ATTACHMENT 3

Summary of Validated Analytical Results

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Concentrations of Volatile Organic Compounds in Soil Gas
Industri-Plex Site
Woburn, Massachusetts

Parameter	ABC Roofing		Ganglani		Graphique		Pacer		Sacco/A		Sacco/B		Teradyne		Teradyne DUP		Trip Blank		Vining	
	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3
1,1,1-Trichloroethane	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U
1,1,2,2-Tetrachloroethane	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U
1,1,2-Trichloroethane	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U
1,1-Dichloroethane	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
1,1-Dichloroethene	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
1,2,4-Trichlorobenzene	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U
1,2,4-Trimethylbenzene	**2.8**	**14**	**1.8**	**8.8**	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	**0.68**	**3.3**	**0.67**	**3.3**	**0.70**	**3.4**	0.50 U	2.5 U	0.50 U	2.5 U
1,2-Dibromoethane	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U
1,2-Dichlorobenzene	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U
1,2-Dichloroethane	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
1,2-Dichloropropane	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U
1,2-Dichlorotetrafluoroethane	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U	0.50 U	3.5 U
1,3,5-Trimethylbenzene	**1.0**	**4.9**	**0.59**	**2.9**	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U
1,3-Butadiene	0.50 U	1.1 U	0.50 U	1.1 U	**1.1**	**2.4**	**9.1**	**20**	0.50 U	1.1 U	**1.4**	**3.1**	0.50 U	1.1 U	0.50 U	1.1 U	0.50 U	1.1 U	0.50 U	1.1 U
1,3-Dichlorobenzene	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U
1,4-Dichlorobenzene	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U	0.50 U	3.0 U
2-Chlorotoluene	0.50 U	2.6 U	0.50 U	2.6 U	0.50 U	2.6 U	0.50 U	2.6 U	0.50 U	2.6 U	0.50 U	2.6 U	0.50 UJ	2.6 UJ	0.50 UJ	2.6 UJ	0.50 UJ	2.6 UJ	0.50 U	2.6 U
4-Ethyltoluene	**3.2**	**16**	**1.6**	**7.9**	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U	**0.51**	**2.5**	**0.52**	**2.6**	**0.52**	**2.6**	0.50 U	2.5 U	0.50 U	2.5 U
Acetone	**74 J**	**180 J**	**16**	**38**	**8.4**	**20**	**89 J**	**210 J**	5.0 U	12 U	**20**	**48**	**34 J**	**81 J**	**32**	**76**	5.0 U	12 U	**5.0**	**12**
Benzene	**0.70**	**2.2**	0.50 U	1.6 U	**0.76**	**2.4**	**5.5**	**18**	0.50 U	1.6 U	**0.76**	**2.4**	**0.91 J**	**2.9 J**	**0.73**	**2.3**	0.50 U	1.6 U	0.50 U	1.6 U
Bromodichloromethane	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U
Bromomethane	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U	0.50 U	1.9 U
Carbon Disulfide	0.50 U	1.6 U	0.50 U	1.6 U	0.50 U	1.6 U	**1.0**	**3.1**	0.50 U	1.6 U	**1.1**	**3.4**	**2.0 J**	**6.2 J**	**0.98**	**3.1**	0.50 U	1.6 U	0.50 U	1.6 U
Carbon Tetrachloride	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U	0.50 U	3.1 U
Chlorobenzene	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U
Chloroethane	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	**0.58 J**	**1.5 J**	**0.61**	**1.6**	0.50 U	1.3 U	0.50 U	1.3 U
Chloroform	0.50 U	2.4 U	0.50 U	2.4 U	0.50 U	2.4 U	0.50 U	2.4 U	0.50 U	2.4 U	**0.51**	**2.5**	0.50 U	2.4 U	0.50 U	2.4 U	0.50 U	2.4 U	0.50 U	2.4 U
Chloromethane	**0.69**	**1.4**	**0.73**	**1.5**	**0.56**	**1.2**	**0.57**	**1.2**	**0.66**	**1.4**	0.50 U	1.0 U	**0.58 J**	**1.2 J**	**0.69**	**1.4**	0.50 U	1.0 U	**0.65**	**1.3**
cis-1,2-Dichloroethene	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
cis-1,3-Dichloropropene	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U
Cyclohexane	0.50 U	1.7 U	0.50 U	1.7 U	0.50 U	1.7 U	**0.71**	**2.4**	0.50 U	1.7 U	0.50 U	1.7 U	**1.7 J**	**5.9 J**	**1.7**	**5.9**	0.50 U	1.7 U	0.50 U	1.7 U
Dibromochloromethane	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U	0.50 U	4.3 U
Dichlorodifluoromethane	**0.77**	**3.8**	**24**	**120**	**0.82**	**4.1**	**0.77**	**3.8**	**0.75**	**3.7**	**0.81**	**4.0**	**0.59 J**	**2.9 J**	**0.62**	**3.1**	0.50 U	2.5 U	**0.88**	**4.4**
Ethylbenzene	**2.4**	**10**	**2.9**	**13**	0.50 U	2.2 U	**0.97**	**4.2**	0.50 U	2.2 U	**0.61**	**2.6**	**1.3**	**5.6**	**1.1**	**4.8**	0.50 U	2.2 U	0.50 U	2.2 U
Freon TF	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U	0.50 U	3.8 U
Hexachlorobutadiene	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U	0.50 U	5.3 U
Isopropyl Alcohol	5.0 U	12 U	**7.0**	**17**	5.0 U	12 U	5.0 U	12 U	5.0 U	12 U	5.0 U	12 U	**29 J**	**71 J**	**32**	**79**	5.0 U	12 U	5.0 U	12 U
Methyl Butyl Ketone	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
Methyl Ethyl Ketone	0.50 U	1.5 U	0.50 U	1.5 U	0.50 U	1.5 U	**39**	**120**	0.50 U	1.5 U	0.50 U	1.5 U	**2.0 J**	**5.9 J**	**2.0**	**5.9**	0.50 U	1.5 U	0.50 U	1.5 U
Methyl Isobutyl Ketone	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
Methyl tert-Butyl Ether	0.50 U	1.8 U	0.50 U	1.8 U	0.50 U	1.8 U	**1.3**	**4.7**	0.50 U	1.8 U	0.50 U	1.8 U	0.50 U	1.8 U	0.50 U	1.8 U	0.50 U	1.8 U	0.50 U	1.8 U
Methylene Chloride	**2.6**	**9.0**	0.50 U	1.7 U	0.50 U	1.7 U	0.50 U	1.7 U	0.50 U	1.7 U	0.50 U	1.7 U	0.50 UJ	1.7 UJ	**0.51 J**	**1.8 J**	0.50 U	1.7 U	**5.8**	**20**
n-Heptane	**0.85**	**3.5**	0.50 U	2.0 U	0.50 U	2.0 U	**2.7**	**11**	0.50 U	2.0 U	0.50 U	2.0 U	**7.5**	**31**	**8.4**	**34**	0.50 U	2.0 U	0.50 U	2.0 U
n-Hexane	**4.4**	**16**	**0.97**	**3.4**	0.50 U	1.8 U	**3.8**	**13**	0.50 U	1.8 U	**0.57**	**2.0**	**1.8 J**	**6.3 J**	**1.9**	**6.7**	0.50 U	1.8 U	**4.1**	**14**
Styrene	0.50 U	2.1 U	0.50 U	2.1 U	0.50 U	2.1 U	0.50 U	2.1 U	0.50 U	2.1 U	0.50 U	2.1 U	**1.8**	**7.7**	**1.4**	**6.0**	0.50 U	2.1 U	0.50 U	2.1 U
Tetrachloroethene	**0.77**	**5.2**	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U	0.50 U	3.4 U
Tetrahydrofuran	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U
Toluene	**4.4**	**17**	**3.8**	**14**	**1.1**	**4.1**	**6.9**	**26**	0.50 U	1.9 U	**2.1**	**7.9**	**7.1**	**27**	**6.5**	**24**	0.50 U	1.9 U	**0.61**	**2.3**
trans-1,2-Dichloroethene	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U	0.50 U	2.3 U
Trichloroethene	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	0.50 U	2.7 U	**5.1 J**	**27 J**	**4.1**	**22**	0.50 U	2.7 U	0.50 U	2.7 U
Trichlorofluoromethane	0.50 U	2.8 U	**0.51**	**2.9**	0.50 U	2.8 U	0.50 U	2.8 U	0.50 U	2.8 U	0.50 U	2.8 U	**7.9 J**	**44 J**	**8.6**	**48**	0.50 U	2.8 U	**0.77**	**4.3**
Vinyl Chloride	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U
Xylene (m,p)	**7.7**	**33**	**11**	**48**	**0.72**	**3.1**	**2.6**	**11**	0.50 U	2.2 U	**1.8**	**7.8**	**4.7**	**20**	**4.5**	**20**	0.50 U	2.2 U	0.50 U	2.2 U
Xylene (o)	**2.0**	**8.7**	**2.8**	**12**	0.50 U	2.2 U	**0.84**	**3.6**	0.50 U	2.2 U	**0.62**	**2.7**	**1.4**	**6.1**	**1.4**	**6.1**	0.50 U	2.2 U	0.50 U	2.2 U

Notes:
Compounds detected in at least one sample are shown in **bold type**, along with detected concentrations.
DUP = Duplicate sample
ppbv = parts per billion by volume
ug/m^3 = micrograms per cubic meter
U = Compound was analyzed for, but not detected; value shown is laboratory reporting limit.
UJ = Compound was analyzed for, but was not detected; laboratory reporting limit shown is estimated.
J = Concentration shown is estimated.