

EPA Soil Sampling Results for 33 Carey Avenue, Hoosick Falls, NY
May 2016

Sample No.	EPA RMLs ¹	P003-SS001-0003-01	P003-SS001-0312-01	P003-SS001-A-01	P003-SS001-B-01	P003-SS001-C-01
Sampling Date		5/9/2016	5/9/2016	5/9/2016	5/9/2016	5/9/2016
Sampling Depth		0-3	3-12	1-3	8-10	13-15
Sampling Depth Units		inches	inches	feet	feet	feet
Sample Matrix		Soil	Soil	Soil	Soil	Soil
PFCs - Perfluorinated Compounds						
Perfluoropentanoic Acid	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutane Sulfonate	NS	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Perfluorohexanoic Acid	NS	1.2	0.87 U	1.1 U	0.94 U	1.1 U
Perfluoroheptanoic Acid	NS	1.0 U	0.87 U	1.1 U	0.94 U	1.1 U
Perfluorohexane Sulfonate	NS	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Perfluorooctanoic Acid (PFOA)	1,000 [†]	2.4 J	1.9 J	25 R	1.6 J	2.6 J
Perfluorononanoic Acid	NS	0.29 J	0.14 J	0.11 J	0.08 U	0.08 U
Perfluorooctane Sulfonate (PFOS)	1,000 [†]	2.5	1.4	0.83 J	0.06 U	0.06 U
Perfluorodecanoic Acid	NS	0.49 J	0.22 J	0.14 J	0.09 U	0.09 U
Perfluoroundecanoic Acid	NS	0.06 U	0.87 U	1.1 U	0.94 U	1.1 U
Perfluorodecane Sulfonate	NS	0.19 J	0.064 J	0.060 J	0.05 U	0.05 U
Perfluorododecanoic Acid	NS	0.20 J	0.10 J	ND U	0.08 U	0.08 U
PFOA + PFOS Combined	1000 [†]	4.90 J	3.30 J	25.83 J/R	1.66 J	2.66 J
TAL Metals						
Aluminum	77,000	8,600	10,000	8,400	16,000	11,000
Antimony	31	2.0 U	1.8 U	1.7 U	1.9 U	1.8 U
Arsenic	35	4.7	4.5	5.8	1.5	5.8
Barium	15,000	52	50	43	77	66
Beryllium	160	0.42	0.42	0.43	0.50	0.45
Cadmium	71	0.30 U	0.26 U	0.25 U	0.28 U	0.27 U
Calcium	NS	3,500	5,200	64,000	1,200	2,700
Chromium	NS*	17	18	10	18	15
Cobalt	23	8.1	8.3	6.7	12	9.2
Copper	3,100	22	26	23	30	24
Iron	55,000	18,000	20,000	17,000	25,000	22,000
Lead	400	18	17	24	13	26
Magnesium	NS	3,800	5,600	5,700	5,800	4,300
Manganese	1,800	500	650	660	240	410
Nickel	1,500	15	19	14	25	19
Potassium	NS	630	540	570	910	710
Selenium	390	2.0 U	1.8 U	1.7 U	1.9 U	1.8 U
Silver	390	0.51 U	0.44 U	0.42 U	0.47 U	0.45 U
Sodium	NS	100 U	88 U	84 U	95 U	91 U
Thallium	0.78	2.0 U	1.8 U	1.7 U	1.9 U	1.8 U
Vanadium	390	12	14	9.4	15	12
Zinc	23,000	62	56	49	85	69
Mercury	11	0.11	0.11	0.068	0.061	0.073
TAL PCBs - Polychlorinated Biphenyls						
Aroclor 1016	4,100	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1221	20,000	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1232	17,000	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1242	23,000	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1248	23,000	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1254	1,200	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1260	24,000	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1262	NS	17 U	17 U	17 U	17 UJ	17 U
Aroclor 1268	NS	17 U	17 U	17 U	17 UJ	17 U
TAL VOCs - Volatile Organic Compounds						
Dichlorodifluoromethane	87,000	290 U	240 U	240 U	270 U	280 U
Chloromethane	110,000	290 U	240 U	240 U	270 U	280 U
Vinyl Chloride	5,900	290 U	240 U	240 U	270 U	280 U
Bromomethane	6,800	570 UJ	470 UJ	490 UJ	530 UJ	560 UJ
Chloroethane	14,000,000	290 UJ	240 UJ	240 UJ	270 UJ	280 UJ
Trichlorofluoromethane	23,000,000	290 U	240 U	240 U	270 U	280 U
1,1-Dichloroethene	230,000	290 U	240 U	240 U	270 U	280 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	40,000,000	290 U	240 U	240 U	270 U	280 U
Carbon Disulfide	770,000	290 U	240 U	240 U	270 U	280 U
Acetone	61,000,000	570 U	470 U	490 U	530 U	560 U
Methyl Acetate	78,000,000	290 U	240 U	240 U	270 U	280 U
Methylene Chloride	350,000	290 U	240 U	240 U	270 U	280 U
trans-1,2-Dichloroethene	1,600,000	290 U	240 U	240 U	270 U	280 U
Methyl tert-Butyl Ether	4,700,000	290 U	240 U	240 U	270 U	280 U

Notes:

TAL - Target Analyte List

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J - Indicates that the identification of the analyte is acceptable; the reported value is an estimate

R - Indicates that the reported result is rejected and considered unusable

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¹EPA RMLs - U.S. Environmental Protection Agency Removal Management Levels for Residential Soil; chemical-specific, risk-based concentrations that correspond to either a 10⁻⁴ risk level for carcinogens or a hazard quotient (HQ) of 1 for non-carcinogens (published May 2016). *Additionally for PFCs, the EPA RML noted here is a site-specific level for PFOA and PFOS combined. It was developed based on the reference dose used by the EPA Office of Water to establish the lifetime drinking water health advisory of 70 parts per trillion (published May 2016).

For PFCs, all soil analytical results and EPA RMLs are reported in nanograms per gram (ng/g), the same as part

For metals, PCBs, VOCs and SVOCs, all soil analytical results and EPA RMLs are reported in milligrams per kilogram (mg/kg), the same as parts per million (ppm).

*No specified EPA RML for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium

Values in bold red italics equal or exceed the respective EPA RML for Residential Soil.

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Sampling Depth Units		inches	inches	feet	feet	feet
Sample Matrix	EPA RMLs ¹	Soil	Soil	Soil	Soil	Soil
TAL VOCs - Volatile Organic Compounds (Continued)						
1,1-Dichloroethane	360,000	290 U	240 U	240 U	270 U	280 U
cis-1,2-Dichloroethene	160,000	290 U	240 U	240 U	270 U	280 U
2-Butanone	27,000,000	570 U	470 U	490 U	530 U	560 U
Bromochloromethane	150,000	290 U	240 U	240 U	270 U	280 U
Chloroform	32,000	290 U	240 U	240 U	270 U	280 U
1,1,1-Trichloroethane	8,100,000	290 U	240 U	240 U	270 U	280 U
Cyclohexane	6,500,000	290 U	240 U	240 U	270 U	280 U
Carbon Tetrachloride	65,000	290 U	240 U	240 U	270 U	280 U
Benzene	82,000	290 U	240 U	240 U	270 U	280 U
1,2-Dichloroethane	31,000	290 U	240 U	240 U	270 U	280 U
Trichloroethene	4,100	290 U	240 U	240 U	270 U	280 U
1,2-Dichloropropane	16,000	290 U	240 U	240 U	270 U	280 U
Bromodichloromethane	29,000	290 U	240 U	240 U	270 U	280 U
cis-1,3-Dichloropropene**	72,000	290 U	240 U	240 U	270 U	280 U
4-Methyl-2-Pentanone	33,000,000	570 U	470 U	490 U	530 U	560 U
Toluene	4,900,000	290 U	240 U	240 U	270 U	280 U
trans-1,3-Dichloropropene**	72,000	290 U	240 U	240 U	270 U	280 U
1,1,2-Trichloroethane	1,500	290 U	240 U	240 U	270 U	280 U
Tetrachloroethene	81,000	290 U	240 U	240 U	270 U	280 U
Methylcyclohexane	NS	290 U	240 U	240 U	270 U	280 U
Dibromochloromethane	830,000	290 U	240 U	240 U	270 U	280 U
1,2-Dibromoethane	3,600	290 U	240 U	240 U	270 U	280 U
2-Hexanone	200,000	570 U	470 U	490 U	530 U	560 U
Chlorobenzene	280,000	290 U	240 U	240 U	270 U	280 U
Ethylbenzene	580,000	290 U	240 U	240 U	270 U	280 U
m/p-Xylene***	NS	290 U	240 U	240 U	270 U	280 U
o-Xylene	650,000	290 U	240 U	240 U	270 U	280 U
Styrene	6,000,000	290 U	240 U	240 U	270 U	280 U
Bromoform	1,600,000	290 U	240 U	240 U	270 U	280 U
Isopropylbenzene	1,900,000	290 U	240 U	240 U	270 U	280 U
1,1,2,2-Tetrachloroethane	60,000	290 U	240 U	240 U	270 U	280 U
1,3-Dichlorobenzene	NS	290 U	240 U	240 U	270 U	280 U
1,4-Dichlorobenzene	260,000	290 U	240 U	240 U	270 U	280 U
1,2-Dichlorobenzene	1,800,000	290 U	240 U	240 U	270 U	280 U
1,2-Dibromo-3-Chloropropane	530	290 U	240 U	240 U	270 U	280 U
1,2,4-Trichlorobenzene	58,000	290 U	240 U	240 U	270 U	280 U
1,2,3-Trichlorobenzene	63,000	290 U	240 U	240 U	270 U	280 U
TAL SVOCs - Semi-Volatile Organic Compounds						
1,4-Dioxane	530,000	67 UJ	67 UJ	67 UJ	67 UJ	67 UJ
Benzaldehyde	7,800,000	92 J	330 U	330 U	330 U	330 U
Phenol	19,000,000	2,300	330 U	330 U	52 J	330 U
Bis(2-Chloroethyl)ether	23,000	330 U	330 U	330 U	330 U	330 U
2-Chlorophenol	390,000	170 U	170 U	170 U	170 U	170 U
2-Methylphenol	3,200,000	330 U	330 U	330 U	330 U	330 U
2,2'-oxybis(1-chloropropane)	3,100,000	330 U	330 U	330 U	330 U	330 U
Acetophenone	7,800,000	900	92 J	66 J	60 J	61 J
4-Methylphenol	6,300,000	330 U	330 U	330 U	330 U	330 U
N-Nitroso-di-n-propylamine	7,800	170 U	170 U	170 U	170 U	170 U
Hexachloroethane	45,000	170 U	170 U	170 U	170 U	170 U
Nitrobenzene	130,000	170 U	170 U	170 U	170 U	170 U
Isophorone	13,000,000	170 U	170 U	170 U	170 U	170 U
2-Nitrophenol	NS	170 U	170 U	170 U	170 U	170 U
2,4-Dimethylphenol	1,300,000	170 U	170 U	170 U	170 U	170 U
Bis(2-Chloroethoxy)methane	190,000	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol	190,000	170 U	170 U	170 U	170 U	170 U
Naphthalene	130,000	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline	250,000	330 UJ	330 UJ	330 U	330 U	330 UJ
Hexachlorobutadiene	78,000	170 U	170 U	170 U	170 U	170 U
Caprolactam	31,000,000	330 U	330 U	330 U	330 U	330 U
4-Chloro-3-methylphenol	6,300,000	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene	240,000	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	1,800	330 U	330 U	330 U	330 U	330 U

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** EPA RML based on the value for 1,3-dichloropropene

*** EPA RMLs for m-xylene and p-xylene are 550,000 µg/kg and 560,000 µg/kg, respectively

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Sample Matrix	EPA RMLs ¹	Soil	Soil	Soil	Soil	Soil
TAL SVOCs - Semi-Volatile Organic Compounds (Continued)						
2,4,6-Trichlorophenol	63,000	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	6,300,000	170 U	170 U	170 U	170 U	170 U
1,1'-Biphenyl	47,000	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene	4,800,000	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline	630,000	170 U	170 U	170 U	170 U	170 U
Dimethylphthalate	NS	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene	19,000	170 U	170 U	170 U	170 U	170 U
Acenaphthylene	NS	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline	NS	330 U	330 U	330 U	330 U	330 U
Acenaphthene	3,600,000	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol	130,000	330 U	330 U	330 U	330 U	330 U
4-Nitrophenol	NS	330 U	330 U	330 U	330 U	330 U
Dibenzofuran	73,000	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrotoluene	130,000	170 U	170 U	170 U	170 U	170 U
Diethylphthalate	51,000,000	170 U	170 U	170 U	170 U	170 U
Fluorene	2,400,000	170 U	170 U	170 U	170 U	170 U
4-Chlorophenyl-phenylether	NS	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline	250,000	330 U	330 U	330 U	330 U	330 U
4,6-Dinitro-2-methylphenol	5,100	330 U	330 U	330 U	330 U	330 U
N-Nitrosodiphenylamine ¹	11,000,000	170 U	170 U	170 U	170 U	170 U
1,2,4,5-Tetrachlorobenzene	23,000	170 U	170 U	170 U	170 U	170 U
4-Bromophenyl-phenylether	NS	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene	21,000	170 U	170 U	170 U	170 U	170 U
Atrazine	240,000	330 U	330 U	330 U	330 U	330 U
Pentachlorophenol	100,000	330 U	330 U	330 U	330 U	330 U
Phenanthrene	NS	170 U	170 U	170 U	170 U	170 U
Anthracene	18,000	170 U	170 U	170 U	170 U	170 U
Carbazole	NS	330 U	330 U	330 U	330 U	330 U
Di-n-butylphthalate	6,300	170 U	170 U	170 U	170 U	170 U
Fluoranthene	2,400,000	330 U	330 U	330 U	330 U	330 U
Pyrene	1,800,000	170 U	170 U	170 U	170 U	170 U
Butylbenzylphthalate	13,000,000	170 U	170 U	47 J	61 J	170 U
3,3'-Dichlorobenzidine	120,000	330 U	330 U	330 U	330 U	330 U
Benzo(a)anthracene	16,000	170 U	170 U	170 U	170 U	170 U
Chrysene	1,600,000	170 U	170 U	170 U	170 U	170 U
bis(2-ethylhexyl)phthalate	1,300,000	170 U	170 U	170 U	170 U	170 U
Di-n-octylphthalate	630,000	330 U	330 U	330 U	330 U	330 U
Benzo(b)fluoranthene	16,000	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene	160,000	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene	1,600	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene	16,000	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene	1,600	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene	NS	170 U	170 U	170 U	170 U	170 U
2,3,4,6-Tetrachlorophenol	1,900,000	170 U	170 U	170 U	170 U	170 U

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