



AtmAA Inc.

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

LABORATORY ANALYSIS REPORT

specialized air assessment laboratory

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TO-15 Component Analysis in Tedlar Bag Sample, by GC/MS Method EPA TO-15

Report Date: June 24, 2026
Client: SCS Engineers
Project Name: Chiquita Canyon Landfill
Project No.: 07224200.24 Task 1
Date Received: June 2, 2026
Date Analyzed: June 2, 2026

AtmAA Lab No.: Sample ID:	21536-15 Hero Inlet	21536-16 FL-2009 Inlet	21536-17 Parnel Inlet	21536-18 Zeeco 1	21536-19 Zeeco 6
Components	(Concentrations in ppmv)				
Freon 12	<1.50	<1.50	<1.50	<1.50	<1.50
Chloromethane	2.23	<1.90	2.22	<1.90	<1.90
Freon 114	<1.10	<1.10	<1.10	<1.10	<1.10
Vinyl Chloride	<1.50	<1.50	<1.50	<1.50	<1.50
1,3-Butadiene	<1.80	<1.80	<1.80	<1.80	<1.80
Bromomethane	<1.90	<1.90	<1.90	<1.90	<1.90
Chloroethane	<1.50	<1.50	<1.50	<1.50	<1.50
Acetone	744	180	560	84.9	109
Freon 11	<1.40	<1.40	<1.40	<1.40	<1.40
Isopropyl Alcohol	144	51.7	72.3	50.9	70.6
1,1-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
Methylene Chloride	<2.20	<2.20	<2.20	<2.20	<2.20
Carbon Disulfide	<1.30	<1.30	<1.30	<1.30	<1.30
Freon 113	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
1,1-Dichloroethane	<1.90	<1.90	<1.90	<1.90	<1.90
MTBE	<2.10	<2.10	<2.10	<2.10	<2.10
Vinyl Acetate	<2.60	<2.60	<2.60	<2.60	<2.60
2-Butanone	415	108	318	61.3	66.6
cis-1,2-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
n-Hexane	<2.20	<2.20	<2.20	<2.20	<2.20
Chloroform	<1.60	<1.60	<1.60	<1.60	<1.60
Ethyl Acetate	<2.10	<2.10	<2.10	<2.10	<2.10
Tetrahydrofuran	309	78.5	252	43.4	50.7
1,2-Dichloroethane	<1.90	<1.90	<1.90	<1.90	<1.90
1,1,1-Trichloroethane	<1.40	<1.40	<1.40	<1.40	<1.40
Benzene	183	52.0	169	19.0	22.0
Carbon Tetrachloride	<1.20	<1.20	<1.20	<1.20	<1.20
Cyclohexane	<2.20	<2.20	<2.20	<2.20	<2.20
1,2-Dichloropropane	<1.70	<1.70	<1.70	<1.70	<1.70
Bromodichloromethane	<1.20	<1.20	<1.20	<1.20	<1.20
Trichloroethene	<1.40	<1.40	<1.40	<1.40	<1.40
1,4-Dioxane	<2.10	<2.10	<2.10	<2.10	<2.10
n-Heptane	<1.90	<1.90	<1.90	<1.90	<1.90
cis-1,3-Dichloropropene	<1.70	<1.70	<1.70	<1.70	<1.70
4-Methyl-2-pentanone	13.7	4.48	9.49	3.30	2.40
trans-1,3-Dichloropropene	<1.70	<1.70	<1.70	<1.70	<1.70
1,1-2-Trichloroethane	<1.40	<1.40	<1.40	<1.40	<1.40
Toluene	12.6	5.42	10.6	2.52	2.90
2-Hexanone	4.80	<1.90	3.11	<1.90	<1.90
Dibromochloromethane	<0.90	<0.90	<0.90	<0.90	<0.90
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	<1.10	<1.10	<1.10	<1.10	<1.10
Chlorobenzene	<1.70	<1.70	<1.70	<1.70	<1.70
Ethylbenzene	3.83	<1.75	3.11	<1.75	<1.75
m,p-Xylene	2.76	<1.75	2.14	<1.75	<1.75
Bromoform	<0.80	<0.80	<0.80	<0.80	<0.80
Styrene	<1.80	<1.80	<1.80	<1.80	<1.80
1,1,2,2-Tetrachloroethane	<1.10	<1.10	<1.10	<1.10	<1.10
o-Xylene	<1.80	<1.80	<1.80	<1.80	<1.80
Benzyl Chloride	<1.40	<1.40	<1.40	<1.40	<1.40
4-Ethyl Toluene	<1.60	<1.60	<1.60	<1.60	<1.60
1,3,5-Trimethyl Benzene	<1.60	<1.60	<1.60	<1.60	<1.60
1,2,4-Trimethyl Benzene	<1.60	<1.60	<1.60	<1.60	<1.60
1,3-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,4-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,2-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,2,4-Trichlorobenzene	<4.10	<4.10	<4.10	<4.10	<4.10
Hexachlorobutadiene	<2.90	<2.90	<2.90	<2.90	<2.90


Brian W. Fung
Laboratory Director



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TO-15 Component Analysis in Tedlar Bag Sample, by GC/MS Method EPA TO-15

Report Date: July 29, 2026

Client: SCS Engineers

Project Name: Chiquita Canyon Landfill

Project No.: 07224200.24 Task 1

Date Received: July 6, 2026

Date Analyzed: July 7, 2026

AtmAA Lab No.:	21876-6	21876-7	21876-8	21876-9	21876-10
Sample ID:	Zeeco South	Hero Inlet	FL-2009	Parnel Inlet	Zeeco Inlet
Components	(Concentrations in ppmv)				
Freon 12	<1.50	<1.50	<1.50	<1.50	<1.50
Chloromethane	<1.90	2.91	<1.90	2.83	<1.90
Freon 114	<1.10	<1.10	<1.10	<1.10	<1.10
Vinyl Chloride	<1.50	<1.50	<1.50	<1.50	<1.50
1,3-Butadiene	<1.80	<1.80	<1.80	<1.80	<1.80
Bromomethane	<1.90	<1.90	<1.90	<1.90	<1.90
Chloroethane	<1.50	<1.50	<1.50	<1.50	<1.50
Acetone	84.4	687	<25.0	632	38.2
Freon 11	<1.40	<1.40	<1.40	<1.40	<1.40
Isopropyl Alcohol	45.8	161	<12.5	122	<12.5
1,1-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
Methylene Chloride	<2.20	<2.20	<2.20	<2.20	<2.20
Carbon Disulfide	<1.30	<1.30	<1.30	<1.30	<1.30
Freon 113	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
1,1-Dichloroethane	<1.90	<1.90	<1.90	<1.90	<1.90
MTBE	<2.10	<2.10	<2.10	<2.10	<2.10
Vinyl Acetate	<2.60	<2.60	<2.60	<2.60	<2.60
2-Butanone	62.2	466	13.0	426	26.7
cis-1,2-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
n-Hexane	<2.20	<2.20	<2.20	<2.20	<2.20
Chloroform	<1.60	<1.60	<1.60	<1.60	<1.60
Ethyl Acetate	<2.10	<2.10	<2.10	<2.10	<2.10
Tetrahydrofuran	50.1	405	10.4	376	23.5
1,2-Dichloroethane	<1.90	<1.90	<1.90	<1.90	<1.90
1,1,1-Trichloroethane	<1.40	<1.40	<1.40	<1.40	<1.40
Benzene	32.9	315	8.79	301	20.1
Carbon Tetrachloride	<1.20	<1.20	<1.20	<1.20	<1.20
Cyclohexane	<2.20	<2.20	<2.20	<2.20	<2.20
1,2-Dichloropropane	<1.70	<1.70	<1.70	<1.70	<1.70
Bromodichloromethane	<1.20	<1.20	<1.20	<1.20	<1.20
Trichloroethene	<1.40	<1.40	<1.40	<1.40	<1.40
1,4-Dioxane	<2.10	<2.10	<2.10	<2.10	<2.10
n-Heptane	<1.90	4.76	<1.90	4.62	<1.90
cis-1,3-Dichloropropene	<1.70	<1.70	<1.70	<1.70	<1.70
4-Methyl-2-pentanone	3.45	19.9	<1.85	18.0	<1.85
trans-1,3-Dichloropropene	<1.70	<1.70	<1.70	<1.70	<1.70
1,1,2-Trichloroethane	<1.40	<1.40	<1.40	<1.40	<1.40
Toluene	6.98	37.0	<2.00	33.9	2.25
2-Hexanone	<1.90	8.50	<1.90	7.48	<1.90
Dibromochloromethane	<0.90	<0.90	<0.90	<0.90	<0.90
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	<1.10	<1.10	<1.10	<1.10	<1.10
Chlorobenzene	<1.70	<1.70	<1.70	<1.70	<1.70
Ethylbenzene	3.67	21.5	<1.75	18.4	<1.75
m,p-Xylene	4.16	17.8	<1.75	15.0	<1.75
Bromoform	<0.80	<0.80	<0.80	<0.80	<0.80
Styrene	<1.80	<1.80	<1.80	<1.80	<1.80
1,1,2,2-Tetrachloroethane	<1.10	<1.10	<1.10	<1.10	<1.10
o-Xylene	<1.80	6.60	<1.80	5.38	<1.80
Benzyl Chloride	<1.40	<1.40	<1.40	<1.40	<1.40
4-Ethyl Toluene	<1.60	7.68	<1.60	6.30	<1.60
1,3,5-Trimethyl Benzene	<1.60	1.74	<1.60	<1.60	<1.60
1,2,4-Trimethyl Benzene	<1.60	<1.60	<1.60	<1.60	<1.60
1,3-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,4-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,2-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,2,4-Trichlorobenzene	<4.10	<4.10	<4.10	<4.10	<4.10
Hexachlorobutadiene	<2.90	<2.90	<2.90	<2.90	<2.90


Brian W. Fung
Laboratory Director



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TO-15 Component Analysis in Tedlar Bag Sample, by GC/MS Method EPA TO-15

Report Date: August 26, 2026

Client: SCS Engineers

Project Name: Chiquita Canyon Landfill

Project No.: 07224200.24 Task 1

Date Received: August 3, 2026

Date Analyzed: August 4, 2026

AtmAA Lab No.:	22156-7	22156-8	22156-9	22156-10	22156-11
Sample ID:	Zeeco South	FL-2009 Inlet	Hero Inlet	Parnel Inlet	Zeeco Inlet
Components	(Concentrations in ppmv)				
Freon 12	<1.50	<1.50	<1.50	<1.50	<1.50
Chloromethane	<1.90	<1.90	<1.90	<1.90	<1.90
Freon 114	<1.10	<1.10	<1.10	<1.10	<1.10
Vinyl Chloride	<1.50	<1.50	<1.50	<1.50	<1.50
1,3-Butadiene	<1.80	<1.80	<1.80	<1.80	<1.80
Bromomethane	<1.90	<1.90	<1.90	<1.90	<1.90
Chloroethane	<1.50	<1.50	<1.50	<1.50	<1.50
Acetone	110	198	687	552	467
Freon 11	<1.40	<1.40	<1.40	<1.40	<1.40
Isopropyl Alcohol	48.5	80.2	158	76.8	118
1,1-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
Methylene Chloride	<2.20	<2.20	<2.20	<2.20	<2.20
Carbon Disulfide	<1.30	<1.30	<1.30	<1.30	<1.30
Freon 113	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
1,1-Dichloroethane	<1.90	<1.90	<1.90	<1.90	<1.90
MTBE	<2.10	<2.10	<2.10	<2.10	<2.10
Vinyl Acetate	<2.60	<2.60	<2.60	<2.60	<2.60
2-Butanone	77.2	138	450	363	305
cis-1,2-Dichloroethene	<1.90	<1.90	<1.90	<1.90	<1.90
n-Hexane	<2.20	<2.20	<2.20	<2.20	<2.20
Chloroform	<1.60	<1.60	<1.60	<1.60	<1.60
Ethyl Acetate	<2.10	<2.10	<2.10	<2.10	<2.10
Tetrahydrofuran	64.4	109	408	301	300
1,2-Dichloroethane	<1.90	<1.90	<1.90	<1.90	<1.90
1,1,1-Trichloroethane	<1.40	<1.40	<1.40	<1.40	<1.40
Benzene	41.7	90.2	300	301	224
Carbon Tetrachloride	<1.20	<1.20	<1.20	<1.20	<1.20
Cyclohexane	<2.20	<2.20	<2.20	<2.20	2.88
1,2-Dichloropropane	<1.70	<1.70	<1.70	<1.70	<1.70
Bromodichloromethane	<1.20	<1.20	<1.20	<1.20	<1.20
Trichloroethene	<1.40	<1.40	<1.40	<1.40	<1.40
1,4-Dioxane	<2.10	<2.10	<2.10	<2.10	<2.10
n-Heptane	1.98	2.65	5.13	4.28	5.04
cis-1,3-Dichloropropene	<1.70	<1.70	<1.70	<1.70	<1.70
4-Methyl-2-pentanone	4.13	7.60	19.8	14.3	14.7
trans-1,3-Dichloropropene	<1.70	<1.70	<1.70	<1.70	<1.70
1,1,2-Trichloroethane	<1.40	<1.40	<1.40	<1.40	<1.40
Toluene	8.16	15.3	32.0	29.0	24.5
2-Hexanone	<1.90	1.92	6.59	4.70	4.41
Dibromochloromethane	<0.90	<0.90	<0.90	<0.90	<0.90
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	<1.10	<1.10	<1.10	<1.10	<1.10
Chlorobenzene	<1.70	<1.70	<1.70	<1.70	<1.70
Ethylbenzene	3.79	6.53	19.4	14.1	13.8
m,p-Xylene	3.90	6.60	15.0	11.3	11.0
Bromoform	<0.80	<0.80	<0.80	<0.80	<0.80
Styrene	<1.80	<1.80	<1.80	<1.80	<1.80
1,1,2,2-Tetrachloroethane	<1.10	<1.10	<1.10	<1.10	<1.10
o-Xylene	<1.80	2.22	5.37	3.75	3.94
Benzyl Chloride	<1.40	<1.40	<1.40	<1.40	<1.40
4-Ethyl Toluene	<1.60	1.75	6.04	3.95	4.56
1,3,5-Trimethyl Benzene	<1.60	<1.60	<1.60	<1.60	<1.60
1,2,4-Trimethyl Benzene	<1.60	<1.60	<1.60	<1.60	<1.60
1,3-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,4-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,2-Dichlorobenzene	<1.30	<1.30	<1.30	<1.30	<1.30
1,2,4-Trichlorobenzene	<4.10	<4.10	<4.10	<4.10	<4.10
Hexachlorobutadiene	<2.90	<2.90	<2.90	<2.90	<2.90


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Laboratory Director