



Brownfield Cleanup Site C130153
Former Cibro Petroleum Terminal Site
April, 2019

Table 1
Results for VOCs BY 8260C- Stockpile #1 Grid Areas K13-L12- Test Pits 1 - 4

Sample ID	NY 375-6.8(b)				
		PDC-ST1-1	PDC-ST1-2	PDC-ST1-3	PDC-ST1-4
Sampling Date	Restricted Residential	4/17/2019	4/17/2019	4/17/2019	4/17/2019
Matrix	Soil Cleanup	Soil	Soil	Soil	Soil
Dilution Factor	Criteria	1	1	1	1
Unit	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOCs BY 8260C	Criteria	Result	Result	Result	Result
1,1,1-Trichloroethane	100000	0.93 U	0.91 U	0.91 U	0.97 U
1,1-Dichloroethane	26000	0.93 U	0.91 U	0.91 U	0.97 U
1,1-Dichloroethene	100000	0.93 U	0.91 U	0.91 U	0.97 U
1,2,4-Trimethylbenzene	52000	0.20 J	3.1	4.3	0.58 J
1,2-Dichlorobenzene	100000	0.93 U	0.91 U	0.91 U	0.97 U
1,2-Dichloroethane	3100	0.93 U	0.91 U	0.91 U	0.97 U
1,3,5-Trimethylbenzene	NA	0.93 U	0.68 J	1.2	0.33 J
1,3-Dichlorobenzene	49000	0.93 U	0.91 U	0.91 U	0.97 U
1,4-Dichlorobenzene	13000	0.93 U	0.91 U	0.91 U	0.97 U
1,4-Dioxane	13000	19 U	18 U	18 U	19 U
2-Butanone (MEK)	NA	1.5 J	6.7	4.6	2.3 J
Acetone	100000	38	87	47	47
Benzene	4800	0.93 U	0.31 J	0.91 U	0.63 J
Carbon tetrachloride	2400	0.93 U	0.91 U	0.91 U	0.97 U
Chlorobenzene	100000	0.93 U	0.91 U	0.91 U	0.97 U
Chloroform	49000	0.93 U	0.91 U	0.91 U	0.97 U
cis-1,2-Dichloroethene	100000	0.93 U	0.91 U	0.91 U	0.97 U
Ethylbenzene	41000	0.93 U	0.44 J	0.70 J	0.97 U
Methyl tert-butyl ether	100000	0.93 U	0.91 U	0.91 U	0.97 U
Methylene Chloride	100000	0.31 J	0.24 J	0.49 J	0.26 J
n-Butylbenzene	100000	0.93 U	0.91 U	0.98	0.97 U
N-Propylbenzene	100000	0.93 U	0.56 J	0.83 J	0.97 U
sec-Butylbenzene	100000	0.93 U	0.80 J	0.78 J	0.97 U
tert-Butylbenzene	100000	0.20 J	0.91 U	0.29 J	0.26 J
Tetrachloroethene	19000	0.93 U	0.91 U	0.91 U	0.97 U
Toluene	100000	0.93 U	0.91 U	0.92	1.9
trans-1,2-Dichloroethene	100000	0.93 U	0.91 U	0.91 U	0.97 U
Trichloroethene	21000	0.93 U	0.91 U	0.91 U	0.97 U
Vinyl chloride	900	0.93 U	0.91 U	0.91 U	0.97 U
Xylenes, Total	100000	1.9 U	1.4 J	3.0	0.48 J
Total Conc	NA	40.21	101.23	65.09	53.74
Total Estimated Conc. (TICs)	10000**	374.0	1080.0	897.0	626.0

** Site Specific Soil Cleanup Objective
J : Indicates an estimated value.
U : Analyzed for but not detected.



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Table 2
Results for SVOCs BY 8270D- Stockpile #1 Grid Areas K13-L12 - Test Pits 1 - 4

Sample ID	NY 375-6.8(b)	PDC-ST1-12 Comp		PDC-ST1-34 Comp	
		4/17/2019	4/17/2019	4/17/2019	4/17/2019
Sampling Date	Restricted Residential	4/17/2019		4/17/2019	
Matrix	Soil Cleanup	Soil		Soil	
Dilution Factor	Criteria	1		1	
Units	ug/kg	ug/kg		ug/kg	
SVOCs by 8270D	Criteria	Result		Result	
2-Methylphenol	100000	390 U		400 U	
3 & 4 Methylphenol	NA	390 U		400 U	
Acenaphthene	100000	180 J		140 J	
Acenaphthylene	100000	64 J		80 J	
Anthracene	100000	290 J		150 J	
Benzo[a]anthracene	1000	850		330	
Benzo[a]pyrene	1000	830		300	
Benzo[b]fluoranthene	1000	1200		480	
Benzo[g,h,i]perylene	100000	510		210 J	
Benzo[k]fluoranthene	3900	380		170	
Chrysene	3900	1000		420	
Dibenz(a,h)anthracene	330	150		51	
Dibenzofuran	59000	80 J		68 J	
Fluoranthene	100000	1600		830	
Fluorene	100000	150 J		120 J	
Hexachlorobenzene	1200	39 U		40 U	
Indeno[1,2,3-cd]pyrene	500	560		230	
Naphthalene	100000	84 J		130 J	
Pentachlorophenol	6700	310 U		330 U	
Phenanthrene	100000	1200		570	
Phenol	100000	390 U		400 U	
Pyrene	100000	1900		930	
Total Conc	NA	11028.0		5209.0	
Total Estimated Conc. (TICs)	100000**	25470.0		26580.0	

Highlighted concentrations shown in bold type face exceed SSSCOs

**Site Specific Soil Cleanup Objectives

J : Indicates an estimated value.

U : Analyzed for but not detected.



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Table 3
Results for VOCs BY 8260C- Stockpiles #2 and #3 Grid Areas H12-K14 - Test Pits 1 - 10

Sample ID	NY 375-6.8(b)	PDC-ST2-TP1		PDC-ST2-TP2		PDC-ST2-TP3		PDC-ST2-TP4		PDC-ST2-TP5		PDC-ST3-TP6		PDC-ST3-TP7	
		4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	
Sampling Date	Restricted Residential	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019		
Matrix	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Dilution Factor	Criteria	1	1	1	1	1	1	1	1	1	1	1	1		
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
VOCs BY 8260C	Criteria	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result		
1,1,1-Trichloroethane	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,1-Dichloroethane	26000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,1-Dichloroethene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,2,4-Trimethylbenzene	52000	0.93 U	1.1 U	0.12 J	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,2-Dichlorobenzene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,2-Dichloroethane	3100	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,3,5-Trimethylbenzene	NA	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,3-Dichlorobenzene	49000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,4-Dichlorobenzene	13000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
1,4-Dioxane	13000	19 U	21 U	22 U	19 U	20 U	23 U	19 U	20 U	23 U	19 U	19 U			
2-Butanone (MEK)	NA	4.7 U	1.3 J	14	4.6 U	5.0 U	5.7 U	4.8 U	5.0 U	5.7 U	4.8 U	5.4 U			
Acetone	100000	4.7 U	39	120	8.7	5.0 U	32	5.4	5.0 U	32	5.4	5.4			
Benzene	4800	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Carbon tetrachloride	2400	0.93 U	1.1 U	1.1 U	0.28 J	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Chlorobenzene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Chloroform	49000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
cis-1,2-Dichloroethene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Ethylbenzene	41000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Methyl tert-butyl ether	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Methylene Chloride	100000	0.93 U	1.1 U	1.1 U	0.17 J	0.29 J	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
n-Butylbenzene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
N-Propylbenzene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
sec-Butylbenzene	100000	0.93 U	1.1 U	0.12 J	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
tert-Butylbenzene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Tetrachloroethene	19000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Toluene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
trans-1,2-Dichloroethene	100000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Trichloroethene	21000	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Vinyl chloride	900	0.93 U	1.1 U	1.1 U	0.93 U	1.0 U	1.1 U	0.96 U	1.0 U	1.1 U	0.96 U	0.96 U			
Xylenes, Total	100000	1.9 U	2.1 U	2.2 U	1.9 U	2.0 U	2.3 U	1.9 U	2.0 U	2.3 U	1.9 U	1.9 U			
Total Conc	NA	0.0	40.3	134.24	9.15	0.29	32.0	5.4	0.29	32.0	5.4	5.4			
Total Estimated Conc. (TICs)	10000**	0.0*T	0.0*T	18.1	0.0*T	0.0*T	0.0*T	0.0*T	0.0*T	0.0*T	0.0*T	0.0*T			

**Site Specific Soil Cleanup Objectives
*T There are no TICs reported for the sample
J : Indicates an estimated value.
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Table 3 Continued
Results for VOCs BY 8260C- Stockpiles #2 and #3 Grid Areas H12-K14 - Test Pits 1 - 10

Sample ID	NY 375-6.8(b)	PDC-ST3-TP8		PDC-ST3-TP9		PDC-ST3-TP10	
		4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019
Sampling Date	Restricted Residential	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019
Matrix	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor	Criteria	1	1	1	1	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOCs BY 8260C	Criteria	Result	Result	Result	Result	Result	Result
1,1,1-Trichloroethane	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1-Dichloroethane	26000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1-Dichloroethene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,2,4-Trimethylbenzene	52000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,2-Dichlorobenzene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,2-Dichloroethane	3100	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,3,5-Trimethylbenzene	NA	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,3-Dichlorobenzene	49000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,4-Dichlorobenzene	13000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
1,4-Dioxane	13000	21 U	19 U	25 U	25 U	25 U	25 U
2-Butanone (MEK)	NA	5.3 U	4.7 U	6.4 U	6.4 U	6.4 U	6.4 U
Acetone	100000	5.3 U	16	33	33	33	33
Benzene	4800	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Carbon tetrachloride	2400	1.1 U	0.94 U	0.32 J	0.32 J	0.32 J	0.32 J
Chlorobenzene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Chloroform	49000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
cis-1,2-Dichloroethene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Ethylbenzene	41000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Methyl tert-butyl ether	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Methylene Chloride	100000	1.1 U	0.44 J	1.3 U	1.3 U	1.3 U	1.3 U
n-Butylbenzene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
N-Propylbenzene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
sec-Butylbenzene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
tert-Butylbenzene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Tetrachloroethene	19000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Toluene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
trans-1,2-Dichloroethene	100000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Trichloroethene	21000	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Vinyl chloride	900	1.1 U	0.94 U	1.3 U	1.3 U	1.3 U	1.3 U
Xylenes, Total	100000	2.1 U	1.9 U	2.5 U	2.5 U	2.5 U	2.5 U
Total Conc	NA	0.0	16.44	33.32	33.32	33.32	33.32
Total Estimated Conc. (TICs)	10000**	6.0	863.0	0.0*T	0.0*T	0.0*T	0.0*T

**Site Specific Soil Cleanup Objectives

*T There are no TICs reported for the sample

J : Indicates an estimated value.

U : Analyzed for but not detected.



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Table 4
Results for SVOCs BY 8270D- Stockpiles #2 and #3 Grid Areas H12-K14 - Test Pits 1 - 10

Sample ID	NY 375-6.8(b)	PDC-ST2-COM 1-2		PDC-ST2-COM 3-4		PDC-ST2-COM 5-6		PDC-ST3-COM 7-8		PDC-ST3-COM 9-10	
		4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019
Sampling Date	Restricted Residential	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019	4/24/2019
Matrix	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor	Criteria	1	1	1	1	1	1	1	1	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SVOCs BY 8270D	Criteria	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylphenol	100000	360 U	380 U	370 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U
3 & 4 Methylphenol	NA	360 U	380 U	370 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U
Acenaphthene	100000	90 J	110 J	41 J	120 J	260 J	260 J	260 J	260 J	260 J	260 J
Acenaphthylene	100000	270 J	170 J	110 J	140 J	190 J	190 J	190 J	190 J	190 J	190 J
Anthracene	100000	500	380	150 J	290 J	520	520	520	520	520	520
Benzo[a]anthracene	1000	670	910	330	820	1300	1300	1300	1300	1300	1300
Benzo[a]pyrene	1000	960	960	380	730	1200	1200	1200	1200	1200	1200
Benzo[b]fluoranthene	1000	1200	1400	630	1300	2100	2100	2100	2100	2100	2100
Benzo[g,h,i]perylene	100000	2000	850	420	390	530	530	530	530	530	530
Benzo[k]fluoranthene	3900	410	580	250	490	770	770	770	770	770	770
Chrysene	3900	730	1000	400	910	1300	1300	1300	1300	1300	1300
Dibenz[a,h]anthracene	330	310	130	62	73	120	120	120	120	120	120
Dibenzofuran	59000	37 J	37 J	14 J	52 J	110 J	110 J	110 J	110 J	110 J	110 J
Fluoranthene	100000	1400	1600	850	1900	2600	2600	2600	2600	2600	2600
Fluorene	100000	89 J	94 J	56 J	110 J	230 J	230 J	230 J	230 J	230 J	230 J
Hexachlorobenzene	1200	36 U	38 U	37 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Indeno[1,2,3-cd]pyrene	500	1600	730	380	440	650	650	650	650	650	650
Naphthalene	100000	180 J	190 J	110 J	100 J	240 J	240 J	240 J	240 J	240 J	240 J
Pentachlorophenol	6700	290 U	310 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Phenanthrene	100000	610	710	470	930	1800	1800	1800	1800	1800	1800
Phenol	100000	360 U	380 U	370 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U
Pyrene	100000	1200	1500	640	1600	2400	2400	2400	2400	2400	2400
Total Conc	NA	12256.0	11351.0	5293.0	10395.0	16320.0	16320.0	16320.0	16320.0	16320.0	16320.0
Total Estimated Conc. (TICs)	100000**	33250.0	19560.0	18580.0	33560.0	22300.0	22300.0	22300.0	22300.0	22300.0	22300.0

Highlighted concentrations shown in bold type face exceed SSSCOs

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