flow Rate: 170
 Wet bulb: 79
 Dry bulb: 84

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID: N/A

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/C CHIQUITA Date: 9/15/25
 Unit/Location: 2EECD W/ET Performed By: ST/LD
 Barometric Pressure 28.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1	
Canister ID		417	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0735	30
	10	0745	22
	20	0755	13
	END → 30	0805	5
Sample Collection	Stop		
Post -Test Leak Check	Start	0820	5
Post-Test Leak Check	Stop	0830	5

FLOWRATE DATA

Diameter: 12"
 Upstream: 120"
 Downstream: 180"
 Flow Rate: 2563
 Wet bulb: 106
 Dry bulb: 167

TEDLAR BAG DATA

Start: _____
 Stop: N/A
 Bag ID: _____

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/L C#11917A Date: 9/15/25
 Unit/Location: PARNELL INLET Performed By: ST/LO
 Barometric Pressure 28.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1	
Canister ID		0592	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0735	30
	10	0745	21
	20	0755	13
<u>BUN →</u>	30	0805	5
Sample Collection	Stop	0820	5
Post-Test Leak Check	Start	0820	5
Post-Test Leak Check	Stop	0830	5

FLOWRATE DATA

Diameter: 12"
 Upstream: 120"
 Downstream: 40"
 Flow Rate: 138 1330
 Wet bulb: 93
 Dry bulb: 131

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID: _____

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/C CHIQUITA Date: 9/15/25
 Unit/Location: T/F 2 Performed By: ST/LD
 Barometric Pressure 28.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1	
Canister ID		607	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0925	30
	10	0935	23
	20	0945	16
END	30	0955	5
Sample Collection	Stop		
Post-Test Leak Check	Start	1012	5
Post-Test Leak Check	Stop	1022	5

FLOWRATE DATA

Diameter: 6"
 Upstream: 48"
 Downstream: 14"
 Flow Rate: 103
 Wet bulb: 61
 Dry bulb: 90

TEDLAR BAG DATA

Start: _____
 Stop: N/A
 Bag ID: _____

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/C CHIQUITA Date: 4/15/25
 Unit/Location: T/F CANYON D Performed By: SO/LO
 Barometric Pressure 29.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1	
Canister ID		5	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0925	30
	10	0935	22
	20	0945	14
<u>END</u>	30	0955	5
Sample Collection	Stop		
Post-Test Leak Check	Start	1012	5
Post-Test Leak Check	Stop	1022	5

FLOWRATE DATA

Diameter: 6"
 Upstream: 96"
 Downstream: 96"
 Flow Rate: 137
 Wet bulb: 60
 Dry bulb: 90

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID:

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/c CHIQUITA Date: 7/15/25

Unit/Location: T/F 7A Performed By: ST/LO

Barometric Pressure _____ Ambient Temperature _____

SUMMA CANISTER DATA

Test No.		1	
Canister ID		604	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0815	30
	10	0825	22
	20	0835	13
END	30	0845	5
Sample Collection	Stop		
Post -Test Leak Check	Start	0905	5
Post-Test Leak Check	Stop	0915	5

FLOWRATE DATA

Diameter: 12"

Upstream: 96'

Downstream: 96"

Flow Rate: 166

Wet bulb: 60

Dry bulb: 91

TEDLAR BAG DATA

Start: N/A

Stop: N/A

Bag ID: _____

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/c CHIQUITA Date: 9/15/25
 Unit/Location: T/F 7B Performed By: SS/20
 Barometric Pressure 28.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1	
Canister ID		83	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0815	30
	10	0825	21
	20	0835	16
	30	0845	5
Sample Collection	Stop		
Post -Test Leak Check	Start	0905	5
Post-Test Leak Check	Stop	0915	5

FLOWRATE DATA

Diameter: 12"
 Upstream: 180"
 Downstream: 180"
 Flow Rate: 30
 Wet bulb: 63
 Dry bulb: 93

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID: _____

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/C CHIROUTA Date: 9/15/25
 Unit/Location: FINDING STATION PDE#25 Performed By: ST/LD
 Barometric Pressure 2897 Ambient Temperature 70

SUMMA CANISTER DATA

Test No.		1	
Canister ID		D533	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	1000	30
	10	1010	22
	20	1020	13
END	30	1030	5
Sample Collection	Stop		
Post-Test Leak Check	Start	1035	5
Post-Test Leak Check	Stop	1045	5

FLOWRATE DATA

Diameter: 24"
 Upstream: 180"
 Downstream: 180"
 Flow Rate: N/A
 Wet bulb: 83
 Dry bulb: 113

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID: N/A

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: W/C CHIQUITA Date: 9/15/25
 Unit/Location: FIELD STATION POST RT25 Performed By: SS/LD
 Barometric Pressure 28.97 Ambient Temperature 70'

SUMMA CANISTER DATA

Test No.		1	
Canister ID		610	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	1000	30
	10	1010	21
	20	1020	14
	30	1030	5
Sample Collection	Stop		
Post -Test Leak Check	Start	1035	5
Post-Test Leak Check	Stop	1045	5

FLOWRATE DATA

Diameter: 24"
 Upstream: 40"
 Downstream: 24"
 Flow Rate: N/A
 Wet bulb: 83
 Dry bulb: 112

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID: N/A

LEACHATE TANK HEADSPACE SAMPLING DATA

Client/Facility: WIC CHIQUITA Date: 9/15/25
 Unit/Location: T/F 13 Performed By: SS/LO
 Barometric Pressure 28.97 Ambient Temperature 70°

SUMMA CANISTER DATA

Test No.		1/625	
Canister ID		1/625	
		Time	Vacuum
Pre-Test Leak Check	Start	6:40	30
Pre-Test Leak Check	Stop	6:50	30
Sample Collection	Start	0850	30
	10	0900	22
	20	0910	16
<u>END</u>	30	0920	5
Sample Collection	Stop		
Post -Test Leak Check	Start	0938	5
Post-Test Leak Check	Stop	0948	5

FLOWRATE DATA

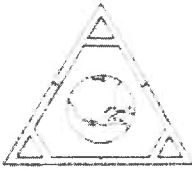
Diameter: 12"
 Upstream: 120"
 Downstream: 120"
 Flow Rate: 672
 Wet bulb: 63
 Dry bulb: 96

TEDLAR BAG DATA

Start: N/A
 Stop: N/A
 Bag ID: N/A

Appendix A.3

Organics and Sulfur Field and Laboratory Data



AtmAA Inc.

5107 Douglas Fir Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Permanent Gases Analysis in Silco Canister Samples by Method ASTM D1946-90

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025

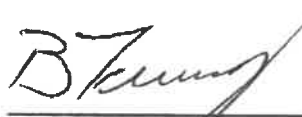
ANALYSIS DESCRIPTION

Permanent gases were measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90.

AtmAA Lab No.:	22585-7	22585-8	22585-9
Sample I.D.:	Tank Farm 6	Parnell Inlet	Zeeco Inlet

<u>Components</u>	<i>(Concentration in %,v)</i>		
Nitrogen	76.86	16.03	35.09
Oxygen	21.72	3.34	7.82
Methane	<0.10	17.54	18.74
Carbon dioxide	<0.10	51.59	33.37
Hydrogen	<0.10	7.69	1.81

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon. The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported. Actual analysis results are reported on a "wet" basis.



Brian W. Fung
Laboratory Director

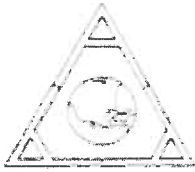
QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in %, v)</i>			
Nitrogen	Tank Farm 6	76.97	76.75	76.86	0.29
Oxygen	Tank Farm 6	21.71	21.73	21.72	0.09
Methane	Tank Farm 6	<0.10	<0.10	---	---
Carbon dioxide	Tank Farm 6	<0.10	<0.10	---	---
Hydrogen	Tank Farm 6	<0.10	<0.10	---	---

Three Silco canister samples, laboratory numbers 22585-(7-9), were analyzed for permanent gases. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 2 repeat measurements from three Silco canister samples is 0.19%.





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LABORATORY ANALYSIS REPORT

Speciated Hydrocarbons Analysis in Silco Canister Samples

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025
Laboratory Temp: 73.5 °F
Barometric Pressure: 29.79 inHg

ANALYSIS DESCRIPTION

Hydrocarbon speciation analysis was performed by flame ionization detection/gas chromatography (FID/GC), modified EPA-18. Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90

AtMAA Lab No.:	22585-7	22585-8	22585-9
Sample ID:	Tank Farm 6	Parnell Inlet	Zeeco Inlet

Component	(Concentration in ppmv, component)		
Methane	26.5	175400	187400
Ethene	<0.30	129	56.6
Acetylene	<0.30	152	57.7
Ethane	<0.30	<0.30	<0.30

Non-methane hydrocarbons analysis by carbon number grouping

C3	<0.10	413	175
C4	12.8	1886	983
C5	5.05	2072	1100
C6	3.68	2100	834
C7	2.23	698	278
C8	1.01	589	160
C9	1.41	537	207
C10	2.69	463	245
C11	0.78	88.9	64.5
C12	0.49	56.2	27.4
C13	0.35	25.3	14.8
C14	<0.06	5.07	4.02

	(Concentration in ppmvC)		
TNMHC	181	53418	24006

TNMHC - total non-methane hydrocarbons as ppmvC.
Actual analysis results are reported on a "wet" basis.

B. Fung
Brian W. Fung
Laboratory Director

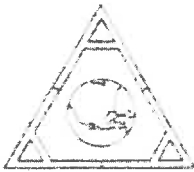
QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Landfill
Date Received: September 15, 2025
Date Analyzed: September 17, 2025

Component	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Conc. in ppmv, component)</i>			
Methane	Tank Farm 6	26.3	26.7	26.5	1.4
Ethene	Tank Farm 6	<0.30	<0.30	<0.30	---
Acetylene	Tank Farm 6	<0.30	<0.30	<0.30	---
Ethane	Tank Farm 6	<0.30	<0.30	<0.30	---
<u>non-methane hydrocarbons analysis by carbon number grouping</u>					
C3	Tank Farm 6	<0.10	<0.10	<0.10	---
C4	Tank Farm 6	12.9	12.7	12.8	1.8
C5	Tank Farm 6	5.11	5.00	5.05	2.2
C6	Tank Farm 6	3.84	3.52	3.68	8.7
C7	Tank Farm 6	2.29	2.18	2.23	4.8
C8	Tank Farm 6	1.07	0.94	1.01	13
C9	Tank Farm 6	1.38	1.43	1.41	3.6
C10	Tank Farm 6	2.62	2.76	2.69	5.2
C11	Tank Farm 6	0.88	0.68	0.78	26
C12	Tank Farm 6	0.45	0.52	0.49	15
C13	Tank Farm 6	0.35	0.36	0.35	3.3
C14	Tank Farm 6	<0.06	<0.06	<0.06	---
		<i>(Concentration in ppmvC)</i>			
TNMHC	Tank Farm 6	183	179	181	2.5

Three Silco canister samples, laboratory numbers 22585-(7-9), were analyzed for hydrocarbon speciation, EPA Method 18. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 12 repeat measurements from three Silco canister samples is 7.3%.





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LABORATORY ANALYSIS REPORT

Permanent Gases Analysis in Silco Canister Samples by Method ASTM D1946-90

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025


ANALYSIS DESCRIPTION

Permanent gases were measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90.

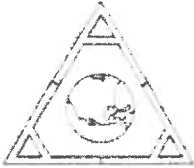
AtmAA Lab No.:	22585-10	22585-11	22585-12
Sample I.D.:	Tank Farm 7B	Tank Farm 7A	Tank Farm 13

Components	(Concentration in %,v)		
Nitrogen	76.11	75.90	75.69
Oxygen	21.55	21.51	21.08
Methane	<0.10	<0.10	<0.11
Carbon dioxide	<0.10	<0.10	0.74
Hydrogen	<0.10	<0.10	<0.10

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon. The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported. Actual analysis results are reported on a "wet" basis.



Brian W. Fung
Laboratory Director



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LABORATORY ANALYSIS REPORT

Speciated Hydrocarbons Analysis in Silco Canister Samples

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025
Laboratory Temp: 73.5 °F
Barometric Pressure: 29.79 inHg

ANALYSIS DESCRIPTION

Hydrocarbon speciation analysis was performed by flame ionization detection/gas chromatography (FID/GC), modified EPA-18. Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90

AtmAA Lab No.:	22585-10	22585-11	22585-12
Sample ID:	Tank Farm 7B	Tank Farm 7A	Tank Farm 13

Component	(Concentration in ppmv, component)		
Methane	40.7	65.2	557
Ethene	<0.30	<0.30	<0.30
Acetylene	<0.30	<0.30	<0.30
Ethane	<0.30	<0.30	<0.30

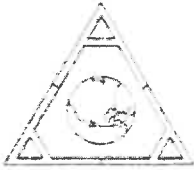
Non-methane hydrocarbons analysis by carbon number grouping

C3	<0.10	<0.10	<0.10
C4	116	247	186
C5	62.4	124	183
C6	43.6	72.2	77.1
C7	27.9	19.6	18.9
C8	10.1	9.08	11.0
C9	18.9	14.5	10.6
C10	43.4	33.0	23.3
C11	19.2	12.8	9.09
C12	17.3	10.6	7.95
C13	8.30	4.63	47.9
C14	2.61	1.26	1.38

	(Concentration in ppmvC)		
TNMHC	2479	3058	3508

TNMHC - total non-methane hydrocarbons as ppmvC.
Actual analysis results are reported on a "wet" basis.

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LABORATORY ANALYSIS REPORT

Permanent Gases Analysis in Silco Canister Samples by Method ASTM D1946-90

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025

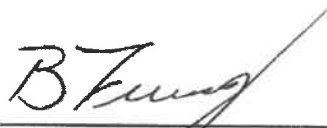
ANALYSIS DESCRIPTION

Permanent gases were measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90.

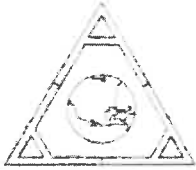
AtmAA Lab No.:	22585-13	22585-14
Sample I.D.:	Canyon D	Tank Farm 2

<u>Components</u>	<i>(Concentration in %,v)</i>	
Nitrogen	74.71	74.59
Oxygen	21.19	21.10
Methane	<0.10	<0.10
Carbon dioxide	0.97	0.75
Hydrogen	<0.10	<0.10

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon. The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported. Actual analysis results are reported on a "wet" basis.



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LABORATORY ANALYSIS REPORT

Speciated Hydrocarbons Analysis in Silco Canister Samples

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025
Laboratory Temp: 73.5 °F
Barometric Pressure: 29.79 inHg

ANALYSIS DESCRIPTION

Hydrocarbon speciation analysis was performed by flame ionization detection/gas chromatography (FID/GC), modified EPA-18. Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90

AtmAA Lab No.:	22585-13	22585-14
Sample ID:	Canyon D	Tank Farm 2

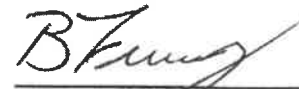
<u>Component</u>	<i>(Concentration in ppmv, component)</i>	
Methane	825	461
Ethene	<0.30	<0.30
Acetylene	<0.30	<0.30
Ethane	<0.30	<0.30

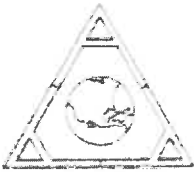
Non-methane hydrocarbons analysis by carbon number grouping

C3	2.56	<0.10
C4	125	445
C5	132	416
C6	76.2	419
C7	16.3	66.4
C8	8.27	36.5
C9	7.52	37.7
C10	12.0	92.8
C11	4.22	36.7
C12	3.94	17.0
C13	2.82	10.5
C14	1.36	3.83

	<i>(Concentration in ppmvC)</i>	
TNMHC	2143	9189

TNMHC - total non-methane hydrocarbons as ppmvC.
Actual analysis results are reported on a "wet" basis.


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LABORATORY ANALYSIS REPORT

Permanent Gases Analysis in Silco Canister Samples by Method ASTM D1946-90

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025

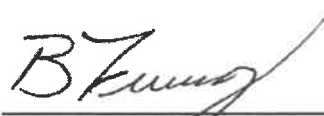
ANALYSIS DESCRIPTION

Permanent gases were measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90.

AtmAA Lab No.: 22585-15 22585-16
Sample I.D.: Flare Station Pre H2S | Flare Station Post H2S

Components	(Concentration in %,v)	
Nitrogen	26.03	25.80
Oxygen	5.94	5.90
Methane	26.17	25.82
Carbon dioxide	36.29	36.30
Hydrogen	2.30	2.31

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon. The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported. Actual analysis results are reported on a "wet" basis.



Brian W. Fung
Laboratory Director

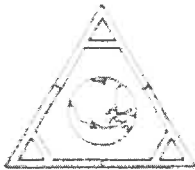
QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in %v)</i>			
Nitrogen	Flare Station Pre H2S	26.08	25.98	26.03	0.38
Oxygen	Flare Station Pre H2S	5.97	5.91	5.94	1.0
Methane	Flare Station Pre H2S	26.02	26.32	26.17	1.1
Carbon dioxide	Flare Station Pre H2S	36.03	36.54	36.29	1.4
Hydrogen	Flare Station Pre H2S	2.18	2.42	2.30	10

Two Silco canister samples, laboratory numbers 22585-(15-16), were analyzed for permanent gases. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 5 repeat measurements from two Silco canister samples is 2.9%.





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LABORATORY ANALYSIS REPORT

Speciated Hydrocarbons Analysis in Silco Canister Samples

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 17, 2025
Laboratory Temp: 73.5 °F
Barometric Pressure: 29.79 inHg

ANALYSIS DESCRIPTION

Hydrocarbon speciation analysis was performed by flame ionization detection/gas chromatography (FID/GC), modified EPA-18. Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946-90

AtmAA Lab No.:	22585-15	22585-16
Sample ID:	Flare Station Pre H2S	Flare Station Post H2S

<u>Component</u>	<i>(Concentration in ppmv, component)</i>	
Methane	261700	258200
Ethene	<0.30	<0.30
Acetylene	<0.30	<0.30
Ethane	40.6	41.3

Non-methane hydrocarbons analysis by carbon number grouping

C3	160	163
C4	1315	1583
C5	1047	1184
C6	1370	1603
C7	267	370
C8	233	261
C9	264	330
C10	291	428
C11	56.9	79.5
C12	33.7	49.8
C13	17.7	26.2
C14	2.96	4.99

	<i>(Concentration in ppmvC)</i>	
TNMHC	29604	36242

*TNMHC - total non-methane hydrocarbons as ppmvC.
Actual analysis results are reported on a "wet" basis.*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Landfill
Date Received: September 15, 2025
Date Analyzed: September 17, 2025

Component	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Conc. in ppmv, component)</i>			
Methane	Flare Station Pre H2S	260200	263200	261700	1.1
Ethene	Flare Station Pre H2S	<0.30	<0.30	<0.30	---
Acetylene	Flare Station Pre H2S	<0.30	<0.30	<0.30	---
Ethane	Flare Station Pre H2S	40.6	40.6	40.6	0.22
<u>non-methane hydrocarbons analysis by carbon number grouping</u>					
C3	Flare Station Pre H2S	161	160	160	0.69
C4	Flare Station Pre H2S	1348	1282	1315	5.0
C5	Flare Station Pre H2S	1074	1020	1047	5.2
C6	Flare Station Pre H2S	1383	1357	1370	1.9
C7	Flare Station Pre H2S	284	250	267	13
C8	Flare Station Pre H2S	238	229	233	3.6
C9	Flare Station Pre H2S	270	259	264	4.2
C10	Flare Station Pre H2S	301	282	291	6.4
C11	Flare Station Pre H2S	58.0	55.9	56.9	3.7
C12	Flare Station Pre H2S	32.9	34.5	33.7	4.6
C13	Flare Station Pre H2S	18.1	17.4	17.7	3.7
C14	Flare Station Pre H2S	3.23	2.68	2.96	19
		<i>(Concentration in ppmvC)</i>			
TNMHC	Flare Station Pre H2S	30256	28952	29604	4.4

Two Silco canister samples, laboratory numbers 22585-(15-16), were analyzed for hydrocarbon speciation, EPA Method 18. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 15 repeat measurements from two Silco canister samples is 5.1%.



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-7
 Sample ID: Tank Farm 6

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt.%	
Methane	0.00	0.00	Carbon	0.01
Carbon dioxide	0.00	0.00	Hydrogen	0.00
Nitrogen	77.96	75.40	Oxygen	23.30
Oxygen	21.10	23.30	Nitrogen	75.40
Argon	0.94	1.29	Argon	1.29
Hydrogen	0.00	0.00	Sulfur	0.00
(CH ₂) _n	0.003	0.01		
Specific Volume		13.093		
BTU/ft ³ (Dry @60F, 14.696 psia)		0.1453	(HHV)	0.1345 (LHV)
BTU/ft ³ (Water Saturated @ 0.25636 psia)		0.1428	(HHV)	0.1322 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		1.9026	(HHV)	1.762 (LHV)
F _d (factor)		NA		
F _w (factor)		NA		
F _c (factor)		1283		
Compressibility Factor (@60F, 14.696 psia)		0.9996		
Wobbe Index		0.1463		
Specific Gravity		0.9869		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-8
 Sample ID: Parnell Inlet

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt. %	
Methane	18.06	8.77	Carbon	27.92
Carbon dioxide	53.12	70.94	Hydrogen	3.06
Nitrogen	16.51	14.03	Oxygen	54.79
Oxygen	3.29	3.20	Nitrogen	14.03
Argon	0.15	0.18	Argon	0.18
Hydrogen	7.92	0.48	Sulfur	0.02
(CH ₂) _n	0.933	2.38		
Specific Volume		11.501		
BTU/ft3 (Dry @60F, 14.696 psia)		251.6	(HHV)	226.2 (LHV)
BTU/ft3 (Water Saturated @ 0.25636 psia)		247.2	(HHV)	222.2 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		2893	(HHV)	2601 (LHV)
F _d (factor)		10588		
F _w (factor)		12631		
F _c (factor)		3098		
Compressibility Factor (@60F, 14.696 psia)		0.9970		
Wobbe Index		235.7		
Specific Gravity		1.1393		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-9
 Sample ID: Zeeco Inlet

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt.%	
Methane	19.27	9.86	Carbon	21.50
Carbon dioxide	34.31	48.27	Hydrogen	2.77
Nitrogen	36.08	32.30	Oxygen	42.98
Oxygen	7.70	7.88	Nitrogen	32.30
Argon	0.34	0.44	Argon	0.44
Hydrogen	1.86	0.12	Sulfur	0.01
(CH ₂) _n	0.427	1.13		
Specific Volume		12.119		
BTU/ft ³ (Dry @60F, 14.696 psia)		220.2	(HHV)	198.4 (LHV)
BTU/ft ³ (Water Saturated @ 0.25636 psia)		216.4	(HHV)	195.0 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		2669	(HHV)	2405 (LHV)
F _d (factor)		10390		
F _w (factor)		12392		
F _c (factor)		2586		
Compressibility Factor (@60F, 14.696 psia)		0.9981		
Wobbe Index		212.1		
Specific Gravity		1.0782		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-10
 Sample ID: Tank Farm 7B

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt.%
Methane	0.00	0.00	Carbon 0.05
Carbon dioxide	0.00	0.00	Hydrogen 0.01
Nitrogen	77.92	75.32	Oxygen 23.32
Oxygen	21.12	23.32	Nitrogen 75.32
Argon	0.94	1.29	Argon 1.29
Hydrogen	0.00	0.00	Sulfur 0.00
(CH ₂) _n	0.019	0.06	
Specific Volume		13.088	
BTU/ft3 (Dry @60F, 14.696 psia)		0.9989	(HHV) 0.9256 (LHV)
BTU/ft3 (Water Saturated @ 0.25636 psia)		0.9814	(HHV) 0.9095 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		13.073	(HHV) 12.114 (LHV)
F _d (factor)		NA	
F _w (factor)		NA	
F _c (factor)		1291	
Compressibility Factor (@60F, 14.696 psia)		0.9996	
Wobbe Index		1.0048	
Specific Gravity		0.9882	

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-11
 Sample ID: Tank Farm 7A

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt. %	
Methane	0.00	0.00	Carbon	0.13
Carbon dioxide	0.00	0.00	Hydrogen	0.03
Nitrogen	77.87	75.22	Oxygen	23.33
Oxygen	21.13	23.33	Nitrogen	75.22
Argon	0.94	1.29	Argon	1.29
Hydrogen	0.00	0.00	Sulfur	0.00
(CH ₂) _n	0.056	0.16		
Specific Volume		13.080		
BTU/ft ³ (Dry @60F, 14.696 psia)		2.495	(HHV)	2.309 (LHV)
BTU/ft ³ (Water Saturated @ 0.25636 psia)		2.452	(HHV)	2.269 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		32.64	(HHV)	30.21 (LHV)
F _d (factor)		2806		
F _w (factor)		4315		
F _c (factor)		1277		
Compressibility Factor (@60F, 14.696 psia)		0.9996		
Wobbe Index		2.509		
Specific Gravity		0.9888		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-12
 Sample ID: Tank Farm 13

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt. %	
Methane	0.00	0.00	Carbon	0.46
Carbon dioxide	0.76	1.15	Hydrogen	0.03
Nitrogen	77.58	74.66	Oxygen	23.59
Oxygen	20.69	22.75	Nitrogen	74.66
Argon	0.92	1.26	Argon	1.26
Hydrogen	0.00	0.00	Sulfur	0.00
(CH ₂) _n	0.059	0.18		
Specific Volume		13.032		
BTU/ft3 (Dry @60F, 14.696 psia)		2.845	(HHV)	2.635 (LHV)
BTU/ft3 (Water Saturated @ 0.25636 psia)		2.795	(HHV)	2.589 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		37.07	(HHV)	34.33 (LHV)
F _d (factor)		11126		
F _w (factor)		12624		
F _c (factor)		3993		
Compressibility Factor (@60F, 14.696 psia)		0.9996		
Wobbe Index		2.8551		
Specific Gravity		0.9928		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-13
 Sample ID: Canyon D

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt.%	
Methane	0.00	0.00	Carbon	0.50
Carbon dioxide	1.00	1.51	Hydrogen	0.02
Nitrogen	77.09	74.11	Oxygen	24.09
Oxygen	20.94	22.99	Nitrogen	74.12
Argon	0.93	1.27	Argon	1.27
Hydrogen	0.00	0.00	Sulfur	0.00
(CH ₂) _n	0.040	0.11		
Specific Volume		13.016		
BTU/ft3 (Dry @60F, 14.696 psia)		1.761	(HHV)	1.629 (LHV)
BTU/ft3 (Water Saturated @ 0.25636 psia)		1.730	(HHV)	1.601 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		22.92	(HHV)	21.21 (LHV)
F _d (factor)		5685		
F _w (factor)		7209		
F _c (factor)		7051		
Compressibility Factor (@60F, 14.696 psia)		0.9996		
Wobbe Index		1.766		
Specific Gravity		0.9939		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-14
 Sample ID: Tank Farm 2

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt. %
Methane	0.00	0.00	Carbon 0.71
Carbon dioxide	0.78	1.17	Hydrogen 0.08
Nitrogen	77.22	74.14	Oxygen 23.80
Oxygen	20.92	22.95	Nitrogen 74.14
Argon	0.93	1.27	Argon 1.27
Hydrogen	0.00	0.00	Sulfur 0.00
(CH ₂) _n	0.164	0.47	
Specific Volume		13.001	
BTU/ft3 (Dry @60F, 14.696 psia)		7.545	(HHV) 6.985 (LHV)
BTU/ft3 (Water Saturated @ 0.25636 psia)		7.414	(HHV) 6.863 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		98.10	(HHV) 90.82 (LHV)
F _d (factor)		8117	
F _w (factor)		9622	
F _c (factor)		2326	
Compressibility Factor (@60F, 14.696 psia)		0.9996	
Wobbe Index		7.557	
Specific Gravity		0.9968	

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-15
 Sample ID: Flare Station Pre H2S

Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt. %	
Methane	26.91	14.06	Carbon	26.29
Carbon dioxide	37.31	53.48	Hydrogen	3.92
Nitrogen	26.77	24.42	Oxygen	44.98
Oxygen	5.85	6.10	Nitrogen	24.42
Argon	0.26	0.34	Argon	0.34
Hydrogen	2.36	0.16	Sulfur	0.02
(CH ₂) _n	0.524	1.43		
Specific Volume		12.357		
BTU/ft3 (Dry @60F, 14.696 psia)		303.7	(HHV)	273.7 (LHV)
BTU/ft3 (Water Saturated @ 0.25636 psia)		298.4	(HHV)	268.9 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		3753	(HHV)	3382 (LHV)
F _d (factor)		9926		
F _w (factor)		11944		
F _c (factor)		2249		
Compressibility Factor (@60F, 14.696 psia)		0.9977		
Wobbe Index		295.2		
Specific Gravity		1.0582		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU, and F (factor)

Report Date: September 22, 2025
 Client: Montrose AQS
 Project Location: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 17, 2025
 AtmAA Lab #: 22585-16
 Sample ID: Flare Station Post H2S

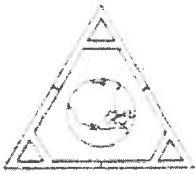
Specific volume, BTU, and F-factor are calculated using normalized laboratory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard. Heating value factor is a calculated according to ASTM 3588-98 (14.696 psia and 60°F). The F-factor is calculated according to the equation in EPA Method 19.

Component	Mole %	Wt %	C,H,O,N,S, Wt. %	
Methane	26.69	13.86	Carbon	26.47
Carbon dioxide	37.52	53.59	Hydrogen	3.90
Nitrogen	26.67	24.24	Oxygen	45.04
Oxygen	5.84	6.07	Nitrogen	24.24
Argon	0.26	0.34	Argon	0.34
Hydrogen	2.39	0.16	Sulfur	0.00
(CH ₂) _n	0.633	1.74		
Specific Volume		12.302		
BTU/ft ³ (Dry @60F, 14.696 psia)		307.0	(HHV)	276.7 (LHV)
BTU/ft ³ (Water Saturated @ 0.25636 psia)		301.6	(HHV)	271.9 (LHV)
BTU/lb (Dry @60F, 14.696 psia)		3776	(HHV)	3404 (LHV)
F _d (factor)		9901		
F _w (factor)		11896		
F _c (factor)		2250		
Compressibility Factor (@60F, 14.696 psia)		0.9977		
Wobbe Index		297.6		
Specific Gravity		1.0639		

Component	Specific volume reference values *
Methane	23.7 (ft ³ /lb)
Carbon dioxide	8.62
Nitrogen	13.5
Oxygen	11.9
Argon	9.52
Hydrogen	188.2

* reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F





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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Silco Canister Samples

Report Date: September 22, 2025
Client: Montrose AQS
Project Name: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 15-16, 2025

AtmAA Lab No.:	22585-7	22585-8	22585-9	22585-10	22585-11
Sample I.D.:	Tank Farm 6	Parnel Inlet	Zeeco Inlet	Tank Farm 7B	Tank Farm 7A

(Concentration in ppbv)

Components

Hydrogen sulfide	<100	201500	137000	<100	<100
Benzene	144	328000	82100	238	138
Benzyl chloride	<55	<5000	<5000	<55	<55
Chlorobenzene	<55	<4500	<4500	<55	<55
Dichlorobenzenes*	<80	<6500	<6500	<80	<80
1,1-dichloroethane	<55	<5000	<5000	<55	<55
1,2-dichloroethane	<55	<5000	<5000	<55	<55
1,1-dichloroethylene	<60	<5000	<5000	<60	<60
Dichloromethane	<120	<11000	<11000	<120	<120
1,2-dibromoethane	<35	<3000	<3000	<35	<35
Perchloroethylene	<35	<3000	<3000	<35	<35
Carbon tetrachloride	<70	<6000	<6000	<70	<70
Toluene	<55	25100	7810	<55	<55
1,1,1-trichloroethane	<40	<4000	<4000	<40	<40
Trichloroethene	<40	<4000	<4000	<40	<40
Chloroform	<45	<4000	<4000	<45	<45
Vinyl chloride	<45	<4000	<4000	<45	<45
m+p-xylenes	<50	6380	<4500	<50	<50
o-xylene	<50	<4500	<4500	<50	<50

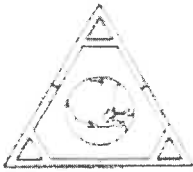
Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.

Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.

* total amount containing meta, para, and ortho isomers



Brian W. Fung
Laboratory Director



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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Silco Canister Samples

Report Date: September 22, 2025
Client: Montrose AQS
Project Name: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 15-16, 2025

AtmAA Lab No.:	22585-12	22585-13	22585-14	22585-15	22585-16
Sample I.D.:	Tank Farm 13	Canyon D	Tank Farm 2	Flare Station Pre	Flare Station Post

(Concentration in ppbv)

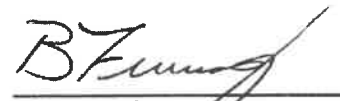
Components

Hydrogen sulfide	185	<100	150	172000	26850
Benzene	816	549	3130	101000	83300
Benzyl chloride	<55	<55	<55	<5000	<5000
Chlorobenzene	<55	<55	<55	<4500	<4500
Dichlorobenzenes*	<80	<80	<80	<6500	<6500
1,1-dichloroethane	<55	<55	<55	<5000	<5000
1,2-dichloroethane	<55	<55	<55	<5000	<5000
1,1-dichloroethylene	<60	<60	<60	<5000	<5000
Dichloromethane	<120	<120	<120	<11000	<11000
1,2-dibromoethane	<35	<35	<35	<3000	<3000
Perchloroethylene	<35	<35	<35	<3000	<3000
Carbon tetrachloride	<70	<70	<70	<6000	<6000
Toluene	59.5	133	301	11000	9540
1,1,1-trichloroethane	<40	<40	<40	<4000	<4000
Trichloroethene	<40	<40	<40	<4000	<4000
Chloroform	<45	<45	<45	<4000	<4000
Vinyl chloride	<45	<45	<45	<4000	<4000
m+p-xylenes	<50	<50	127	<4500	<4500
o-xylene	<50	<50	<50	<4500	<4500

Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.

Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.

* total amount containing meta, para, and ortho isomers


Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Name: Chiquita Landfill
Date Received: September 15, 2025
Date Analyzed: September 15-16, 2025

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppbv)			
Hydrogen sulfide	Tank Farm 6 Parnel Inlet	<100 200000	<100 203000	---	---
Benzene	Tank Farm 6 Parnel Inlet	137 296000	151 360000	144 328000	9.7 20
Benzyl chloride	Tank Farm 6 Parnel Inlet	<55 <5000	<55 <5000	---	---
Chlorobenzene	Tank Farm 6 Parnel Inlet	<55 <4500	<55 <4500	---	---
Dichlorobenzenes	Tank Farm 6 Parnel Inlet	<80 <6500	<80 <6500	---	---
1,1-dichloroethane	Tank Farm 6 Parnel Inlet	<55 <5000	<55 <5000	---	---
1,2-dichloroethane	Tank Farm 6 Parnel Inlet	<55 <5000	<55 <5000	---	---
1,1-dichloroethylene	Tank Farm 6 Parnel Inlet	<60 <5000	<60 <5000	---	---
Dichloromethane	Tank Farm 6 Parnel Inlet	<120 <11000	<120 <11000	---	---
1,2-dibromoethane	Tank Farm 6 Parnel Inlet	<35 <3000	<35 <3000	---	---
Perchloroethylene	Tank Farm 6 Parnel Inlet	<35 <3000	<35 <3000	---	---
Carbon tetrachloride	Tank Farm 6 Parnel Inlet	<70 <6000	<70 <6000	---	---
Toluene	Tank Farm 6 Parnel Inlet	<55 22400	<55 27800	---	22
1,1,1-trichloroethane	Tank Farm 6 Parnel Inlet	<40 <4000	<40 <4000	---	---



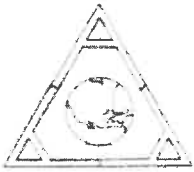
QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Project Name: Chiquita Landfill
 Date Received: September 15, 2025
 Date Analyzed: September 15-16, 2025

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppbv)</i>					
Trichloroethene	Tank Farm 6	<40	<40	---	---
	Parnel Inlet	<4000	<4000	---	---
Chloroform	Tank Farm 6	<45	<45	---	---
	Parnel Inlet	<4000	<4000	---	---
Vinyl chloride	Tank Farm 6	<45	<45	---	---
	Parnel Inlet	<4000	<4000	---	---
m+p-xylenes	Tank Farm 6	<50	<50	---	---
	Parnel Inlet	6550	6210	6380	5.3
o-xylene	Tank Farm 6	<50	<50	---	---
	Parnel Inlet	<4500	<4500	---	---

Ten Silco canister samples, laboratory numbers 22585-(7-16), were analyzed for SCAQMD Rule 1150.1 components. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 5 repeat measurement from ten Silco canister samples is 12%.





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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Silco Canister Sample by SCAQMD Method 307.91

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 15-16, 2025


ANALYSIS DESCRIPTION

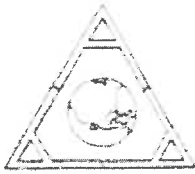
Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22585-7	22585-8	22585-9	22585-10	22585-11
Sample I.D.:	Tank Farm 6	Parnel Inlet	Zeeco Inlet	Tank Farm 7B	Tank Farm 7A
Components	(Concentration in ppmv)				
Hydrogen sulfide	<0.10	202	137	<0.10	<0.10
Carbonyl sulfide	<0.10	<1.50	<0.80	<0.10	<0.10
Methyl mercaptan	<0.10	329	68.7	<0.10	<0.10
Ethyl mercaptan	<0.10	3.74	1.30	<0.10	<0.10
Dimethyl sulfide	0.50	997	298	1.23	1.32
Carbon disulfide	<0.10	<1.50	<0.80	<0.10	<0.10
i-Propyl mercaptan	<0.10	2.55	1.25	<0.10	<0.10
t-Butyl mercaptan	<0.10	<1.50	<0.80	<0.10	<0.10
n-Propyl mercaptan	<0.10	11.2	3.69	<0.10	<0.10
s-Butyl mercaptan	<0.10	11.6	3.73	<0.10	<0.10
i-Butyl mercaptan	<0.10	<1.50	<0.80	<0.10	<0.10
Dimethyl disulfide	<0.10	6.26	2.27	<0.10	<0.10
Tetrahydrothiophene	<0.10	6.69	1.69	<0.10	<0.10
Unidentified sulfurs	<0.10	36.7	6.61	<0.10	<0.10

(Concentration in ppmv, as H₂S)

Total Sulfur	0.50	1612.44	526.50	1.23	1.32
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Brian W. Fung
Laboratory Director



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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Silco Canister Sample by SCAQMD Method 307.91

Report Date: September 22, 2025
Client: Montrose AQS
Project Location: Chiquita Landfill
Project No.: PROJ-059121
Date Received: September 15, 2025
Date Analyzed: September 15-16, 2025

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22585-12	22585-13	22585-14	22585-15	22585-16
Sample I.D.:	Tank Farm 13	Canyon D	Tank Farm 2	Flare Station Pre	Flare Station Post
Components	(Concentration in ppmv)				
Hydrogen sulfide	0.19	<0.10	0.15	172	26.9
Carbonyl sulfide	<0.10	<0.10	<0.10	<0.80	0.83
Methyl mercaptan	0.12	0.31	0.91	79.7	65.8
Ethyl mercaptan	<0.10	<0.10	<0.10	1.07	1.00
Dimethyl sulfide	9.33	5.65	27.2	289	326
Carbon disulfide	<0.10	<0.10	<0.10	<0.80	<0.80
i-Propyl mercaptan	<0.10	<0.10	<0.10	1.87	1.80
t-Butyl mercaptan	<0.10	<0.10	<0.10	<0.80	<0.80
n-Propyl mercaptan	<0.10	<0.10	0.23	3.46	3.72
s-Butyl mercaptan	<0.10	<0.10	0.12	4.43	4.68
i-Butyl mercaptan	0.12	<0.10	<0.10	<0.80	<0.80
Dimethyl disulfide	<0.10	<0.10	0.33	2.24	6.38
Tetrahydrothiophene	<0.10	<0.10	0.22	2.10	2.41
Unidentified sulfurs	<0.10	<0.10	1.29	9.95	22.3
	(Concentration in ppmv, as H ₂ S)				
Total Sulfur	9.75	5.96	30.75	567.54	468.13

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Landfill
Date Received: September 15, 2025
Date Analyzed: September 15-16, 2025

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	200	203	202	1.5
	Zeeco Inlet	138	136	137	1.5
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	0.19	0.18	0.19	5.4
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	0.16	0.14	0.15	13
	Flare Station Pre	174	170	172	2.3
	Flare Station Post	26.7	27.0	26.9	1.1
Carbonyl sulfide	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	<1.50	<1.50	---	---
	Zeeco Inlet	<0.80	<0.80	---	---
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	<0.10	<0.10	---	---
	Flare Station Pre	<0.80	<0.80	---	---
	Flare Station Post	0.84	0.82	0.83	2.4
Methyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	328	330	329	0.61
	Zeeco Inlet	69.6	67.8	68.7	2.6
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	0.12	0.12	0.12	0.00
	Canyon D	0.31	0.31	0.31	0.00
	Tank Farm 2	0.94	0.88	0.91	6.6
	Flare Station Pre	80.7	78.7	79.7	2.5
	Flare Station Post	64.7	66.9	65.8	3.3
Ethyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	3.81	3.66	3.74	4.0
	Zeeco Inlet	1.30	1.30	1.30	0.00
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	<0.10	<0.10	---	---
	Flare Station Pre	1.05	1.08	1.07	2.8
	Flare Station Post	0.96	1.04	1.00	8.0



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Dimethyl sulfide	Tank Farm 6	0.50	0.50	0.50	0.00
	Parnel Inlet	1000	994	997	0.60
	Zeeco Inlet	304	292	298	4.0
	Tank Farm 7B	1.31	1.14	1.23	14
	Tank Farm 7A	1.30	1.33	1.32	2.3
	Tank Farm 13	9.45	9.20	9.33	2.7
	Canyon D	5.78	5.52	5.65	4.6
	Tank Farm 2	28.0	26.4	27.2	5.9
	Flare Station Pre	293	284	289	3.1
	Flare Station Post	322	330	326	2.5
Carbon disulfide	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	<1.50	<1.50	---	---
	Zeeco Inlet	<0.80	<0.80	---	---
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	<0.10	<0.10	---	---
	Flare Station Pre	<0.80	<0.80	---	---
	Flare Station Post	<0.80	<0.80	---	---
i-Propyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	2.69	2.40	2.55	11
	Zeeco Inlet	1.26	1.24	1.25	1.6
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	<0.10	<0.10	---	---
	Flare Station Pre	1.88	1.86	1.87	1.1
	Flare Station Post	1.80	1.79	1.80	0.56
t-Butyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	<1.50	<1.50	---	---
	Zeeco Inlet	<0.80	<0.80	---	---
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	<0.10	<0.10	---	---
	Flare Station Pre	<0.80	<0.80	---	---
	Flare Station Post	<0.80	<0.80	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
n-Propyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	11.1	11.3	11.2	1.8
	Zeeco Inlet	3.81	3.57	3.69	6.5
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	0.23	0.22	0.23	4.4
	Flare Station Pre	3.61	3.31	3.46	8.7
	Flare Station Post	3.60	3.83	3.72	6.2
s-Butyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	11.5	11.6	11.6	0.87
	Zeeco Inlet	3.82	3.63	3.73	5.1
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	0.12	0.11	0.12	8.7
	Flare Station Pre	4.49	4.37	4.43	2.7
	Flare Station Post	4.63	4.72	4.68	1.9
i-Butyl mercaptan	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	<1.50	<1.50	---	---
	Zeeco Inlet	<0.80	<0.80	---	---
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	0.11	0.12	0.12	8.7
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	<0.10	<0.10	---	---
	Flare Station Pre	<0.80	<0.80	---	---
	Flare Station Post	<0.80	<0.80	---	---
Dimethyl disulfide	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	6.36	6.16	6.26	3.2
	Zeeco Inlet	2.32	2.21	2.27	4.9
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	0.34	0.31	0.33	9.2
	Flare Station Pre	2.28	2.19	2.24	4.0
	Flare Station Post	6.31	6.44	6.38	2.0



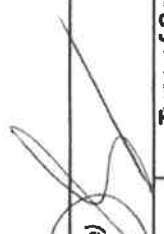

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

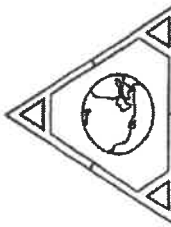
Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Tetrahydrothiophene	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	6.50	6.87	6.69	5.5
	Zeeco Inlet	1.82	1.56	1.69	15
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	0.23	0.20	0.22	14
	Flare Station Pre	2.10	2.09	2.10	0.48
	Flare Station Post	2.38	2.44	2.41	2.5
Unidentified sulfurs	Tank Farm 6	<0.10	<0.10	---	---
	Parnel Inlet	38.0	35.4	36.7	7.1
	Zeeco Inlet	6.77	6.45	6.61	4.8
	Tank Farm 7B	<0.10	<0.10	---	---
	Tank Farm 7A	<0.10	<0.10	---	---
	Tank Farm 13	<0.10	<0.10	---	---
	Canyon D	<0.10	<0.10	---	---
	Tank Farm 2	1.39	1.18	1.29	16
	Flare Station Pre	10.2	9.69	9.95	5.1
	Flare Station Post	22.3	22.3	22.3	0.00

Ten Silco canister samples, laboratory numbers 22585-(7-16), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 58 repeat measurements from ten Silco canister samples is 4.5%.

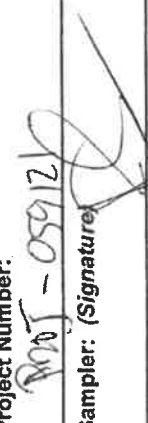
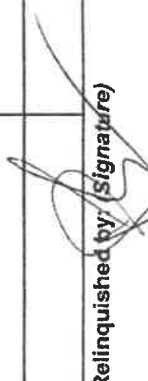
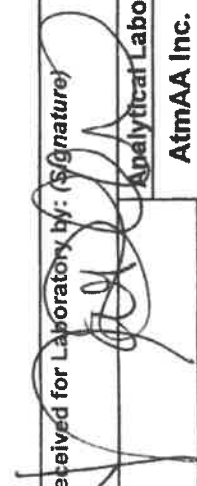
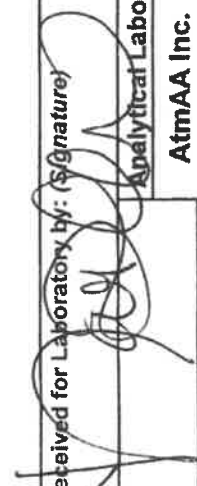


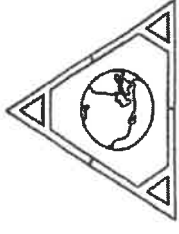
CHAIN OF CUSTODY RECORD

Client/Project Name: MARS / CHIQUITA 3RD QTR		Project Location: CHIQUITA LAUREL II		ANALYSES REQUESTED			
Project Number: PROJ-059121		Purchase Order Number:		TKTD GASES		RULE 150.1	
Sampler: (Signature) 		Turnaround Times: Standard 10 day Expedited: 24hr / 48hr / 72hr / 5 day		TKTD GASES		RULE 150.1	
Client Sample Identification		Type of Sample Canister ID		AtmAA Lab Number		Sampling Date	
TANK FARM 6		CAN 626		22585-7		9/15/25	
TANK FARM 7A		CAN 83		-8			
TANK FARM 7B		CAN 617		-9			
TANK FARM 13		CAN 625		-10			
CANYON D		CAN 5		-11			
TANK FARM 2		CAN 607		-12			
Relinquished by: (Signature) 		Date		Time		Received by: (Signature)	
		9/15/25		11:16			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)	
Relinquished by: (Signature)		Date		Time		Received for Laboratory by (Signature)	
						9/15/25 11:16	
Company Info:		Send Report to:		Analytical Laboratory			
Company: MONTROSE ADS		Company:		AtmAA Inc.			
Street Address 101 E. ST. ANTON		Street Address		5107 Douglas Fir Rd.			
City/State/Zip: SANTA ANA CA		City/State/Zip:		Calabasas, CA 91302			
Telephone No.: 626 617 0213		Project Manager:		TEL: (818) 223-3277			
Email Address: PERRY.VON@MONTROSE-ADS.COM		Email Address:		Email Address: info@atmaa.com			



CHAIN OF CUSTODY RECORD

Client/Project Name: NAGS/CHIQUITA 3RD. DR	Project Location: CHIQUITA CANDELL	ANALYSES REQUESTED FIXED GASES TD-15 ROLE 1180.1 SCORND 307-91
Project Number: POJ-059126	Purchase Order Number: _____	
Sampler: (Signature) 	Turnaround Times: Expedited: 24hr / 48hr / 72hr / 5 day Standard 10 day	
Client Sample Identification FLARE STATION P06 H2S FLARE STATION POST H2S	Type of Sample Canister ID CAN 0533 CAN 0610	AtmAA Lab Number 22565-15 -16
Relinquished by: (Signature) 	Sampling Date 9/15/25	Sampling Time _____
Relinquished by: (Signature) _____	Date 9/15/25	Time 11:16
Relinquished by: (Signature) _____	Date _____	Time _____
Relinquished by: (Signature) _____	Date _____	Time _____
Company Info: Company: Street Address City/State/Zip: Telephone No.: Email Address:	Send Report to: Company: Street Address City/State/Zip: Project Manager: Email Address:	Received by: (Signature)  Received for Laboratory by: (Signature)  Analytical Laboratory AtmAA Inc. 5107 Douglas Fir Rd. Calabasas, CA 91302 TEL: (818) 223-3277 Email Address: info@atmaa.com
Relinquished by: (Signature) _____	Date 9/15/25	Time 11:16



Appendix A.4 Quality Assurance Data

Barometric Pressure Determination

Date: 09/15/25

Time: 9:00

Data By: SJ, KT

Reference: <https://forecast.weather.gov/MapClick.php?lat=33.6873&l>
 Lat: 34.42972°N Lon: 118.66712°W Elev: 1278.0ft.

Reference Barometer ID	DEL VALLE (DLVC1)
Reference Barometer Location	
Reference Barometer Other Info.	
Reference Barometer Indication, corrected to sea level	
Reference Barometer Reference Elevation	1278
Reference Barometer Actual Pressure	28.69
Test Barometer Location/Site	Chiquita Canyon
Location/Site Elevation	997
Location/Site Barometric Pressure	28.97
Sampling Location Height (above/below site elevation)	1
Sampling Location Barometric Pressure	28.97



DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: PTC-43
 Readout Description: Handheld
 Date: 7/2/2025
 Performed By: PR/PC

Calibrated Thermocouple ID: TC-Cal
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~ 370 F)	PTC-43	368	368	367	368	370	370	370	370	2.3	0.3%	Pass
T2 (~212 F)	PTC-43	210	211	210	210	212	212	212	212	1.7	0.2%	Pass
T1 (~ 32 F)	PTC-43	33	33	33	33	32	32	32	32	1.0	0.2%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

Thermocouple Source Readings

T/C Source S/N	T/C - Readout °F				T/C Source °F				Difference			
	Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)		
T4 (~650 F)	129462	651	651	651	651	650	650	650	650	1.0	0.1%	Pass
T3 (~370 F)	129462	371	371	371	371	370	370	370	370	1.0	0.1%	Pass
T2 (~212 F)	129462	213	213	214	213	212	212	212	212	1.3	0.2%	Pass
T1 (~32 F)	129462	33	34	33	33	32	32	32	32	1.3	0.3%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)



THERMOCOUPLE CALIBRATION

Thermocouple ID: 180
 Date: 7/2/2025
 Performed By: PR/PC

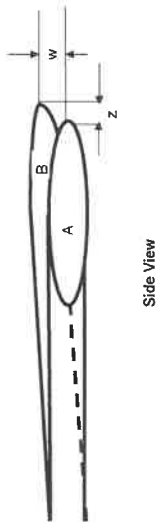
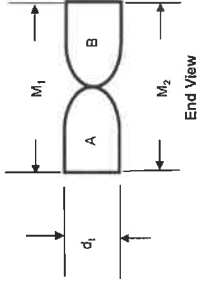
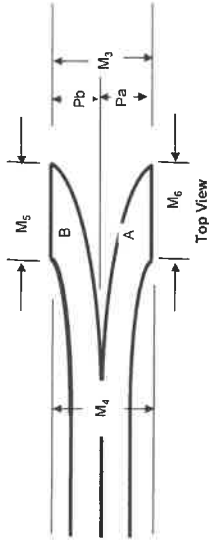
Calibrated Digital Temperature Readout ID: PTC-90
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D. 180	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~ 370 F)	PTC-90	368	368	368	368	370	370	370	370	2.0	0.2%	Pass
T2 (~ 212 F)	PTC-90	213	213	213	213	212	212	212	212	1.0	0.1%	Pass
T1 (~ 32 F)	PTC-90	35	34	34	34	32	32	32	32	2.3	0.5%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)



S Type Pitot Tube Dimensional Calibration Record



Acceptability Criteria		z < 1/8"	w < 1/32"	Yes	3/16" < Dt < 3/8"	n/a	n/a	n/a	n/a	n/a	n/a	1.05 Dt < P < 1.5 Dt	Status			
Pitot ID	Date	Calibrated By	Side View, Impact openings Properly aligned, z < 1/8"	Side View, Impact openings Properly aligned, w < 1/32"	Pa = Pb	Tubing Diameter, dt	M1	M2	M3	M4	M5	M6	Average Face Opening Plane Angle, offset from perpendicular to transverse axis	Average Face Opening Plane Frontal Angle from parallel to Longitudinal Axis	Ratio of P/Dt	
180	7/2/25	JL/RC	Y	Y	Y	0.188	0.476	0.478	0.477	0.473	0.210	0.213	-0.3	0.5	1.3	Pass

Notes: Reference "A Type-S Pitot Tube Calibration Study", Robert F. Vollaro, October 15, 1975
 If tube is not visibly deformed it is assumed that Pa = Pb = .5 x avg. of M1 & M2, and that average face opening plane angles represent individual angles to tube axis

DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2025

Reference Device ID: Microrector
 Reference Serial Number: S270
 Calibrated By: K. Thomas

Calibration Range		Run 1		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.010	0.010	0.010	0.0000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.031	0.030	0.0010	3.33%	Pass
Target 80%	0.040	0.040	0.040	0.0000	0.00%	Pass
Target 100%	0.050	0.050	0.050	0.0000	0.00%	Pass

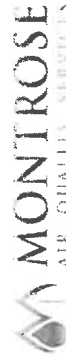
Calibration Range		Run 2		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.010	0.010	0.010	0.0000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.030	0.030	0.0000	0.00%	Pass
Target 80%	0.040	0.041	0.040	0.0010	2.50%	Pass
Target 100%	0.050	0.052	0.050	0.0020	4.00%	Pass

Calibration Range		Run 3		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.010	0.010	0.010	0.0000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.031	0.030	0.0010	3.33%	Pass
Target 80%	0.040	0.040	0.040	0.0000	0.00%	Pass
Target 100%	0.050	0.050	0.050	0.0000	0.00%	Pass

Average results for three runs

% Difference	Pass/Fail
0.88%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.



DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2025

Reference Device ID: Microrector
 Reference Serial Number: S270
 Calibrated By: K. Thomas

Calibration Range Scale: 0 - 0.100 inches H ₂ O	Run 1		Individual Run Results		Pass/ Fail
	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	
Target 20%	0.020	0.020	0.0000	0.00%	Pass
Target 40%	0.040	0.040	0.0000	0.00%	Pass
Target 60%	0.062	0.060	0.0020	3.33%	Pass
Target 80%	0.080	0.080	0.0000	0.00%	Pass
Target 100%	0.102	0.100	0.0020	2.00%	Pass

Calibration Range Scale: 0 - 0.100 inches H ₂ O	Run 2		Individual Run Results		Pass/ Fail
	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	
Target 20%	0.020	0.020	0.0000	0.00%	Pass
Target 40%	0.040	0.040	0.0000	0.00%	Pass
Target 60%	0.061	0.060	0.0010	1.67%	Pass
Target 80%	0.079	0.080	0.0010	1.25%	Pass
Target 100%	0.100	0.100	0.0000	0.00%	Pass

Calibration Range Scale: 0 - 0.100 inches H ₂ O	Run 3		Individual Run Results		Pass/ Fail
	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	
Target 20%	0.020	0.020	0.0000	0.00%	Pass
Target 40%	0.041	0.040	0.0010	2.50%	Pass
Target 60%	0.060	0.060	0.0000	0.00%	Pass
Target 80%	0.080	0.080	0.0000	0.00%	Pass
Target 100%	0.100	0.100	0.0000	0.00%	Pass

Average results for three runs

% Difference	Pass/Fail
0.72%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.



DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2025

Reference Device ID: Microrector
 Reference Serial Number: S270
 Calibrated By: K. Thomas

Calibration Range		Run 1		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.200	0.200	0.200	0.0000	0.00%	Pass
Target 40%	0.400	0.400	0.400	0.0000	0.00%	Pass
Target 60%	0.600	0.602	0.600	0.0020	0.33%	Pass
Target 80%	0.800	0.801	0.800	0.0010	0.13%	Pass
Target 100%	1.000	1.010	1.000	0.0100	1.00%	Pass

Calibration Range		Run 2		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.200	0.201	0.200	0.0010	0.50%	Pass
Target 40%	0.400	0.401	0.400	0.0010	0.25%	Pass
Target 60%	0.600	0.602	0.600	0.0020	0.33%	Pass
Target 80%	0.800	0.801	0.800	0.0010	0.13%	Pass
Target 100%	1.000	1.000	1.000	0.0000	0.00%	Pass

Calibration Range		Run 3		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.200	0.200	0.200	0.0000	0.00%	Pass
Target 40%	0.400	0.402	0.400	0.0020	0.50%	Pass
Target 60%	0.600	0.602	0.600	0.0020	0.33%	Pass
Target 80%	0.800	0.803	0.800	0.0030	0.38%	Pass
Target 100%	1.000	1.000	1.000	0.0000	0.00%	Pass

Average results for three runs

% Difference	Pass/Fail
0.26%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.



DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2025

Reference Device ID: Dwyer 0 - 10" Manometer
 Reference Serial Number: CC-2
 Calibrated By: K. Thomas

Calibration Range		Run 1		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	2.000	2.015	2.000	0.0150	0.75%	Pass
Target 40%	4.000	4.020	4.000	0.0200	0.50%	Pass
Target 60%	6.000	6.005	6.000	0.0050	0.08%	Pass
Target 80%	8.000	8.035	8.000	0.0350	0.44%	Pass
Target 100%	10.000	10.010	10.000	0.0100	0.10%	Pass

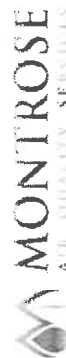
Calibration Range		Run 2		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	2.000	2.005	2.000	0.0050	0.25%	Pass
Target 40%	4.000	4.010	4.000	0.0100	0.25%	Pass
Target 60%	6.000	6.015	6.000	0.0150	0.25%	Pass
Target 80%	8.000	8.000	8.000	0.0000	0.00%	Pass
Target 100%	10.000	10.000	10.000	0.0000	0.00%	Pass

Calibration Range		Run 3		Individual Run Results		
Scale:	inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	2.000	2.005	2.000	0.0050	0.25%	Pass
Target 40%	4.000	4.020	4.000	0.0200	0.50%	Pass
Target 60%	6.000	6.050	6.000	0.0500	0.83%	Pass
Target 80%	8.000	8.010	8.000	0.0100	0.12%	Pass
Target 100%	10.000	10.000	10.000	0.0000	0.00%	Pass

Average results for three runs

% Difference	Pass/Fail
0.29%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.



APPENDIX B GENERAL EMISSIONS CALCULATIONS

GENERAL EMISSIONS CALCULATIONS

I. Stack Gas Velocity

A. Stack gas molecular weight, lb/lb-mole

$$MW_{dry} = 0.44 * \% CO_2 + 0.32 * \% O_2 + 0.28 * \% N_2$$

$$MW_{wet} = MW_{dry} * (1 - B_{wo}) + 18 * B_{wo}$$

B. Absolute stack pressure, iwg

$$P_s = P_{bar} + \frac{P_{sg}}{13.6}$$

C. Stack gas velocity, ft/sec

$$V_s = 2.9 * C_p * \sqrt{\Delta P} * \sqrt{T_s} * \sqrt{\frac{29.92 * 28.95}{P_s * MW_{wet}}}$$

II. Moisture

A. Sample gas volume, dscf

$$V_{mstd} = 0.03342 * V_m * \left(P_{bar} + \frac{\Delta H}{13.6} \right) * \frac{T_{ref}}{T_m} * Y_d$$

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{ic} * \frac{T_{ref}}{528^{\circ}R}$$

C. Moisture content, dimensionless

$$B_{wo} = \frac{V_{wstd}}{(V_{mstd} + V_{wstd})}$$

III. Stack Gas Volumetric Flow Rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

$$Q_{sd} = Q * (1 - B_{wo}) * \frac{T_{ref}}{T_s} * \frac{P_s}{29.92}$$

SCS Engineers – Chiquita Canyon Landfill
 2025 3rd Quarter Leachate and Condensate Vapor Sampling

Nomenclature:

A_s	=	stack area, ft ²
B_{wo}	=	flue gas moisture content, dimensionless
$C_{12\%CO_2}$	=	particulate grain loading, gr/dscf corrected to 12% CO ₂
C	=	particulate grain loading, gr/dscf
C_p	=	pitot calibration factor, dimensionless
D_n	=	nozzle diameter, inches
F	=	fuel F-Factor, dscf/MMBtu @ 0% O ₂
H	=	orifice differential pressure, iwg
I	=	% isokinetics
M_n	=	mass of collected particulate, mg
M_i	=	mass emission rate of specie i, lb/hr
MW	=	molecular weight of flue gas, lb/lb-mole
M_{wi}	=	molecular weight of specie i:
		SO ₂ : 64
		NO _x : 46
		CO: 28
		HC: 16
t	=	sample time, minutes
ΔP	=	average velocity head, iwg = $(\sqrt{\Delta P})^2$
P_{bar}	=	barometric pressure, inches Hg
P_s	=	stack absolute pressure, inches Hg
P_{sg}	=	stack static pressure, iwg
Q	=	wet stack flow rate at actual conditions, wacfm
Q_{sd}	=	dry standard stack flow rate, dscfm
SV	=	specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T_m	=	meter temperature, °R
T_{ref}	=	reference temperature, °R
T_s	=	stack temperature, °R
V_s	=	stack gas velocity, ft/sec
V_{lc}	=	volume of liquid collected in impingers, ml
V_m	=	uncorrected dry meter volume, dcf
V_{mstd}	=	dry meter volume at standard conditions, dscf
V_{wstd}	=	volume of water vapor at standard conditions, scf
Y_d	=	meter calibration coefficient

APPENDIX C QUALITY ASSURANCE

Appendix C.1

Quality Assurance Program Summary

QUALITY ASSURANCE PROGRAM SUMMARY

As part of Montrose Air Quality Services, LLC (Montrose) ASTM D7036-04 certification, Montrose is committed to providing emission related data which is complete, precise, accurate, representative, and comparable. Montrose quality assurance program and procedures are designed to ensure that the data meet or exceed the requirements of each test method for each of these items. The quality assurance program consists of the following items:

- Assignment of an Internal QA Officer
- Development and use of an internal QA Manual
- Personnel training
- Equipment maintenance and calibration
- Knowledge of current test methods
- Chain-of-custody
- QA reviews of test programs

Assignment of an Internal QA Officer: Montrose has assigned an internal QA Officer who is responsible for administering all aspects of the QA program.

Internal Quality Assurance Manual: Montrose has prepared a QA Manual according to the requirements of ASTM D7036-04 and guidelines issued by EPA. The manual documents and formalizes all of Montrose's QA efforts. The manual is revised upon periodic review and as Montrose adds capabilities. The QA manual provides details on the items provided in this summary.

Personnel Testing and Training: Personnel testing and training is essential to the production of high quality test results. Montrose training programs include:

- A requirement for all technical personnel to read and understand the test methods performed
- A requirement for all technical personnel to read and understand the Montrose QA manual
- In-house testing and training
- Quality Assurance meetings
- Third party testing where available
- Maintenance of training records.

Equipment Maintenance and Calibration: All laboratory and field equipment used as a part of Montrose's emission measurement programs is maintained according to manufacturer's recommendations. A summary of the major equipment maintenance schedules is summarized in Table 1. In addition to routine maintenance, calibrations are performed on all sampling equipment according to the procedures outlined in the applicable test method. The calibration intervals and techniques for major equipment components is summarized in Table 2. The calibration technique may vary to meet regulatory agency requirements.

Knowledge of Current Test Methods: Montrose maintains current copies of EPA, ARB, and SCAQMD Source Test Manuals and Rules and Regulations.

Chain-of-Custody: Montrose maintains chain-of-custody documentation on all data sheets and samples. Samples are stored in a locked area accessible only to Montrose source test personnel. Data sheets are kept in the custody of the originator, program manager, or in locked storage until return to Montrose office. Electronic field data is duplicated for backup on secure storage media. The original data sheets are used for report preparation and any additions are initialed and dated.

QA Reviews: Periodic field, laboratory, and report reviews are performed by the in-house QA coordinator. Periodically, test plans are reviewed to ensure proper test methods are selected and reports are reviewed to ensure that the methods were followed and any deviations from the methods are justified and documented.

ASTM D7036-04 Required Information

Uncertainty Statement

Montrose is qualified to conduct this test program and has established a quality management system that led to accreditation with ASTM Standard D7036-04 (Standard Practice for Competence of Air Emission Testing Bodies). Montrose participates in annual functional assessments for conformance with D7036-04 which are conducted by the American Association for Laboratory Accreditation (A2LA). All testing performed by Montrose is supervised on site by at least one Qualified Individual (QI) as defined in D7036-04 Section 8.3.2. Data quality objectives for estimating measurement uncertainty within the documented limits in the test methods are met by using approved test protocols for each project as defined in D7036-04 Sections 7.2.1 and 12.10. Additional quality assurance information is presented in the report appendices.

Performance Data

Performance data are available for review.

Qualified Personnel

A qualified individual (QI), defined by performance on a third party or internal test on the test methods, is present on each test event.

Plant Entry and Safety Requirements

Plant Entry

All test personnel are required to check in with the guard at the entrance gate or other designated area. Specific details are provided by the facility and project manager.

Safety Requirements

All personnel shall have the following personal protective equipment (PPE) and wear them where designated:

- Hard Hat
- Safety Glasses
- Steel Toe Boots
- Hearing Protection
- Gloves
- High Temperature Gloves (if required)
- Flame Resistant Clothing (if required)

The following safety measures are followed:

- Good housekeeping
- SDS for all on-site hazardous materials
- Confine selves to necessary areas (stack platform, mobile laboratory, CEMS data acquisition system, control room, administrative areas)
- Knowledge of evacuation procedures

Each facility will provide plant specific safety training.

**TABLE 1
 EQUIPMENT MAINTENANCE SCHEDULE**

Equipment	Acceptance Limits	Frequency of Service	Methods of Service
Pumps	<ol style="list-style-type: none"> 1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	<ol style="list-style-type: none"> 1. Free mechanical movement 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	<ol style="list-style-type: none"> 1. Absence of malfunction 2. Proper response to zero span gas 	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Steam clean 2. Leak check
Mobile Van Sampling System	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling Lines	<ol style="list-style-type: none"> 1. Sample degradation less than 2% 	After each test series	<ol style="list-style-type: none"> 1. Blow dry, inert gas through line until dry

**TABLE 2
 MAJOR SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS**

Sampling Equipment	Calibration Frequency	Calibration Procedure	Acceptable Calibration Criteria
Continuous Analyzers	Before and After Each Test Day	3-point calibration error test	< 2% of analyzer range
Continuous Analyzers	Before and After Each Test Run	2-point sample system bias check	< 5% of analyzer range
Continuous Analyzers	After Each Test Run	2-point analyzer drift determination	< 3% of analyzer range
CEMS System	Beginning of Each Day	leak check	< 1 in. Hg decrease in 5 min. at > 20 in. Hg
Continuous Analyzers	Semi-Annually	3-point linearity	< 1% of analyzer range
NO _x Analyzer	Daily	NO ₂ -> NO converter efficiency	> 90%
Differential Pressure Gauges (except for manometers)	Semi-Annually	Correction factor based on 5-point comparison to standard	± 5%
Differential Pressure Gauges (except for manometers)	Bi-Monthly	3-point comparison to standard, no correction factor	± 5%
Barometer	Semi-Annually	Adjusted to mercury-in-glass or National Weather Service Station	± 0.1 inches Hg
Dry Gas Meter	Semi-Annually	Calibration check at 4 flow rates using a NIST traceable standard	± 2%
Dry Gas Meter	Bi-Monthly	Calibration check at 2 flow rates using a NIST traceable standard	± 2% of semi-annual factor
Dry Gas Meter Orifice	Annually	4-point calibration for ΔH@	--
Temperature Sensors	Semi-Annually	3-point calibration vs. NIST traceable standard	± 1.5%

Note: Calibration requirements that meet applicable regulatory agency requirements are used.

Appendix C.2

SCAQMD and STAC Certifications

SCS Engineers – Chiquita Canyon Landfill
2025 3rd Quarter Leachate and Condensate Vapor Sampling



September 26, 2024

Mr. John Peterson
Montrose Air Quality Services, LLC
1631 E. Saint Andrew Place
Santa Ana, CA 92705

Subject: LAP Approval Notice
Reference # 96LA1220

Dear Mr. Peterson:

We have completed our review of Montrose Air Quality Services' revised renewal application, which was submitted as notification of Montrose's recent acquisition of AirKinetics, Inc. under the South Coast AQMD Laboratory Approval Program (LAP). We are pleased to inform you that your firm is approved for the period beginning September 30, 2024, and ending September 30, 2025, for the following methods, subject to the requirements in the LAP Conditions For Approval Agreement and conditions listed in the attachment to this letter:

South Coast AQMD Methods 1-4
South Coast AQMD Methods 10.1 and 100.1
South Coast AQMD Methods 5.1, 5.2, 5.3, 6.1 (Sampling and Analysis)
South Coast AQMD Methods 25.1 and 25.3 (Sampling)
Rule 1121/ 1146.2 Protocol
Rule 1420/1420.1/1420.2 – (Lead) Source and Ambient Sampling
USEPA CTM-030 and ASTM D6522-00

Your LAP approval to perform nitrogen oxide emissions compliance testing for Rule 1121/ 1146.2 Protocols includes satellite facilities located at:

McKenna Boiler 1510 North Spring Street Los Angeles, CA 90012	Noritz America Corp. 11160 Grace Avenue Fountain Valley, CA 92708	Ajax Boiler, Inc. 2701 S. Harbor Blvd. Santa Ana, CA 92704
VA Laundry Bldg., Greater LA Healthcare Sys. 508 Constitution Avenue Los Angeles, CA 90049	So Cal Gas – Engr Analysis Ctr, Bldg H 8101 Rosemead Blvd Pico Rivera, CA 90660	

Thank you for participating in the LAP. Your cooperation helps us to achieve the goal of the LAP: to maintain high standards of quality in the sampling and analysis of source emissions. You may direct any questions or information to LAP Coordinator, Colin Eckerle. He may be reached by telephone at (909) 396-2476, or via e-mail at ceckerle@aqmd.gov.

Sincerely,

D. Sarkar

Dipankar Sarkar
Program Supervisor
Source Test Engineering

DS:CE
Attachment
240926 LapRenewal.doc



American Association for Laboratory Accreditation

Accredited Air Emission Testing Body

A2LA has accredited

MONTROSE AIR QUALITY SERVICES

In recognition of the successful completion of the joint A2LA and Stack Testing Accreditation Council (STAC) evaluation process, this laboratory is accredited to perform testing activities in compliance with ASTM D7036:2004 - Standard Practice for Competence of Air Emission Testing Bodies.



Presented this 27th day of February 2024.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 28, 2026

This accreditation program is not included under the A2LA ILAC Mutual Recognition Arrangement.

Appendix C.3 Individual QI Certifications

CERTIFICATE OF COMPLETION

Pedro SanJuan

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

SCAQMD Methods 1.1, 1.2, 2.1, 2.2, 2.3, 3.1, & 4.1

Certificate Number: 002-2022-50

Tate Strickler
Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 02/28/2022

DATE OF EXPIRATION: 02/27/2027


MONTROSE
ENVIRONMENTAL

CERTIFICATE OF COMPLETION

Pedro SanJuan

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

SCAQMD Methods 25.1, 25.3 & 307-91

Certificate Number: 002-2022-52

Tate Strickler
Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 02/28/2022
DATE OF EXPIRATION: 02/27/2027

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ENVIRONMENTAL



CERTIFICATE OF COMPLETION

Pedro Sanjuan

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

EPA Methods 3C, TO-8, TO-12 and TO-15

Certificate Number: 002-2023-48

Tate Strickler
Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 11/01/2023

DATE OF EXPIRATION: 10/31/2028


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Appendix C.4

Statement of No Conflict of Interest

STATEMENT OF NO CONFLICT OF INTEREST AS AN INDEPENDENT TESTING LABORATORY

(To be completed by authorized source testing firm representative and included in source test report)

The following facility and equipment were tested by my source testing firm and are the subjects of this statement:

Facility ID:	119219
Date(s) Tested:	September 15, 2025
Facility Name:	Chiquita Canyon Landfill
Equipment Address:	29201 Henry Mayo Drive Castaic, California 91384
Equipment Tested:	Leachate and Condensate Sampling System

I state, as its legally authorized representative, that the source testing firm of:

Source Test Firm: Montrose Air Quality Services, LLC
Business Address: 1631 E. St. Andrew Pl.
Santa Ana, California 92705

is an "Independent Testing Laboratory" as defined in **District Rule 304(k)**:

For the purposes of this Rule, when an independent testing laboratory is used for the purposes of establishing compliance with District rules or to obtain a District permit to operate, it must meet all of the following criteria:

- (1) *The testing laboratory shall have no financial interest in the company or facility being tested, or in the parent company, or any subsidiary thereof -*
- (2) *The company or facility being tested, or parent company or any subsidiary thereof, shall have no financial interest in the testing laboratory;*
- (3) *Any company or facility responsible for the emission of significant quantities of pollutants to the atmosphere, or parent company or any subsidiary thereof shall have no financial interest in the testing laboratory; and*
- (4) *The testing laboratory shall not be in partnership with, own or be owned by, in part or in full, the contractor who has provided or installed equipment (basic or control), or monitoring systems, or is providing maintenance for installed equipment or monitoring systems, for the company being tested.*

Furthermore, I state that any contracts or agreements entered into by my source testing firm and the facility referenced above, or its designated contractor(s), either verbal or written, are not contingent upon the outcome of the source testing, or the source testing information provided to the SCAQMD.

Signature:  **Date:** 10/15/2025
Pete San Juan Client Project Manager (714) 279-6777 10/15/2025
 (Name) (Title) (Phone) (Date)

APPENDIX D FACILITY PERMIT



FACILITY PERMIT TO OPERATE CHIQUITA CANYON LLC

PERMIT TO CONSTRUCT/OPERATE

Permit No. G66132
A/N 613131

Equipment Description:

Modification of an existing Landfill Gas Condensate and Leachate Collection/Storage System consisting of:

1. Condensate storage tank, 5,000-gallon capacity, at Canyon B.
2. Condensate storage tank, 10,000-gallon capacity, at Primary Canyon.
3. Condensate storage tanks, three (3), each 6,650-gallon capacity, at flare station.
4. Leachate collection tanks, up to (4), each 10,000-gallon capacity, and one 1,600-gallon capacity, with associated sump pump and transfer pumps.

By removal of:

1. One 1,600-gallon capacity leachate collection tank [under Item 4].

By addition of:

1. One 10,000-gallon capacity leachate collection tank [to Item 4].

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]
2. This equipment shall be properly maintained and kept in good operating condition at all times
[Rule 204]
3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]
4. This equipment shall be vented to air pollution control equipment which is in full operation and has been issued a valid Permit to Construct or Operate by the South Coast AQMD.
[Rule 1303(a)(1)-BACT]
5. This equipment shall be used only for the storage of landfill gas condensate and leachate collection.
[Rule 204]
6. All connectors, valves and openings shall be properly sealed or closed at all times to prevent landfill gas condensate vapors from entering into the atmosphere unless disposal of the condensate/leachate is taking place or during maintenance or repairs.
[Rule 204]



FACILITY PERMIT TO OPERATE CHIQUITA CANYON LLC

7. Any breakdown or malfunction of the landfill gas condensate/leachate storage system shall be reported to South Coast AQMD within one hour after occurrence, or within one hour of the time personnel knew or reasonably should have known of its occurrence, per Rule 430 requirements, and remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere in a timely manner.
[Rule 430]
8. The operator shall keep and maintain adequate records for this equipment to verify compliance with the conditions of this permit. These records shall be prepared in a format which is acceptable to the South Coast AQMD. Records shall be kept for at least five years and made available to South Coast AQMD personnel upon request.
[Rule 204]
9. This permit shall expire if construction of this equipment is not complete within one year from the date of issuance of this permit unless an extension is granted by the Executive Officer.
[Rule 204]

THIS IS THE LAST PAGE OF THIS DOCUMENT

If you have any questions, please contact one of the following individuals by email or phone.

Name: Mr. Pete SanJuan
Title: Client Project Manager
Region: West
Email: PSanjuan@montrose-env.com
Phone: (714) 279-6777

Name: Mr. Matt McCune
Title: Principal
Region: West
Email: MMccune@montrose-env.com
Phone: (714) 279-6777