

LAB CHRONICLE

OrderID:	Q3032	OrderDate:	9/5/2025 12:41:17 PM
Client:	Zuccaro Inc.	Project:	3 Coal Ave., Morristown, NJ
Contact:	Sal Zuccaro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3032-01	SOIL-PILE-1	SOIL	SVOC-TCL BNA -20	8270E	09/05/25	09/08/25	09/08/25	09/05/25
Q3032-02	SOIL-PILE-1	TCLP	TCLP BNA	8270E	09/05/25	09/11/25	09/11/25	09/05/25
Q3032-04	SOIL-PILE-2	SOIL	SVOC-TCL BNA -20	8270E	09/05/25	09/08/25	09/08/25	09/05/25
Q3032-05	SOIL-PILE-2	TCLP	TCLP BNA	8270E	09/05/25	09/11/25	09/11/25	09/05/25

Hit Summary Sheet SW-846

SDG No.: Q3032
Client: Zuccaro Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SOIL-PILE-1								
Q3032-01	SOIL-PILE-1	SOIL	Fluoranthene	130.000	J	36	200	ug/Kg
Q3032-01	SOIL-PILE-1	SOIL	Pyrene	92.700	J	43.2	200	ug/Kg
Total Svoc :				222.70				
Q3032-01	SOIL-PILE-1	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	490.000	AB	0	0	ug/Kg
Q3032-01	SOIL-PILE-1	SOIL	Benzophenone *	190.000	J	0	0	ug/Kg
Q3032-01	SOIL-PILE-1	SOIL	E-15-Heptadecenal *	230.000	J	0	0	ug/Kg
Q3032-01	SOIL-PILE-1	SOIL	Tridecanoic acid *	470.000	J	0	0	ug/Kg
Q3032-01	SOIL-PILE-1	SOIL	Octadecanoic acid *	83.700	J	0	0	ug/Kg
Q3032-01	SOIL-PILE-1	SOIL	Perylene *	120.000	J	0	0	ug/Kg
Total Tics :				1,583.70				
Total Concentration:				1,806.40				
Client ID : SOIL-PILE-2								
Q3032-04	SOIL-PILE-2	SOIL	Phenanthrene	1,600.000		130	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Fluoranthene	3,000.000		180	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Pyrene	2,300.000		220	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Benzo(a)anthracene	1,400.000		140	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Chrysene	1,300.000		120	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Benzo(b)fluoranthene	1,700.000		110	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Benzo(k)fluoranthene	600.000	J	130	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Benzo(a)pyrene	1,300.000		180	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Indeno(1,2,3-cd)pyrene	690.000	J	170	1000	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Benzo(g,h,i)perylene	840.000	J	150	1000	ug/Kg
Total Svoc :				14,730.00				
Q3032-04	SOIL-PILE-2	SOIL	Benzo[j]fluoranthene *	850.000	J	0	0	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	440.000	AB	0	0	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	6H-Cyclobuta[jk]phenanthrene *	570.000	J	0	0	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Anthracene, 1,8-diethynyl- *	400.000	J	0	0	ug/Kg
Q3032-04	SOIL-PILE-2	SOIL	Anthracene, 1-methyl- *	480.000	J	0	0	ug/Kg
Total Tics :				2,740.00				
Total Concentration:				17,470.00				



SAMPLE DATA

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1	SDG No.:	Q3032
Lab Sample ID:	Q3032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064309.D	1	09/08/25 09:30	09/08/25 16:19	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.5	U	26.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.2	U	29.2	200	ug/Kg
95-57-8	2-Chlorophenol	29.3	U	29.3	200	ug/Kg
95-48-7	2-Methylphenol	35.9	U	35.9	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.0	UQ	45.0	200	ug/Kg
98-86-2	Acetophenone	35.4	U	35.4	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.4	U	49.4	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.9	U	56.9	96.1	ug/Kg
67-72-1	Hexachloroethane	21.1	U	21.1	200	ug/Kg
98-95-3	Nitrobenzene	22.0	U	22.0	200	ug/Kg
78-59-1	Isophorone	39.4	U	39.4	200	ug/Kg
88-75-5	2-Nitrophenol	69.9	U	69.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.8	U	77.8	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.0	U	37.0	200	ug/Kg
120-83-2	2,4-Dichlorophenol	34.0	U	34.0	200	ug/Kg
91-20-3	Naphthalene	27.3	U	27.3	200	ug/Kg
106-47-8	4-Chloroaniline	42.5	UQ	42.5	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.4	U	30.4	200	ug/Kg
105-60-2	Caprolactam	62.6	U	62.6	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.5	U	34.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.7	U	30.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.8	U	23.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.9	U	34.9	200	ug/Kg
92-52-4	1,1-Biphenyl	26.2	U	26.2	200	ug/Kg
91-58-7	2-Chloronaphthalene	27.0	U	27.0	200	ug/Kg
88-74-4	2-Nitroaniline	57.8	U	57.8	200	ug/Kg
131-11-3	Dimethylphthalate	32.5	U	32.5	200	ug/Kg

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Lab Sample ID:	Q3032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

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BG064309.D	1	09/08/25 09:30	09/08/25 16:19	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.7	U	34.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.4	U	40.4	200	ug/Kg
99-09-2	3-Nitroaniline	55.2	U	55.2	200	ug/Kg
83-32-9	Acenaphthene	25.6	U	25.6	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.3	U	27.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	60.2	U	60.2	200	ug/Kg
84-66-2	Diethylphthalate	34.0	U	34.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.1	U	32.1	200	ug/Kg
86-73-7	Fluorene	30.4	U	30.4	200	ug/Kg
100-01-6	4-Nitroaniline	77.1	U	77.1	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.5	U	39.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.4	U	33.4	200	ug/Kg
118-74-1	Hexachlorobenzene	30.4	U	30.4	200	ug/Kg
1912-24-9	Atrazine	40.8	U	40.8	200	ug/Kg
87-86-5	Pentachlorophenol	61.6	U	61.6	400	ug/Kg
85-01-8	Phenanthrene	25.1	U	25.1	200	ug/Kg
120-12-7	Anthracene	40.0	U	40.0	200	ug/Kg
86-74-8	Carbazole	37.5	U	37.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.5	U	57.5	200	ug/Kg
206-44-0	Fluoranthene	130	J	36.0	200	ug/Kg
129-00-0	Pyrene	92.7	J	43.2	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.7	U	85.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.1	UQ	44.1	400	ug/Kg
56-55-3	Benzo(a)anthracene	27.6	U	27.6	200	ug/Kg
218-01-9	Chrysene	23.9	U	23.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	71.1	U	71.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.8	U	22.8	200	ug/Kg

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Client Sample ID:	SOIL-PILE-1	SDG No.:	Q3032
Lab Sample ID:	Q3032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064309.D	1	09/08/25 09:30	09/08/25 16:19	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.9	U	26.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.4	U	35.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.9	U	34.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.9	U	32.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.9	U	30.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.7	U	30.7	200	ug/Kg
123-91-1	1,4-Dioxane	54.3	U	54.3	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.9	U	32.9	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	115		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.5		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.8		30 (20) - 130 (109)	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		30 (10) - 130 (116)	100%	SPK: 150
1718-51-0	Terphenyl-d14	78.2		30 (10) - 130 (105)	78%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	31000	7.852		
1146-65-2	Naphthalene-d8	128000	10.636		
15067-26-2	Acenaphthene-d10	87700	14.473		
1517-22-2	Phenanthrene-d10	217000	17.217		
1719-03-5	Chrysene-d12	236000	21.447		
1520-96-3	Perylene-d12	268000	24.456		

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	490	AB		4.97	ug/Kg
000119-61-9	Benzophenone	190	J		15.8	ug/Kg
000638-53-9	Tridecanoic acid	470	J		18.1	ug/Kg
000057-11-4	Octadecanoic acid	83.7	J		19.4	ug/Kg
1000130-97-9	E-15-Heptadecenal	230	J		21.1	ug/Kg
000198-55-0	Perylene	120	J		23.5	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1	SDG No.:	Q3032
Lab Sample ID:	Q3032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064309.D	1	09/08/25 09:30	09/08/25 16:19	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-2	SDG No.:	Q3032
Lab Sample ID:	Q3032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064312.D	5	09/08/25 09:30	09/08/25 18:22	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	940	U	940	2000	ug/Kg
108-95-2	Phenol	130	U	130	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	150	1000	ug/Kg
95-57-8	2-Chlorophenol	150	U	150	1000	ug/Kg
95-48-7	2-Methylphenol	180	U	180	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	UQ	230	1000	ug/Kg
98-86-2	Acetophenone	180	U	180	1000	ug/Kg
65794-96-9	3+4-Methylphenols	250	U	250	2000	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	280	U	280	480	ug/Kg
67-72-1	Hexachloroethane	110	U	110	1000	ug/Kg
98-95-3	Nitrobenzene	110	U	110	1000	ug/Kg
78-59-1	Isophorone	200	U	200	1000	ug/Kg
88-75-5	2-Nitrophenol	350	U	350	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	390	U	390	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	180	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	170	1000	ug/Kg
91-20-3	Naphthalene	140	U	140	1000	ug/Kg
106-47-8	4-Chloroaniline	210	UQ	210	1000	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	1000	ug/Kg
105-60-2	Caprolactam	310	U	310	2000	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	170	1000	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	150	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	700	U	700	2000	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	170	1000	ug/Kg
92-52-4	1,1-Biphenyl	130	U	130	1000	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	1000	ug/Kg
88-74-4	2-Nitroaniline	290	U	290	1000	ug/Kg
131-11-3	Dimethylphthalate	160	U	160	1000	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-2	SDG No.:	Q3032
Lab Sample ID:	Q3032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064312.D	5	09/08/25 09:30	09/08/25 18:22	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	170	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	200	1000	ug/Kg
99-09-2	3-Nitroaniline	280	U	280	1000	ug/Kg
83-32-9	Acenaphthene	130	U	130	1000	ug/Kg
51-28-5	2,4-Dinitrophenol	1400	U	1400	2000	ug/Kg
100-02-7	4-Nitrophenol	640	U	640	2000	ug/Kg
132-64-9	Dibenzofuran	140	U	140	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	300	U	300	1000	ug/Kg
84-66-2	Diethylphthalate	170	U	170	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	160	1000	ug/Kg
86-73-7	Fluorene	150	U	150	1000	ug/Kg
100-01-6	4-Nitroaniline	390	U	390	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620	U	620	2000	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	200	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	170	1000	ug/Kg
118-74-1	Hexachlorobenzene	150	U	150	1000	ug/Kg
1912-24-9	Atrazine	200	U	200	1000	ug/Kg
87-86-5	Pentachlorophenol	310	U	310	2000	ug/Kg
85-01-8	Phenanthrene	1600		130	1000	ug/Kg
120-12-7	Anthracene	200	U	200	1000	ug/Kg
86-74-8	Carbazole	190	U	190	1000	ug/Kg
84-74-2	Di-n-butylphthalate	290	U	290	1000	ug/Kg
206-44-0	Fluoranthene	3000		180	1000	ug/Kg
129-00-0	Pyrene	2300		220	1000	ug/Kg
85-68-7	Butylbenzylphthalate	430	U	430	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	220	UQ	220	2000	ug/Kg
56-55-3	Benzo(a)anthracene	1400		140	1000	ug/Kg
218-01-9	Chrysene	1300		120	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	360	U	360	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	520	U	520	2000	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		110	1000	ug/Kg

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Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
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Lab Sample ID:	Q3032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064312.D	5	09/08/25 09:30	09/08/25 18:22	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	600	J	130	1000	ug/Kg
50-32-8	Benzo(a)pyrene	1300		180	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	690	J	170	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	1000	ug/Kg
191-24-2	Benzo(g,h,i)perylene	840	J	150	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	1000	ug/Kg
123-91-1	1,4-Dioxane	270	U	270	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	160	1000	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	108		30 (18) - 130 (112)	72%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.3		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.4		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		30 (10) - 130 (116)	87%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		30 (10) - 130 (105)	56%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	23600	7.848
1146-65-2	Naphthalene-d8	100000	10.633
15067-26-2	Acenaphthene-d10	71100	14.475
1517-22-2	Phenanthrene-d10	170000	17.213
1719-03-5	Chrysene-d12	196000	21.444
1520-96-3	Perylene-d12	214000	24.458

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	440	AB	4.97	ug/Kg
000610-48-0	Anthracene, 1-methyl-	480	J	18.1	ug/Kg
083469-43-6	6H-Cyclobuta[jk]phenanthrene	570	J	18.3	ug/Kg
078053-58-4	Anthracene, 1,8-diethynyl-	400	J	21.1	ug/Kg
000205-82-3	Benzo[j]fluoranthene	850	J	24.2	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-2	SDG No.:	Q3032
Lab Sample ID:	Q3032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064312.D	5	09/08/25 09:30	09/08/25 18:22	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3032

Client: Zuccaro Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169593BL	PB169593BL	2-Fluorophenol	150	135	90		30 (18)	130 (112)
		Phenol-d6	150	128	86		30 (15)	130 (107)
		Nitrobenzene-d5	100	99.4	99		30 (18)	130 (107)
		2-Fluorobiphenyl	100	96.1	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	174	116		30 (10)	130 (116)
		Terphenyl-d14	100	100	100		30 (10)	130 (105)
PB169593BS	PB169593BS	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	123	82		30 (15)	130 (107)
		Nitrobenzene-d5	100	88.3	88		30 (18)	130 (107)
		2-Fluorobiphenyl	100	88.0	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	153	102		30 (10)	130 (116)
		Terphenyl-d14	100	91.4	91		30 (10)	130 (105)
Q3032-01	SOIL-PILE-1	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	115	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.5	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	78.8	79		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	150	100		30 (10)	130 (116)
		Terphenyl-d14	100	78.2	78		30 (10)	130 (105)
Q3032-01MS	SOIL-PILE-1MS	2-Fluorophenol	150	119	80		30 (18)	130 (112)
		Phenol-d6	150	112	75		30 (15)	130 (107)
		Nitrobenzene-d5	100	76.9	77		30 (18)	130 (107)
		2-Fluorobiphenyl	100	70.0	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	141	94		30 (10)	130 (116)
		Terphenyl-d14	100	72.5	72		30 (10)	130 (105)
Q3032-01MSD	SOIL-PILE-1MSD	2-Fluorophenol	150	116	78		30 (18)	130 (112)
		Phenol-d6	150	110	73		30 (15)	130 (107)
		Nitrobenzene-d5	100	75.9	76		30 (18)	130 (107)
		2-Fluorobiphenyl	100	71.0	71		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	142	95		30 (10)	130 (116)
		Terphenyl-d14	100	72.7	73		30 (10)	130 (105)
Q3032-04	SOIL-PILE-2	2-Fluorophenol	150	108	72		30 (18)	130 (112)
		Phenol-d6	150	104	70		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.3	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.4	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	131	87		30 (10)	130 (116)
		Terphenyl-d14	100	55.5	56		30 (10)	130 (105)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3032

Analytical Method: SW8270E

Client: Zuccaro Inc.

DataFile: BG064310.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q3032-01MS		Client Sample ID: SOIL-PILE-1MS									
Benzaldehyde	2000	0	1300	ug/Kg	65				20 (10)	160 (171)	
Phenol	2000	0	1800	ug/Kg	90				20 (51)	160 (122)	
bis(2-Chloroethyl)ether	2000	0	1500	ug/Kg	75				70 (54)	130 (125)	
2-Chlorophenol	2000	0	1800	ug/Kg	90				70 (51)	130 (121)	
2-Methylphenol	2000	0	1700	ug/Kg	85				70 (47)	130 (125)	
2,2-oxybis(1-Chloropropane)	2000	0	1300	ug/Kg	65	*			70 (46)	130 (119)	
Acetophenone	2000	0	1900	ug/Kg	95				70 (55)	130 (128)	
3+4-Methylphenols	2000	0	1600	ug/Kg	80				20 (49)	160 (125)	
N-Nitroso-di-n-propylamine	2000	0	1500	ug/Kg	75				70 (59)	130 (119)	
Hexachloroethane	2000	0	1800	ug/Kg	90				20 (51)	160 (116)	
Nitrobenzene	2000	0	1700	ug/Kg	85				70 (47)	130 (124)	
Isophorone	2000	0	1600	ug/Kg	80				70 (49)	130 (127)	
2-Nitrophenol	2000	0	1900	ug/Kg	95				70 (43)	130 (131)	
2,4-Dimethylphenol	2000	0	2000	ug/Kg	100				70 (63)	130 (151)	
bis(2-Chloroethoxy)methane	2000	0	1600	ug/Kg	80				70 (51)	130 (119)	
2,4-Dichlorophenol	2000	0	1900	ug/Kg	95				70 (50)	130 (122)	
Naphthalene	2000	0	1800	ug/Kg	90				70 (51)	130 (121)	
4-Chloroaniline	2000	0	590	ug/Kg	29	*			70 (10)	130 (100)	
Hexachlorobutadiene	2000	0	2000	ug/Kg	100				70 (44)	130 (126)	
Caprolactam	2000	0	1500	ug/Kg	75				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2000	0	1800	ug/Kg	90				70 (57)	130 (132)	
2-Methylnaphthalene	2000	0	1600	ug/Kg	80				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4000	0	5100	ug/Kg	128				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2000	0	1900	ug/Kg	95				70 (33)	130 (141)	
2,4,5-Trichlorophenol	2000	0	2000	ug/Kg	100				70 (38)	130 (135)	
1,1-Biphenyl	2000	0	1900	ug/Kg	95				70 (55)	130 (131)	
2-Chloronaphthalene	2000	0	1800	ug/Kg	90				70 (48)	130 (124)	
2-Nitroaniline	2000	0	1800	ug/Kg	90				70 (47)	130 (134)	
Dimethylphthalate	2000	0	1600	ug/Kg	80				70 (54)	130 (120)	
Acenaphthylene	2000	0	2000	ug/Kg	100				70 (57)	130 (125)	
2,6-Dinitrotoluene	2000	0	2000	ug/Kg	100				70 (48)	130 (127)	
3-Nitroaniline	2000	0	1000	ug/Kg	50	*			70 (10)	130 (112)	
Acenaphthene	2000	0	1700	ug/Kg	85				70 (70)	130 (121)	
2,4-Dinitrophenol	4000	0	3500	ug/Kg	88				20 (10)	160 (155)	
4-Nitrophenol	4000	0	3900	ug/Kg	98				20 (10)	160 (175)	
Dibenzofuran	2000	0	1800	ug/Kg	90				70 (52)	130 (114)	
2,4-Dinitrotoluene	2000	0	2000	ug/Kg	100				70 (41)	130 (140)	
Diethylphthalate	2000	0	1700	ug/Kg	85				70 (51)	130 (119)	
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90				70 (48)	130 (122)	
Fluorene	2000	0	1800	ug/Kg	90				70 (53)	130 (118)	
4-Nitroaniline	2000	0	1800	ug/Kg	90				70 (29)	130 (140)	
4,6-Dinitro-2-methylphenol	2000	0	1900	ug/Kg	95				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2000	0	1800	ug/Kg	90				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2000	0	1900	ug/Kg	95				70 (65)	130 (121)	
Hexachlorobenzene	2000	0	2000	ug/Kg	100				70 (67)	130 (118)	
Atrazine	2000	0	2000	ug/Kg	100				70 (45)	130 (175)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3032

Analytical Method: SW8270E

Client: Zuccaro Inc.

DataFile: BG064310.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4000	0	4400	ug/Kg	110				20 (13)	160 (153)	
Phenanthrene	2000	0	1900	ug/Kg	95				70 (52)	130 (128)	
Anthracene	2000	0	1900	ug/Kg	95				70 (62)	130 (124)	
Carbazole	2000	0	1900	ug/Kg	95				70 (59)	130 (119)	
Di-n-butylphthalate	2000	0	1900	ug/Kg	95				70 (55)	130 (125)	
Fluoranthene	2000	130	2000	ug/Kg	94				70 (44)	130 (125)	
Pyrene	2000	92.7	1800	ug/Kg	85				70 (37)	130 (122)	
Butylbenzylphthalate	2000	0	1900	ug/Kg	95				70 (44)	130 (135)	
3,3-Dichlorobenzidine	2000	0	840	ug/Kg	42	*			70 (15)	130 (112)	
Benzo(a)anthracene	2000	0	1900	ug/Kg	95				70 (53)	130 (119)	
Chrysene	2000	0	1800	ug/Kg	90				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2000	0	1800	ug/Kg	90				70 (42)	130 (169)	
Di-n-octyl phthalate	2000	0	1800	ug/Kg	90				70 (51)	130 (156)	
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95				70 (52)	130 (117)	
Benzo(k)fluoranthene	2000	0	1900	ug/Kg	95				70 (57)	130 (134)	
Benzo(a)pyrene	2000	0	2000	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2000	0	1900	ug/Kg	95				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2000	0	2200	ug/Kg	110				70 (52)	130 (134)	
1,4-Dioxane	2000	0	1400	ug/Kg	70				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2000	0	2100	ug/Kg	105				70 (24)	130 (146)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3032

Analytical Method: SW8270E

Client: Zuccaro Inc.

DataFile: BG064311.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q3032-01MSD		Client Sample ID: SOIL-PILE-1MSD									
Benzaldehyde	2000	0	1300	ug/Kg	65		0		20 (10)	160 (171)	30 (20)
Phenol	2000	0	1700	ug/Kg	85		6		20 (51)	160 (122)	30 (20)
bis(2-Chloroethyl)ether	2000	0	1500	ug/Kg	75		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2000	0	1800	ug/Kg	90		0		70 (51)	130 (121)	30 (20)
2-Methylphenol	2000	0	1600	ug/Kg	80		6		70 (47)	130 (125)	30 (20)
2,2-oxybis(1-Chloropropane)	2000	0	1300	ug/Kg	65	*	0		70 (46)	130 (119)	30 (20)
Acetophenone	2000	0	1900	ug/Kg	95		0		70 (55)	130 (128)	30 (20)
3+4-Methylphenols	2000	0	1600	ug/Kg	80		0		20 (49)	160 (125)	30 (20)
N-Nitroso-di-n-propylamine	2000	0	1500	ug/Kg	75		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2000	0	1800	ug/Kg	90		0		20 (51)	160 (116)	30 (20)
Nitrobenzene	2000	0	1700	ug/Kg	85		0		70 (47)	130 (124)	30 (20)
Isophorone	2000	0	1500	ug/Kg	75		6		70 (49)	130 (127)	30 (20)
2-Nitrophenol	2000	0	1900	ug/Kg	95		0		70 (43)	130 (131)	30 (20)
2,4-Dimethylphenol	2000	0	1900	ug/Kg	95		5		70 (63)	130 (151)	30 (20)
bis(2-Chloroethoxy)methane	2000	0	1500	ug/Kg	75		6		70 (51)	130 (119)	30 (20)
2,4-Dichlorophenol	2000	0	1900	ug/Kg	95		0		70 (50)	130 (122)	30 (20)
Naphthalene	2000	0	1700	ug/Kg	85		6		70 (51)	130 (121)	30 (20)
4-Chloroaniline	2000	0	630	ug/Kg	32	*	10		70 (10)	130 (100)	30 (20)
Hexachlorobutadiene	2000	0	2100	ug/Kg	105		5		70 (44)	130 (126)	30 (20)
Caprolactam	2000	0	1600	ug/Kg	80		6		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2000	0	1800	ug/Kg	90		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2000	0	1600	ug/Kg	80		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4000	0	4900	ug/Kg	123		4		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2000	0	2000	ug/Kg	100		5		70 (33)	130 (141)	30 (20)
2,4,5-Trichlorophenol	2000	0	2000	ug/Kg	100		0		70 (38)	130 (135)	30 (20)
1,1-Biphenyl	2000	0	2000	ug/Kg	100		5		70 (55)	130 (131)	30 (20)
2-Chloronaphthalene	2000	0	1800	ug/Kg	90		0		70 (48)	130 (124)	30 (20)
2-Nitroaniline	2000	0	1900	ug/Kg	95		5		70 (47)	130 (134)	30 (20)
Dimethylphthalate	2000	0	1700	ug/Kg	85		6		70 (54)	130 (120)	30 (20)
Acenaphthylene	2000	0	2000	ug/Kg	100		0		70 (57)	130 (125)	30 (20)
2,6-Dinitrotoluene	2000	0	2000	ug/Kg	100		0		70 (48)	130 (127)	30 (20)
3-Nitroaniline	2000	0	1100	ug/Kg	55	*	10		70 (10)	130 (112)	30 (20)
Acenaphthene	2000	0	1700	ug/Kg	85		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4000	0	3200	ug/Kg	80		10		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4000	0	3900	ug/Kg	98		0		20 (10)	160 (175)	30 (20)
Dibenzofuran	2000	0	1800	ug/Kg	90		0		70 (52)	130 (114)	30 (20)
2,4-Dinitrotoluene	2000	0	2000	ug/Kg	100		0		70 (41)	130 (140)	30 (20)
Diethylphthalate	2000	0	1700	ug/Kg	85		0		70 (51)	130 (119)	30 (20)
4-Chlorophenyl-phenylether	2000	0	1900	ug/Kg	95		5		70 (48)	130 (122)	30 (20)
Fluorene	2000	0	1800	ug/Kg	90		0		70 (53)	130 (118)	30 (20)
4-Nitroaniline	2000	0	1700	ug/Kg	85		6		70 (29)	130 (140)	30 (20)
4,6-Dinitro-2-methylphenol	2000	0	1800	ug/Kg	90		5		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2000	0	1700	ug/Kg	85		6		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2000	0	1900	ug/Kg	95		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2000	0	1900	ug/Kg	95		5		70 (67)	130 (118)	30 (20)
Atrazine	2000	0	1900	ug/Kg	95		5		70 (45)	130 (175)	30 (20)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3032

Analytical Method: SW8270E

Client: Zuccaro Inc.

DataFile: BG064311.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4000	0	4400	ug/Kg	110		0		20 (13)	160 (153)	30 (20)
Phenanthrene	2000	0	1800	ug/Kg	90		5		70 (52)	130 (128)	30 (20)
Anthracene	2000	0	1800	ug/Kg	90		5		70 (62)	130 (124)	30 (20)
Carbazole	2000	0	1800	ug/Kg	90		5		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2000	0	1800	ug/Kg	90		5		70 (55)	130 (125)	30 (20)
Fluoranthene	2000	130	1900	ug/Kg	89		5		70 (44)	130 (125)	30 (20)
Pyrene	2000	92.7	1800	ug/Kg	85		0		70 (37)	130 (122)	30 (20)
Butylbenzylphthalate	2000	0	1900	ug/Kg	95		0		70 (44)	130 (135)	30 (20)
3,3-Dichlorobenzidine	2000	0	850	ug/Kg	43	*	2		70 (15)	130 (112)	30 (20)
Benzo(a)anthracene	2000	0	1900	ug/Kg	95		0		70 (53)	130 (119)	30 (20)
Chrysene	2000	0	1800	ug/Kg	90		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2000	0	1800	ug/Kg	90		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2000	0	1800	ug/Kg	90		0		70 (51)	130 (156)	30 (20)
Benzo(b)fluoranthene	2000	0	1800	ug/Kg	90		5		70 (52)	130 (117)	30 (20)
Benzo(k)fluoranthene	2000	0	1900	ug/Kg	95		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2000	0	1900	ug/Kg	95		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2000	0	1900	ug/Kg	95		0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2000	0	2200	ug/Kg	110		0		70 (52)	130 (134)	30 (20)
1,4-Dioxane	2000	0	1400	ug/Kg	70		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2000	0	2100	ug/Kg	105		0		70 (24)	130 (146)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q3032</u>	Analytical Method: <u>8270E</u>
Client: <u>Zuccaro Inc.</u>	DataFile: <u>BG064331.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169593BS	Benzaldehyde	1700	650	ug/Kg	38				20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1200	ug/Kg	71				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1000	ug/Kg	59		*		70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1300	ug/Kg	76				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				70 (63)	130 (95)	
	Hexachloroethane	1700	1400	ug/Kg	82				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1300	ug/Kg	76				70 (59)	130 (99)	
	2-Nitrophenol	1700	1600	ug/Kg	94				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1600	ug/Kg	94				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	920	ug/Kg	54		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1700	ug/Kg	100				70 (53)	130 (98)	
	Caprolactam	1700	1300	ug/Kg	76				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5000	ug/Kg	152				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Acenaphthylene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				70 (61)	130 (104)	
	3-Nitroaniline	1700	1200	ug/Kg	71				70 (28)	130 (100)	
	Acenaphthene	1700	1400	ug/Kg	82				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3400	ug/Kg	103				20 (37)	160 (128)	
	4-Nitrophenol	3300	3100	ug/Kg	94				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q3032</u>	Analytical Method: <u>8270E</u>
Client: <u>Zuccaro Inc.</u>	DataFile: <u>BG064331.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169593BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)		
	Atrazine	1700	1600	ug/Kg	94				70 (47)	130 (152)		
	Pentachlorophenol	3300	3600	ug/Kg	109				20 (67)	160 (105)		
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)		
	Anthracene	1700	1500	ug/Kg	88				70 (61)	130 (105)		
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)		
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)		
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)		
	Pyrene	1700	1500	ug/Kg	88				70 (59)	130 (103)		
	Butylbenzylphthalate	1700	1500	ug/Kg	88				70 (55)	130 (103)		
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65		*		70 (42)	130 (91)		
	Benzo(a)anthracene	1700	1500	ug/Kg	88				70 (60)	130 (102)		
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)		
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)		
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)		
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)		
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)		
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)		
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)		
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)		
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70 (70)	130 (108)		
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)		
	1,4-Dioxane	1700	1000	ug/Kg	59				20 (50)	160 (96)		
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (108)		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169593BL

Lab Name: Alliance

Contract: ZUCC01

Lab Code: ACE

SDG NO.: Q3032

Lab File ID: BG064330.D

Lab Sample ID: PB169593BL

Instrument ID: BNA_G

Date Extracted: 09/08/2025

Matrix: (soil/water) SOIL

Date Analyzed: 09/10/2025

Level: (low/med) LOW

Time Analyzed: 13:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169593BS	PB169593BS	BG064331.D	09/10/2025
SOIL-PILE-1	Q3032-01	BG064309.D	09/08/2025
SOIL-PILE-1MS	Q3032-01MS	BG064310.D	09/08/2025
SOIL-PILE-1MSD	Q3032-01MSD	BG064311.D	09/08/2025
SOIL-PILE-2	Q3032-04	BG064312.D	09/08/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BG064217.D
Instrument ID: BNA_G

Contract: ZUCC01
SDG NO.: Q3032
DFTPP Injection Date: 08/28/2025
DFTPP Injection Time: 10:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	34.7
70	Less than 2.0% of mass 69	0.1 (0.4) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	5.2
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	90.8
443	15.0 - 24.0% of mass 442	17 (18.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG064218.D	08/28/2025	10:51
SSTDICC005	SSTDICC005	BG064219.D	08/28/2025	11:32
SSTDICC010	SSTDICC010	BG064220.D	08/28/2025	12:12
SSTDICC020	SSTDICC020	BG064221.D	08/28/2025	12:53
SSTDICCC040	SSTDICCC040	BG064222.D	08/28/2025	13:33
SSTDICC050	SSTDICC050	BG064223.D	08/28/2025	14:55
SSTDICC060	SSTDICC060	BG064224.D	08/28/2025	15:35
SSTDICC080	SSTDICC080	BG064225.D	08/28/2025	16:16

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BG064300.D
Instrument ID: BNA_G

Contract: ZUCC01
SDG NO.: Q3032
DFTPP Injection Date: 09/08/2025
DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	34
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
365	Greater than 1% of mass 198	5.8
441	Present, but less than mass 443	11
442	Greater than 50% of mass 198	96.9
443	15.0 - 24.0% of mass 442	18 (18.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG064301.D	09/08/2025	10:26
SOIL-PILE-1	Q3032-01	BG064309.D	09/08/2025	16:19
SOIL-PILE-1MS	Q3032-01MS	BG064310.D	09/08/2025	17:00
SOIL-PILE-1MSD	Q3032-01MSD	BG064311.D	09/08/2025	17:41
SOIL-PILE-2	Q3032-04	BG064312.D	09/08/2025	18:22

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BG064328.D
Instrument ID: BNA_G

Contract: ZUCC01
SDG NO.: Q3032
DFTPP Injection Date: 09/10/2025
DFTPP Injection Time: 10:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.1 (0.3) 1
69	Mass 69 relative abundance	33.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	6.3
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	97.9
443	15.0 - 24.0% of mass 442	19.8 (20.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG064329.D	09/10/2025	12:37
PB169593BL	PB169593BL	BG064330.D	09/10/2025	13:18
PB169593BS	PB169593BS	BG064331.D	09/10/2025	13:58

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3032

Client ID : SSTDCCC040

Date Analyzed: 09/08/2025

Lab File ID: BG064301.D

Time Analyzed: 10:26

Instrument ID: BNA_G

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	22540	7.847	98292	10.64	71497	14.48
UPPER LIMIT	45080	8.347	196584	11.138	142994	14.975
LOWER LIMIT	11270	7.347	49146	10.138	35748.5	13.975
EPA SAMPLE NO.						
01 SOIL-PILE-1	30958	7.85	128379	10.64	87714	14.47
02 SOIL-PILE-1MS	27870	7.85	120718	10.64	87528	14.47
03 SOIL-PILE-1MSD	27418	7.85	118432	10.64	85135	14.47
04 SOIL-PILE-2	23608	7.85	100404	10.63	71106	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3032

Client ID: SSTDCCC040

Date Analyzed: 09/08/2025

Lab File ID: BG064301.D

Time Analyzed: 10:26

Instrument ID: BNA_G

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	172801	17.213	186770	21.449	203030	24.451
UPPER LIMIT	345602	17.713	373540	21.949	406060	24.951
LOWER LIMIT	86400.5	16.713	93385	20.949	101515	23.951
EPA SAMPLE NO.						
01 SOIL-PILE-1	216909	17.22	236168	21.45	267983	24.46
02 SOIL-PILE-1MS	206725	17.22	233045	21.45	259001	24.46
03 SOIL-PILE-1MSD	210434	17.22	229459	21.45	254609	24.46
04 SOIL-PILE-2	169678	17.21	196040	21.44	213880	24.46

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3032

Client ID : SSTDCCC040

Date Analyzed: 09/10/2025

Lab File ID: BG064329.D

Time Analyzed: 12:37

Instrument ID: BNA_G

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	27684	7.846	118232	10.63	85027	14.47
UPPER LIMIT	55368	8.346	236464	11.131	170054	14.968
LOWER LIMIT	13842	7.346	59116	10.131	42513.5	13.968
EPA SAMPLE NO.						
01 PB169593BL	23634	7.84	95435	10.63	68731	14.47
02 PB169593BS	23229	7.85	98242	10.63	69463	14.47

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3032

Client ID: SSTDCCC040

Date Analyzed: 09/10/2025

Lab File ID: BG064329.D

Time Analyzed: 12:37

Instrument ID: BNA_G

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	196821	17.211	218500	21.442	236667	24.438
UPPER LIMIT	393642	17.711	437000	21.942	473334	24.938
LOWER LIMIT	98410.5	16.711	109250	20.942	118334	23.938
EPA SAMPLE NO.						
01 PB169593BL	174502	17.21	194396	21.43	213111	24.44
02 PB169593BS	167983	17.21	181826	21.44	201546	24.44

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BL	SDG No.:	Q3032
Lab Sample ID:	PB169593BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064330.D	1	09/08/25 09:30	09/10/25 13:18	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BL	SDG No.:	Q3032
Lab Sample ID:	PB169593BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064330.D	1	09/08/25 09:30	09/10/25 13:18	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BL	SDG No.:	Q3032
Lab Sample ID:	PB169593BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064330.D	1	09/08/25 09:30	09/10/25 13:18	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	135		30 (18) - 130 (112)	90%	SPK: 150
13127-88-3	Phenol-d6	128		30 (15) - 130 (107)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.4		30 (18) - 130 (107)	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.1		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174		30 (10) - 130 (116)	116%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (10) - 130 (105)	100%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	23600	7.843
1146-65-2	Naphthalene-d8	95400	10.633
15067-26-2	Acenaphthene-d10	68700	14.47
1517-22-2	Phenanthrene-d10	175000	17.208
1719-03-5	Chrysene-d12	194000	21.432
1520-96-3	Perylene-d12	213000	24.435

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	400	A		4.96	ug/Kg
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Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BL	SDG No.:	Q3032
Lab Sample ID:	PB169593BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064330.D	1	09/08/25 09:30	09/10/25 13:18	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BS	SDG No.:	Q3032
Lab Sample ID:	PB169593BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064331.D	1	09/08/25 09:30	09/10/25 13:58	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	650		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1200		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1300		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1600		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	920		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1700		25.3	170	ug/Kg
105-60-2	Caprolactam	1300		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5000	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BS	SDG No.:	Q3032
Lab Sample ID:	PB169593BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064331.D	1	09/08/25 09:30	09/10/25 13:58	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1200		46.0	170	ug/Kg
83-32-9	Acenaphthene	1400		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1600		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3600	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1500		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1500		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	
Project:	3 Coal Ave., Morristown, NJ	Date Received:	
Client Sample ID:	PB169593BS	SDG No.:	Q3032
Lab Sample ID:	PB169593BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064331.D	1	09/08/25 09:30	09/10/25 13:58	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1000		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	123		30 (15) - 130 (107)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.3		30 (18) - 130 (107)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.0		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	153		30 (10) - 130 (116)	102%	SPK: 150
1718-51-0	Terphenyl-d14	91.4		30 (10) - 130 (105)	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	23200	7.847			
1146-65-2	Naphthalene-d8	98200	10.632			
15067-26-2	Acenaphthene-d10	69500	14.469			
1517-22-2	Phenanthrene-d10	168000	17.212			
1719-03-5	Chrysene-d12	182000	21.443			
1520-96-3	Perylene-d12	202000	24.439			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1MS	SDG No.:	Q3032
Lab Sample ID:	Q3032-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064310.D	1	09/08/25 09:30	09/08/25 17:00	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		190	400	ug/Kg
108-95-2	Phenol	1800		26.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		29.2	200	ug/Kg
95-57-8	2-Chlorophenol	1800		29.3	200	ug/Kg
95-48-7	2-Methylphenol	1700		35.9	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		45.0	200	ug/Kg
98-86-2	Acetophenone	1900		35.4	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		49.3	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		56.9	96.0	ug/Kg
67-72-1	Hexachloroethane	1800		21.1	200	ug/Kg
98-95-3	Nitrobenzene	1700		22.0	200	ug/Kg
78-59-1	Isophorone	1600		39.4	200	ug/Kg
88-75-5	2-Nitrophenol	1900		69.8	200	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		77.7	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		37.0	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		34.0	200	ug/Kg
91-20-3	Naphthalene	1800		27.2	200	ug/Kg
106-47-8	4-Chloroaniline	590		42.5	200	ug/Kg
87-68-3	Hexachlorobutadiene	2000		30.4	200	ug/Kg
105-60-2	Caprolactam	1500		62.5	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		34.4	200	ug/Kg
91-57-6	2-Methylnaphthalene	1600		30.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5100	E	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		23.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		34.9	200	ug/Kg
92-52-4	1,1-Biphenyl	1900		26.2	200	ug/Kg
91-58-7	2-Chloronaphthalene	1800		27.0	200	ug/Kg
88-74-4	2-Nitroaniline	1800		57.7	200	ug/Kg
131-11-3	Dimethylphthalate	1600		32.5	200	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1MS	SDG No.:	Q3032
Lab Sample ID:	Q3032-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064310.D	1	09/08/25 09:30	09/08/25 17:00	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2000		34.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		40.3	200	ug/Kg
99-09-2	3-Nitroaniline	1000		55.2	200	ug/Kg
83-32-9	Acenaphthene	1700		25.6	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3500	E	270	400	ug/Kg
100-02-7	4-Nitrophenol	3900	E	130	400	ug/Kg
132-64-9	Dibenzofuran	1800		27.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		60.1	200	ug/Kg
84-66-2	Diethylphthalate	1700		34.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		32.0	200	ug/Kg
86-73-7	Fluorene	1800		30.4	200	ug/Kg
100-01-6	4-Nitroaniline	1800		77.0	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		39.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		33.4	200	ug/Kg
118-74-1	Hexachlorobenzene	2000		30.4	200	ug/Kg
1912-24-9	Atrazine	2000		40.8	200	ug/Kg
87-86-5	Pentachlorophenol	4400	E	61.5	400	ug/Kg
85-01-8	Phenanthrene	1900		25.1	200	ug/Kg
120-12-7	Anthracene	1900		40.0	200	ug/Kg
86-74-8	Carbazole	1900		37.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	1900		57.5	200	ug/Kg
206-44-0	Fluoranthene	2000		36.0	200	ug/Kg
129-00-0	Pyrene	1800		43.2	200	ug/Kg
85-68-7	Butylbenzylphthalate	1900		85.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	840		44.0	400	ug/Kg
56-55-3	Benzo(a)anthracene	1900		27.6	200	ug/Kg
218-01-9	Chrysene	1800		23.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		71.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		22.8	200	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1MS	SDG No.:	Q3032
Lab Sample ID:	Q3032-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064310.D	1	09/08/25 09:30	09/08/25 17:00	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		26.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	2000		35.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		34.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		32.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		30.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2200		30.7	200	ug/Kg
123-91-1	1,4-Dioxane	1400		54.2	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		32.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	80%	SPK: 150
13127-88-3	Phenol-d6	112		30 (15) - 130 (107)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.9		30 (18) - 130 (107)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.0		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		30 (10) - 130 (116)	94%	SPK: 150
1718-51-0	Terphenyl-d14	72.5		30 (10) - 130 (105)	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	27900	7.852			
1146-65-2	Naphthalene-d8	121000	10.637			
15067-26-2	Acenaphthene-d10	87500	14.473			
1517-22-2	Phenanthrene-d10	207000	17.217			
1719-03-5	Chrysene-d12	233000	21.453			
1520-96-3	Perylene-d12	259000	24.462			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1MSD	SDG No.:	Q3032
Lab Sample ID:	Q3032-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064311.D	1	09/08/25 09:30	09/08/25 17:41	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		190	400	ug/Kg
108-95-2	Phenol	1700		26.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		29.2	200	ug/Kg
95-57-8	2-Chlorophenol	1800		29.3	200	ug/Kg
95-48-7	2-Methylphenol	1600		35.9	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		45.1	200	ug/Kg
98-86-2	Acetophenone	1900		35.5	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		49.4	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		57.0	96.1	ug/Kg
67-72-1	Hexachloroethane	1800		21.2	200	ug/Kg
98-95-3	Nitrobenzene	1700		22.0	200	ug/Kg
78-59-1	Isophorone	1500		39.4	200	ug/Kg
88-75-5	2-Nitrophenol	1900		69.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		77.9	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		37.0	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		34.0	200	ug/Kg
91-20-3	Naphthalene	1700		27.3	200	ug/Kg
106-47-8	4-Chloroaniline	630		42.5	200	ug/Kg
87-68-3	Hexachlorobutadiene	2100		30.4	200	ug/Kg
105-60-2	Caprolactam	1600		62.6	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		34.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	1600		30.8	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		23.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		35.0	200	ug/Kg
92-52-4	1,1-Biphenyl	2000		26.2	200	ug/Kg
91-58-7	2-Chloronaphthalene	1800		27.0	200	ug/Kg
88-74-4	2-Nitroaniline	1900		57.8	200	ug/Kg
131-11-3	Dimethylphthalate	1700		32.6	200	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1MSD	SDG No.:	Q3032
Lab Sample ID:	Q3032-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064311.D	1	09/08/25 09:30	09/08/25 17:41	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2000		34.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		40.4	200	ug/Kg
99-09-2	3-Nitroaniline	1100		55.3	200	ug/Kg
83-32-9	Acenaphthene	1700		25.6	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3200		280	400	ug/Kg
100-02-7	4-Nitrophenol	3900	E	130	400	ug/Kg
132-64-9	Dibenzofuran	1800		27.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		60.2	200	ug/Kg
84-66-2	Diethylphthalate	1700		34.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		32.1	200	ug/Kg
86-73-7	Fluorene	1800		30.4	200	ug/Kg
100-01-6	4-Nitroaniline	1700		77.2	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		39.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		33.4	200	ug/Kg
118-74-1	Hexachlorobenzene	1900		30.4	200	ug/Kg
1912-24-9	Atrazine	1900		40.9	200	ug/Kg
87-86-5	Pentachlorophenol	4400	E	61.7	400	ug/Kg
85-01-8	Phenanthrene	1800		25.1	200	ug/Kg
120-12-7	Anthracene	1800		40.0	200	ug/Kg
86-74-8	Carbazole	1800		37.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	1800		57.6	200	ug/Kg
206-44-0	Fluoranthene	1900		36.1	200	ug/Kg
129-00-0	Pyrene	1800		43.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	1900		85.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	850		44.1	400	ug/Kg
56-55-3	Benzo(a)anthracene	1900		27.6	200	ug/Kg
218-01-9	Chrysene	1800		23.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		71.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		22.8	200	ug/Kg

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1MSD	SDG No.:	Q3032
Lab Sample ID:	Q3032-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064311.D	1	09/08/25 09:30	09/08/25 17:41	PB169593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		26.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	1900		35.5	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		35.0	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		32.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		30.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2200		30.8	200	ug/Kg
123-91-1	1,4-Dioxane	1400		54.3	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		32.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	116		30 (18) - 130 (112)	78%	SPK: 150
13127-88-3	Phenol-d6	110		30 (15) - 130 (107)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.9		30 (18) - 130 (107)	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.0		30 (20) - 130 (109)	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		30 (10) - 130 (116)	95%	SPK: 150
1718-51-0	Terphenyl-d14	72.7		30 (10) - 130 (105)	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	27400	7.853			
1146-65-2	Naphthalene-d8	118000	10.638			
15067-26-2	Acenaphthene-d10	85100	14.474			
1517-22-2	Phenanthrene-d10	210000	17.218			
1719-03-5	Chrysene-d12	229000	21.454			
1520-96-3	Perylene-d12	255000	24.457			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG082825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Aug 28 17:41:58 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BG064218.D 5 =BG064219.D 10 =BG064220.D 20 =BG064221.D 40 =BG064222.D 50 =BG064223.D 60 =BG064224.D 80 =BG064225.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane		0.574	0.524	0.479	0.387	0.430	0.432	0.426	0.465	14.04
3) Pyridine		1.449	1.375	1.377	1.338	1.315	1.371	1.349	1.368	3.09
4) n-Nitrosodimet...			0.889	0.914	0.922	0.896	0.916	0.892	0.905	1.57
5) S 2-Fluorophenol		1.126	1.094	1.155	1.104	1.075	1.117	1.133	1.115	2.36
6) Aniline		2.030	2.048	2.158	2.125	2.151	2.203	2.110	2.118	2.90
7) S Phenol-d6		1.520	1.484	1.594	1.515	1.522	1.555	1.532	1.532	2.26
8) 2-Chlorophenol		1.318	1.287	1.381	1.418	1.360	1.407	1.364	1.362	3.44
9) Benzaldehyde			1.181	1.115	1.375	1.193	1.439		1.260	11.00
10) C Phenol		1.590	1.627	1.750	1.669	1.739	1.745	1.699	1.688	3.71
11) bis(2-Chloroet...		1.232	1.263	1.323	1.281	1.255	1.270	1.258	1.269	2.22
12) 1,3-Dichlorobe...		1.469	1.480	1.500	1.471	1.394	1.425	1.404	1.449	2.83
13) C 1,4-Dichlorobe...		1.499	1.522	1.479	1.466	1.426	1.447	1.398	1.463	2.91
14) 1,2-Dichlorobe...		1.350	1.458	1.476	1.409	1.365	1.437	1.386	1.412	3.38
15) Benzyl Alcohol			1.297	1.436	1.426	1.432	1.438	1.451	1.413	4.06
16) 2,2'-oxybis(1-...		2.923	2.920	2.979	2.897	2.826	2.931	2.803	2.897	2.14
17) 2-Methylphenol		1.188	1.243	1.349	1.261	1.218	1.305	1.246	1.258	4.28
18) Hexachloroethane		0.555	0.578	0.574	0.583	0.572	0.568	0.567	0.571	1.57
19) P n-Nitroso-di-n...	1.008	1.162	1.160	1.239	1.203	1.211	1.230	1.164	1.172	6.24
20) 3+4-Methylphenols			1.734	1.765	1.702	1.750	1.787	1.753	1.749	1.65
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone		0.533	0.485	0.522	0.502	0.496	0.513	0.492	0.506	3.42
23) S Nitrobenzene-d5		0.341	0.340	0.370	0.365	0.357	0.376	0.360	0.359	3.82
24) Nitrobenzene		0.354	0.348	0.394	0.388	0.377	0.387	0.375	0.375	4.71
25) Isophorone		0.749	0.723	0.787	0.748	0.733	0.754	0.724	0.745	2.97
26) C 2-Nitrophenol		0.133	0.146	0.169	0.171	0.167	0.176	0.171	0.162	9.86
27) 2,4-Dimethylph...		0.275	0.271	0.300	0.297	0.276	0.291	0.279	0.284	4.03
28) bis(2-Chloroet...		0.396	0.401	0.417	0.414	0.390	0.404	0.391	0.402	2.63
29) C 2,4-Dichloroph...		0.289	0.278	0.319	0.310	0.299	0.311	0.294	0.300	4.70
30) 1,2,4-Trichlor...		0.332	0.305	0.327	0.319	0.308	0.317	0.305	0.316	3.42
31) Naphthalene		1.104	1.012	1.077	1.036	1.004	1.041	0.986	1.037	4.01
32) Benzoic acid			0.159	0.206	0.240	0.247	0.257	0.245	0.226	16.35
33) 4-Chloroaniline		0.369	0.379	0.414	0.421	0.411	0.419	0.402	0.402	5.08
34) C Hexachlorobuta...		0.242	0.236	0.236	0.237	0.224	0.236	0.225	0.234	2.93
35) Caprolactam			0.108	0.129	0.123	0.112	0.114	0.110	0.116	7.13
36) C 4-Chloro-3-met...		0.380	0.382	0.402	0.395	0.386	0.396	0.383	0.389	2.16
37) 2-Methylnaphth...		0.768	0.748	0.831	0.788	0.757	0.772	0.734	0.771	4.10
38) 1-Methylnaphth...		0.788	0.755	0.801	0.776	0.736	0.753	0.722	0.761	3.72

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG082825.M

39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.554	0.556	0.597	0.582	0.582	0.592	0.576	0.577	2.86
41) P	Hexachlorocycl...		0.221	0.256	0.275	0.290	0.307	0.296	0.274	11.55
42) S	2,4,6-Tribromo...	0.281	0.256	0.271	0.276	0.261	0.257	0.252	0.265	4.21
43) C	2,4,6-Trichlor...	0.364	0.362	0.400	0.396	0.384	0.399	0.394	0.386	4.23
44)	2,4,5-Trichlor...	0.387	0.386	0.437	0.433	0.426	0.437	0.423	0.418	5.33
45) S	2-Fluorobiphenyl	1.364	1.286	1.358	1.328	1.288	1.304	1.244	1.310	3.27
46)	1,1'-Biphenyl	1.459	1.412	1.488	1.494	1.449	1.471	1.424	1.457	2.13
47)	2-Chloronaphth...	1.090	1.059	1.113	1.113	1.096	1.117	1.078	1.095	1.94
48)	2-Nitroaniline	0.303	0.329	0.372	0.410	0.394	0.408	0.397	0.373	11.15
49)	Acenaphthylene	1.656	1.528	1.675	1.675	1.607	1.610	1.580	1.619	3.36
50)	Dimethylphthalate	1.672	1.476	1.569	1.555	1.462	1.446	1.417	1.514	5.90
51)	2,6-Dinitrotol...	0.238	0.269	0.301	0.322	0.300	0.315	0.305	0.293	10.00
52) C	Acenaphthene	1.169	1.120	1.175	1.178	1.129	1.132	1.095	1.142	2.77
53)	3-Nitroaniline	0.275	0.279	0.316	0.331	0.314	0.322	0.312	0.307	6.93
54) P	2,4-Dinitrophenol		0.096	0.137	0.178	0.184	0.190	0.190	0.163	23.29
55)	Dibenzofuran	1.913	1.756	1.840	1.833	1.762	1.754	1.722	1.797	3.73
56) P	4-Nitrophenol		0.199	0.250	0.286	0.258	0.255	0.263	0.252	11.50
57)	2,4-Dinitrotol...	0.396	0.398	0.462	0.484	0.450	0.457	0.455	0.443	7.55
58)	Fluorene	1.567	1.478	1.549	1.529	1.416	1.398	1.373	1.473	5.30
59)	2,3,4,6-Tetrac...	0.392	0.378	0.419	0.419	0.413	0.404	0.393	0.402	3.91
60)	Diethylphthalate	1.830	1.577	1.665	1.688	1.536	1.530	1.516	1.620	7.06
61)	4-Chlorophenyl...	0.781	0.717	0.759	0.755	0.720	0.716	0.693	0.734	4.21
62)	4-Nitroaniline	0.267	0.275	0.311	0.351	0.332	0.331	0.325	0.313	9.93
63)	Azobenzene	1.490	1.422	1.511	1.503	1.407	1.393	1.381	1.444	3.83
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.085	0.107	0.118	0.121	0.129	0.128	0.115	14.38
66) c	n-Nitrosodiphe...	0.553	0.518	0.571	0.562	0.542	0.564	0.542	0.550	3.23
67)	4-Bromophenyl-...	0.195	0.213	0.218	0.215	0.212	0.219	0.216	0.212	3.78
68)	Hexachlorobenzene	0.241	0.232	0.244	0.226	0.231	0.243	0.235	0.236	2.82
69)	Atrazine	0.240	0.230	0.231	0.240	0.224	0.224	0.220	0.230	3.42
70) C	Pentachlorophenol		0.110	0.135	0.153	0.148	0.156	0.157	0.143	12.65
71)	Phenanthrene	1.103	1.032	1.090	1.084	1.020	1.041	1.015	1.055	3.45
72)	Anthracene	1.124	1.053	1.092	1.111	1.033	1.070	1.028	1.073	3.48
73)	Carbazole	0.986	0.908	0.960	1.002	0.917	0.935	0.909	0.945	4.01
74)	Di-n-butylphth...	1.196	1.089	1.146	1.211	1.096	1.119	1.093	1.136	4.47
75) C	Fluoranthene	1.340	1.211	1.269	1.304	1.178	1.208	1.172	1.240	5.25
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine		0.454	0.525	0.445	0.385	0.357	0.358	0.421	15.74
78)	Pyrene	1.292	1.236	1.286	1.303	1.216	1.269	1.218	1.260	2.88
79) S	Terphenyl-d14	1.009	0.974	1.002	0.981	0.918	0.938	0.888	0.959	4.70
80)	Butylbenzylpht...	0.449	0.440	0.492	0.494	0.474	0.496	0.481	0.475	4.72
81)	Benzo(a)anthra...	1.323	1.238	1.312	1.296	1.248	1.295	1.244	1.280	2.75
82)	3,3'-Dichlorob...		0.401	0.440	0.429	0.410	0.416	0.404	0.417	3.65
83)	Chrysene	1.277	1.197	1.254	1.248	1.204	1.228	1.190	1.228	2.67
84)	Bis(2-ethylhex...	0.713	0.681	0.719	0.732	0.713	0.734	0.703	0.714	2.52
85) c	Di-n-octyl pht...		1.160	1.266	1.263	1.228	1.303	1.239	1.243	3.90

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG082825.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.314	1.302	1.384	1.399	1.348	1.428	1.386	1.366	3.37
88)	Benzo(b)fluora...	1.079	1.081	1.145	1.176	1.104	1.164	1.153	1.129	3.56
89)	Benzo(k)fluora...	1.161	1.127	1.178	1.141	1.131	1.175	1.136	1.150	1.86
90) C	Benzo(a)pyrene	1.019	0.978	1.076	1.084	1.047	1.091	1.055	1.050	3.83
91)	Dibenzo(a,h)an...	1.044	1.032	1.114	1.135	1.087	1.144	1.121	1.097	4.01
92)	Benzo(g,h,i)pe...	1.067	1.029	1.070	1.083	1.042	1.103	1.076	1.067	2.32

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ZUCC01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3032</u>
Instrument ID:	<u>BNA_G</u>	Calibration Date/Time:	<u>09/08/2025 10:26</u>
Lab File ID:	<u>BG064301.D</u>	Init. Calib. Date(s):	<u>08/28/2025 08/28/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>10:51 16:16</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.115	1.121		0.5	
Benzaldehyde	1.260	1.141		-9.4	
Phenol-d6	1.532	1.574		2.7	
Phenol	1.689	1.734		2.7	20.0
bis(2-Chloroethyl)ether	1.269	1.209		-4.7	
2-Chlorophenol	1.362	1.358		-0.3	
2-Methylphenol	1.258	1.193		-5.2	
2,2-oxybis(1-Chloropropane)	2.897	2.304		-20.5	
Acetophenone	0.506	0.528		4.3	
3+4-Methylphenols	1.749	1.670		-4.5	
n-Nitroso-di-n-propylamine	1.172	1.110	0.050	-5.3	
Nitrobenzene-d5	0.359	0.398		10.9	
Hexachloroethane	0.571	0.574		0.5	
Nitrobenzene	0.375	0.399		6.4	
Isophorone	0.745	0.743		-0.3	
2-Nitrophenol	0.162	0.180		11.1	20.0
2,4-Dimethylphenol	0.284	0.307		8.1	
bis(2-Chloroethoxy)methane	0.402	0.400		-0.5	
2,4-Dichlorophenol	0.300	0.336		12.0	20.0
Naphthalene	1.037	1.084		4.5	
4-Chloroaniline	0.402	0.420		4.5	
Hexachlorobutadiene	0.234	0.282		20.5	20.0
Caprolactam	0.116	0.121		4.3	
4-Chloro-3-methylphenol	0.389	0.416		6.9	20.0
2-Methylnaphthalene	0.771	0.815		5.7	
Hexachlorocyclopentadiene	0.274	0.352	0.050	28.5	
2,4,6-Trichlorophenol	0.386	0.429		11.1	20.0
2-Fluorobiphenyl	1.310	1.393		6.3	
2,4,5-Trichlorophenol	0.418	0.474		13.4	
1,1-Biphenyl	1.457	1.533		5.2	
2-Chloronaphthalene	1.095	1.150		5.0	
2-Nitroaniline	0.373	0.422		13.1	
Dimethylphthalate	1.514	1.585		4.7	
Acenaphthylene	1.619	1.705		5.3	
2,6-Dinitrotoluene	0.293	0.342		16.7	
3-Nitroaniline	0.307	0.326		6.2	
Acenaphthene	1.142	1.218		6.7	20.0
2,4-Dinitrophenol	0.163	0.210	0.050	28.8	
4-Nitrophenol	0.252	0.277	0.050	9.9	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ZUCC01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3032</u>
Instrument ID:	<u>BNA_G</u>	Calibration Date/Time:	<u>09/08/2025 10:26</u>
Lab File ID:	<u>BG064301.D</u>	Init. Calib. Date(s):	<u>08/28/2025 08/28/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>10:51 16:16</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.797	1.896		5.5	
2,4-Dinitrotoluene	0.443	0.505		14.0	
Diethylphthalate	1.620	1.752		8.1	
4-Chlorophenyl-phenylether	0.734	0.826		12.5	
Fluorene	1.473	1.594		8.2	
4-Nitroaniline	0.313	0.370		18.2	
4,6-Dinitro-2-methylphenol	0.115	0.143		24.3	
n-Nitrosodiphenylamine	0.550	0.579		5.3	20.0
2,4,6-Tribromophenol	0.265	0.331		24.9	
4-Bromophenyl-phenylether	0.212	0.241		13.7	
Hexachlorobenzene	0.236	0.267		13.1	
Atrazine	0.230	0.258		12.2	
Pentachlorophenol	0.143	0.170		18.9	20.0
Phenanthrene	1.055	1.116		5.8	
Anthracene	1.073	1.126		4.9	
Carbazole	0.945	1.008		6.7	
Di-n-butylphthalate	1.136	1.234		8.6	
Fluoranthene	1.240	1.368		10.3	20.0
Pyrene	1.260	1.321		4.8	
Terphenyl-d14	0.959	1.040		8.4	
Butylbenzylphthalate	0.475	0.505		6.3	
3,3-Dichlorobenzidine	0.417	0.448		7.4	
Benzo (a) anthracene	1.280	1.333		4.1	
Chrysene	1.228	1.274		3.7	
Bis(2-ethylhexyl)phthalate	0.714	0.738		3.4	
Di-n-octyl phthalate	1.243	1.278		2.8	20.0
Benzo (b) fluoranthene	1.129	1.240		9.8	
Benzo (k) fluoranthene	1.150	1.207		5.0	
Benzo (a) pyrene	1.050	1.124		7.0	20.0
Indeno (1,2,3-cd) pyrene	1.366	1.477		8.1	
Dibenzo (a,h) anthracene	1.097	1.190		8.5	
Benzo (g,h,i) perylene	1.067	1.149		7.7	
1,2,4,5-Tetrachlorobenzene	0.577	0.657		13.9	
1,4-Dioxane	0.465	0.468		0.6	20.0
2,3,4,6-Tetrachlorophenol	0.402	0.471		17.2	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ZUCC01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3032</u>
Instrument ID:	<u>BNA_G</u>	Calibration Date/Time:	<u>09/10/2025 12:37</u>
Lab File ID:	<u>BG064329.D</u>	Init. Calib. Date(s):	<u>08/28/2025 08/28/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>10:51 16:16</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.115	1.234		10.7	
Benzaldehyde	1.260	1.223		-2.9	
Phenol-d6	1.532	1.683		9.9	
Phenol	1.689	1.790		6.0	20.0
bis(2-Chloroethyl) ether	1.269	1.235		-2.7	
2-Chlorophenol	1.362	1.528		12.2	
2-Methylphenol	1.258	1.272		1.1	
2,2-oxybis(1-Chloropropane)	2.897	2.328		-19.6	
Acetophenone	0.506	0.560		10.7	
3+4-Methylphenols	1.749	1.728		-1.2	
n-Nitroso-di-n-propylamine	1.172	1.131	0.050	-3.5	
Nitrobenzene-d5	0.359	0.430		19.8	
Hexachloroethane	0.571	0.650		13.8	
Nitrobenzene	0.375	0.426		13.6	
Isophorone	0.745	0.758		1.7	
2-Nitrophenol	0.162	0.210		29.6	20.0
2,4-Dimethylphenol	0.284	0.316		11.3	
bis(2-Chloroethoxy) methane	0.402	0.404		0.5	
2,4-Dichlorophenol	0.300	0.361		20.3	20.0
Naphthalene	1.037	1.173		13.1	
4-Chloroaniline	0.402	0.438		9.0	
Hexachlorobutadiene	0.234	0.317		35.5	20.0
Caprolactam	0.116	0.120		3.4	
4-Chloro-3-methylphenol	0.389	0.430		10.5	20.0
2-Methylnaphthalene	0.771	0.856		11.0	
Hexachlorocyclopentadiene	0.274	0.391	0.050	42.7	
2,4,6-Trichlorophenol	0.386	0.452		17.1	20.0
2-Fluorobiphenyl	1.310	1.487		13.5	
2,4,5-Trichlorophenol	0.418	0.505		20.8	
1,1-Biphenyl	1.457	1.597		9.6	
2-Chloronaphthalene	1.095	1.217		11.1	
2-Nitroaniline	0.373	0.437		17.2	
Dimethylphthalate	1.514	1.633		7.9	
Acenaphthylene	1.619	1.790		10.6	
2,6-Dinitrotoluene	0.293	0.341		16.4	
3-Nitroaniline	0.307	0.339		10.4	
Acenaphthene	1.142	1.211		6.0	20.0
2,4-Dinitrophenol	0.163	0.235	0.050	44.2	
4-Nitrophenol	0.252	0.288	0.050	14.3	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ZUCC01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3032</u>
Instrument ID:	<u>BNA_G</u>	Calibration Date/Time:	<u>09/10/2025 12:37</u>
Lab File ID:	<u>BG064329.D</u>	Init. Calib. Date(s):	<u>08/28/2025 08/28/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>10:51 16:16</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.797	1.958		9.0	
2,4-Dinitrotoluene	0.443	0.519		17.2	
Diethylphthalate	1.620	1.772		9.4	
4-Chlorophenyl-phenylether	0.734	0.835		13.8	
Fluorene	1.473	1.590		7.9	
4-Nitroaniline	0.313	0.376		20.1	
4,6-Dinitro-2-methylphenol	0.115	0.152		32.2	
n-Nitrosodiphenylamine	0.550	0.601		9.3	20.0
2,4,6-Tribromophenol	0.265	0.346		30.6	
4-Bromophenyl-phenylether	0.212	0.258		21.7	
Hexachlorobenzene	0.236	0.280		18.6	
Atrazine	0.230	0.279		21.3	
Pentachlorophenol	0.143	0.196		37.1	20.0
Phenanthrene	1.055	1.171		11.0	
Anthracene	1.073	1.190		10.9	
Carbazole	0.945	1.081		14.4	
Di-n-butylphthalate	1.136	1.332		17.3	
Fluoranthene	1.240	1.457		17.5	20.0
Pyrene	1.260	1.389		10.2	
Terphenyl-d14	0.959	1.105		15.2	
Butylbenzylphthalate	0.475	0.534		12.4	
3,3-Dichlorobenzidine	0.417	0.484		16.1	
Benzo (a) anthracene	1.280	1.438		12.3	
Chrysene	1.228	1.355		10.3	
Bis(2-ethylhexyl)phthalate	0.714	0.778		9.0	
Di-n-octyl phthalate	1.243	1.337		7.6	20.0
Benzo (b) fluoranthene	1.129	1.304		15.5	
Benzo (k) fluoranthene	1.150	1.295		12.6	
Benzo (a) pyrene	1.050	1.204		14.7	20.0
Indeno (1,2,3-cd) pyrene	1.366	1.582		15.8	
Dibenzo (a,h) anthracene	1.097	1.277		16.4	
Benzo (g,h,i) perylene	1.067	1.221		14.4	
1,2,4,5-Tetrachlorobenzene	0.577	0.706		22.4	
1,4-Dioxane	0.465	0.461		-0.9	20.0
2,3,4,6-Tetrachlorophenol	0.402	0.484		20.4	

All other compounds must meet a minimum RRF of 0.010.