Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the *Environmental Protection Act*

Ministry of the Environment
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INTRODUCTION

This document, consisting of Tables 1 to 9, sets out the prescribed contaminants and the applicable site condition standards for those contaminants for the purposes of Part XV.1 of the *Environmental Protection Act*. The Tables can be summarized as follows:

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HOW TO READ THESE TABLES

Tables 1 to 9 set out prescribed contaminants by listing contaminants in the column of rows that has the heading row entitled “Contaminant”. Tables 1 to 9 set out prescribed standards for these contaminants by indicating in the appropriate locations the maximum concentrations of the contaminants in soil, ground water and sediment, which are expressed in a number that is to be read as µg/g dry weight for soil and sediment, and as µg/L for ground water, unless otherwise indicated in the table. Within Tables 2 – 7 separate values for each of the two soil texture groups are listed. The value for coarse soils is the one that is not bracketed, whereas the value for medium and fine textured soils is given within brackets. Where there are no bracketed values, the value applies to both soil groups.

The standard for a property that is applicable for a type of property use in a particular medium, can be found in the row named for the contaminant and in the column that has the heading row that indicates the applicable medium and the type of property use for which the record of site condition is filed.

A contaminant that is listed and for which the abbreviation “N/V” appears in the cell, instead of a number representing a maximum concentration, is a contaminant for which a standard is not prescribed. The abbreviation “N/V” means “no value”.

A contaminant that is listed and for which the abbreviation “N/A” appears in the cell, instead of a number representing a maximum concentration, is a contaminant for which a standard is not prescribed because no standard is required. The abbreviation “N/A” means “not applicable”.

Notes on Table 1

Table 1 sets out the “Full Depth Background Site Condition Standards”. The soil standards in Table 1 are background values derived from the Ontario Typical Range values for

the land uses indicated and are considered representative of upper limits of typical province-wide background concentrations in soils that are not contaminated by point sources.

The groundwater standards in Table 1 were derived from the Provincial Groundwater Monitoring Information System (PGMIS) from 20002 to 2007 and from groundwater well surveillance data (DWSP) from 1997 -2002. For parameters where sufficient data was not available values have been derived from the most recent effects-based water criteria including Provincial Water Quality Objectives and the Ontario Drinking Water Quality Standards as upper limits and Method Detection Limit as a lower limit. These values are considered to be generally achievable in site situations typical of background while providing a level of human health and ecosystem protection consistent with background conditions and protective of sensitive ecosystems.

The sediment standards in Table 1 are the same standards (adverse effects-based) developed for the Table 8 and 9 for properties within 30 m of a water body. These values are within the range of measured background sediment where data is available in the 1993 Sediment Guidelines and are considered to provide a level of human health and ecosystem protection consistent with background and protective of sensitive ecosystems.

Notes on Table 6, 7, 8, and 9

Tables 6 and 7 are to be used in situations where there is less than 2 m of overburden above bedrock. They can also be used in situations where the QP is not satisfied that Tables 2 and 3 are suitable due to shallow depth to groundwater. Tables 6 and 7 were derived on the same basis as Tables 2 and 3 except that the calculation for dilution occurring in the aquifer is removed, and biodegradation between the groundwater and the basement is assumed to not be occurring.

Tables 8 and 9 are to be used where all or part of a property lies within 30 m of a surface water body. These standards were derived with the objective of protecting surface water bodies from movement of soil directly into surface water to become sediment, and assuming that there is no dilution in the groundwater for the aquatic protection pathway.

Additional notes

1) For all tables, the methyl naphthalene soil standard is applicable to both 1-methyl naphthalene and 2 –methyl naphthalene, with the provision that if both are detected the sum of the two concentrations cannot exceed the standard.

2) There are two boron parameters in the tables, one for a hot water extract (HWS) that is designed for protection of plants and soil invertebrates, and one for a total (mixed strong acid digest). The HWS boron can be used by itself for all surface soils, as plants are the most sensitive receptor for boron. For subsurface soils the total boron standard can be used by itself, since plant protection for soils below the root zone is not a significant concern.

3) Conditions can exist at a site for which the assumptions used to develop the generic criteria may not be valid. The QP must ascertain that the site conditions are appropriate for use of the generic standards such that he/she can be comfortable with signing the certifications on the RSC. To assist the QP in recognizing the types of conditions that may be important in this respect the following examples are given:

   a) if the contaminated zone has a volume larger than 340m3 or a source length or width greater than 13 metres then all pathways which employ source depletion or groundwater

transport (Soil to Nose, S-GW1, S-IA, S-GW3, GW2 and GW3 components of the standards) may be affected.

b) if a high permeability zone is present in the vadose zone which provides a direct preferential pathway to the building then the soil properties assumed in the generic J&E modelling to determine the S-IA and GW2 components of the standard may change.

c) if the annual average of the capillary fringe of the water table is < 0.8 metres from the outer edge of the gravel crush of the building foundation, then the 10 x biodegradation factor assumed in the GW2 pathway may be non-conservative.

d) if the average Organic Carbon content (foc) of soil above the water table is < 0.002 then more contaminant may be in the water and gas phases than assumed in the generic standards.

f) if there is a continuous source of the contaminant then the pathways which assume a depleting source (i.e., S-IA, S-GW1, and Soil to Nose) might be non-conservative.

g) if there is a surface water body that could be affected by the property from contaminant migration via groundwater, and the surface water has total hardness less than 70 mg/L (as $CaCO_3$) and/or has pH less than 6.7, the aquatic protection values for some metals and pentachlorophenol may be non-conservative. In such cases, the QP may need to consider whether a site-specific estimate of hardness and pH resulting from mixing of groundwater and surface water is needed to estimate an appropriate aquatic protection value for this site.

The existence of any of the above conditions does not necessarily indicate that the generic criteria are not valid for a given site. There are many interrelated parameters and factors that were used in the development of the generic standards, and in many cases one factor, such as any of those above, can be outweighed by differences in other factors in a manner that, overall, there is sufficient natural protection provided by the site. In addition, it must also be considered that the component that drives the standard may not be affected by the particular limiting condition described above (e.g. a terrestrial ecological driver, but there are high permeable zones in the vadose zone). The QP should consider these types of factors in assessing the appropriateness of the use of the generic standards.

TABLE 1: Full Depth Background Site Condition Standards

Table 1	Soil (other than sediment) µg/g		Ground Water (µg/L)	Sediment (µg/g)
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All Types of Property Uses	All Types of Property Uses
Acenaphthene	0.05	0.072	4.1	NV
Acenaphthylene	0.093	0.093	1	NV
Acetone	0.5	0.5	2700	NV
Aldrin	0.05	0.05	0.01	0.002
Anthracene	0.05	0.16	0.1	0.22
Antimony	1	1.3	1.5	NV
Arsenic	11	18	13	6
Barium	210	220	610	NV
Benzene	0.02	0.02	0.5	NV
Benz[a]anthracene	0.095	0.36	0.2	0.32
Benzo[a]pyrene	0.05	0.3	0.01	0.37
Benzo[b]fluoranthene	0.3	0.47	0.1	NV
Benzo[ghi]perylene	0.2	0.68	0.2	0.17
Benzo[k]fluoranthene	0.05	0.48	0.1	0.24
Beryllium	2.5	2.5	0.5	NV
Biphenyl 1,1'-	0.05	0.05	0.5	NV
Bis(2-chloroethyl)ether	0.5	0.5	5	NV
Bis(2-chloroisopropyl)ether	0.5	0.5	120	NV
Bis(2-ethylhexyl)phthalate	5	5	10	NV
Boron (Hot Water Soluble)*	NA	NA	NA	NA
Boron (total)	36	36	1700	NV
Bromodichloromethane	0.05	0.05	2	NV
Bromoform	0.05	0.05	5	NV
Bromomethane	0.05	0.05	0.89	NV
Cadmium	1	1.2	0.5	0.6
Carbon Tetrachloride	0.05	0.05	0.2	NV
Chlordane	0.05	0.05	0.06	0.007
Chloroaniline p-	0.5	0.5	10	NV
Chlorobenzene	0.05	0.05	0.5	NV
Chloroform	0.05	0.05	2	NV
Chlorophenol, 2-	0.1	0.1	8.9	NV
Chromium Total	67	70	11	26
Chromium VI	0.66	0.66	25	NV
Chrysene	0.18	2.8	0.1	0.34
Cobalt	19	21	3.8	50
Copper	62	92	5	16
Cyanide (CN-)	0.051	0.051	5	0.1
Dibenz[a h]anthracene	0.1	0.1	0.2	0.06
Dibromochloromethane	0.05	0.05	2	NV
Dichlorobenzene, 1,2-	0.05	0.05	0.5	NV
Dichlorobenzene, 1,3-	0.05	0.05	0.5	NV
Dichlorobenzene, 1,4-	0.05	0.05	0.5	NV
Dichlorobenzidine, 3,3'-	1	1	0.5	NV
Dichlorodifluoromethane	0.05	0.05	590	NV
DDD	0.05	0.05	1.8	0.008
DDE	0.05	0.05	10	0.005
DDT	0.078	1.4	0.05	0.007
Dichloroethane, 1,1-	0.05	0.05	0.5	NV
Dichloroethane, 1,2-	0.05	0.05	0.5	NV
Dichloroethylene, 1,1-	0.05	0.05	0.5	NV
Dichloroethylene, 1,2-cis-	0.05	0.05	1.6	NV
Dichloroethylene, 1,2-trans-	0.05	0.05	1.6	NV
Dichlorophenol, 2,4-	0.1	0.1	20	NV
Dichloropropane, 1,2-	0.05	0.05	0.5	NV
Dichloropropene,1,3-	0.05	0.05	0.5	NV
Dieldrin	0.05	0.05	0.05	0.002

Table 1	Soil (other than sediment) µg/g		Ground Water (µg/L)	Sediment (µg/g)
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All Types of Property Uses	All Types of Property Uses
Diethyl Phthalate	0.5	0.5	30	NV
Dimethylphthalate	0.5	0.5	30	NV
Dimethylphenol, 2,4-	0.2	0.2	10	NV
Dinitrophenol, 2,4-	2	2	10	NV
Dinitrotoluene, 2,4 & 2,6-	0.5	0.5	5	NV
Dioxane, 1,4	0.2	0.2	50	NV
Dioxin/Furan (TEQ)	0.000007	0.000007	0.000015	NV
Endosulfan	0.04	0.04	0.05	NV
Endrin	0.04	0.04	0.05	0.003
Ethylbenzene	0.05	0.05	0.5	NV
Ethylene dibromide	0.05	0.05	0.2	NV
Fluoranthene	0.24	0.56	0.4	0.75
Fluorene	0.05	0.12	120	0.19
Heptachlor	0.05	0.05	0.01	NV
Heptachlor Epoxide	0.05	0.05	0.01	0.005
Hexachlorobenzene	0.01	0.01	0.01	0.02
Hexachlorobutadiene	0.01	0.01	0.01	NV
Hexachlorocyclohexane Gamma-	0.01	0.01	0.01	NV
Hexachloroethane	0.01	0.01	0.01	NV
Hexane (n)	0.05	0.05	5	NV
Indeno[1 2 3-cd]pyrene	0.11	0.23	0.2	0.2
Lead	45	120	1.9	31
Mercury	0.16	0.27	0.1	0.2
Methoxychlor	0.05	0.05	0.05	NV
Methyl Ethyl Ketone	0.5	0.5	400	NV
Methyl Isobutyl Ketone	0.5	0.5	640	NV
Methyl Mercury **	NV	NV	0.12	NV
Methyl tert-Butyl Ether (MTBE)	0.05	0.05	15	NV
Methylene Chloride	0.05	0.05	5	NV
Methlynaphthalene, 2-(1-) ***	0.05	0.59	2	NV
Molybdenum	2	2	23	NV
Naphthalene	0.05	0.09	7	NV
Nickel	37	82	14	16
Pentachlorophenol	0.1	0.1	0.5	NV
Petroleum Hydrocarbons F1****	17	25	420	NV
Petroleum Hydrocarbons F2	10	10	150	NV
Petroleum Hydrocarbons F3	240	240	500	NV
Petroleum Hydrocarbons F4	120	120	500	NV
Phenanthrene	0.19	0.69	0.1	0.56
Phenol	0.5	0.5	5	NV
Polychlorinated Biphenyls	0.3	0.3	0.2	0.07
Pyrene	0.19	1	0.2	0.49
Selenium	1.2	1.5	5	NV
Silver	0.5	0.5	0.3	0.5
Styrene	0.05	0.05	0.5	NV
Tetrachloroethane, 1,1,1,2-	0.05	0.05	1.1	NV
Tetrachloroethane, 1,1,2,2-	0.05	0.05	0.5	NV
Tetrachloroethylene	0.05	0.05	0.5	NV
Thallium	1	1	0.5	NV
Toluene	0.2	0.2	0.8	NV
Trichlorobenzene, 1,2,4-	0.05	0.05	0.5	NV
Trichloroethane, 1,1,1-	0.05	0.05	0.5	NV
Trichloroethane, 1,1,2-	0.05	0.05	0.5	NV
Trichloroethylene	0.05	0.05	0.5	NV
Trichlorofluoromethane	0.05	0.25	150	NV
Trichlorophenol, 2,4,5-	0.1	0.1	0.2	NV
Trichlorophenol, 2,4,6-	0.1	0.1	0.2	NV
Uranium	1.9	2.5	8.9	NV
Vanadium	86	86	3.9	NV
Vinyl Chloride	0.02	0.02	0.5	NV

Table 1	Soil (other than sediment) µg/g		Ground Water (µg/L)	Sediment (µg/g)
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All Types of Property Uses	All Types of Property Uses
Xylene Mixture	0.05	0.05	72	NV
Zinc	290	290	160	120
Electrical Conductivity (mS/cm)	0.47	0.57	NA	NA
Chloride	NA	NA	790000	NV
Sodium Adsorption Ratio	1	2.4	NA	NA
Sodium	NA	NA	490000	NV

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition

Table 2	Soil Standards (other than sediment) µg/g			Potable Ground Water µg/L
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Acenaphthene	(29) 7.9	(29) 7.9	(29) 21	4.1
Acenaphthylene	(0.17) 0.15	(0.17) 0.15	(0.17) 0.15	1
Acetone	(28) 16	(28) 16	(28) 16	2700
Aldrin	0.05	0.05	(0.11) 0.088	0.35
Anthracene	(0.74) 0.67	(0.74) 0.67	(0.74) 0.67	2.4
Antimony	7.5	7.5	(50) 40	6
Arsenic	11	18	18	25
Barium	390	390	670	1000
Benzene	(0.17) 0.21	(0.17) 0.21	(0.4) 0.32	5
Benz[a]anthracene	(0.63) 0.5	(0.63) 0.5	0.96	1
Benzo[a]pyrene	0.078	0.3	0.3	0.01
Benzo[b]fluoranthene	0.78	0.78	0.96	0.1
Benzo[ghi]perylene	(7.8) 6.6	(7.8) 6.6	9.6	0.2
Benzo[k]fluoranthene	0.78	0.78	0.96	0.1
Beryllium	(5) 4	(5) 4	(10) 8	4
Biphenyl 1,1'-	(1.1) 0.31	(1.1) 0.31	(210) 52	0.5
Bis(2-chloroethyl)ether	0.5	0.5	0.5	5
Bis(2-chloroisopropyl)ether	(1.8) 0.67	(1.8) 0.67	(13) 11	120
Bis(2-ethylhexyl)phthalate	5	5	(35) 28	10
Boron (Hot Water Soluble)*	1.5	1.5	2	NA
Boron (total)	120	120	120	5000
Bromodichloromethane	(1.9) 1.5	(1.9) 1.5	(1.9) 1.5	16
Bromoform	(0.26) 0.27	(0.26) 0.27	(1.7) 0.61	25
Bromomethane	0.05	0.05	0.05	0.89
Cadmium	1	1.2	1.9	2.7
Carbon Tetrachloride	(0.12) 0.05	(0.12) 0.05	(0.71) 0.21	(5) 0.79
Chlordane	0.05	0.05	0.05	7
Chloroaniline p-	(0.53) 0.5	(0.53) 0.5	(0.53) 0.5	10
Chlorobenzene	(2.7) 2.4	(2.7) 2.4	(2.7) 2.4	30
Chloroform	(0.18) 0.05	(0.18) 0.05	(0.18) 0.47	(22) 2.4
Chlorophenol, 2-	(2) 1.6	(2) 1.6	(3.9) 3.1	8.9
Chromium Total	160	160	160	50
Chromium VI	(10) 8	(10) 8	(10) 8	25
Chrysene	(7.8) 7	(7.8) 7	9.6	0.1
Cobalt	22	22	(100) 80	3.8
Copper	(180) 140	(180) 140	(300) 230	87
Cyanide (CN-)	0.051	0.051	0.051	66
Dibenz[a h]anthracene	0.1	0.1	0.1	0.2
Dibromochloromethane	(2.9) 2.3	(2.9) 2.3	(2.9) 2.3	25
Dichlorobenzene, 1,2-	(1.7) 1.2	(1.7) 1.2	(1.7) 1.2	3
Dichlorobenzene, 1,3-	(6) 4.8	(6) 4.8	(12) 9.6	59
Dichlorobenzene, 1,4-	(0.097) 0.083	(0.097) 0.083	(0.57) 0.2	1
Dichlorobenzidine, 3,3'-	1	1	1	0.5
Dichlorodifluoromethane	(25) 16	(25) 16	(25) 16	590
DDD	3.3	3.3	4.6	10
DDE	(0.33) 0.26	(0.33) 0.26	(0.65) 0.52	10
DDT	0.078	1.4	1.4	2.8
Dichloroethane, 1,1-	(0.6) 0.47	(0.6) 0.47	(0.6) 0.47	5
Dichloroethane, 1,2-	0.05	0.05	0.05	(5) 1.6
Dichloroethylene, 1,1-	0.05	0.05	(0.48) 0.064	(14) 1.6
Dichloroethylene, 1,2-cis-	(2.5) 1.9	(2.5) 1.9	(2.5) 1.9	(17) 1.6
Dichloroethylene, 1,2-trans-	(0.75) 0.084	(0.75) 0.084	(2.5) 1.3	(17) 1.6
Dichlorophenol, 2,4-	(0.27) 0.19	(0.27) 0.19	(0.27) 0.19	20
Dichloropropane, 1,2-	(0.085) 0.05	(0.085) 0.05	(0.68) 0.16	5
Dichloropropene,1,3-	(0.081) 0.05	(0.081) 0.05	(0.081) 0.059	0.5
Dieldrin	0.05	0.05	(0.11) 0.088	0.35

Table 2	Soil Standards (other than sediment) µg/g			Potable Ground Water µg/L
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Diethyl Phthalate	0.5	0.5	0.5	38
Dimethylphthalate	0.5	0.5	0.5	38
Dimethylphenol, 2,4-	(53) 38	(53) 38	(53) 38	59
Dinitrophenol, 2,4-	(2.9) 2	(2.9) 2	(2.9) 2	10
Dinitrotoluene, 2,4 & 2,6-	0.5	0.5	0.5	5
Dioxane, 1,4	0.2	1.8	1.8	50
Dioxin/Furan (TEQ)	0.000013	0.000013	0.000099	0.000015
Endosulfan	0.04	0.04	(0.38) 0.3	1.5
Endrin	0.04	0.04	0.04	0.48
Ethylbenzene	(1.6) 1.1	(1.6) 1.1	(1.6) 1.1	2.4
Ethylene dibromide	0.05	0.05	0.05	0.2
Fluoranthene	0.69	0.69	9.6	0.41
Fluorene	(69) 62	(69) 62	(69) 62	120
Heptachlor	0.15	0.15	0.19	1.5
Heptachlor Epoxide	0.05	0.05	0.05	0.048
Hexachlorobenzene	0.52	0.52	0.66	1
Hexachlorobutadiene	(0.014) 0.012	(0.014) 0.012	(0.095) 0.031	(0.6) 0.44
Hexachlorocyclohexane Gamma-	(0.063) 0.056	(0.063) 0.056	(0.063) 0.056	1.2
Hexachloroethane	(0.071) 0.089	(0.071) 0.089	(0.43) 0.21	2.1
Hexane (n)	(34) 2.8	(34) 2.8	(88) 46	(520) 51
Indeno[1 2 3-cd]pyrene	(0.48) 0.38	(0.48) 0.38	(0.95) 0.76	0.2
Lead	45	120	120	10
Mercury	(1.8) 0.25	(1.8) 0.27	(20) 3.9	(1) 0.29
Methoxychlor	0.13	0.13	1.6	6.5
Methyl Ethyl Ketone	(44) 16	(44) 16	(88) 70	1800
Methyl Isobutyl Ketone	(4.3) 1.7	(4.3) 1.7	(210) 31	640
Methyl Mercury **	(0.0094) 0.0084	(0.0094) 0.0084	(0.0094) 0.0084	0.15
Methyl tert-Butyl Ether (MTBE)	(1.4) 0.75	(1.4) 0.75	(2.3) 1.6	15
Methylene Chloride	(0.96) 0.1	(0.96) 0.1	(2) 1.6	50
Methlynaphthalene, 2-(1-) ***	(3.4) 0.99	(3.4) 0.99	(42) 30	3.2
Molybdenum	6.9	6.9	40	70
Naphthalene	(0.75) 0.6	(0.75) 0.6	(28) 9.6	11
Nickel	(130) 100	(130) 100	(340) 270	100
Pentachlorophenol	0.1	0.1	(3.3) 2.9	30
Petroleum Hydrocarbons F1****	(65) 55	(65) 55	(65) 55	750
Petroleum Hydrocarbons F2	(150) 98	(150) 98	(250) 230	150
Petroleum Hydrocarbons F3	(1300) 300	(1300) 300	(2500) 1700	500
Petroleum Hydrocarbons F4	(5600) 2800	(5600) 2800	(6600) 3300	500
Phenanthrene	(7.8) 6.2	(7.8) 6.2	(16) 12	1
Phenol	9.4	9.4	9.4	890
Polychlorinated Biphenyls	0.35	0.35	1.1	3
Pyrene	78	78	96	4.1
Selenium	2.4	2.4	5.5	10
Silver	(25) 20	(25) 20	(50) 40	1.5
Styrene	(2.2) 0.7	(2.2) 0.7	(43) 34	5.4
Tetrachloroethane, 1,1,1,2-	(0.05) 0.058	(0.05) 0.058	(0.11) 0.087	1.1
Tetrachloroethane, 1,1,2,2-	0.05	0.05	(0.094) 0.05	1
Tetrachloroethylene	(2.3) 0.28	(2.3) 0.28	(2.5) 1.9	(17) 1.6
Thallium	1	1	3.3	2
Toluene	(6) 2.3	(6) 2.3	(9) 6.4	24
Trichlorobenzene, 1,2,4-	(1.4) 0.36	(1.4) 0.36	(16) 3.2	70
Trichloroethane, 1,1,1-	(3.4) 0.38	(3.4) 0.38	(12) 6.1	200
Trichloroethane, 1,1,2-	0.05	0.05	(0.11) 0.05	(5) 4.7
Trichloroethylene	(0.52) 0.061	(0.52) 0.061	(0.61) 0.55	(5) 1.6
Trichlorofluoromethane	(5.8) 4	(5.8) 4	(5.8) 4	150
Trichlorophenol, 2,4,5-	(5.5) 4.4	(5.5) 4.4	(10) 9.1	8.9
Trichlorophenol, 2,4,6-	(2.9) 2.1	(2.9) 2.1	(2.9) 2.1	2
Uranium	23	23	33	20
Vanadium	86	86	86	6.2
Vinyl Chloride	(0.022) 0.02	(0.022) 0.02	(0.25) 0.032	(1.7) 0.5

Table 2	Soil Standards (other than sediment) µg/g			Potable Ground Water µg/L
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Xylene Mixture	(25) 3.1	(25) 3.1	(30) 26	300
Zinc	340	340	340	1100
Electrical Conductivity (mS/cm)	0.7	0.7	1.4	NA
Chloride	NA	NA	NA	790000
Sodium Adsorption Ratio	5	5	12	NA
Sodium	NA	NA	NA	490000

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition

Table 3	Soil Standards (other than sediment) µg/g		Non- Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Acenaphthene	(58) 7.9	96	(1700) 600
Acenaphthylene	(0.17) 0.15	(0.17) 0.15	1.8
Acetone	(28) 16	(28) 16	130000
Aldrin	0.05	(0.11) 0.088	8.5
Anthracene	(0.74) 0.67	(0.74) 0.67	2.4
Antimony	7.5	(50) 40	20000
Arsenic	18	18	1900
Barium	390	670	29000
Benzene	(0.17) 0.21	(0.4) 0.32	(430) 44
Benz[a]anthracene	(0.63) 0.5	0.96	4.7
Benzo[a]pyrene	0.3	0.3	0.81
Benzo[b]fluoranthene	0.78	0.96	0.75
Benzo[ghi]perylene	(7.8) 6.6	9.6	0.2
Benzo[k]fluoranthene	0.78	0.96	0.4
Beryllium	(5) 4	(10) 8	67
Biphenyl 1,1'-	(1.1) 0.31	(210) 52	(2200) 1000
Bis(2-chloroethyl)ether	0.5	0.5	300000
Bis(2-chloroisopropyl)ether	(1.8) 0.67	(14) 11	20000
Bis(2-ethylhexyl)phthalate	5	(35) 28	140
Boron (Hot Water Soluble)*	1.5	2	NA
Boron (total)	120	120	45000
Bromodichloromethane	13	18	85000
Bromoform	(0.26) 0.27	(1.7) 0.61	(770) 380
Bromomethane	0.05	0.05	(56) 5.6
Cadmium	1.2	1.9	2.7
Carbon Tetrachloride	(0.12) 0.05	(1.5) 0.21	(8.4) 0.79
Chlordane	0.05	0.05	28
Chloroaniline p-	(0.53) 0.5	(0.53) 0.5	400
Chlorobenzene	(2.7) 2.4	(2.7) 2.4	630
Chloroform	(0.18) 0.05	(0.18) 0.47	(22) 2.4
Chlorophenol, 2-	(2) 1.6	(3.9) 3.1	3300
Chromium Total	160	160	810
Chromium VI	(10) 8	(10) 8	140
Chrysene	(7.8) 7	9.6	1
Cobalt	22	(100) 80	66
Copper	(180) 140	(300) 230	87
Cyanide (CN-)	0.051	0.051	66
Dibenz[a h]anthracene	0.1	0.1	0.52
Dibromochloromethane	9.4	13	82000
Dichlorobenzene, 1,2-	(4.3) 3.4	(8.5) 6.8	(9600) 4600
Dichlorobenzene, 1,3-	(6) 4.8	(12) 9.6	9600
Dichlorobenzene, 1,4-	(0.097) 0.083	(0.84) 0.2	(67) 8
Dichlorobenzidine, 3,3'-	1	1	640
Dichlorodifluoromethane	(25) 16	(25) 16	4400
DDD	3.3	4.6	45
DDE	(0.33) 0.26	(0.65) 0.52	20
DDT	1.4	1.4	2.8
Dichloroethane, 1,1-	(11) 3.5	(21) 17	(3100) 320
Dichloroethane, 1,2-	0.05	0.05	(12) 1.6
Dichloroethylene, 1,1-	0.05	(0.48) 0.064	(17) 1.6
Dichloroethylene, 1,2-cis-	(30) 3.4	(37) 55	(17) 1.6
Dichloroethylene, 1,2-trans-	(0.75) 0.084	(9.3) 1.3	(17) 1.6
Dichlorophenol, 2,4-	(2.1) 1.7	(4.2) 3.4	4600
Dichloropropane, 1,2-	(0.085) 0.05	(0.68) 0.16	(140) 16
Dichloropropene,1,3-	(0.083) 0.05	(0.21) 0.18	(45) 5.2
Dieldrin	0.05	(0.11) 0.088	0.75

Table 3	Soil Standards (other than sediment) µg/g		Non- Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Diethyl Phthalate	0.5	0.5	38
Dimethylphthalate	0.5	0.5	38
Dimethylphenol, 2,4-	(420) 390	(440) 390	39000
Dinitrophenol, 2,4-	38	(66) 59	11000
Dinitrotoluene, 2,4 & 2,6-	0.92	1.2	2900
Dioxane, 1,4	1.8	1.8	(7300000)1900000
Dioxin/Furan (TEQ)	0.000013	0.000099	(0.023) 0.014
Endosulfan	0.04	(0.38) 0.3	1.5
Endrin	0.04	0.04	0.48
Ethylbenzene	(15) 2	(19) 9.5	2300
Ethylene dibromide	0.05	0.05	(0.83) 0.25
Fluoranthene	0.69	9.6	130
Fluorene	(69) 62	(69) 62	400
Heptachlor	0.15	0.19	2.5
Heptachlor Epoxide	0.05	0.05	0.048
Hexachlorobenzene	0.52	0.66	3.1
Hexachlorobutadiene	(0.014) 0.012	(0.095) 0.031	(4.5) 0.44
Hexachlorocyclohexane Gamma-	(0.063) 0.056	(0.063) 0.056	1.2
Hexachloroethane	(0.071) 0.089	(0.43) 0.21	(200) 94
Hexane (n)	(34) 2.8	(88) 46	(520) 51
Indeno[1 2 3-cd]pyrene	(0.48) 0.38	(0.95) 0.76	0.2
Lead	120	120	25
Mercury	(1.8) 0.27	(20) 3.9	(2.8) 0.29
Methoxychlor	0.13	1.6	6.5
Methyl Ethyl Ketone	(44) 16	(88) 70	(1500000) 470000
Methyl Isobutyl Ketone	(4.3) 1.7	(210) 31	(580000) 140000
Methyl Mercury **	(0.0094) 0.0084	(0.0094) 0.0084	0.15
Methyl tert-Butyl Ether (MTBE)	(1.4) 0.75	(3.2) 11	(1400) 190
Methylene Chloride	(0.96) 0.1	(2) 1.6	(5500) 610
Methlynaphthalene, 2-(1-) ***	(3.4) 0.99	(85) 76	1800
Molybdenum	6.9	40	9200
Naphthalene	(0.75) 0.6	(28) 9.6	(6400) 1400
Nickel	(130) 100	(340) 270	490
Pentachlorophenol	0.1	(3.3) 2.9	62
Petroleum Hydrocarbons F1****	(65) 55	(65) 55	750
Petroleum Hydrocarbons F2	(150) 98	(250) 230	150
Petroleum Hydrocarbons F3	(1300) 300	(2500) 1700	500
Petroleum Hydrocarbons F4	(5600) 2800	(6600) 3300	500
Phenanthrene	(7.8) 6.2	(16) 12	580
Phenol	9.4	9.4	12000
Polychlorinated Biphenyls	0.35	1.1	(15) 7.8
Pyrene	78	96	68
Selenium	2.4	5.5	63
Silver	(25) 20	(50) 40	1.5
Styrene	(2.2) 0.7	(43) 34	(9100) 1300
Tetrachloroethane, 1,1,1,2-	(0.05) 0.058	(0.11) 0.087	(28) 3.3
Tetrachloroethane, 1,1,2,2-	0.05	(0.094) 0.05	(15) 3.2
Tetrachloroethylene	(2.3) 0.28	(21) 4.5	(17) 1.6
Thallium	1	3.3	510
Toluene	(6) 2.3	(78) 68	18000
Trichlorobenzene, 1,2,4-	(1.4) 0.36	(16) 3.2	(850) 180
Trichloroethane, 1,1,1-	(3.4) 0.38	(12) 6.1	(6700) 640
Trichloroethane, 1,1,2-	0.05	(0.11) 0.05	(30) 4.7
Trichloroethylene	(0.52) 0.061	(0.61) 0.91	(17) 1.6
Trichlorofluoromethane	(5.8) 4	(5.8) 4	2500
Trichlorophenol, 2,4,5-	(5.5) 4.4	10	1600
Trichlorophenol, 2,4,6-	(4.2) 3.8	(4.2) 3.8	230
Uranium	23	33	420
Vanadium	86	86	250
Vinyl Chloride	(0.022) 0.02	(0.25) 0.032	(1.7) 0.5

Table 3	Soil Standards (other than sediment) µg/g		Non- Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Xylene Mixture	(25) 3.1	(30) 26	4200
Zinc	340	340	1100
Electrical Conductivity (mS/cm)	0.7	1.4	#N/A
Chloride	NA	NA	2300000
Sodium Adsorption Ratio	5	12	NA
Sodium	NA	NA	2300000

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 4: Stratified Site Condition Standards in a Potable Ground Water Condition

Table 4	Soil Standards (other than sediment) µg/g				Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use		Industrial/ Commercial/Community Property Use		All Types of Property Use
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	
Acenaphthene	(29) 7.9	(29) 7.9	(29) 21	(29) 21	4.1
Acenaphthylene	(0.17) 0.15	(0.17) 0.15	(0.17) 0.15	(0.17) 0.15	1
Acetone	(28) 16	(28) 16	(28) 16	(28) 16	2700
Aldrin	0.05	4.7	(0.11) 0.088	6.3	0.35
Anthracene	(0.74) 0.67	(0.74) 0.67	(0.74) 0.67	(0.74) 0.67	2.4
Antimony	7.5	63	(50) 40	63	6
Arsenic	18	18	18	47	25
Barium	390	(8600) 7700	670	(8600) 7700	1000
Benzene	(0.17) 0.21	(0.17) 0.21	(0.4) 0.32	(1.3) 0.92	5
Benz[a]anthracene	(0.63) 0.5	0.96	0.96	36	1
Benzo[a]pyrene	0.3	0.3	0.3	3.6	0.01
Benzo[b]fluoranthene	0.78	0.96	0.96	36	0.1
Benzo[ghi]perylene	(7.8) 6.6	9.6	9.6	360	0.2
Benzo[k]fluoranthene	0.78	0.96	0.96	36	0.1
Beryllium	(5) 4	60	(10) 8	60	4
Biphenyl 1,1'-	(1.1) 0.31	(83) 11	(210) 52	(210) 52	0.5
Bis(2-chloroethyl)ether	0.5	0.5	0.5	0.5	5
Bis(2-chloroisopropyl)ether	(1.8) 0.67	(13) 11	(13) 11	(13) 11	120
Bis(2-ethylhexyl)phthalate	5	(1200) 830	(35) 28	(1200) 830	10
Boron (Hot Water Soluble)*	1.5	NA	2	NA	NA
Boron (total)	NA	(7900) 5000	NA	(7900) 5000	5000
Bromodichloromethane	(1.9) 1.5	(1.9) 1.5	(1.9) 1.5	(1.9) 1.5	16
Bromoform	(0.26) 0.27	(0.26) 0.27	(1.7) 0.61	(2.7) 2	25
Bromomethane	0.05	0.05	0.05	0.05	0.89
Cadmium	1.2	7.9	1.9	7.9	2.7
Carbon Tetrachloride	(0.12) 0.05	(0.12) 0.05	(0.71) 0.21	(0.71) 0.43	(5) 0.79
Chlordane	0.05	0.8	0.05	30	7
Chloroaniline p-	(0.53) 0.5	(0.53) 0.5	(0.53) 0.5	(0.53) 0.5	10
Chlorobenzene	(2.7) 2.4	(2.7) 2.4	(2.7) 2.4	(2.7) 2.4	30
Chloroform	(0.18) 0.05	(0.18) 0.05	(0.18) 0.47	(0.19) 0.85	(22) 2.4
Chlorophenol, 2-	(2) 1.6	(5.1) 3.7	(3.9) 3.1	(5.1) 3.7	8.9
Chromium Total	160	(18000) 11000	160	(18000) 11000	50
Chromium VI	(10) 8	40	(10) 8	40	25
Chrysene	(7.8) 7	9.6	9.6	(28) 20	0.1
Cobalt	22	250	(100) 80	2500	3.8
Copper	(180) 140	5600	(300) 230	5600	87
Cyanide (CN-)	0.051	0.051	0.051	0.051	66
Dibenz[a h]anthracene	0.1	0.1	0.1	3.6	0.2
Dibromochloromethane	(2.9) 2.3	(2.9) 2.3	(2.9) 2.3	(2.9) 2.3	25
Dichlorobenzene, 1,2-	(1.7) 1.2	(1.7) 1.2	(1.7) 1.2	(1.7) 1.2	3
Dichlorobenzene, 1,3-	(6) 4.8	(34) 24	(12) 9.6	(34) 24	59
Dichlorobenzene, 1,4-	(0.097) 0.083	(0.097) 0.083	(0.57) 0.2	(0.57) 0.39	1
Dichlorobenzidine, 3,3'-	1	1	1	1	0.5
Dichlorodifluoromethane	(25) 16	(25) 16	(25) 16	(25) 16	590
DDD	3.3	4.6	4.6	110	10
DDE	(0.33) 0.26	3.2	(0.65) 0.52	110	10
DDT	1.4	3.2	1.4	110	2.8
Dichloroethane, 1,1-	(0.6) 0.47	(0.6) 0.47	(0.6) 0.47	(0.6) 0.47	5
Dichloroethane, 1,2-	0.05	0.05	0.05	(0.05) 0.055	(5) 1.6
Dichloroethylene, 1,1-	0.05	0.05	(0.48) 0.064	(0.53) 0.12	(14) 1.6
Dichloroethylene, 1,2-cis-	(2.5) 1.9	(2.5) 1.9	(2.5) 1.9	(2.5) 1.9	(17) 1.6
Dichloroethylene, 1,2-trans-	(0.75) 0.084	(0.75) 0.084	(2.5) 1.3	(2.5) 1.9	(17) 1.6
Dichlorophenol, 2,4-	(0.27) 0.19	(0.27) 0.19	(0.27) 0.19	(0.27) 0.19	20
Dichloropropane, 1,2-	(0.085) 0.05	(0.085) 0.05	(0.68) 0.16	(0.74) 0.33	5
Dichloropropene,1,3-	(0.081) 0.05	(0.081) 0.05	(0.081) 0.059	(0.081) 0.059	0.5
Dieldrin	0.05	(0.12) 0.11	(0.11) 0.088	(0.12) 0.11	0.35

Table 4	Soil Standards (other than sediment) µg/g				Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use		Industrial/ Commercial/Community Property Use		All Types of Property Use
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	
Diethyl Phthalate	0.5	0.5	0.5	0.5	38
Dimethylphthalate	0.5	0.5	0.5	0.5	38
Dimethylphenol, 2,4-	(53) 38	(53) 38	(53) 38	(53) 38	59
Dinitrophenol, 2,4-	(2.9) 2	(2.9) 2	(2.9) 2	(2.9) 2	10
Dinitrotoluene, 2,4 & 2,6-	0.5	0.5	0.5	0.5	5
Dioxane, 1,4	1.8	(7.7) 7.5	1.8	(7.7) 7.5	50
Dioxin/Furan (TEQ)	0.000013	0.00051	0.000099	(0.0026) 0.0018	0.000015
Endosulfan	0.04	(0.51) 0.46	(0.38) 0.3	(0.51) 0.46	1.5
Endrin	0.04	(0.079) 0.071	0.04	(0.079) 0.071	0.48
Ethylbenzene	(1.6) 1.1	(1.6) 1.1	(1.6) 1.1	(1.6) 1.1	2.4
Ethylene dibromide	0.05	0.05	0.05	0.05	0.2
Fluoranthene	0.69	9.6	9.6	(34) 24	0.41
Fluorene	(69) 62	(69) 62	(69) 62	(69) 62	120
Heptachlor	0.15	0.19	0.19	(2) 1.8	1.5
Heptachlor Epoxide	0.05	0.05	0.05	0.05	0.048
Hexachlorobenzene	0.52	0.66	0.66	(4) 2.9	1
Hexachlorobutadiene	(0.014) 0.012	(0.014) 0.012	(0.095) 0.031	(0.11) 0.06	(0.6) 0.44
Hexachlorocyclohexane Gamma-	(0.063) 0.056	(0.063) 0.056	(0.063) 0.056	(0.063) 0.056	1.2
Hexachloroethane	(0.071) 0.089	(0.071) 0.089	(0.43) 0.21	(0.69) 0.49	2.1
Hexane (n)	(34) 2.8	(34) 2.8	(88) 46	(88) 54	(520) 51
Indeno[1 2 3-cd]pyrene	(0.48) 0.38	0.96	(0.95) 0.76	36	0.2
Lead	120	1000	120	1000	10
Mercury	(1.8) 0.27	(1.8) 0.27	(20) 3.9	(30) 13	(1) 0.29
Methoxychlor	0.13	1.6	1.6	1.6	6.5
Methyl Ethyl Ketone	(44) 16	(180) 16	(88) 70	(310) 150	1800
Methyl Isobutyl Ketone	(4.3) 1.7	(66) 6.6	(210) 31	(210) 64	640
Methyl Mercury **	(0.0094) 0.0084	(0.0094) 0.0084	(0.0094) 0.0084	(0.0094) 0.0084	0.15
Methyl tert-Butyl Ether (MTBE)	(1.4) 0.75	(1.4) 0.75	(2.3) 1.6	(2.3) 1.6	15
Methylene Chloride	(0.96) 0.1	(0.96) 0.1	(2) 1.6	(5.7) 3	50
Methlynaphthalene, 2-(1-) ***	(3.4) 0.99	(42) 30	(42) 30	(42) 30	3.2
Molybdenum	6.9	1200	40	1200	70
Naphthalene	(0.75) 0.6	(4.6) 0.65	(28) 9.6	(130) 93	11
Nickel	(130) 100	510	(340) 270	510	100
Pentachlorophenol	0.1	(3.3) 2.9	(3.3) 2.9	(3.3) 2.9	30
Petroleum Hydrocarbons F1****	(65) 55	(65) 55	(65) 55	(65) 55	750
Petroleum Hydrocarbons F2	(150) 98	(150) 98	(250) 230	(250) 230	150
Petroleum Hydrocarbons F3	(1300) 300	(7200) 5800	(2500) 1700	(7200) 5800	500
Petroleum Hydrocarbons F4	(5600) 2800	(8000) 6900	(6600) 3300	(8000) 6900	500
Phenanthrene	(7.8) 6.2	(24) 17	(16) 12	(24) 17	1
Phenol	9.4	(53) 46	9.4	(53) 46	890
Polychlorinated Biphenyls	0.35	2.7	1.1	4.1	3
Pyrene	78	96	96	(330) 240	4.1
Selenium	2.4	1200	5.5	1200	10
Silver	(25) 20	490	(50) 40	490	1.5
Styrene	(2.2) 0.7	(19) 16	(43) 34	(66) 47	5.4
Tetrachloroethane, 1,1,1,2-	(0.05) 0.058	(0.05) 0.058	(0.11) 0.087	(0.14) 0.15	1.1
Tetrachloroethane, 1,1,2,2-	0.05	0.05	(0.094) 0.05	(0.11) 0.05	1
Tetrachloroethylene	(2.3) 0.28	(2.3) 0.28	(2.5) 1.9	(2.5) 1.9	(17) 1.6
Thallium	1	3.3	3.3	33	2
Toluene	(6) 2.3	(9) 6.2	(9) 6.4	(9) 6.4	24
Trichlorobenzene, 1,2,4-	(1.4) 0.36	(1.4) 0.36	(16) 3.2	(22) 10	70
Trichloroethane, 1,1,1-	(3.4) 0.38	(3.4) 0.38	(12) 6.1	(12) 9.8	200
Trichloroethane, 1,1,2-	0.05	0.05	(0.11) 0.05	(0.13) 0.068	(5) 4.7
Trichloroethylene	(0.52) 0.061	(0.52) 0.061	(0.61) 0.55	(0.69) 0.55	(5) 1.6
Trichlorofluoromethane	(5.8) 4	(5.8) 4	(5.8) 4	(5.8) 4	150
Trichlorophenol, 2,4,5-	(5.5) 4.4	(13) 9.1	(10) 9.1	(13) 9.1	8.9
Trichlorophenol, 2,4,6-	(2.9) 2.1	(2.9) 2.1	(2.9) 2.1	(2.9) 2.1	2
Uranium	23	300	33	300	20
Vanadium	86	160	86	160	6.2
Vinyl Chloride	(0.022) 0.02	(0.022) 0.02	(0.25) 0.032	(0.25) 0.057	(1.7) 0.5

Table 4	Soil Standards (other than sediment) µg/g				Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use		Industrial/ Commercial/Community Property Use		All Types of Property Use
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	
Xylene Mixture	(25) 3.1	(25) 3.1	(30) 26	(30) 26	300
Zinc	340	(24000) 15000	340	(24000) 15000	1100
Electrical Conductivity (mS/cm)	0.7	NA	1.4	NA	N/A
Chloride	NA	NV	NA	NV	790000
Sodium Adsorption Ratio	5	NA	12	NA	N/A
Sodium	NA	NV	NA	NV	490000

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 5: Stratified Site Condition Standards in a Non-Potable Ground Water Condition

Table 5	Soil Standards (other than sediment) µg/g				Non-Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use		Industrial/ Commercial/Community Property Use		All Types of Property Use
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	
Acenaphthene	(58) 7.9	(58) 7.9	96	(620) 330	(1700) 600
Acenaphthylene	(0.17) 0.15	(0.17) 0.15	(0.17) 0.15	(0.17) 0.15	1.8
Acetone	(28) 16	(28) 16	(28) 16	(28) 16	130000
Aldrin	0.05	4.7	(0.11) 0.088	6.3	8.5
Anthracene	(0.74) 0.67	(0.74) 0.67	(0.74) 0.67	(0.74) 0.67	2.4
Antimony	7.5	63	(50) 40	63	20000
Arsenic	18	18	18	47	1900
Barium	390	(8600) 7700	670	(8600) 7700	29000
Benzene	(0.17) 0.21	(0.17) 0.21	(0.4) 0.32	(4.4) 6.1	(430) 44
Benz[a]anthracene	(0.63) 0.5	0.96	0.96	36	4.7
Benzo[a]pyrene	0.3	0.3	0.3	3.6	0.81
Benzo[b]fluoranthene	0.78	0.96	0.96	36	0.75
Benzo[ghi]perylene	(7.8) 6.6	9.6	9.6	360	0.2
Benzo[k]fluoranthene	0.78	0.96	0.96	36	0.4
Beryllium	(5) 4	60	(10) 8	60	67
Biphenyl 1,1'-	(1.1) 0.31	(83) 11	(210) 52	(210) 52	(2200) 1000
Bis(2-chloroethyl)ether	0.5	0.5	0.5	16	300000
Bis(2-chloroisopropyl)ether	(1.8) 0.67	(14) 11	(14) 11	(14) 11	20000
Bis(2-ethylhexyl)phthalate	5	(8300) 7100	(35) 28	(8300) 7100	140
Boron (Hot Water Soluble)*	1.5	NA	2	NA	NA
Boron (total)	NA	(7900) 5000	NA	(7900) 5000	45000
Bromodichloromethane	13	18	18	(63) 50	85000
Bromoform	(0.26) 0.27	(0.26) 0.27	(1.7) 0.61	(2.7) 2	(770) 380
Bromomethane	0.05	0.05	0.05	0.05	(56) 5.6
Cadmium	1.2	7.9	1.9	7.9	2.7
Carbon Tetrachloride	(0.12) 0.05	(0.12) 0.05	(1.5) 0.21	(1.7) 0.43	(8.4) 0.79
Chlordane	0.05	0.8	0.05	30	28
Chloroaniline p-	(0.53) 0.5	(0.53) 0.5	(0.53) 0.5	(0.53) 0.5	400
Chlorobenzene	(2.7) 2.4	(2.7) 2.4	(2.7) 2.4	(2.7) 2.4	630
Chloroform	(0.18) 0.05	(0.18) 0.05	(0.18) 0.47	(0.19) 0.85	(22) 2.4
Chlorophenol, 2-	(2) 1.6	(23) 21	(3.9) 3.1	(23) 21	3300
Chromium Total	160	(18000) 11000	160	(18000) 11000	810
Chromium VI	(10) 8	40	(10) 8	40	140
Chrysene	(7.8) 7	9.6	9.6	360	1
Cobalt	22	250	(100) 80	2500	66
Copper	(180) 140	5600	(300) 230	5600	87
Cyanide (CN-)	0.051	0.051	0.051	0.051	66
Dibenz[a h]anthracene	0.1	0.1	0.1	3.6	0.52
Dibromochloromethane	9.4	13	13	(61) 48	82000
Dichlorobenzene, 1,2-	(4.3) 3.4	(52) 35	(8.5) 6.8	(68) 60	(9600) 4600
Dichlorobenzene, 1,3-	(6) 4.8	(67) 59	(12) 9.6	(67) 59	9600
Dichlorobenzene, 1,4-	(0.097) 0.083	(0.097) 0.083	(0.84) 0.2	(0.97) 0.39	(67) 8
Dichlorobenzidine, 3,3'-	1	1	1	25	640
Dichlorodifluoromethane	(25) 16	(25) 16	(25) 16	(25) 16	4400
DDD	3.3	4.6	4.6	110	45
DDE	(0.33) 0.26	3.2	(0.65) 0.52	110	20
DDT	1.4	3.2	1.4	110	2.8
Dichloroethane, 1,1-	(11) 3.5	(31) 3.5	(21) 17	(45) 120	(3100) 320
Dichloroethane, 1,2-	0.05	0.05	0.05	(0.05) 0.055	(12) 1.6
Dichloroethylene, 1,1-	0.05	0.05	(0.48) 0.064	(0.53) 0.12	(17) 1.6
Dichloroethylene, 1,2-cis-	(30) 3.4	(30) 3.4	(37) 55	(43) 110	(17) 1.6
Dichloroethylene, 1,2-trans-	(0.75) 0.084	(0.75) 0.084	(9.3) 1.3	(11) 2.9	(17) 1.6
Dichlorophenol, 2,4-	(2.1) 1.7	(52) 46	(4.2) 3.4	(52) 46	4600
Dichloropropane, 1,2-	(0.085) 0.05	(0.085) 0.05	(0.68) 0.16	(0.75) 0.33	(140) 16
Dichloropropene,1,3-	(0.083) 0.05	(0.083) 0.05	(0.21) 0.18	(0.24) 0.34	(45) 5.2
Dieldrin	0.05	(0.12) 0.11	(0.11) 0.088	(0.12) 0.11	0.75

Table 5	Soil Standards (other than sediment) µg/g				Non-Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use		Industrial/ Commercial/Community Property Use		All Types of Property Use
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	
Diethyl Phthalate	0.5	0.5	0.5	0.5	38
Dimethylphthalate	0.5	0.5	0.5	0.5	38
Dimethylphenol, 2,4-	(420) 390	(440) 390	(440) 390	(440) 390	39000
Dinitrophenol, 2,4-	38	(66) 59	(66) 59	(66) 59	11000
Dinitrotoluene, 2,4 & 2,6-	0.92	1.2	1.2	(17) 15	2900
Dioxane, 1,4	1.8	100	1.8	(1500) 810	7300000) 1900000
Dioxin/Furan (TEQ)	0.000013	0.00051	0.000099	0.0044	(0.023) 0.014
Endosulfan	0.04	(0.51) 0.46	(0.38) 0.3	(0.51) 0.46	1.5
Endrin	0.04	(0.079) 0.071	0.04	(0.079) 0.071	0.48
Ethylbenzene	(15) 2	(16) 2	(19) 9.5	(19) 17	2300
Ethylene dibromide	0.05	0.05	0.05	0.05	(0.83) 0.25
Fluoranthene	0.69	9.6	9.6	360	130
Fluorene	(69) 62	(69) 62	(69) 62	(69) 62	400
Heptachlor	0.15	0.19	0.19	(2) 1.8	2.5
Heptachlor Epoxide	0.05	0.05	0.05	0.05	0.048
Hexachlorobenzene	0.52	0.66	0.66	(15) 14	3.1
Hexachlorobutadiene	(0.014) 0.012	(0.014) 0.012	(0.095) 0.031	(0.11) 0.06	(4.5) 0.44
Hexachlorocyclohexane Gamma-	(0.063) 0.056	(0.063) 0.056	(0.063) 0.056	(0.063) 0.056	1.2
Hexachloroethane	(0.071) 0.089	(0.071) 0.089	(0.43) 0.21	1.7	(200) 94
Hexane (n)	(34) 2.8	(34) 2.8	(88) 46	(88) 54	(520) 51
Indeno[1 2 3-cd]pyrene	(0.48) 0.38	0.96	(0.95) 0.76	36	0.2
Lead	120	1000	120	1000	25
Mercury	(1.8) 0.27	(1.8) 0.27	(20) 3.9	(30) 13	(2.8) 0.29
Methoxychlor	0.13	1.6	1.6	1.6	6.5
Methyl Ethyl Ketone	(44) 16	(180) 16	(88) 70	(380) 150	(1500000) 470000
Methyl Isobutyl Ketone	(4.3) 1.7	(66) 6.6	(210) 31	(210) 64	(580000) 140000
Methyl Mercury **	(0.0094) 0.0084	(0.0094) 0.0084	(0.0094) 0.0084	(0.0094) 0.0084	0.15
Methyl tert-Butyl Ether (MTBE)	(1.4) 0.75	(1.4) 0.75	(3.2) 11	(3.4) 14	(1400) 190
Methylene Chloride	(0.96) 0.1	(0.96) 0.1	(2) 1.6	(9.8) 3	(5500) 610
Methlynaphthalene, 2-(1-) ***	(3.4) 0.99	(85) 34	(85) 76	(85) 76	1800
Molybdenum	6.9	1200	40	1200	9200
Naphthalene	(0.75) 0.6	(4.6) 0.65	(28) 9.6	(220) 200	(6400) 1400
Nickel	(130) 100	510	(340) 270	510	490
Pentachlorophenol	0.1	(3.3) 2.9	(3.3) 2.9	(3.3) 2.9	62
Petroleum Hydrocarbons F1****	(65) 55	(65) 55	(65) 55	(65) 55	750
Petroleum Hydrocarbons F2	(150) 98	(150) 98	(250) 230	(250) 230	150
Petroleum Hydrocarbons F3	(1300) 300	(7200) 5800	(2500) 1700	(7200) 5800	500
Petroleum Hydrocarbons F4	(5600) 2800	(8000) 6900	(6600) 3300	(8000) 6900	500
Phenanthrene	(7.8) 6.2	(300) 270	(16) 12	(300) 270	580
Phenol	9.4	(53) 46	9.4	(53) 46	12000
Polychlorinated Biphenyls	0.35	2.7	1.1	4.1	(15) 7.8
Pyrene	78	96	96	(2900) 2600	68
Selenium	2.4	1200	5.5	1200	63
Silver	(25) 20	490	(50) 40	490	1.5
Styrene	(2.2) 0.7	(19) 16	(43) 34	(75) 66	(9100) 1300
Tetrachloroethane, 1,1,1,2-	(0.05) 0.058	(0.05) 0.058	(0.11) 0.087	(0.14) 0.24	(28) 3.3
Tetrachloroethane, 1,1,2,2-	0.05	0.05	(0.094) 0.05	(0.11) 0.05	(15) 3.2
Tetrachloroethylene	(2.3) 0.28	(2.3) 0.28	(21) 4.5	(21) 9.5	(17) 1.6
Thallium	1	3.3	3.3	33	510
Toluene	(6) 2.3	(50) 6.2	(78) 68	(78) 68	18000
Trichlorobenzene, 1,2,4-	(1.4) 0.36	(1.4) 0.36	(16) 3.2	(22) 10	(850) 180
Trichloroethane, 1,1,1-	(3.4) 0.38	(3.4) 0.38	(12) 6.1	(12) 9.8	(6700) 640
Trichloroethane, 1,1,2-	0.05	0.05	(0.11) 0.05	(0.13) 0.068	(30) 4.7
Trichloroethylene	(0.52) 0.061	(0.52) 0.061	(0.61) 0.91	(0.69) 1.8	(17) 1.6
Trichlorofluoromethane	(5.8) 4	(5.8) 4	(5.8) 4	(5.8) 4	2500
Trichlorophenol, 2,4,5-	(5.5) 4.4	(30) 27	10	(30) 27	1600
Trichlorophenol, 2,4,6-	(4.2) 3.8	(4.2) 3.8	(4.2) 3.8	(4.2) 3.8	230
Uranium	23	300	33	300	420
Vanadium	86	160	86	160	250
Vinyl Chloride	(0.022) 0.02	(0.022) 0.02	(0.25) 0.032	(0.28) 0.057	(1.7) 0.5

Table 5	Soil Standards (other than sediment) µg/g				Non-Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use		Industrial/ Commercial/Community Property Use		All Types of Property Use
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	
Xylene Mixture	(25) 3.1	(25) 3.1	(30) 26	(30) 26	4200
Zinc	340	(24000) 15000	340	(24000) 15000	1100
Electrical Conductivity (mS/cm)	0.7	NA	1.4	NA	#N/A
Chloride	NA	NV	NA	NV	2300000
Sodium Adsorption Ratio	5	NA	12	NA	NA
Sodium	NA	NV	NA	NV	2300000

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 6: Generic Site Condition Standards for Shallow Soils in a Potable Ground Water Condition

Table 6	Soil Standards (other than sediment) µg/g			Potable Ground Water µg/L
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Acenaphthene	(29) 7.9	(29) 7.9	(29) 21	4.1
Acenaphthylene	(0.17) 0.15	(0.17) 0.15	(0.17) 0.15	1
Acetone	(28) 16	(28) 16	(28) 16	2700
Aldrin	0.05	0.05	(0.11) 0.088	0.35
Anthracene	(0.74) 0.67	(0.74) 0.67	(0.74) 0.67	1
Antimony	7.5	7.5	(50) 40	6
Arsenic	11	18	18	25
Barium	390	390	670	1000
Benzene	(0.17) 0.21	(0.17) 0.21	(0.4) 0.32	0.5
Benz[a]anthracene	(0.63) 0.5	(0.63) 0.5	0.96	1
Benzo[a]pyrene	0.078	0.3	0.3	0.01
Benzo[b]fluoranthene	0.78	0.78	0.96	0.1
Benzo[ghi]perylene	(7.8) 6.6	(7.8) 6.6	9.6	0.2
Benzo[k]fluoranthene	0.78	0.78	0.96	0.1
Beryllium	(5) 4	(5) 4	(10) 8	4
Biphenyl 1,1'-	(1.1) 0.31	(1.1) 0.31	(210) 52	0.5
Bis(2-chloroethyl)ether	0.5	0.5	0.5	5
Bis(2-chloroisopropyl)ether	(1.8) 0.67	(1.8) 0.67	(13) 11	120
Bis(2-ethylhexyl)phthalate	5	5	(35) 28	10
Boron (Hot Water Soluble)*	1.5	1.5	2	NA
Boron (total)	120	120	120	5000
Bromodichloromethane	(1.9) 1.5	(1.9) 1.5	(1.9) 1.5	16
Bromoform	(0.26) 0.27	(0.26) 0.27	(1.7) 0.61	5
Bromomethane	0.05	0.05	0.05	0.89
Cadmium	1	1.2	1.9	2.1
Carbon Tetrachloride	(0.12) 0.05	(0.12) 0.05	(0.71) 0.21	0.2
Chlordane	0.05	0.05	0.05	0.06
Chloroaniline p-	(0.53) 0.5	(0.53) 0.5	(0.53) 0.5	10
Chlorobenzene	(2.7) 2.4	(2.7) 2.4	(2.7) 2.4	30
Chloroform	(0.18) 0.05	(0.18) 0.05	(0.18) 0.47	2
Chlorophenol, 2-	(2) 1.6	(2) 1.6	(3.9) 3.1	8.9
Chromium Total	160	160	160	50
Chromium VI	(10) 8	(10) 8	(10) 8	25
Chrysene	(7.8) 7	(7.8) 7	9.6	0.1
Cobalt	22	22	(100) 80	3.8
Copper	(180) 140	(180) 140	(300) 230	69
Cyanide (CN-)	0.051	0.051	0.051	52
Dibenz[a h]anthracene	0.1	0.1	0.1	0.2
Dibromochloromethane	(2.9) 2.3	(2.9) 2.3	(2.9) 2.3	25
Dichlorobenzene, 1,2-	(1.7) 1.2	(1.7) 1.2	(1.7) 1.2	3
Dichlorobenzene, 1,3-	(6) 4.8	(6) 4.8	(12) 9.6	59
Dichlorobenzene, 1,4-	(0.097) 0.083	(0.097) 0.083	(0.57) 0.2	0.5
Dichlorobenzidine, 3,3'-	1	1	1	0.5
Dichlorodifluoromethane	(25) 16	(25) 16	(25) 16	590
DDD	3.3	3.3	4.6	1.8
DDE	(0.33) 0.26	(0.33) 0.26	(0.65) 0.52	10
DDT	0.078	1.4	1.4	0.05
Dichloroethane, 1,1-	(0.6) 0.47	(0.6) 0.47	(0.6) 0.47	5
Dichloroethane, 1,2-	0.05	0.05	0.05	0.5
Dichloroethylene, 1,1-	0.05	0.05	(0.48) 0.064	0.5
Dichloroethylene, 1,2-cis-	(2.5) 1.9	(2.5) 1.9	(2.5) 1.9	1.6
Dichloroethylene, 1,2-trans-	(0.75) 0.084	(0.75) 0.084	(2.5) 1.3	1.6
Dichlorophenol, 2,4-	(0.27) 0.19	(0.27) 0.19	(0.27) 0.19	20
Dichloropropane, 1,2-	(0.085) 0.05	(0.085) 0.05	(0.68) 0.16	0.58
Dichloropropene,1,3-	(0.081) 0.05	(0.081) 0.05	(0.081) 0.059	0.5
Dieldrin	0.05	0.05	(0.11) 0.088	0.35

Table 6	Soil Standards (other than sediment) µg/g			Potable Ground Water µg/L
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Diethyl Phthalate	0.5	0.5	0.5	30
Dimethylphthalate	0.5	0.5	0.5	30
Dimethylphenol, 2,4-	(53) 38	(53) 38	(53) 38	59
Dinitrophenol, 2,4-	(2.9) 2	(2.9) 2	(2.9) 2	10
Dinitrotoluene, 2,4 & 2,6-	0.5	0.5	0.5	5
Dioxane, 1,4	0.2	1.8	1.8	50
Dioxin/Furan (TEQ)	0.000013	0.000013	0.000099	0.000015
Endosulfan	0.04	0.04	(0.38) 0.3	0.56
Endrin	0.04	0.04	0.04	0.36
Ethylbenzene	(1.6) 1.1	(1.6) 1.1	(1.6) 1.1	2.4
Ethylene dibromide	0.05	0.05	0.05	0.2
Fluoranthene	0.69	0.69	9.6	0.41
Fluorene	(69) 62	(69) 62	(69) 62	120
Heptachlor	0.15	0.15	0.19	0.038
Heptachlor Epoxide	0.05	0.05	0.05	0.038
Hexachlorobenzene	0.52	0.52	0.66	1
Hexachlorobutadiene	(0.014) 0.012	(0.014) 0.012	(0.095) 0.031	0.012
Hexachlorocyclohexane Gamma-	(0.063) 0.056	(0.063) 0.056	(0.063) 0.056	0.95
Hexachloroethane	(0.071) 0.089	(0.071) 0.089	(0.43) 0.21	0.17
Hexane (n)	(34) 2.8	(34) 2.8	(88) 46	5
Indeno[1 2 3-cd]pyrene	(0.48) 0.38	(0.48) 0.38	(0.95) 0.76	0.2
Lead	45	120	120	10
Mercury	(1.8) 0.25	(1.8) 0.27	(20) 3.9	0.1
Methoxychlor	0.13	0.13	1.6	0.3
Methyl Ethyl Ketone	(44) 16	(44) 16	(88) 70	1800
Methyl Isobutyl Ketone	(4.3) 1.7	(4.3) 1.7	(210) 31	640
Methyl Mercury **	(0.0094) 0.0084	(0.0094) 0.0084	(0.0094) 0.0084	0.12
Methyl tert-Butyl Ether (MTBE)	(1.4) 0.75	(1.4) 0.75	(2.3) 1.6	15
Methylene Chloride	(0.96) 0.1	(0.96) 0.1	(2) 1.6	26
Methlynaphthalene, 2-(1-) ***	(3.4) 0.99	(3.4) 0.99	(42) 30	3.2
Molybdenum	6.9	6.9	40	70
Naphthalene	(0.75) 0.6	(0.75) 0.6	(28) 9.6	7
Nickel	(130) 100	(130) 100	(340) 270	100
Pentachlorophenol	0.1	0.1	(3.3) 2.9	30
Petroleum Hydrocarbons F1****	(65) 55	(65) 55	(65) 55	420
Petroleum Hydrocarbons F2	(150) 98	(150) 98	(250) 230	150
Petroleum Hydrocarbons F3	(1300) 300	(1300) 300	(2500) 1700	500
Petroleum Hydrocarbons F4	(5600) 2800	(5600) 2800	(6600) 3300	500
Phenanthrene	(7.8) 6.2	(7.8) 6.2	(16) 12	1
Phenol	9.4	9.4	9.4	890
Polychlorinated Biphenyls	0.35	0.35	1.1	0.2
Pyrene	78	78	96	4.1
Selenium	2.4	2.4	5.5	10
Silver	(25) 20	(25) 20	(50) 40	1.2
Styrene	(2.2) 0.7	(2.2) 0.7	(43) 34	5.4
Tetrachloroethane, 1,1,1,2-	(0.05) 0.058	(0.05) 0.058	(0.11) 0.087	1.1
Tetrachloroethane, 1,1,2,2-	0.05	0.05	(0.094) 0.05	0.5
Tetrachloroethylene	(2.3) 0.28	(2.3) 0.28	(2.5) 1.9	0.5
Thallium	1	1	3.3	2
Toluene	(6) 2.3	(6) 2.3	(9) 6.4	24
Trichlorobenzene, 1,2,4-	(1.4) 0.36	(1.4) 0.36	(16) 3.2	3
Trichloroethane, 1,1,1-	(3.4) 0.38	(3.4) 0.38	(12) 6.1	23
Trichloroethane, 1,1,2-	0.05	0.05	(0.11) 0.05	0.5
Trichloroethylene	(0.52) 0.061	(0.52) 0.061	(0.61) 0.55	0.5
Trichlorofluoromethane	(5.8) 4	(5.8) 4	(5.8) 4	150
Trichlorophenol, 2,4,5-	(5.5) 4.4	(5.5) 4.4	(10) 9.1	8.9
Trichlorophenol, 2,4,6-	(2.9) 2.1	(2.9) 2.1	(2.9) 2.1	2
Uranium	23	23	33	20
Vanadium	86	86	86	6.2
Vinyl Chloride	(0.022) 0.02	(0.022) 0.02	(0.25) 0.032	0.5

Table 6	Soil Standards (other than sediment) µg/g			Potable Ground Water µg/L
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Xylene Mixture	(25) 3.1	(25) 3.1	(30) 26	72
Zinc	340	340	340	890
Electrical Conductivity (mS/cm)	0.7	0.7	1.4	NA
Chloride	NA	NA	NA	790000
Sodium Adsorption Ratio	5	5	12	NA
Sodium	NA	NA	NA	490000

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Table 7	Soil Standards (other than sediment) µg/g		Non- Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Acenaphthene	(58) 7.9	96	17
Acenaphthylene	(0.17) 0.15	(0.17) 0.15	1
Acetone	(28) 16	(28) 16	100000
Aldrin	0.05	(0.11) 0.088	3
Anthracene	(0.74) 0.67	(0.74) 0.67	1
Antimony	7.5	(50) 40	16000
Arsenic	18	18	1500
Barium	390	670	23000
Benzene	(0.17) 0.21	(0.4) 0.32	0.5
Benz[a]anthracene	(0.63) 0.5	0.96	1.8
Benzo[a]pyrene	0.3	0.3	0.81
Benzo[b]fluoranthene	0.78	0.96	0.75
Benzo[ghi]perylene	(7.8) 6.6	9.6	0.2
Benzo[k]fluoranthene	0.78	0.96	0.4
Beryllium	(5) 4	(10) 8	53
Biphenyl 1,1'-	(1.1) 0.31	(210) 52	(1700) 1000
Bis(2-chloroethyl)ether	0.5	0.5	240000
Bis(2-chloroisopropyl)ether	(1.8) 0.67	(14) 11	20000
Bis(2-ethylhexyl)phthalate	5	(35) 28	30
Boron (Hot Water Soluble)*	1.5	2	NA
Boron (total)	120	120	36000
Bromodichloromethane	13	18	67000
Bromoform	(0.26) 0.27	(1.7) 0.61	5
Bromomethane	0.05	0.05	0.89
Cadmium	1.2	1.9	2.1
Carbon Tetrachloride	(0.12) 0.05	(1.5) 0.21	0.2
Chlordane	0.05	0.05	0.06
Chloroaniline p-	(0.53) 0.5	(0.53) 0.5	320
Chlorobenzene	(2.7) 2.4	(2.7) 2.4	140
Chloroform	(0.18) 0.05	(0.18) 0.47	2
Chlorophenol, 2-	(2) 1.6	(3.9) 3.1	2600
Chromium Total	160	160	640
Chromium VI	(10) 8	(10) 8	110
Chrysene	(7.8) 7	9.6	0.7
Cobalt	22	(100) 80	52
Copper	(180) 140	(300) 230	69
Cyanide (CN-)	0.051	0.051	52
Dibenz[a h]anthracene	0.1	0.1	0.4
Dibromochloromethane	9.4	13	65000
Dichlorobenzene, 1,2-	(4.3) 3.4	(8.5) 6.8	150
Dichlorobenzene, 1,3-	(6) 4.8	(12) 9.6	7600
Dichlorobenzene, 1,4-	(0.097) 0.083	(0.84) 0.2	0.5
Dichlorobenzidine, 3,3'-	1	1	500
Dichlorodifluoromethane	(25) 16	(25) 16	3500
DDD	3.3	4.6	1.8
DDE	(0.33) 0.26	(0.65) 0.52	17
DDT	1.4	1.4	0.05
Dichloroethane, 1,1-	(11) 3.5	(21) 17	11
Dichloroethane, 1,2-	0.05	0.05	0.5
Dichloroethylene, 1,1-	0.05	(0.48) 0.064	0.5
Dichloroethylene, 1,2-cis-	(30) 3.4	(37) 55	1.6
Dichloroethylene, 1,2-trans-	(0.75) 0.084	(9.3) 1.3	1.6
Dichlorophenol, 2,4-	(2.1) 1.7	(4.2) 3.4	3700
Dichloropropane, 1,2-	(0.085) 0.05	(0.68) 0.16	0.58
Dichloropropene,1,3-	(0.083) 0.05	(0.21) 0.18	0.5
Dieldrin	0.05	(0.11) 0.088	0.56

Table 7	Soil Standards (other than sediment) µg/g		Non- Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Diethyl Phthalate	0.5	0.5	30
Dimethylphthalate	0.5	0.5	30
Dimethylphenol, 2,4-	(420) 390	(440) 390	31000
Dinitrophenol, 2,4-	38	(66) 59	9000
Dinitrotoluene, 2,4 & 2,6-	0.92	1.2	2300
Dioxane, 1,4	1.8	1.8	190000
Dioxin/Furan (TEQ)	0.000013	0.000099	0.0001
Endosulfan	0.04	(0.38) 0.3	0.56
Endrin	0.04	0.04	0.36
Ethylbenzene	(15) 2	(19) 9.5	54
Ethylene dibromide	0.05	0.05	0.2
Fluoranthene	0.69	9.6	44
Fluorene	(69) 62	(69) 62	290
Heptachlor	0.15	0.19	0.038
Heptachlor Epoxide	0.05	0.05	0.038
Hexachlorobenzene	0.52	0.66	3.1
Hexachlorobutadiene	(0.014) 0.012	(0.095) 0.031	0.012
Hexachlorocyclohexane Gamma-	(0.063) 0.056	(0.063) 0.056	0.95
Hexachloroethane	(0.071) 0.089	(0.43) 0.21	0.17
Hexane (n)	(34) 2.8	(88) 46	5
Indeno[1 2 3-cd]pyrene	(0.48) 0.38	(0.95) 0.76	0.2
Lead	120	120	20
Mercury	(1.8) 0.27	(20) 3.9	0.1
Methoxychlor	0.13	1.6	0.3
Methyl Ethyl Ketone	(44) 16	(88) 70	21000
Methyl Isobutyl Ketone	(4.3) 1.7	(210) 31	5200
Methyl Mercury **	(0.0094) 0.0084	(0.0094) 0.0084	0.12
Methyl tert-Butyl Ether (MTBE)	(1.4) 0.75	(3.2) 11	15
Methylene Chloride	(0.96) 0.1	(2) 1.6	26
Methlynaphthalene, 2-(1-) ***	(3.4) 0.99	(85) 76	1500
Molybdenum	6.9	40	7300
Naphthalene	(0.75) 0.6	(28) 9.6	7
Nickel	(130) 100	(340) 270	390
Pentachlorophenol	0.1	(3.3) 2.9	50
Petroleum Hydrocarbons F1****	(65) 55	(65) 55	420
Petroleum Hydrocarbons F2	(150) 98	(250) 230	150
Petroleum Hydrocarbons F3	(1300) 300	(2500) 1700	500
Petroleum Hydrocarbons F4	(5600) 2800	(6600) 3300	500
Phenanthrene	(7.8) 6.2	(16) 12	380
Phenol	9.4	9.4	9600
Polychlorinated Biphenyls	0.35	1.1	0.2
Pyrene	78	96	5.7
Selenium	2.4	5.5	50
Silver	(25) 20	(50) 40	1.2
Styrene	(2.2) 0.7	(43) 34	43
Tetrachloroethane, 1,1,1,2-	(0.05) 0.058	(0.11) 0.087	1.1
Tetrachloroethane, 1,1,2,2-	0.05	(0.094) 0.05	0.5
Tetrachloroethylene	(2.3) 0.28	(21) 4.5	0.5
Thallium	1	3.3	400
Toluene	(6) 2.3	(78) 68	320
Trichlorobenzene, 1,2,4-	(1.4) 0.36	(16) 3.2	3
Trichloroethane, 1,1,1-	(3.4) 0.38	(12) 6.1	23
Trichloroethane, 1,1,2-	0.05	(0.11) 0.05	0.5
Trichloroethylene	(0.52) 0.061	(0.61) 0.91	0.5
Trichlorofluoromethane	(5.8) 4	(5.8) 4	2000
Trichlorophenol, 2,4,5-	(5.5) 4.4	10	1300
Trichlorophenol, 2,4,6-	(4.2) 3.8	(4.2) 3.8	180
Uranium	23	33	330
Vanadium	86	86	200
Vinyl Chloride	(0.022) 0.02	(0.25) 0.032	0.5

Table 7	Soil Standards (other than sediment) µg/g		Non- Potable Ground Water µg/L
Contaminant	Residential/ Parkland/Institutional Property Use	Industrial/ Commercial/Community Property Use	All Types of Property Use
Xylene Mixture	(25) 3.1	(30) 26	72
Zinc	340	340	890
Electrical Conductivity (mS/cm)	0.7	1.4	NA
Chloride	NA	NA	1800000
Sodium Adsorption Ratio	5	12	NA
Sodium	NA	NA	1800000

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 8 - Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition

Table 8	Soil (other than sediment) µg/g		Ground Water (µg/L)	Sediment µg/g
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All types of Property Use	All Types of Property Use
Acenaphthene	0.05	0.072	4.1	NV
Acenaphthylene	0.093	0.093	1	NV
Acetone	0.5	0.5	2700	NV
Aldrin	0.05	0.05	0.35	0.002
Anthracene	0.22	0.22	1	0.22
Antimony	1	1.3	6	NV
Arsenic	11	18	25	6
Barium	210	220	1000	NV
Benzene	0.02	0.02	5	NV
Benz[a]anthracene	0.32	0.36	1	0.32
Benzo[a]pyrene	0.078	0.3	0.01	0.37
Benzo[b]fluoranthene	0.3	0.47	0.1	NV
Benzo[ghi]perylene	0.2	0.68	0.2	0.17
Benzo[k]fluoranthene	0.24	0.48	0.1	0.24
Beryllium	2.5	2.5	4	NV
Biphenyl 1,1'-	0.05	0.05	0.5	NV
Bis(2-chloroethyl)ether	0.5	0.5	5	NV
Bis(2-chloroisopropyl)ether	0.5	0.5	120	NV
Bis(2-ethylhexyl)phthalate	5	5	10	NV
Boron (Hot Water Soluble)*	1.5	1.5	NA	NA
Boron (total)	36	36	5000	NV
Bromodichloromethane	0.05	0.05	16	NV
Bromoform	0.05	0.05	25	NV
Bromomethane	0.05	0.05	0.89	NV
Cadmium	1	1.2	2.1	0.6
Carbon Tetrachloride	0.05	0.05	0.79	NV
Chlordane	0.05	0.05	0.06	0.007
Chloroaniline p-	0.5	0.5	10	NV
Chlorobenzene	0.05	0.05	30	NV
Chloroform	0.05	0.05	2.4	NV
Chlorophenol, 2-	0.1	0.1	8.9	NV
Chromium Total	67	70	50	26
Chromium VI	0.66	0.66	25	NV
Chrysene	0.34	2.8	0.1	0.34
Cobalt	22	22	3.8	50
Copper	62	92	69	16
Cyanide (CN-)	0.051	0.051	52	0.1
Dibenz[a h]anthracene	0.1	0.1	0.2	0.06
Dibromochloromethane	0.05	0.05	25	NV
Dichlorobenzene, 1,2-	0.05	0.05	3	NV
Dichlorobenzene, 1,3-	0.05	0.05	59	NV
Dichlorobenzene, 1,4-	0.05	0.05	1	NV
Dichlorobenzidine, 3,3'-	1	1	0.5	NV
Dichlorodifluoromethane	0.05	0.05	590	NV
DDD	0.05	0.05	1.8	0.008
DDE	0.05	0.05	10	0.005
DDT	0.078	1.4	0.05	0.007
Dichloroethane, 1,1-	0.05	0.05	5	NV
Dichloroethane, 1,2-	0.05	0.05	1.6	NV
Dichloroethylene, 1,1-	0.05	0.05	1.6	NV
Dichloroethylene, 1,2-cis-	0.05	0.05	1.6	NV
Dichloroethylene, 1,2-trans-	0.05	0.05	1.6	NV
Dichlorophenol, 2,4-	0.1	0.1	20	NV
Dichloropropane, 1,2-	0.05	0.05	5	NV
Dichloropropene,1,3-	0.05	0.05	0.5	NV
Dieldrin	0.05	0.05	0.35	0.002

Table 8	Soil (other than sediment) µg/g		Ground Water (µg/L)	Sediment µg/g
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All types of Property Use	All Types of Property Use
Diethyl Phthalate	0.5	0.5	30	NV
Dimethylphthalate	0.5	0.5	30	NV
Dimethylphenol, 2,4-	0.2	0.2	59	NV
Dinitrophenol, 2,4-	2	2	10	NV
Dinitrotoluene, 2,4 & 2,6-	0.5	0.5	5	NV
Dioxane, 1,4	0.2	0.2	50	NV
Dioxin/Furan (TEQ)	0.000007	0.000007	0.000015	NV
Endosulfan	0.04	0.04	0.56	NV
Endrin	0.04	0.04	0.36	0.003
Ethylbenzene	0.05	0.05	2.4	NV
Ethylene dibromide	0.05	0.05	0.2	NV
Fluoranthene	0.69	0.69	0.41	0.75
Fluorene	0.19	0.19	120	0.19
Heptachlor	0.05	0.05	0.038	NV
Heptachlor Epoxide	0.05	0.05	0.038	0.005
Hexachlorobenzene	0.02	0.02	1	0.02
Hexachlorobutadiene	0.01	0.01	0.44	NV
Hexachlorocyclohexane Gamma-	0.01	0.01	0.95	NV
Hexachloroethane	0.01	0.01	2.1	NV
Hexane (n)	0.05	0.05	51	NV
Indeno[1 2 3-cd]pyrene	0.2	0.23	0.2	0.2
Lead	45	120	10	31
Mercury	0.2	0.27	0.29	0.2
Methoxychlor	0.05	0.05	0.3	NV
Methyl Ethyl Ketone	0.5	0.5	1800	NV
Methyl Isobutyl Ketone	0.5	0.5	640	NV
Methyl Mercury **	NV	NV	0.12	NV
Methyl tert-Butyl Ether (MTBE)	0.05	0.05	15	NV
Methylene Chloride	0.05	0.05	50	NV
Methlynaphthalene, 2-(1-) ***	0.05	0.59	3.2	NV
Molybdenum	2	2	70	NV
Naphthalene	0.05	0.09	11	NV
Nickel	37	82	100	16
Pentachlorophenol	0.1	0.1	30	NV
Petroleum Hydrocarbons F1****	17	25	420	NV
Petroleum Hydrocarbons F2	10	10	150	NV
Petroleum Hydrocarbons F3	240	240	500	NV
Petroleum Hydrocarbons F4	120	120	500	NV
Phenanthrene	0.56	0.69	1	0.56
Phenol	0.5	0.5	890	NV
Polychlorinated Biphenyls	0.3	0.3	0.2	0.07
Pyrene	0.49	1	4.1	0.49
Selenium	1.2	1.5	10	NV
Silver	0.5	0.5	1.2	0.5
Styrene	0.05	0.05	5.4	NV
Tetrachloroethane, 1,1,1,2-	0.05	0.05	1.1	NV
Tetrachloroethane, 1,1,2,2-	0.05	0.05	1	NV
Tetrachloroethylene	0.05	0.05	1.6	NV
Thallium	1	1	2	NV
Toluene	0.2	0.2	22	NV
Trichlorobenzene, 1,2,4-	0.05	0.05	70	NV
Trichloroethane, 1,1,1-	0.05	0.05	200	NV
Trichloroethane, 1,1,2-	0.05	0.05	4.7	NV
Trichloroethylene	0.05	0.05	1.6	NV
Trichlorofluoromethane	0.05	0.25	150	NV
Trichlorophenol, 2,4,5-	0.1	0.1	8.9	NV
Trichlorophenol, 2,4,6-	0.1	0.1	2	NV
Uranium	1.9	2.5	20	NV
Vanadium	86	86	6.2	NV
Vinyl Chloride	0.02	0.02	0.5	NV

Table 8	Soil (other than sediment) µg/g		Ground Water (µg/L)	Sediment µg/g
Contaminant	Agricultural or Other Property Use	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All types of Property Use	All Types of Property Use
Xylene Mixture	0.05	0.05	300	NV
Zinc	290	290	890	120
Electrical Conductivity (mS/cm)	0.7	0.7	NA	NA
Chloride	NA	NA	790000	NV
Sodium Adsorption Ratio	5	5	NA	NA
Sodium	NA	NA	490000	NV

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 9 - Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition

Table 9	Soil (other than sediment) µg/g	Ground Water (µg/L)	Sediment µg/g
Contaminant	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All Types of Property Use	All Types of Property Use
Acenaphthene	0.072	600	NV
Acenaphthylene	0.093	1.4	NV
Acetone	0.5	100000	NV
Aldrin	0.05	3	0.002
Anthracene	0.22	1	0.22
Antimony	1.3	16000	NV
Arsenic	18	1500	6
Barium	220	23000	NV
Benzene	0.02	44	NV
Benz[a]anthracene	0.36	1.8	0.32
Benzo[a]pyrene	0.3	0.81	0.37
Benzo[b]fluoranthene	0.47	0.75	NV
Benzo[ghi]perylene	0.68	0.2	0.17
Benzo[k]fluoranthene	0.48	0.4	0.24
Beryllium	2.5	53	NV
Biphenyl 1,1'-	0.05	1700	NV
Bis(2-chloroethyl)ether	0.5	240000	NV
Bis(2-chloroisopropyl)ether	0.5	20000	NV
Bis(2-ethylhexyl)phthalate	5	30	NV
Boron (Hot Water Soluble)*	1.5	NA	NA
Boron (total)	36	36000	NV
Bromodichloromethane	0.05	67000	NV
Bromoform	0.05	380	NV
Bromomethane	0.05	5.6	NV
Cadmium	1.2	2.1	0.6
Carbon Tetrachloride	0.05	0.79	NV
Chlordane	0.05	0.06	0.007
Chloroaniline p-	0.5	320	NV
Chlorobenzene	0.05	500	NV
Chloroform	0.05	2.4	NV
Chlorophenol, 2-	0.1	2600	NV
Chromium Total	70	640	26
Chromium VI	0.66	110	NV
Chrysene	2.8	0.7	0.34
Cobalt	22	52	50
Copper	92	69	16
Cyanide (CN-)	0.051	52	0.1
Dibenz[a h]anthracene	0.1	0.4	0.06
Dibromochloromethane	0.05	65000	NV
Dichlorobenzene, 1,2-	0.05	4600	NV
Dichlorobenzene, 1,3-	0.05	7600	NV
Dichlorobenzene, 1,4-	0.05	8	NV
Dichlorobenzidine, 3,3'-	1	500	NV
Dichlorodifluoromethane	0.05	3500	NV
DDD	0.05	1.8	0.008
DDE	0.05	17	0.005
DDT	1.4	0.05	0.007
Dichloroethane, 1,1-	0.05	320	NV
Dichloroethane, 1,2-	0.05	1.6	NV
Dichloroethylene, 1,1-	0.05	1.6	NV
Dichloroethylene, 1,2-cis-	0.05	1.6	NV
Dichloroethylene, 1,2-trans-	0.05	1.6	NV
Dichlorophenol, 2,4-	0.1	3700	NV
Dichloropropane, 1,2-	0.05	16	NV
Dichloropropene,1,3-	0.05	5.2	NV
Dieldrin	0.05	0.56	0.002

Table 9	Soil (other than sediment) µg/g	Ground Water (µg/L)	Sediment µg/g
Contaminant	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All Types of Property Use	All Types of Property Use
Diethyl Phthalate	0.5	30	NV
Dimethylphthalate	0.5	30	NV
Dimethylphenol, 2,4-	0.2	31000	NV
Dinitrophenol, 2,4-	2	9000	NV
Dinitrotoluene, 2,4 & 2,6-	0.5	2300	NV
Dioxane, 1,4	0.2	1900000	NV
Dioxin/Furan (TEQ)	0.000007	0.0001	NV
Endosulfan	0.04	0.56	NV
Endrin	0.04	0.36	0.003
Ethylbenzene	0.05	1800	NV
Ethylene dibromide	0.05	0.25	NV
Fluoranthene	0.69	73	0.75
Fluorene	0.19	290	0.19
Heptachlor	0.05	0.038	NV
Heptachlor Epoxide	0.05	0.038	0.005
Hexachlorobenzene	0.02	3.1	0.02
Hexachlorobutadiene	0.01	0.44	NV
Hexachlorocyclohexane Gamma-	0.01	0.95	NV
Hexachloroethane	0.01	94	NV
Hexane (n)	0.05	51	NV
Indeno[1 2 3-cd]pyrene	0.23	0.2	0.2
Lead	120	20	31
Mercury	0.27	0.29	0.2
Methoxychlor	0.05	0.3	NV
Methyl Ethyl Ketone	0.5	470000	NV
Methyl Isobutyl Ketone	0.5	140000	NV
Methyl Mercury **	NV	0.12	NV
Methyl tert-Butyl Ether (MTBE)	0.05	190	NV
Methylene Chloride	0.05	610	NV
Methlynaphthalene, 2-(1-) ***	0.59	1500	NV
Molybdenum	2	7300	NV
Naphthalene	0.09	1400	NV
Nickel	82	390	16
Pentachlorophenol	0.1	50	NV
Petroleum Hydrocarbons F1****	25	420	NV
Petroleum Hydrocarbons F2	10	150	NV
Petroleum Hydrocarbons F3	240	500	NV
Petroleum Hydrocarbons F4	120	500	NV
Phenanthrene	0.69	380	0.56
Phenol	0.5	9600	NV
Polychlorinated Biphenyls	0.3	0.2	0.07
Pyrene	1	5.7	0.49
Selenium	1.5	50	NV
Silver	0.5	1.2	0.5
Styrene	0.05	1300	NV
Tetrachloroethane, 1,1,1,2-	0.05	3.3	NV
Tetrachloroethane, 1,1,2,2-	0.05	3.2	NV
Tetrachloroethylene	0.05	1.6	NV
Thallium	1	400	NV
Toluene	0.2	14000	NV
Trichlorobenzene, 1,2,4-	0.05	180	NV
Trichloroethane, 1,1,1-	0.05	640	NV
Trichloroethane, 1,1,2-	0.05	4.7	NV
Trichloroethylene	0.05	1.6	NV
Trichlorofluoromethane	0.25	2000	NV
Trichlorophenol, 2,4,5-	0.1	1300	NV
Trichlorophenol, 2,4,6-	0.1	180	NV
Uranium	2.5	330	NV
Vanadium	86	200	NV
Vinyl Chloride	0.02	0.5	NV

Table 9	Soil (other than sediment) µg/g	Ground Water (µg/L)	Sediment µg/g
Contaminant	Residential/ Parkland/Institutional/ Industrial/Commercial/ Community Property Use	All Types of Property Use	All Types of Property Use
Xylene Mixture	0.05	3300	NV
Zinc	290	890	120
Electrical Conductivity (mS/cm)	0.7	NA	NA
Chloride	NA	1800000	NV
Sodium Adsorption Ratio	5	NA	NA
Sodium	NA	1800000	NV

Notes

( ) Standard in bracket applies to medium and fine textured soils

N/V= No value derived. N/A = Not applicable

* The boron standards are for hot water soluble extract for all surface soils. For subsurface soils the standards are for total boron (mixed strong acid digest), since plant protection for soils below the root zone is not a significant concern.

**Analysis for methyl mercury only applies when mercury (total) standard is exceeded

*** The methyl naphthalene standards are appliable to both 1-methyl naphthallene and 2- methyl naphthalene , with the provision that if both are detected the sum of the two must not exceed the standard.

**** F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.