Table 4-1
Summary of Analytical Results for VOCs in Post-Excavation Excavation Soil Samples
Interim Remedial Measure - Summer 2004
Central Avenue Works - Former Manufactured Gas Plant
Peekskill, New York

Location ID	SW-01	SW-02	SW-03	SW-04	SW-05	SW-06	SW-07	SW-08	SW-09	SW-10	SB-01	SB-02	
Sample ID	SW01(0-51)070804	SW02(0-51)070804	SW03(0-62)070804	SW04(0-62)070804	SW05(0-57)070804	SW06(40-90)070804	SW07(0-47)070804	SW08(0-51)070804	SW09(0-51)070804	SW10(40-70)070804	SB01(51)070804	SB02(40)070804	NYSDEC Recommended
Sample Date	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	Soil
Depth Interval (feet bgs)	0 - 4.25	0 - 4.25	0 - 5.2	0 - 5.2	0 - 4.75	3.35 - 7.5	0 - 3.92	0 - 4.25	0 - 4.25	3.35 - 5.84	4.25	3.35	Cleanup Objective
Sample Type	Excavation Sidewall Sample										Excavation Bottom Sample		
BTEX (ug/Kg)													
Benzene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	60
Ethylbenzene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	**3,800 J**	**31**	**8.4**	**34**	**7.4**	5.8 U	6.2 U	5,500
Toluene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	**95 J**	**2.8 J**	**0.87 J**	**3.4 J**	6.1 U	5.8 U	6.2 U	1,500
Xylenes (total)	18 U	18 U	17 U	18 U	17 U	**19,000 J**	**150**	**42**	**140**	**34**	17 U	19 U	1,200
Total BTEX (ug/Kg)	ND	ND	ND	ND	ND	**22,895**	**183.8**	**51.27**	**177.4**	**41.4**	ND	ND	NL
Other VOCs (ug/Kg)													
1,1,1-Trichloroethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	800
1,1,2,2-Tetrachloroethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 UJ	6.2 U	600
1,1,2-Trichloro-1,2,2-trifluoroethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
1,1,2-Trichloroethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	100
1,1-Dichloroethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
1,1-Dichloroethene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	400
1,2,4-Trichlorobenzene	5.9 U	5.9 UJ	5.6 UJ	5.8 UJ	6 UJ	300 U	6.3 UJ	6.5 UJ	5.6 UJ	6.1 U	5.8 U	6.2 UJ	NL
1,2-Dibromo-3-chloropropane	5.9 UJ	5.9 UJ	5.6 UJ	5.8 UJ	6 UJ	300 U	6.3 UJ	6.5 UJ	5.6 UJ	6.1 U	5.8 U	6.2 UJ	NL
1,2-Dibromoethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
1,2-Dichlorobenzene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
1,2-Dichloroethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
1,2-Dichloropropane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	300
1,3-Dichlorobenzene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
1,4-Dichlorobenzene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
2-Butanone	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 UJ	6.2 U	300
2-Hexanone	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 UJ	6.2 U	NL
4-Methyl-2-pentanone	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	1,000
Acetone	24 UJ	24 UJ	23 UJ	23 UJ	23 UJ	1,200 U	25 UJ	26 UJ	22 UJ	**8.1 J**	23 UJ	25 UJ	200
Bromodichloromethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Bromoform	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Bromomethane	5.9 R	5.9 R	5.6 R	5.8 R	6 R	300 U	6.3 R	6.5 R	5.6 R	6.1 R	5.8 U	6.2 R	NL
Carbon disulfide	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	2,700
Carbon tetrachloride	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	600
Chlorobenzene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	1,700
Chloroethane	5.9 R	5.9 R	5.6 R	5.8 R	6 R	300 U	6.3 R	6.5 R	5.6 R	6.1 R	5.8 R	6.2 R	1,900
Chloroform	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	300
Chloromethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
cis-1,2-Dichloroethene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
cis-1,3-Dichloropropene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Cyclohexane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Dibromochloromethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Dichlorodifluoromethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Isopropylbenzene	5.9 U	**7.2**	5.6 U	5.8 U	6 U	**1600 J**	**6.2 J**	6.5 U	**5.9**	**2.7 J**	5.8 U	6.2 U	NL
Methyl acetate	5.9 UJ	5.9 UJ	5.6 UJ	5.8 UJ	6 UJ	300 U	6.3 UJ	6.5 U	5.6 UJ	6.1 U	5.8 UJ	6.2 UJ	NL
Methyl tert-butyl ether	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Methylcyclohexane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	**87 J**	**2.6 J**	**1.3 J**	**4.7 J**	6.1 U	5.8 U	6.2 U	NL
Methylene chloride	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	100
Styrene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Tetrachloroethene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	1,400
trans-1,2-Dichloroethene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
trans-1,3-Dichloropropene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Trichloroethene	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Trichlorofluoromethane	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	NL
Vinyl chloride	5.9 U	5.9 U	5.6 U	5.8 U	6 U	300 U	6.3 U	6.5 U	5.6 U	6.1 U	5.8 U	6.2 U	200
Total VOCs (ug/Kg)	ND	**7.2**	ND	ND	ND	**24,582**	**192.6**	**52.57**	**188**	**52.2**	ND	ND	< 10,000

Notes:

U indicates Undetected
J indicates Estimated Concentration
NL indicates the compound is not listed
R indicates the compound result was rejected. See Data Usability Summary Report
MDL is Method Detection Limit
ND indicates Not Detected

Bolded values are detected compounds
Bolded and Shaded values are detected compounds above the NYSDEC Recommended Soil Cleanup Objective.
N/A indicates that the value is not available
VOCs - volatile organic compounds
µg/Kg - micrograms per kilogram

Table 4-1
Summary of Analytical Results for VOCs in Post-Excavation Excavation Soil Samples
Interim Remedial Measure - Summer 2004
Central Avenue Works - Former Manufactured Gas Plant
Peekskill, New York

Location ID	SB-03	SB-04	SB-05	SB-06	SB-07	SD-01	SD-02	SW-11	SW-12	NYSDEC
Sample ID	SB03(51)070804	SB04(51)070804	SB05(72)070804	SB06(57)070804	SB07(62)070804	SD01(30)070804	SD02(75)070804	SW11-070804	SW12-070904	Recommended
Sample Date	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	8-Jul-04	9-Jul-04	Soil
Depth Interval (feet bgs)	4.25	4.25	6	4.75	5.2	2.5	6.25			Cleanup Objective
Sample Type	Excavation Bottom Sample					Discrete Sample				
BTEX (ug/Kg)										
Benzene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	60
Ethylbenzene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	5,500
Toluene	5.8 U	5.4 U	5.6 U	**0.73 J**	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	1,500
Xylenes (total)	17 U	16 U	**3.7 J**	**15 J**	**3.5 J**	18 U	17 U	19 U	28 U	1,200
Total BTEX (ug/Kg)	ND	ND	**3.7**	**15.73**	**3.5**	ND	ND	ND	ND	NL
Other VOCs (ug/Kg)										
1,1,1-Trichloroethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	800
1,1,2,2-Tetrachloroethane	5.8 U	5.4 UJ	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 UJ	600
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
1,1,2-Trichloroethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	100
1,1-Dichloroethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
1,1-Dichloroethene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	400
1,2,4-Trichlorobenzene	5.8 UJ	5.4 U	5.6 UJ	6 UJ	5.6 UJ	6.1 UJ	5.7 U	6.4 UJ	9.2 U	NL
1,2-Dibromo-3-chloropropane	5.8 UJ	5.4 U	5.6 UJ	6 UJ	5.6 UJ	6.1 UJ	5.7 U	6.4 UJ	9.2 U	NL
1,2-Dibromoethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
1,2-Dichlorobenzene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
1,2-Dichloroethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
1,2-Dichloropropane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	300
1,3-Dichlorobenzene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
1,4-Dichlorobenzene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
2-Butanone	5.8 U	5.4 UJ	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 UJ	300
2-Hexanone	5.8 U	5.4 UJ	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 UJ	NL
4-Methyl-2-pentanone	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	1,000
Acetone	23 UJ	22 UJ	23 UJ	24 UJ	22 UJ	24 UJ	23 U	26 UJ	37 UJ	200
Bromodichloromethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Bromoform	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Bromomethane	5.8 R	5.4 U	5.6 R	6 R	5.6 R	6.1 R	5.7 R	6.4 R	9.2 U	NL
Carbon disulfide	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	2,700
Carbon tetrachloride	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	600
Chlorobenzene	5.8 U	5.4 R	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	1,700
Chloroethane	5.8 R	5.4 U	5.6 R	6 R	5.6 R	6.1 R	5.7 R	6.4 R	9.2 R	1,900
Chloroform	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	300
Chloromethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
cis-1,2-Dichloroethene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
cis-1,3-Dichloropropene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Cyclohexane	5.8 U	5.4 U	5.6 U	**0.82 J**	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Dibromochloromethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Dichlorodifluoromethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Isopropylbenzene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Methyl acetate	5.8 UJ	5.4 UJ	5.6 UJ	6 UJ	5.6 UJ	6.1 UJ	5.7 U	6.4 UJ	9.2 UJ	NL
Methyl tert-butyl ether	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Methylcyclohexane	5.8 U	5.4 U	**4.5 J**	**7.5**	**1.2 J**	6.1 U	5.7 U	6.4 U	9.2 U	NL
Methylene chloride	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	100
Styrene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Tetrachloroethene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	1,400
trans-1,2-Dichloroethene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
trans-1,3-Dichloropropene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Trichloroethene	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Trichlorofluoromethane	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	NL
Vinyl chloride	5.8 U	5.4 U	5.6 U	6 U	5.6 U	6.1 U	5.7 U	6.4 U	9.2 U	200
Total VOCs (ug/Kg)	ND	ND	**8.2**	**24.05**	**4.7**	ND	ND	ND	ND	< 10,000

Notes:

U indicates Undetected
J indicates Estimated Concentration
NL indicates the compound is not listed
R indicates the compound result was rejected. See Data Usability Summary Report
MDL is Method Detection Limit
ND indicates Not Detected

Bolded values are detected compounds
Bolded and Shaded values are detected compounds above the NYSDEC Recommended Soil Cleanup Objective.
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VOCs - volatile organic compounds
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