

2025 Environmental Screening Level Summary Tables

Revision 4

Tier 1 ESLs Table

Tier 1 Environmental Screening Levels (ESLs)¹ are based on a generic conceptual site model designed for use at most sites.²

Chemicals	CAS No.	Groundwater (µg/L)	Soil ³ (mg/kg)	Subslab / Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
Acetone	67-64-1	1.5E+03	9.1E-01	1.0E+06	3.1E+04
Aldrin	309-00-2	7.7E-07	2.4E-03	1.9E-02	5.7E-04
Antimony	7440-36-0	6.0E+00	2.5E+01	--	--
Arsenic	7440-38-2	1.4E-01	3.2E-02	--	--
Barium	7440-39-3	1.0E+03	3.9E+02	--	--
Benzene	71-43-2	4.3E-01	2.5E-02	3.2E+00	9.7E-02
Beryllium	7440-41-7	3.3E-02	5.0E+00	--	--
1,1-Biphenyl	92-52-4	5.0E-01	4.3E-01	1.4E+01	4.2E-01
Bis(2-chloroethyl) ether	111-44-4	6.3E-03	3.4E-05	1.3E-01	4.0E-03
Bis(2-chloro-1-methylethyl) ether	108-60-1	6.1E+01	8.7E-01	7.5E+04	2.2E+03
Bis(2-ethylhexyl) phthalate	117-81-7	3.7E-01	8.0E-01	--	--
Boron	7440-42-8	1.6E+00	1.2E+02	--	--
Bromodichloromethane	75-27-4	8.8E-01	1.6E-02	2.5E+00	7.6E-02
Bromoform (Tribromomethane)	75-25-2	8.0E+01	6.9E-01	8.5E+01	2.6E+00
Bromomethane	74-83-9	7.5E+00	3.6E-01	1.7E+02	5.2E+00
Cadmium (soil)	7440-43-9	--	1.9E+00	--	--
Cadmium (water)	7440-43-9	2.5E-01	--	--	--
Carbon tetrachloride	56-23-5	4.1E-01	7.4E-02	1.6E+01	4.7E-01
Chlordane	12789-03-6	2.3E-05	8.5E-03	9.4E-01	2.8E-02
p-Chloroaniline	106-47-8	3.7E-01	6.8E-03	--	--
Chlorobenzene	108-90-7	2.5E+01	1.5E+00	1.7E+03	5.2E+01
Chloroethane	75-00-3	1.6E+01	1.2E+00	1.4E+05	4.2E+03
Chloroform	67-66-3	8.1E-01	2.3E-02	4.1E+00	1.2E-01

¹ ESLs are developed based on methodologies discussed in the User's Guide. Evaluation of laboratory detection limits and naturally occurring background or ambient concentrations should be independently conducted. See User's Guide Chapter 12 (Additional Considerations) for further information.

² Generic Conceptual Site Model - See User's Guide Chapter 2. Input settings are: a) Land Use = Residential; b) Groundwater Use = Drinking Water Resource; c) MCL Priority over Risk-Based Levels = Yes; d) Discharge to Surface Water = Saltwater & Freshwater; e) Vegetation Level = Substantial; f) Soil Exposure Depth = Shallow

³ The Soil ESLs are intended to be compared to soil data reported on a dry-weight basis. See User's Guide Section 12.6.2.

Chemicals	CAS No.	Groundwater (µg/L)	Soil ³ (mg/kg)	Subslab / Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
Chloromethane	74-87-3	1.9E+02	1.1E+01	3.1E+03	9.4E+01
2-Chlorophenol	95-57-8	1.8E-01	1.2E-02	6.3E+02	1.9E+01
Chromium (total)	7440-47-3	5.0E+01	1.6E+02	--	--
Chromium III	16065-83-1	1.8E+02	2.8E+02	--	--
Chromium VI	18540-29-9	2.0E+00	3.0E-01	--	--
Cobalt	7440-48-4	3.0E+00	2.2E+01	--	--
Copper	7440-50-8	3.0E+00	1.8E+02	--	--
Cyanide	57-12-5	1.0E+00	1.1E-01	2.8E+01	8.3E-01
Dibromochloromethane	124-48-1	2.1E+01	2.1E-01	--	--
1,2-dibromo-3-chloropropane	96-12-8	2.8E-02	5.7E-04	5.6E-03	1.7E-04
1,2-Dibromoethane	106-93-4	5.0E-02	5.3E-04	1.6E-01	4.7E-03
1,2-Dichlorobenzene	95-50-1	1.4E+01	1.1E+00	7.0E+03	2.1E+02
1,4-Dichlorobenzene	106-46-7	2.6E+00	2.0E-01	8.5E+00	2.6E-01
3,3-Dichlorobenzidine	91-94-1	4.7E-02	2.5E-02	--	--
DDD	72-54-8	1.2E-04	2.3E+00	--	--
DDE	72-55-9	1.8E-05	3.3E-01	9.6E-01	2.9E-02
DDT	50-29-3	3.0E-05	2.1E-02	--	--
1,1-Dichloroethane	75-34-3	5.0E+00	2.0E-01	5.8E+01	1.8E+00
1,2-Dichloroethane	107-06-2	5.0E-01	6.9E-03	3.6E+00	1.1E-01
1,1-Dichloroethene	75-35-4	9.0E-01	1.5E-01	1.4E+02	4.1E+00
cis-1,2-Dichloroethene	156-59-2	6.0E+00	1.9E-01	1.4E+03	4.2E+01
trans-1,2-Dichloroethene	156-60-5	1.0E+01	6.5E-01	1.4E+03	4.2E+01
2,4-Dichlorophenol	120-83-2	3.0E-01	7.3E-03	4.7E+04	1.4E+03
1,2-Dichloropropane	78-87-5	5.0E+00	1.4E-01	2.5E+01	7.6E-01
1,3-Dichloropropene	542-75-6	5.0E-01	1.7E-02	2.3E+01	7.0E-01
Dieldrin	60-57-1	1.2E-06	4.0E-06	--	--
Diethyl phthalate	84-66-2	1.5E+00	2.6E-02	--	--
2,4-Dimethylphenol	105-67-9	3.0E+01	2.4E+00	3.3E+01	1.0E+00
2,4-Dinitrophenol	51-28-5	4.0E+00	3.1E-01	--	--
2,4-Dinitrotoluene	121-14-2	2.4E-01	2.3E-02	--	--
1,4-Dioxane	123-91-1	4.6E-01	2.1E-04	1.9E+01	5.6E-01
Dioxin (2,3,7,8-TCDD)	1746-01-6	5.1E-09	4.8E-06	2.5E-06	7.4E-08
Endosulfan	115-29-7	8.7E-03	9.8E-03	--	--
Endrin	72-20-8	2.0E-03	1.1E-03	--	--
Ethylbenzene	100-41-4	3.5E+00	4.3E-01	3.7E+01	1.1E+00
Heptachlor	76-44-8	5.9E-06	1.3E-01	7.2E-02	2.2E-03
Heptachlor epoxide	1024-57-3	2.0E-05	3.4E-05	3.6E-02	1.1E-03
Hexachlorobenzene	118-74-1	7.9E-05	8.2E-05	1.8E-01	5.5E-03
Hexachlorobutadiene	87-68-3	1.0E-02	2.0E-03	4.3E+00	1.3E-01
γ-Hexachlorocyclohexane (Lindane)	58-89-9	4.0E-03	1.9E-03	--	--
Hexachloroethane	67-72-1	1.0E-01	5.7E-03	8.5E+00	2.6E-01
Lead	7439-92-1	2.0E+00	3.2E+01	--	--
Mercury (elemental)	7439-97-6	2.5E-02	6.5E-01	1.0E+00	3.1E-02
Methoxychlor	72-43-5	3.0E-03	1.3E-02	--	--
Methylene chloride	75-09-2	5.0E+00	1.2E-01	3.4E+01	1.0E+00

Chemicals	CAS No.	Groundwater (µg/L)	Soil ³ (mg/kg)	Subslab / Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
Methyl ethyl ketone	78-93-3	5.6E+03	6.1E+00	1.7E+05	5.2E+03
Methyl isobutyl ketone	108-10-1	1.2E+02	3.5E-01	1.4E+04	4.2E+02
Methyl mercury	22967-92-6	3.0E-03	3.4E-02	--	--
2-Methylnaphthalene	91-57-6	2.1E+00	8.7E-01	2.3E+03	6.8E+01
Methyl tertiary butyl ether (MTBE)	1634-04-4	5.0E+00	2.8E-02	3.6E+02	1.1E+01
Molybdenum	7439-98-7	1.0E+02	6.9E+00	--	--
Nickel	7440-02-0	5.0E+00	6.3E+01	--	--
PAH: Acenaphthene	83-32-9	1.5E+01	1.3E+01	1.7E+04	5.1E+02
PAH: Anthracene	120-12-7	7.3E-01	2.0E+00	--	--
PAH: Benzo[a]anthracene	56-55-3	1.3E-03	6.3E-01	3.1E-01	9.2E-03
PAH: Benzo[a]pyrene	50-32-8	1.3E-04	1.1E-01	--	--
PAH: Benzo[b]fluoranthene	205-99-2	1.3E-03	1.1E+00	--	--
PAH: Benzo[k]fluoranthene	207-08-9	1.3E-02	2.8E+00	--	--
PAH: Chrysene	218-01-9	4.9E-02	2.2E+00	--	--
PAH: Dibenzo[a,h]anthracene	53-70-3	1.3E-04	2.8E-02	--	--
PAH: Fluoranthene	206-44-0	8.0E+00	6.9E-01	--	--
PAH: Fluorene	86-73-7	3.9E+00	5.9E+00	--	--
PAH: Indeno[1,2,3-c,d]pyrene	193-39-5	1.3E-03	4.8E-01	--	--
PAH: Naphthalene	91-20-3	1.2E-01	3.0E-02	2.8E+00	8.3E-02
PAH: Pyrene	129-00-0	2.0E+00	4.4E+01	--	--
Pentachlorophenol	87-86-5	4.0E-02	3.9E-03	--	--
Perchlorate	14797-73-0	6.0E+00	1.2E-02	--	--
Petroleum: Gasoline	--	1.0E+02	1.0E+02	3.3E+03	1.0E+02
Petroleum: Stoddard Solvent	--	1.0E+02	1.0E+02	1.0E+04	3.1E+02
Petroleum: Jet Fuel	--	1.0E+02	1.0E+02	1.0E+04	3.1E+02
Petroleum: Diesel	--	1.0E+02	2.0E+02	6.8E+03	2.0E+02
Petroleum: HOPs	--	1.0E+02	--	--	--
Petroleum: Motor Oil	--	--	1.6E+03	--	--
PFAS: Perfluoropropanoic acid (PFPrA)	422-64-0	2.0E-01	3.9E+01	--	--
PFAS: Perfluorobutanoic acid (PFBA)	375-22-4	1.8E+01	3.0E+00	--	--
PFAS: Perfluoropentanoic acid (PFPeA)	2706-90-3	1.4E+02	1.0E+02	--	--
PFAS: Perfluorohexanoic acid (PFHxA)	307-24-4	9.9E+00	6.2E+00	--	--
PFAS: Perfluoroheptanoic acid (PFHpA)	375-85-9	8.7E+02	1.0E+00	--	--
PFAS: Perfluorooctanoic acid (PFOA)	335-67-1	3.6E-06	1.9E-05	--	--
PFAS: Perfluorononanoic acid (PFNA)	375-95-1	< 0.01 (HI Calc) ⁴	2.4E-02	--	--

⁴ PFAS Mixture MCL Hazard Index (HI) Calculation (Calc): The HI should be equal to or less than 1 for mixtures of two or more of the following PFAS: PFNA, PFHxS, HFPO-DA, and PFBS. See ESL User's Guide Section 3.6.6 for more information on the PFAS MCL HI Calc.

Chemicals	CAS No.	Groundwater (µg/L)	Soil ³ (mg/kg)	Subslab / Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
PFAS: Perfluorodecanoic acid (PFDA)	335-76-2	4.0E-05	1.3E-04	--	--
PFAS: Perfluoroundecanoic acid (PFUDA)	2058-94-8	6.0E+00	1.9E+01	--	--
PFAS: Perfluorododecanoic acid (PFDoDA)	307-55-1	1.0E+00	3.2E+00	--	--
PFAS: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	2.0E+01	6.3E+01	--	--
PFAS: Perfluorooctadecanoic acid (PFODA)	16517-11-6	2.4E+00	3.8E+00	--	--
PFAS: Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0E-01	8.2E-01	--	--
PFAS: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	< 0.01 (HI Calc) ⁴	1.5E-01	--	--
PFAS: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	7.0E-05	4.0E-03	--	--
PFAS: Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	< 0.01 (HI Calc) ⁴	2.3E-01	--	--
Phenol	108-95-2	3.0E+01	9.3E-01	5.2E+03	1.6E+02
Polychlorinated biphenyls (PCBs)	1336-36-3	1.9E-05	2.3E-01	1.6E-01	4.9E-03
Selenium	7782-49-2	5.0E-01	2.4E+00	--	--
Silver	7440-22-4	7.0E-01	2.5E+01	--	--
Styrene	100-42-5	1.0E+01	9.1E-01	3.1E+04	9.4E+02
tert-Butyl alcohol	75-65-0	1.2E+01	4.9E-03	1.7E+05	5.2E+03
1,1,1,2-Tetrachloroethane	630-20-6	5.7E-01	1.7E-02	1.3E+01	3.8E-01
1,1,2,2-Tetrachloroethane	79-34-5	1.0E+00	1.8E-02	1.6E+00	4.8E-02
Tetrachloroethene	127-18-4	6.4E-01	8.0E-02	1.5E+01	4.6E-01
Thallium	7440-28-0	4.7E-01	7.8E-01	--	--
Toluene	108-88-3	4.0E+01	3.2E+00	1.5E+04	4.4E+02
Toxaphene	8001-35-2	2.0E-04	4.5E-01	--	--
1,2,4-Trichlorobenzene	120-82-1	7.6E-02	1.8E-02	7.0E+01	2.1E+00
1,1,1-Trichloroethane	71-55-6	6.2E+01	7.1E+00	3.5E+04	1.0E+03
1,1,2-Trichloroethane	79-00-5	5.0E+00	7.6E-02	5.8E+00	1.8E-01
Trichloroethene	79-01-6	1.2E+00	8.5E-02	1.6E+01	4.8E-01
2,4,5-Trichlorophenol	95-95-4	1.0E+00	2.7E-01	--	--
2,4,6-Trichlorophenol	88-06-2	2.9E-01	1.8E-02	1.0E+01	3.0E-01
1,2,3-Trichloropropane	96-18-4	5.0E-03	1.1E-04	1.0E+01	3.1E-01
Vanadium	7440-62-2	1.9E+01	1.8E+01	--	--
Vinyl chloride	75-01-4	8.3E-03	1.5E-03	3.2E-01	9.5E-03
Xylenes	1330-20-7	2.0E+01	2.1E+00	3.5E+03	1.0E+02
Zinc	7440-66-6	2.0E+01	3.4E+02	--	--

Summary Table of Groundwater Environmental Screening Levels (µg/L)

Chemicals	Cas No	Direct Exp Levels: MCL ⁵	Direct Exp Levels: Tap- water Cancer Risk	Direct Exp Levels: Tap- water Non- cancer Hazard	Aquatic Habitat Levels: Fresh Water Ecotox	Aquatic Habitat Levels: Saltwater Ecotox	Aquatic Habitat Levels: Seafood Ingestion Human Health	Vapor Intrusion Levels: Res Cancer Risk	Vapor Intrusion Levels: Res Non- cancer Hazard	Vapor Intrusion Levels: Com/ Ind Cancer Risk	Vapor Intrusion Levels: Com/ Ind Non- cancer Hazard	Gross Contam Levels	Odor Nuisance Levels: Drinking Water	Odor Nuisance Levels: Non- Drinking Water
Acetone	67-64-1	--	--	1.4E+04	1.5E+03	--	--	--	2.3E+07	--	9.5E+07	5.0E+04	2.0E+04	2.0E+05
Aldrin	309-00-2	--	9.2E-04	2.0E-03	3.0E-01	1.3E-01	7.7E-07	3.2E-01	--	1.4E+00	--	8.5E+00	1.7E+01	1.7E+02
Antimony	7440-36-0	6.0E+00	--	1.0E+00	3.0E+01	5.0E+02	6.4E+02	--	--	--	--	5.0E+04	--	--
Arsenic	7440-38-2	1.0E+01	2.4E-03	7.0E-02	1.5E+02	8.0E+00	1.4E-01	--	--	--	--	5.0E+04	--	--
Barium	7440-39-3	1.0E+03	--	2.0E+03	--	--	--	--	--	--	--	5.0E+04	--	--
Benzene	71-43-2	1.0E+00	1.5E-01	5.7E+00	4.6E+01	3.5E+02	5.9E+00	4.3E-01	1.4E+01	1.9E+00	5.8E+01	5.0E+04	1.7E+02	2.0E+04
Beryllium	7440-41-7	4.0E+00	--	1.0E+00	2.7E+00	--	3.3E-02	--	--	--	--	5.0E+04	--	--
1,1-Biphenyl	92-52-4	--	3.9E+00	8.3E-01	1.4E+01	--	--	--	3.3E+01	--	1.4E+02	3.7E+03	5.0E-01	5.0E+00
Bis(2-chloroethyl) ether	111-44-4	--	6.3E-03	--	6.1E+01	--	4.5E-02	5.7E+00	--	2.5E+01	--	5.0E+04	3.6E+02	3.6E+03
Bis(2-chloro-1-methylethyl) ether	108-60-1	--	--	7.1E+02	6.1E+01	--	4.0E+03	--	--	--	--	5.0E+04	3.2E+02	3.2E+03
Bis(2-ethylhexyl) phthalate	117-81-7	4.0E+00	5.6E+00	4.0E+02	3.2E+01	--	3.7E-01	--	--	--	--	1.4E+02	--	--
Boron	7440-42-8	--	--	1.0E+03	1.6E+00	--	--	--	--	--	--	5.0E+04	--	--
Bromodichloromethane	75-27-4	8.0E+01	6.0E-02	1.5E+02	1.1E+03	3.2E+03	2.7E+01	8.8E-01	--	3.8E+00	--	5.0E+04	--	--
Bromoform (Tribromomethane)	75-25-2	8.0E+01	5.0E-01	3.8E+02	1.1E+03	3.2E+03	1.2E+02	1.2E+02	--	5.1E+02	--	5.0E+04	5.1E+02	5.1E+03
Bromomethane	74-83-9	--	--	7.5E+00	1.6E+02	3.2E+03	4.0E+03	--	1.7E+01	--	7.3E+01	5.0E+04	--	--
Cadmium (water)	7440-43-9	5.0E+00	--	4.0E-02	2.5E-01	1.0E+00	--	--	--	--	--	5.0E+04	--	--
Carbon tetrachloride	56-23-5	5.0E-01	1.0E-01	3.7E+01	2.4E+02	3.2E+03	9.0E-01	4.1E-01	3.7E+01	1.8E+00	1.6E+02	5.0E+04	5.2E+02	5.2E+03
Chlordane	12789-03-6	1.0E-01	2.0E-02	7.4E-01	4.3E-03	4.0E-03	2.3E-05	1.4E+01	3.7E+02	6.2E+01	1.5E+03	2.8E+01	2.5E+00	2.5E+01
p-Chloroaniline	106-47-8	--	3.7E-01	9.5E+00	5.0E+00	--	--	--	--	--	--	5.0E+04	--	--
Chlorobenzene	108-90-7	7.0E+01	--	7.0E+01	2.5E+01	6.5E+01	5.7E+02	--	4.1E+02	--	1.7E+03	5.0E+04	5.0E+01	5.0E+02
Chloroethane	75-00-3	--	--	8.3E+03	--	--	--	--	9.2E+03	--	3.9E+04	5.0E+04	1.6E+01	1.6E+02
Chloroform	67-66-3	8.0E+01	2.2E-01	4.0E+00	6.2E+02	3.2E+03	1.3E+02	8.1E-01	1.4E+01	3.6E+00	5.7E+01	5.0E+04	2.4E+03	2.4E+04
Chloromethane	74-87-3	--	--	1.9E+02	1.1E+03	3.2E+03	--	--	2.6E+02	--	1.1E+03	5.0E+04	--	--
2-Chlorophenol	95-57-8	--	--	9.1E+01	4.4E+02	1.0E+00	4.0E+02	--	--	--	--	5.0E+04	1.8E-01	1.8E+00
Chromium (total)	7440-47-3	5.0E+01	--	--	1.8E+02	--	--	--	--	--	--	5.0E+04	--	--
Chromium III	16065-83-1	--	--	2.2E+04	1.8E+02	1.0E+03	1.9E+05	--	--	--	--	5.0E+04	--	--
Chromium VI	18540-29-9	1.0E+01	2.0E-02	1.3E+01	1.1E+01	2.0E+00	--	--	--	--	--	5.0E+04	--	--
Cobalt	7440-48-4	--	--	6.0E+00	3.0E+00	--	--	--	--	--	--	5.0E+04	--	--

⁵ The lowest of Primary and Secondary Maximum Contaminant Levels (MCL) from USEPA and California.

Summary Table of Groundwater Environmental Screening Levels (µg/L)

Chemicals	Cas No	Direct Exp Levels: MCL ⁵	Direct Exp Levels: Tap-water Cancer Risk	Direct Exp Levels: Tap-water Non-cancer Hazard	Aquatic Habitat Levels: Fresh Water Ecotox	Aquatic Habitat Levels: Saltwater Ecotox	Aquatic Habitat Levels: Seafood Ingestion Human Health	Vapor Intrusion Levels: Res Cancer Risk	Vapor Intrusion Levels: Res Non-cancer Hazard	Vapor Intrusion Levels: Com/ Ind Cancer Risk	Vapor Intrusion Levels: Com/ Ind Non-cancer Hazard	Gross Contam Levels	Odor Nuisance Levels: Drinking Water	Odor Nuisance Levels: Non-Drinking Water
Copper	7440-50-8	1.0E+03	--	3.0E+02	9.0E+00	3.0E+00	--	--	--	--	--	5.0E+04	1.0E+03	--
Cyanide	57-12-5	1.5E+02	--	1.5E+00	5.2E+00	1.0E+00	4.0E+02	--	2.0E+02	--	8.4E+02	5.0E+04	1.7E+02	1.7E+03
Dibromochloromethane	124-48-1	8.0E+01	1.0E-01	3.8E+02	1.1E+03	3.2E+03	2.1E+01	--	--	--	--	5.0E+04	--	--
1,2-dibromo-3-chloropropane	96-12-8	2.0E-01	3.0E-04	3.7E-01	--	--	--	2.8E-02	3.5E+01	3.4E-01	1.5E+02	5.0E+04	1.0E+01	1.0E+02
1,2-Dibromoethane	106-93-4	5.0E-02	7.5E-03	1.7E+00	1.4E+03	--	--	1.8E-01	3.1E+01	7.7E-01	1.3E+02	5.0E+04	--	--
1,2-Dichlorobenzene	95-50-1	6.0E+02	--	3.0E+02	1.4E+01	6.5E+01	3.0E+03	--	2.7E+03	--	1.1E+04	5.0E+04	1.0E+02	1.0E+02
1,4-Dichlorobenzene	106-46-7	5.0E+00	4.8E-01	5.7E+02	1.5E+01	6.5E+01	1.8E+01	2.6E+00	8.5E+03	1.1E+01	3.6E+04	4.1E+04	5.0E+00	1.1E+02
3,3-Dichlorobenzidine	91-94-1	--	4.7E-02	--	2.5E+02	--	7.7E-02	--	--	--	--	1.6E+03	--	--
DDD	72-54-8	--	3.2E-02	1.1E+00	1.0E-03	1.0E-03	1.2E-04	--	--	--	--	4.5E+01	--	--
DDE	72-55-9	--	4.6E-02	1.0E+01	1.0E-03	1.0E-03	1.8E-05	1.7E+01	--	7.4E+01	--	2.0E+01	--	--
DDT	50-29-3	--	2.3E-01	1.0E+01	1.0E-03	1.0E-03	3.0E-05	--	--	--	--	2.8E+00	3.5E+02	3.5E+03
1,1-Dichloroethane	75-34-3	5.0E+00	2.8E+00	3.8E+03	4.7E+01	--	--	7.6E+00	--	3.3E+01	--	5.0E+04	--	--
1,2-Dichloroethane	107-06-2	5.0E-01	1.7E-01	1.3E+01	1.0E+04	1.1E+04	2.8E+01	2.2E+00	1.5E+02	9.8E+00	6.4E+02	5.0E+04	7.0E+03	2.0E+05
1,1-Dichloroethene	75-35-4	6.0E+00	--	8.2E+00	2.5E+01	2.2E+04	9.0E-01	--	3.9E+00	--	1.6E+01	5.0E+04	1.5E+03	1.5E+04
cis-1,2-Dichloroethene	156-59-2	6.0E+00	--	1.3E+01	5.9E+02	2.2E+04	--	--	2.5E+02	--	1.1E+03	5.0E+04	--	--
trans-1,2-Dichloroethene	156-60-5	1.0E+01	--	5.0E+01	5.9E+02	2.2E+04	4.0E+03	--	1.1E+02	--	4.6E+02	5.0E+04	2.6E+02	2.6E+03
2,4-Dichlorophenol	120-83-2	--	--	4.6E+01	1.8E+02	1.0E+00	6.0E+01	--	--	--	--	5.0E+04	3.0E-01	3.0E+00
1,2-Dichloropropane	78-87-5	5.0E+00	5.0E-01	8.2E+00	2.9E+03	1.5E+03	3.1E+01	6.6E+00	3.6E+01	2.9E+01	1.5E+02	5.0E+04	1.0E+01	1.0E+02
1,3-Dichloropropene	542-75-6	5.0E-01	2.0E-01	3.9E+01	1.2E+02	7.9E+01	1.2E+01	4.8E+00	1.4E+02	2.1E+01	6.0E+02	5.0E+04	--	--
Dieldrin	60-57-1	--	1.8E-03	2.0E-03	5.6E-02	1.9E-03	1.2E-06	--	--	--	--	9.8E+01	4.1E+01	4.1E+02
Diethyl phthalate	84-66-2	--	--	1.5E+04	1.5E+00	1.7E+00	6.0E+02	--	--	--	--	5.0E+04	--	--
2,4-Dimethylphenol	105-67-9	--	--	1.0E+02	5.3E+02	3.0E+01	2.3E+03	--	--	--	--	5.0E+04	4.0E+02	4.0E+03
2,4-Dinitrophenol	51-28-5	--	--	3.9E+01	7.5E+01	3.0E+01	4.0E+00	--	--	--	--	5.0E+04	--	--
2,4-Dinitrotoluene	121-14-2	--	2.4E-01	3.8E+01	1.2E+02	1.9E+02	1.7E+00	--	--	--	--	5.0E+04	--	--
1,4-Dioxane	123-91-1	--	4.6E-01	5.7E+01	3.4E+05	5.0E+05	--	2.9E+03	1.6E+05	1.2E+04	6.7E+05	5.0E+04	2.3E+05	--
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.0E-05	1.2E-07	1.2E-05	5.0E-06	--	5.1E-09	3.6E-05	2.0E-02	1.6E-04	8.6E-02	1.0E-01	--	--
Endosulfan	115-29-7	--	--	1.0E+02	5.6E-02	8.7E-03	2.4E+02	--	--	--	--	1.6E+02	--	--
Endrin	72-20-8	2.0E+00	--	3.0E-01	3.6E-02	2.0E-03	3.0E-02	--	--	--	--	1.3E+02	4.1E+01	4.1E+02
Ethylbenzene	100-41-4	3.0E+02	1.5E+00	3.0E+02	2.9E+02	4.3E+01	1.3E+02	3.5E+00	3.2E+03	1.5E+01	1.4E+04	5.0E+04	3.0E+01	3.0E+02
Heptachlor	76-44-8	1.0E-02	1.4E-03	2.6E-01	3.8E-03	3.6E-03	5.9E-06	1.8E-01	--	7.8E-01	--	9.0E+01	2.0E+01	2.0E+02
Heptachlor epoxide	1024-57-3	1.0E-02	1.4E-03	1.2E-01	3.8E-03	3.6E-03	2.0E-05	1.3E+00	--	5.5E+00	--	1.0E+02	--	--

Summary Table of Groundwater Environmental Screening Levels (µg/L)

Chemicals	Cas No	Direct Exp Levels: MCL ⁵	Direct Exp Levels: Tap- water Cancer Risk	Direct Exp Levels: Tap- water Non- cancer Hazard	Aquatic Habitat Levels: Fresh Water Ecotox	Aquatic Habitat Levels: Saltwater Ecotox	Aquatic Habitat Levels: Seafood Ingestion Human Health	Vapor Intrusion Levels: Res Cancer Risk	Vapor Intrusion Levels: Res Non- cancer Hazard	Vapor Intrusion Levels: Com/ Ind Cancer Risk	Vapor Intrusion Levels: Com/ Ind Non- cancer Hazard	Gross Contam Levels	Odor Nuisance Levels: Drinking Water	Odor Nuisance Levels: Non- Drinking Water
Hexachlorobenzene	118-74-1	1.0E+00	8.8E-03	2.0E-01	3.7E+00	6.5E+01	7.9E-05	7.9E-02	--	3.5E-01	--	3.1E+00	3.0E+03	3.0E+04
Hexachlorobutadiene	87-68-3	--	1.4E-01	6.5E+00	4.7E+00	3.2E+00	1.0E-02	3.0E-01	--	1.3E+00	--	1.6E+03	6.0E+00	6.0E+01
γ-Hexachlorocyclohexane (Lindane)	58-89-9	2.0E-01	3.2E-02	9.7E-03	8.0E-02	4.0E-03	6.3E-02	--	--	--	--	3.7E+03	1.2E+04	1.2E+05
Hexachloroethane	67-72-1	--	3.3E-01	6.2E+00	1.2E+01	9.4E+01	1.0E-01	1.6E+00	2.0E+02	7.0E+00	8.3E+02	2.5E+04	1.0E+01	1.0E+02
Lead	7439-92-1	1.5E+01	--	2.0E-01	2.5E+00	2.0E+00	--	--	--	--	--	5.0E+04	--	--
Mercury (elemental)	7439-97-6	2.0E+00	--	6.1E-02	2.5E-02	2.5E-02	5.1E-02	--	8.9E-02	--	3.7E-01	3.0E+01	--	--
Methoxychlor	72-43-5	3.0E+01	--	9.0E-02	1.9E-02	3.0E-03	2.0E-02	--	--	--	--	5.0E+01	4.7E+03	4.7E+04
Methylene chloride	75-09-2	5.0E+00	1.7E+00	1.0E+02	2.2E+03	3.2E+03	1.0E+03	7.6E+00	3.1E+03	9.2E+01	1.3E+04	5.0E+04	9.1E+03	9.1E+04
Methyl ethyl ketone	78-93-3	--	--	5.6E+03	1.4E+04	--	--	--	2.2E+06	--	9.4E+06	5.0E+04	8.4E+03	8.4E+04
Methyl isobutyl ketone	108-10-1	--	--	1.2E+02	1.7E+02	--	--	--	5.5E+05	--	2.3E+06	5.0E+04	1.3E+03	1.3E+04
Methyl mercury	22967-92-6	--	--	2.0E+00	3.0E-03	--	--	--	--	--	--	5.0E+04	--	--
2-Methylnaphthalene	91-57-6	--	--	3.6E+01	2.1E+00	3.0E+01	--	--	--	--	--	1.2E+04	1.0E+01	1.0E+02
Methyl tertiary butyl ether (MTBE)	1634-04-4	5.0E+00	1.3E+01	6.3E+03	6.6E+04	8.0E+03	--	4.5E+02	1.3E+05	2.0E+03	5.5E+05	5.0E+04	5.0E+00	1.8E+03
Molybdenum	7439-98-7	--	--	1.0E+02	2.4E+02	--	--	--	--	--	--	5.0E+04	--	--
Nickel	7440-02-0	1.0E+02	1.2E+01	2.2E+02	5.2E+01	5.0E+00	4.6E+03	--	--	--	--	5.0E+04	--	--
PAH: Acenaphthene	83-32-9	--	--	5.3E+02	2.3E+01	1.5E+01	9.0E+01	--	--	--	--	2.0E+03	2.0E+01	2.0E+02
PAH: Anthracene	120-12-7	--	--	1.8E+03	7.3E-01	1.5E+01	4.0E+02	--	--	--	--	2.2E+01	--	--
PAH: Benzo[a]anthracene	56-55-3	--	1.7E-02	--	2.7E-02	1.5E+01	1.3E-03	1.9E+01	--	2.3E+02	--	4.7E+00	--	--
PAH: Benzo[a]pyrene	50-32-8	2.0E-01	7.0E-03	6.0E+00	1.4E-02	1.5E+01	1.3E-04	--	--	--	--	8.1E-01	--	--
PAH: Benzo[b]fluoranthene	205-99-2	--	2.5E-01	--	--	1.5E+01	1.3E-03	--	--	--	--	7.5E-01	--	--
PAH: Benzo[k]fluoranthene	207-08-9	--	2.5E+00	--	3.7E+00	1.5E+01	1.3E-02	--	--	--	--	4.0E-01	--	--
PAH: Chrysene	218-01-9	--	2.5E+01	--	3.5E-01	1.5E+01	4.9E-02	--	--	--	--	1.0E+00	--	--
PAH: Dibenzo[a,h]anthracene	53-70-3	--	6.1E-03	--	7.5E+00	1.5E+01	1.3E-04	--	--	--	--	1.2E+00	--	--
PAH: Fluoranthene	206-44-0	--	--	8.0E+02	8.1E+00	8.0E+00	2.0E+01	--	--	--	--	1.3E+02	--	--
PAH: Fluorene	86-73-7	--	--	2.9E+02	3.9E+00	1.5E+01	7.0E+01	--	--	--	--	8.5E+02	--	--
PAH: Indeno[1,2,3-c,d]pyrene	193-39-5	--	2.5E-01	--	--	1.5E+01	1.3E-03	--	--	--	--	9.5E-02	--	--
PAH: Naphthalene	91-20-3	--	1.2E-01	6.1E+00	2.4E+01	1.5E+01	--	4.6E+00	1.7E+02	2.0E+01	7.3E+02	1.6E+04	2.1E+01	2.1E+02
PAH: Pyrene	129-00-0	--	--	1.2E+02	2.0E+00	1.5E+01	3.0E+01	--	--	--	--	6.8E+01	--	--
Pentachlorophenol	87-86-5	1.0E+00	4.1E-02	2.3E+01	1.5E+01	1.0E+00	4.0E-02	--	--	--	--	7.0E+03	3.0E+01	5.9E+03
Perchlorate	14797-73-0	6.0E+00	--	1.0E+00	6.0E+02	--	--	--	--	--	--	5.0E+04	--	--

Summary Table of Groundwater Environmental Screening Levels (µg/L)

Chemicals	Cas No	Direct Exp Levels: MCL ⁵	Direct Exp Levels: Tap-water Cancer Risk	Direct Exp Levels: Tap-water Non-cancer Hazard	Aquatic Habitat Levels: Fresh Water Ecotox	Aquatic Habitat Levels: Saltwater Ecotox	Aquatic Habitat Levels: Seafood Ingestion Human Health	Vapor Intrusion Levels: Res Cancer Risk	Vapor Intrusion Levels: Res Non-cancer Hazard	Vapor Intrusion Levels: Com/ Ind Cancer Risk	Vapor Intrusion Levels: Com/ Ind Non-cancer Hazard	Gross Contam Levels	Odor Nuisance Levels: Drinking Water	Odor Nuisance Levels: Non-Drinking Water
Petroleum: Gasoline	--	--	--	8.0E+02	4.4E+02	3.7E+03	--	--	--	--	--	5.0E+04	1.0E+02	5.0E+03
Petroleum: Stoddard Solvent	--	--	--	2.1E+02	6.4E+02	6.4E+02	--	--	--	--	--	2.5E+03	1.0E+02	5.0E+03
Petroleum: Jet Fuel	--	--	--	2.1E+02	6.4E+02	6.4E+02	--	--	--	--	--	2.5E+03	1.0E+02	5.0E+03
Petroleum: Diesel	--	--	--	1.8E+02	6.4E+02	6.4E+02	--	--	--	--	--	2.5E+03	1.0E+02	5.0E+03
Petroleum: HOPs	--	--	--	4.1E+02	6.4E+02	6.4E+02	--	--	--	--	--	5.0E+04	1.0E+02	5.0E+03
Petroleum: Motor Oil ⁶	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluoropropanoic acid (PFPrA)	422-64-0	--	--	9.8E+00	2.0E-01	2.0E-01	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluorobutanoic acid (PFBA)	375-22-4	--	--	1.8E+01	7.6E+01	1.2E+02	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluoropentanoic acid (PFPeA)	2706-90-3	--	--	--	1.4E+02	--	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluorohexanoic acid (PFHxA)	307-24-4	--	--	9.9E+00	3.4E+01	5.4E+02	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluoroheptanoic acid (PFHpA)	375-85-9	--	--	--	8.7E+02	--	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluorooctanoic acid (PFOA)	335-67-1	4.0E-03	2.7E-06	6.0E-04	4.8E+01	3.2E+00	3.6E-06	--	--	--	--	5.0E+04	--	--
PFAS: Perfluorononanoic acid (PFNA)	375-95-1	< 0.01 (HI Calc) ⁷	--	5.9E-02	1.2E-01	1.2E-01	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluorodecanoic acid (PFDA)	335-76-2	--	--	4.0E-05	9.4E-02	9.4E-02	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluoroundecanoic acid (PFUDA)	2058-94-8	--	--	6.0E+00	4.9E+01	--	--	--	--	--	--	4.6E+04	--	--
PFAS: Perfluorododecanoic acid (PFDoDA)	307-55-1	--	--	1.0E+00	7.2E+01	--	--	--	--	--	--	4.1E+04	--	--
PFAS: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	--	--	2.0E+01	--	--	--	--	--	--	--	1.5E+02	--	--
PFAS: Perfluorooctadecanoic acid (PFODA)	16517-11-6	--	--	8.0E+02	--	--	--	--	--	--	--	2.4E+00	--	--
PFAS: Perfluorobutane sulfonic acid (PFBS)	375-73-5	< 2.0 (HI Calc) ⁷	--	5.0E-01	2.1E+02	2.1E+02	5.0E-01	--	--	--	--	5.0E+04	--	--

⁶ Petroleum Motor Oil is composed of large carbon chain compounds (C24-C36+) having negligible solubility. Detections in water samples typically are Petroleum HOPs, nonaqueous phase liquid (NAPL or free product), contaminated sediment entrained in the water sample, or naturally occurring compounds. Review the chromatograms to help determine the nature of the compounds being detected. See User's Guide Chapter 4.

⁷ PFAS Mixture MCL Hazard Index (HI) Calculation (Calc): The HI should be equal to or less than 1 for mixtures of two or more of the following PFAS: PFNA, PFHxS, HFPO-DA, and PFBS. See ESL User's Guide Section 3.6.6 for more information on the PFAS MCL HI Calc.

Summary Table of Groundwater Environmental Screening Levels (µg/L)

Chemicals	Cas No	Direct Exp Levels: MCL ⁵	Direct Exp Levels: Tap-water Cancer Risk	Direct Exp Levels: Tap-water Non-cancer Hazard	Aquatic Habitat Levels: Fresh Water Ecotox	Aquatic Habitat Levels: Saltwater Ecotox	Aquatic Habitat Levels: Seafood Ingestion Human Health	Vapor Intrusion Levels: Res Cancer Risk	Vapor Intrusion Levels: Res Non-cancer Hazard	Vapor Intrusion Levels: Com/ Ind Cancer Risk	Vapor Intrusion Levels: Com/ Ind Non-cancer Hazard	Gross Contam Levels	Odor Nuisance Levels: Drinking Water	Odor Nuisance Levels: Non-Drinking Water
PFAS: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	< 0.01 (HI Calc) ⁷	--	3.0E-03	1.4E+01	1.4E+01	--	--	--	--	--	5.0E+04	--	--
PFAS: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	4.0E-03	1.0E-03	2.0E-03	1.7E-02	1.7E-02	7.0E-05	--	--	--	--	5.0E+04	--	--
PFAS: Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	< 0.01 (HI Calc) ⁷	--	1.5E-02	--	--	--	--	--	--	--	5.0E+04	--	--
Phenol	108-95-2	--	--	6.0E+02	1.3E+03	3.0E+01	3.0E+05	--	--	--	--	5.0E+04	3.0E+02	7.9E+04
Polychlorinated biphenyls (PCBs)	1336-36-3	5.0E-01	7.9E-03	--	1.4E-02	3.0E-02	1.9E-05	2.9E-01	--	1.3E+00	--	3.5E+02	--	--
Selenium	7782-49-2	5.0E+01	--	3.0E+01	5.0E+00	5.0E-01	4.2E+03	--	--	--	--	5.0E+04	--	--
Silver	7440-22-4	1.0E+02	--	9.4E+01	3.4E+00	7.0E-01	--	--	--	--	--	5.0E+04	1.0E+02	--
Styrene	100-42-5	1.0E+02	5.0E-01	1.1E+03	--	--	--	--	8.3E+03	--	3.5E+04	5.0E+04	1.0E+01	1.1E+02
tert-Butyl alcohol	75-65-0	--	1.2E+01	4.5E+03	1.8E+04	--	--	--	1.4E+07	--	5.9E+07	5.0E+04	--	--
1,1,1,2-Tetrachloroethane	630-20-6	--	5.7E-01	4.8E+02	9.3E+02	--	--	3.7E+00	--	1.6E+01	--	5.0E+04	--	--
1,1,2,2-Tetrachloroethane	79-34-5	1.0E+00	7.6E-02	3.6E+02	4.2E+02	9.0E+02	2.3E+00	3.2E+00	--	1.4E+01	--	5.0E+04	5.0E+02	5.0E+03
Tetrachloroethene	127-18-4	5.0E+00	6.0E-02	4.1E+01	1.2E+02	2.3E+02	2.0E+00	6.4E-01	5.8E+01	2.8E+00	2.4E+02	5.0E+04	1.7E+02	3.0E+03
Thallium	7440-28-0	2.0E+00	--	1.0E-01	2.0E+01	2.1E+02	4.7E-01	--	--	--	--	5.0E+04	--	--
Toluene	108-88-3	1.5E+02	--	1.5E+02	1.3E+02	2.5E+03	5.2E+02	--	1.6E+03	--	6.8E+03	5.0E+04	4.0E+01	4.0E+02
Toxaphene	8001-35-2	3.0E+00	3.0E-02	1.8E+00	2.0E-04	2.0E-04	2.1E-04	--	--	--	--	2.8E+02	1.4E+02	1.4E+02
1,2,4-Trichlorobenzene	120-82-1	5.0E+00	1.2E+00	4.0E+00	2.5E+01	6.5E+01	7.6E-02	--	3.6E+01	--	1.5E+02	2.5E+04	3.0E+03	3.0E+04
1,1,1-Trichloroethane	71-55-6	2.0E+02	--	1.0E+03	6.2E+01	3.1E+03	2.0E+05	--	1.5E+03	--	6.2E+03	5.0E+04	9.7E+02	5.0E+05
1,1,2-Trichloroethane	79-00-5	5.0E+00	2.8E-01	4.1E-01	4.7E+03	--	8.9E+00	5.2E+00	6.2E+00	2.3E+01	2.6E+01	5.0E+04	--	--
Trichloroethene	79-01-6	5.0E+00	4.9E-01	2.8E+00	3.6E+02	2.0E+02	7.0E+00	1.2E+00	5.2E+00	7.4E+00	2.2E+01	5.0E+04	3.1E+02	1.0E+05
2,4,5-Trichlorophenol	95-95-4	--	--	1.2E+03	6.3E+01	1.0E+00	6.0E+02	--	--	--	--	5.0E+04	2.0E+02	2.0E+03
2,4,6-Trichlorophenol	88-06-2	--	6.5E-01	1.2E+01	4.9E+02	1.0E+00	2.9E-01	--	--	--	--	5.0E+04	1.0E+02	1.0E+03
1,2,3-Trichloropropane	96-18-4	5.0E-03	7.0E-04	6.2E-01	2.7E+03	6.0E-03	--	--	2.2E+01	--	9.4E+01	5.0E+04	--	--
Vanadium	7440-62-2	--	--	5.0E+01	1.9E+01	--	--	--	--	--	--	5.0E+04	--	--
Vinyl chloride	75-01-4	5.0E-01	9.7E-03	3.7E+01	7.8E+02	--	1.6E+00	8.3E-03	4.7E+01	1.4E-01	2.0E+02	5.0E+04	3.4E+03	3.4E+04
Xylenes	1330-20-7	1.8E+03	--	1.9E+02	--	1.0E+02	--	--	3.8E+02	--	1.6E+03	5.0E+04	2.0E+01	5.3E+03
Zinc	7440-66-6	5.0E+03	--	6.0E+03	1.2E+02	2.0E+01	2.6E+04	--	--	--	--	5.0E+04	5.0E+03	--

Summary Table of Soil Environmental Screening Levels (mg/kg) ⁸

Chemicals	CAS No.	Direct Exp Levels Res Cancer Risk	Direct Exp Levels Res Non-cancer Hazard	Direct Exp Levels Com/ Ind Cancer Risk	Direct Exp Levels Com/ Ind Non-cancer Hazard	Direct Exp Levels Const Worker Cancer Risk	Direct Exp Levels Const Worker Non-cancer Hazard	Terr Habitat Levels Signific. Vegetat. Area	Terr Habitat Levels Minimal Vegetat. Area	Leach to GW Levels Drinking Water Source	Leach to GW Levels Non-drinking Water Source	Gross Contam Levels	Odor Nuis Levels Res	Odor Nuis Levels Com/ Ind	Odor Nuis Levels Const Worker
Acetone	67-64-1	--	6.1E+04	--	6.7E+05	--	1.8E+05	5.6E+01	5.6E+01	9.1E-01	9.1E-01	1.1E+05	5.0E+02	1.0E+03	1.0E+03
Aldrin	309-00-2	3.9E-02	2.3E+00	1.8E-01	3.5E+01	1.3E+00	1.1E+01	2.4E-03	1.0E-01	8.4E+00	8.4E+00	8.4E+00	1.0E+03	2.5E+03	2.5E+03
Antimony	7440-36-0	--	3.1E+01	--	4.7E+02	--	1.3E+02	2.5E+01	5.0E+01	--	--	--	--	--	--
Arsenic	7440-38-2	3.2E-02	4.1E-01	1.4E-01	5.6E+00	1.1E+00	1.7E+00	2.5E+01	5.0E+01	--	--	--	--	--	--
Barium	7440-39-3	--	1.5E+04	--	2.2E+05	--	2.2E+03	3.9E+02	6.7E+02	--	--	--	--	--	--
Benzene	71-43-2	3.3E-01	1.1E+01	1.4E+00	4.5E+01	8.0E+00	1.0E+01	6.0E+01	3.1E+02	2.5E-02	2.5E-02	1.8E+03	5.0E+02	1.0E+03	1.0E+03
Beryllium	7440-41-7	1.6E+03	1.6E+01	6.9E+03	2.3E+02	1.3E+02	2.2E+01	5.0E+00	1.0E+01	--	--	--	--	--	--
1,1-Biphenyl	92-52-4	8.7E+01	4.7E+01	4.1E+02	2.0E+02	3.1E+03	4.3E+01	--	--	4.3E-01	4.3E+00	2.3E+02	5.0E+02	1.0E+03	1.0E+03
Bis(2-chloroethyl) ether	111-44-4	1.0E-01	--	4.6E-01	--	2.9E+00	--	--	--	3.4E-05	2.5E-04	5.0E+03	5.0E+02	1.0E+03	1.0E+03
Bis(2-chloro-1-methylethyl) ether	108-60-1	--	3.1E+03	--	4.7E+04	--	1.4E+04	--	--	8.7E-01	8.7E-01	1.0E+03	5.0E+02	1.0E+03	1.0E+03
Bis(2-ethylhexyl) phthalate	117-81-7	3.9E+01	1.3E+03	1.6E+02	1.6E+04	1.3E+03	5.4E+03	8.0E-01	3.5E+01	1.9E+02	1.9E+02	1.9E+02	5.0E+02	1.0E+03	1.0E+03
Boron	7440-42-8	--	1.6E+04	--	2.3E+05	--	4.0E+04	1.2E+02	1.2E+02	--	--	--	--	--	--
Bromodichloromethane	75-27-4	2.9E-01	6.3E+02	1.3E+00	9.3E+03	7.1E+00	2.8E+03	--	--	1.6E-02	1.6E-02	9.3E+02	1.0E+03	2.5E+03	2.5E+03
Bromoform (Tribromomethane)	75-25-2	1.9E+01	1.6E+03	8.4E+01	2.3E+04	5.0E+02	7.1E+03	--	--	6.9E-01	1.0E+00	9.1E+02	5.0E+02	1.0E+03	1.0E+03
Bromomethane	74-83-9	--	6.8E+00	--	2.9E+01	--	6.7E+00	--	--	3.6E-01	8.3E-01	3.6E+03	5.0E+02	1.0E+03	1.0E+03
Cadmium (soil)	7440-43-9	9.1E+02	7.1E+00	4.0E+03	1.0E+02	7.7E+01	1.9E+01	1.9E+00	1.9E+00	--	--	--	--	--	--
Carbon tetrachloride	56-23-5	6.5E-01	5.2E+01	2.8E+00	2.4E+02	1.6E+01	5.6E+01	7.3E+00	1.5E+01	7.4E-02	7.4E-02	4.6E+02	5.0E+02	1.0E+03	1.0E+03
Chlordane	12789-03-6	1.7E+00	3.5E+01	7.7E+00	4.5E+02	5.8E+01	1.3E+02	8.5E-03	8.5E-03	2.3E+01	2.3E+01	2.3E+01	1.0E+03	2.5E+03	2.5E+03
p-Chloroaniline	106-47-8	2.7E+00	3.2E+01	1.1E+01	4.1E+02	9.4E+01	1.3E+02	2.5E+01	5.0E+01	6.8E-03	9.4E-02	3.0E+03	5.0E+02	1.0E+03	1.0E+03
Chlorobenzene	108-90-7	--	2.8E+02	--	1.3E+03	--	3.0E+02	7.5E+00	1.5E+01	1.5E+00	1.5E+00	7.6E+02	5.0E+02	1.0E+03	1.0E+03
Chloroethane	75-00-3	--	5.4E+03	--	2.2E+04	--	5.0E+03	--	--	1.2E+00	1.2E+01	2.1E+03	5.0E+02	1.0E+03	1.0E+03
Chloroform	67-66-3	3.2E-01	5.3E+00	1.4E+00	2.2E+01	7.7E+00	5.0E+00	4.3E+01	8.5E+01	2.3E-02	2.3E-02	2.5E+03	5.0E+02	1.0E+03	1.0E+03
Chloromethane	74-87-3	--	1.1E+02	--	4.5E+02	--	1.0E+02	--	--	1.1E+01	1.5E+01	1.3E+03	1.0E+02	5.0E+02	5.0E+02
2-Chlorophenol	95-57-8	--	3.9E+02	--	5.8E+03	--	1.8E+03	2.0E+00	3.9E+00	1.2E-02	6.4E-02	2.7E+04	1.0E+02	5.0E+02	5.0E+02
Chromium (total)	7440-47-3	--	--	--	--	--	--	1.6E+02	1.6E+02	--	--	--	--	--	--
Chromium III (soluble)	16065-83-1	--	8.5E+04	--	3.6E+05	--	2.8E+02	--	--	--	--	--	--	--	--
Chromium III (insoluble)	16065-83-1	--	1.2E+05	--	1.8E+06	--	5.3E+05	--	--	--	--	--	--	--	--

⁸ The Soil ESLs are intended to be compared to soil data reported on a dry-weight basis. See User's Guide Section 12.6.2.

Summary Table of Soil Environmental Screening Levels (mg/kg)

Chemicals	CAS No.	Direct Exp Levels Res Cancer Risk	Direct Exp Levels Res Non-cancer Hazard	Direct Exp Levels Com/ Ind Cancer Risk	Direct Exp Levels Com/ Ind Non-cancer Hazard	Direct Exp Levels Const Worker Cancer Risk	Direct Exp Levels Const Worker Non-cancer Hazard	Terr Habitat Levels Signific. Vegetat. Area	Terr Habitat Levels Minimal Vegetat. Area	Leach to GW Levels Drinking Water Source	Leach to GW Levels Non-drinking Water Source	Gross Contam Levels	Odor Nuis Levels Res	Odor Nuis Levels Com/ Ind	Odor Nuis Levels Const Worker
Chromium VI	18540-29-9	3.0E-01	7.0E+01	6.2E+00	1.0E+03	2.1E+00	9.6E+01	1.0E+01	1.0E+01	--	--	--	--	--	--
Cobalt	7440-48-4	4.2E+02	2.3E+01	1.9E+03	3.5E+02	3.6E+01	2.2E+01	5.0E+01	1.0E+02	--	--	--	--	--	--
Copper	7440-50-8	--	3.1E+03	--	4.7E+04	--	1.4E+04	1.8E+02	3.0E+02	--	--	--	--	--	--
Cyanide	57-12-5	--	2.4E+01	--	1.6E+02	--	3.7E+01	1.1E-01	1.1E-01	--	--	9.5E+05	1.0E+02	5.0E+02	5.0E+02
Dibromochloromethane	124-48-1	8.3E+00	1.6E+03	3.9E+01	2.3E+04	2.9E+02	7.1E+03	--	--	2.1E-01	2.1E-01	8.0E+02	1.0E+02	5.0E+02	5.0E+02
1,2-dibromo-3-chloropropane	96-12-8	4.3E-03	4.7E+00	5.6E-02	2.5E+01	3.3E-01	5.7E+00	--	--	5.7E-04	5.7E-04	9.8E+02	5.0E+02	1.0E+03	1.0E+03
1,2-Dibromoethane	106-93-4	3.6E-02	7.1E+00	1.6E-01	3.0E+01	9.1E-01	6.7E+00	--	--	5.3E-04	1.9E-03	1.3E+03	5.0E+02	1.0E+03	1.0E+03
1,2-Dichlorobenzene	95-50-1	--	1.8E+03	--	9.2E+03	--	2.1E+03	4.3E+00	8.5E+00	1.1E+00	1.1E+00	3.8E+02	1.0E+03	2.5E+03	2.5E+03
1,4-Dichlorobenzene	106-46-7	2.6E+00	3.4E+03	1.1E+01	2.5E+04	6.3E+01	6.1E+03	4.5E+00	9.0E+00	2.0E-01	2.0E-01	1.9E+02	5.0E+02	1.0E+03	1.0E+03
3,3-Dichlorobenzidine	91-94-1	4.5E-01	--	1.9E+00	--	1.5E+01	--	--	--	2.5E-02	4.1E-02	6.0E+01	5.0E+02	1.0E+03	1.0E+03
DDD	72-54-8	2.3E+00	3.2E+01	9.6E+00	4.1E+02	7.7E+01	1.3E+02	8.5E+00	1.7E+01	6.3E+01	6.3E+01	6.3E+01	5.0E+02	1.0E+03	1.0E+03
DDE	72-55-9	2.0E+00	3.9E+01	9.3E+00	5.8E+02	6.8E+01	1.8E+02	3.3E-01	6.5E-01	2.8E+01	2.8E+01	2.8E+01	5.0E+02	1.0E+03	1.0E+03
DDT	50-29-3	1.9E+00	3.7E+01	8.5E+00	5.2E+02	6.5E+01	1.6E+02	2.1E-02	7.8E+00	5.6E+00	5.6E+00	5.6E+00	5.0E+02	1.0E+03	1.0E+03
1,1-Dichloroethane	75-34-3	3.6E+00	1.6E+04	1.5E+01	2.3E+05	8.7E+01	7.1E+04	1.1E+01	2.1E+01	2.0E-01	3.1E-01	1.7E+03	5.0E+02	1.0E+03	1.0E+03
1,2-Dichloroethane	107-06-2	4.6E-01	3.1E+01	2.0E+00	1.3E+02	1.1E+01	3.1E+01	2.9E+01	2.9E+01	6.9E-03	3.1E-02	3.0E+03	1.0E+02	5.0E+02	5.0E+02
1,1-Dichloroethene	75-35-4	--	4.8E+00	--	2.0E+01	--	4.4E+00	4.3E+01	1.3E+02	1.5E-01	1.5E-01	1.2E+03	5.0E+02	1.0E+03	1.0E+03
cis-1,2-Dichloroethene	156-59-2	--	6.3E+01	--	3.6E+02	--	8.5E+01	8.4E+01	9.4E+02	1.9E-01	8.0E+00	2.4E+03	1.0E+02	5.0E+02	5.0E+02
trans-1,2-Dichloroethene	156-60-5	--	7.0E+01	--	3.0E+02	--	6.7E+01	8.4E+01	9.4E+02	6.5E-01	7.0E+00	1.9E+03	5.0E+02	1.0E+03	1.0E+03
2,4-Dichlorophenol	120-83-2	--	1.9E+02	--	2.5E+03	--	8.0E+02	2.1E+00	--	7.3E-03	2.4E-02	5.5E+03	5.0E+02	1.0E+03	1.0E+03
1,2-Dichloropropane	78-87-5	2.5E+00	1.6E+01	1.1E+01	6.5E+01	6.3E+01	1.5E+01	3.1E+01	6.3E+01	1.4E-01	1.8E-01	1.4E+03	1.0E+02	5.0E+02	5.0E+02
1,3-Dichloropropene	542-75-6	1.8E+00	7.2E+01	8.1E+00	3.0E+02	4.9E+01	6.8E+01	3.1E+01	6.3E+01	1.7E-02	1.6E-01	1.6E+03	5.0E+02	1.0E+03	1.0E+03
Dieldrin	60-57-1	3.4E-02	3.2E+00	1.4E-01	4.1E+01	1.2E+00	1.3E+01	9.6E-04	1.1E-01	4.0E-06	4.0E-06	2.4E+01	5.0E+02	1.0E+03	1.0E+03
Diethyl phthalate	84-66-2	--	5.1E+04	--	6.6E+05	--	2.1E+05	1.3E+01	2.7E+01	2.6E-02	2.6E-02	7.9E+02	5.0E+02	1.0E+03	1.0E+03
2,4-Dimethylphenol	105-67-9	--	1.3E+03	--	1.6E+04	--	5.4E+03	--	--	2.4E+00	2.4E+00	2.4E+04	1.0E+02	5.0E+02	5.0E+02
2,4-Dinitrophenol	51-28-5	--	1.3E+02	--	1.6E+03	--	5.4E+02	--	--	3.1E-01	3.1E-01	8.0E+03	5.0E+02	1.0E+03	1.0E+03
2,4-Dinitrotoluene	121-14-2	1.7E+00	1.3E+02	7.4E+00	1.6E+03	5.9E+01	5.3E+02	--	--	2.3E-02	1.6E-01	7.1E+02	5.0E+02	1.0E+03	1.0E+03
1,4-Dioxane	123-91-1	5.3E+00	8.1E+02	2.4E+01	4.5E+03	1.7E+02	1.0E+03	1.8E+00	1.8E+00	2.1E-04	1.3E+00	1.2E+05	5.0E+02	1.0E+03	1.0E+03
Dioxin (2,3,7,8-TCDD)	1746-01-6	4.8E-06	5.1E-05	2.2E-05	7.2E-04	1.6E-04	2.3E-04	1.3E-05	9.9E-05	3.0E-01	3.0E-01	3.0E-01	5.0E+02	1.0E+03	1.0E+03
Endosulfan	115-29-7	--	4.7E+02	--	7.0E+03	--	2.1E+03	2.3E-02	3.8E-01	9.8E-03	9.8E-03	1.3E+01	5.0E+02	1.0E+03	1.0E+03
Endrin	72-20-8	--	1.9E+01	--	2.5E+02	--	8.0E+01	1.1E-03	1.1E-03	6.7E-03	6.7E-03	3.0E+01	5.0E+02	1.0E+03	1.0E+03

Summary Table of Soil Environmental Screening Levels (mg/kg)

Chemicals	CAS No.	Direct Exp Levels Res Cancer Risk	Direct Exp Levels Res Non-cancer Hazard	Direct Exp Levels Com/ Ind Cancer Risk	Direct Exp Levels Com/ Ind Non-cancer Hazard	Direct Exp Levels Const Worker Cancer Risk	Direct Exp Levels Const Worker Non-cancer Hazard	Terr Habitat Levels Signific. Vegetat. Area	Terr Habitat Levels Minimal Vegetat. Area	Leach to GW Levels Drinking Water Source	Leach to GW Levels Non-drinking Water Source	Gross Contam Levels	Odor Nuis Levels Res	Odor Nuis Levels Com/ Ind	Odor Nuis Levels Const Worker
Ethylbenzene	100-41-4	5.8E+00	2.4E+03	2.5E+01	1.7E+04	1.4E+02	4.2E+03	9.0E+01	4.3E+02	4.3E-01	4.3E-01	4.8E+02	5.0E+02	1.0E+03	1.0E+03
Heptachlor	76-44-8	1.3E-01	7.8E+00	6.2E-01	1.2E+02	4.4E+00	3.5E+01	2.5E-01	5.0E-01	4.5E+01	4.5E+01	4.5E+01	1.0E+03	2.5E+03	2.5E+03
Heptachlor epoxide	1024-57-3	7.0E-02	1.0E+00	3.3E-01	1.5E+01	2.4E+00	4.6E+00	--	--	3.4E-05	3.4E-05	1.2E+01	1.0E+03	2.5E+03	2.5E+03
Hexachlorobenzene	118-74-1	1.9E-01	7.8E-01	8.5E-01	1.2E+01	5.4E+00	3.5E+00	1.3E+02	2.5E+02	8.2E-05	8.2E-05	2.3E-01	5.0E+02	1.0E+03	1.0E+03
Hexachlorobutadiene	87-68-3	1.2E+00	7.8E+01	5.2E+00	1.2E+03	3.0E+01	3.5E+02	--	--	2.0E-03	2.0E-03	1.7E+01	5.0E+02	1.0E+03	1.0E+03
γ-Hexachlorocyclohexane (Lindane)	58-89-9	5.7E-01	5.7E-02	2.5E+00	8.0E-01	2.0E+01	2.5E-01	7.4E+00	1.5E+01	1.9E-03	1.9E-03	1.2E+02	5.0E+02	1.0E+03	1.0E+03
Hexachloroethane	67-72-1	1.8E+00	4.5E+01	7.9E+00	4.6E+02	4.6E+01	1.2E+02	--	--	5.7E-03	5.7E-03	6.6E+01	5.0E+02	1.0E+03	1.0E+03
Lead	7439-92-1	--	8.0E+01	--	5.0E+02	--	1.5E+02	3.2E+01	3.2E+01	--	--	--	--	--	--
Mercury (elemental)	7439-97-6	--	6.7E-01	--	2.9E+00	--	6.5E-01	1.5E+01	2.0E+01	--	--	3.1E+00	5.0E+02	1.0E+03	1.0E+03
Methoxychlor	72-43-5	--	3.2E+02	--	4.1E+03	--	1.3E+03	1.3E-01	4.1E+03	1.3E-02	1.3E-02	1.6E+01	5.0E+02	1.0E+03	1.0E+03
Methylene chloride	75-09-2	2.2E+00	3.1E+02	2.6E+01	2.4E+03	1.5E+02	6.1E+02	9.8E-01	2.0E+00	1.2E-01	1.8E-01	3.3E+03	5.0E+02	1.0E+03	1.0E+03
Methyl ethyl ketone	78-93-3	--	2.7E+04	--	1.9E+05	--	4.6E+04	4.4E+01	8.8E+01	6.1E+00	1.5E+01	2.8E+04	5.0E+02	1.0E+03	1.0E+03
Methyl isobutyl ketone	108-10-1	--	3.3E+04	--	1.4E+05	--	3.1E+04	--	--	3.5E-01	5.0E-01	3.4E+03	1.0E+02	5.0E+02	5.0E+02
Methyl mercury	22967-92-6	--	7.8E+00	--	1.2E+02	--	3.5E+01	3.4E-02	3.4E-02	--	--	--	1.0E+02	5.0E+02	5.0E+02
2-Methylnaphthalene	91-57-6	--	2.4E+02	--	3.0E+03	--	1.0E+03	--	--	8.7E-01	8.7E-01	3.7E+02	5.0E+02	1.0E+03	1.0E+03
Methyl tertiary butyl ether (MTBE)	1634-04-4	4.7E+01	1.5E+04	2.0E+02	6.3E+04	1.2E+03	1.4E+04	3.1E+01	6.3E+01	2.8E-02	2.5E+00	8.9E+03	1.0E+02	5.0E+02	5.0E+02
Molybdenum	7439-98-7	--	3.9E+02	--	5.8E+03	--	1.5E+03	6.9E+00	4.0E+01	--	--	--	--	--	--
Nickel	7440-02-0	1.5E+04	8.2E+02	6.4E+04	1.1E+04	1.2E+03	6.3E+01	1.3E+02	3.4E+02	--	--	--	--	--	--
PAH: Acenaphthene	83-32-9	--	3.6E+03	--	4.5E+04	--	1.5E+04	6.6E+03	4.6E+04	1.3E+01	1.3E+01	1.2E+02	1.0E+03	2.5E+03	2.5E+03
PAH: Anthracene	120-12-7	--	1.8E+04	--	2.3E+05	--	7.5E+04	3.1E+00	4.0E+01	2.0E+00	2.0E+00	4.3E+00	5.0E+02	1.0E+03	1.0E+03
PAH: Benzo[a]anthracene	56-55-3	1.1E+00	--	2.0E+01	--	1.6E+02	--	6.3E-01	1.3E+00	1.0E+01	1.0E+01	1.0E+01	5.0E+02	1.0E+03	1.0E+03
PAH: Benzo[a]pyrene	50-32-8	1.1E-01	1.8E+01	2.1E+00	2.2E+02	1.7E+01	8.2E+00	2.5E+01	9.0E+01	5.7E+00	5.7E+00	5.7E+00	5.0E+02	1.0E+03	1.0E+03
PAH: Benzo[b]fluoranthene	205-99-2	1.1E+00	--	2.1E+01	--	1.7E+02	--	--	--	5.4E+00	5.4E+00	5.4E+00	5.0E+02	1.0E+03	1.0E+03
PAH: Benzo[k]fluoranthene	207-08-9	1.1E+01	--	2.1E+02	--	1.1E+03	--	9.5E+00	1.9E+01	2.8E+00	2.8E+00	2.8E+00	5.0E+02	1.0E+03	1.0E+03
PAH: Chrysene	218-01-9	1.1E+02	--	2.1E+03	--	1.1E+04	--	8.8E+00	1.8E+01	2.2E+00	2.2E+00	2.2E+00	5.0E+02	1.0E+03	1.0E+03
PAH: Dibenzo[a,h]anthracene	53-70-3	2.8E-02	--	5.1E-01	--	4.2E+00	--	--	--	2.9E+01	2.9E+01	2.9E+01	5.0E+02	1.0E+03	1.0E+03
PAH: Fluoranthene	206-44-0	--	2.4E+03	--	3.0E+04	--	1.0E+04	6.9E-01	1.2E+05	8.7E+01	8.7E+01	8.7E+01	5.0E+02	1.0E+03	1.0E+03
PAH: Fluorene	86-73-7	--	2.4E+03	--	3.0E+04	--	1.0E+04	--	--	5.9E+00	5.9E+00	9.3E+01	5.0E+02	1.0E+03	1.0E+03

Summary Table of Soil Environmental Screening Levels (mg/kg)

Chemicals	CAS No.	Direct Exp Levels Res Cancer Risk	Direct Exp Levels Res Non-cancer Hazard	Direct Exp Levels Com/ Ind Cancer Risk	Direct Exp Levels Com/ Ind Non-cancer Hazard	Direct Exp Levels Const Worker Cancer Risk	Direct Exp Levels Const Worker Non-cancer Hazard	Terr Habitat Levels Signific. Vegetat. Area	Terr Habitat Levels Minimal Vegetat. Area	Leach to GW Levels Drinking Water Source	Leach to GW Levels Non-drinking Water Source	Gross Contam Levels	Odor Nuis Levels Res	Odor Nuis Levels Com/ Ind	Odor Nuis Levels Const Worker
PAH: Indeno[1,2,3-c,d]pyrene	193-39-5	1.1E+00	--	2.1E+01	--	1.7E+02	--	4.8E-01	9.5E-01	2.2E+00	2.2E+00	2.2E+00	5.0E+02	1.0E+03	1.0E+03
PAH: Naphthalene	91-20-3	2.0E+00	1.3E+02	8.5E+00	5.7E+02	5.6E+01	1.3E+02	7.5E-01	2.8E+01	3.0E-02	1.2E+00	2.9E+02	5.0E+02	1.0E+03	1.0E+03
PAH: Pyrene	129-00-0	--	1.8E+03	--	2.3E+04	--	7.5E+03	4.7E+03	9.9E+04	4.4E+01	4.4E+01	4.4E+01	5.0E+02	1.0E+03	1.0E+03
Pentachlorophenol	87-86-5	1.0E+00	2.5E+02	4.0E+00	2.8E+03	3.4E+01	9.8E+02	1.3E-02	3.9E+01	3.9E-03	3.9E-03	5.1E+01	5.0E+02	1.0E+03	1.0E+03
Perchlorate	14797-73-0	--	5.5E+01	--	8.2E+02	--	2.5E+02	--	--	1.2E-02	1.2E+00	--	--	--	--
Petroleum: Gasoline	--	--	4.6E+02	--	2.1E+03	--	4.8E+02	1.2E+02	1.2E+02	1.1E+03	4.9E+03	1.0E+03	1.0E+02	5.0E+02	5.0E+02
Petroleum: Stoddard Solvent	--	--	2.5E+02	--	1.3E+03	--	2.9E+02	2.6E+02	2.6E+02	1.2E+03	7.9E+03	2.3E+03	1.0E+02	5.0E+02	5.0E+02
Petroleum: Jet Fuel	--	--	2.5E+02	--	1.3E+03	--	3.0E+02	2.6E+02	2.6E+02	1.2E+03	7.9E+03	2.3E+03	1.0E+02	5.0E+02	5.0E+02
Petroleum: Diesel	--	--	2.0E+02	--	9.2E+02	--	2.1E+02	2.6E+02	2.6E+02	1.1E+03	7.2E+03	2.3E+03	5.0E+02	1.0E+03	1.0E+03
Petroleum: HOPs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum: Motor Oil	--	--	1.2E+04	--	1.8E+05	--	5.4E+04	1.6E+03	1.6E+03	--	--	5.1E+03	--	--	--
PFAS: Perfluoropropanoic acid (PFPrA)	422-64-0	--	3.9E+01	--	5.8E+02	--	1.8E+02	--	--	--	--	1.4E+04	1.0E+02	5.0E+02	5.0E+02
PFAS: Perfluorobutanoic acid (PFBA)	375-22-4	--	7.8E+01	--	1.2E+03	--	3.5E+02	3.0E+00	7.0E+01	--	--	2.6E+03	1.0E+02	5.0E+02	5.0E+02
PFAS: Perfluoropentanoic acid (PFPeA)	2706-90-3	--	--	--	--	--	--	--	--	--	--	9.7E+03	1.0E+02	5.0E+02	5.0E+02
PFAS: Perfluorohexanoic acid (PFHxA)	307-24-4	--	3.2E+01	--	4.1E+02	--	1.3E+02	6.2E+00	2.6E+02	--	--	5.6E+04	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluoroheptanoic acid (PFHpA)	375-85-9	--	--	--	--	--	--	1.0E+00	1.0E+02	--	--	4.2E+05	1.0E+02	5.0E+02	5.0E+02
PFAS: Perfluorooctanoic acid (PFOA)	335-67-1	1.9E-05	1.9E-03	7.8E-05	2.5E-02	6.4E-04	8.0E-03	8.4E-02	8.4E-01	--	--	1.4E+05	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorononanoic acid (PFNA)	375-95-1	--	1.9E-01	--	2.5E+00	--	8.0E-01	2.4E-02	1.3E+00	--	--	5.3E+03	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorodecanoic acid (PFDA)	335-76-2	--	1.3E-04	--	1.6E-03	--	5.4E-04	6.8E-02	6.8E-02	--	--	1.5E+04	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluoroundecanoic acid (PFUDA)	2058-94-8	--	1.9E+01	--	2.5E+02	--	8.0E+01	--	--	--	--	2.0E+03	5.0E+02	1.0E+03	1.0E+03

Summary Table of Soil Environmental Screening Levels (mg/kg)

Chemicals	CAS No.	Direct Exp Levels Res Cancer Risk	Direct Exp Levels Res Non-cancer Hazard	Direct Exp Levels Com/ Ind Cancer Risk	Direct Exp Levels Com/ Ind Non-cancer Hazard	Direct Exp Levels Const Worker Cancer Risk	Direct Exp Levels Const Worker Non-cancer Hazard	Terr Habitat Levels Signific. Vegetat. Area	Terr Habitat Levels Minimal Vegetat. Area	Leach to GW Levels Drinking Water Source	Leach to GW Levels Non-drinking Water Source	Gross Contam Levels	Odor Nuis Levels Res	Odor Nuis Levels Com/ Ind	Odor Nuis Levels Const Worker
PFAS: Perfluorododecanoic acid (PFDoDA)	307-55-1	--	3.2E+00	--	4.1E+01	--	1.3E+01	--	--	--	--	4.2E+04	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	--	6.3E+01	--	8.2E+02	--	2.7E+02	--	--	--	--	4.2E+02	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorooctadecanoic acid (PFODA)	16517-11-6	--	2.5E+03	--	3.3E+04	--	1.1E+04	--	--	--	--	3.8E+00	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorobutane sulfonic acid (PFBS)	375-73-5	--	1.9E+01	--	2.5E+02	--	8.0E+01	8.2E-01	1.0E+01	--	--	1.0E+05	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	--	1.3E+00	--	1.6E+01	--	5.4E+00	1.5E-01	1.0E+00	--	--	1.9E+02	5.0E+02	1.0E+03	1.0E+03
PFAS: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	1.4E-02	6.3E-03	5.8E-02	8.2E-02	4.7E-01	2.7E-02	4.0E-03	5.0E-02	--	--	5.1E+03	5.0E+02	1.0E+03	1.0E+03
PFAS: Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	--	2.3E-01	--	3.5E+00	--	1.1E+00	--	--	--	--	1.9E+06	1.0E+02	5.0E+02	5.0E+02
Phenol	108-95-2	--	1.9E+04	--	2.5E+05	--	7.4E+04	9.4E+00	9.4E+00	9.3E-01	9.3E-01	1.0E+05	5.0E+02	1.0E+03	1.0E+03
Polychlorinated biphenyls (PCBs)	1336-36-3	2.3E-01	--	9.4E-01	--	7.4E+00	--	1.1E+00	1.1E+00	3.3E+02	3.3E+02	3.3E+02	5.0E+02	1.0E+03	1.0E+03
Selenium	7782-49-2	--	3.9E+02	--	5.8E+03	--	1.7E+03	2.4E+00	5.5E+00	--	--	--	--	--	--
Silver	7440-22-4	--	3.9E+02	--	5.8E+03	--	1.8E+03	2.5E+01	5.0E+01	--	--	--	--	--	--
Styrene	100-42-5	--	5.6E+03	--	3.1E+04	--	7.3E+03	2.2E+01	4.3E+01	9.1E-01	1.0E+01	8.7E+02	5.0E+02	1.0E+03	1.0E+03
tert-Butyl alcohol	75-65-0	1.4E+03	2.6E+04	6.5E+03	2.7E+05	5.0E+04	7.0E+04	--	--	4.9E-03	7.3E+00	1.1E+05	1.0E+02	5.0E+02	5.0E+02
1,1,1,2-Tetrachloroethane	630-20-6	2.0E+00	2.3E+03	8.6E+00	3.5E+04	4.9E+01	1.1E+04	--	--	1.7E-02	1.1E-01	6.8E+02	1.0E+02	5.0E+02	5.0E+02
1,1,2,2-Tetrachloroethane	79-34-5	6.0E-01	1.6E+03	2.6E+00	2.3E+04	1.5E+01	7.1E+03	--	--	1.8E-02	4.1E-02	1.9E+03	5.0E+02	1.0E+03	1.0E+03
Tetrachloroethene	127-18-4	5.9E-01	8.1E+01	2.6E+00	3.8E+02	1.7E+01	8.7E+01	4.5E+00	4.3E+01	8.0E-02	8.0E-02	1.7E+02	5.0E+02	1.0E+03	1.0E+03
Thallium	7440-28-0	--	7.8E-01	--	1.2E+01	--	3.5E+00	1.8E+00	4.5E+00	--	--	--	--	--	--
Toluene	108-88-3	--	1.4E+03	--	7.1E+03	--	1.6E+03	1.4E+02	6.6E+02	3.2E+00	1.0E+01	8.2E+02	5.0E+02	1.0E+03	1.0E+03
Toxaphene	8001-35-2	4.5E-01	5.7E+00	1.9E+00	7.4E+01	1.5E+01	2.4E+01	--	--	2.5E+02	2.5E+02	2.5E+02	5.0E+02	1.0E+03	1.0E+03
1,2,4-Trichlorobenzene	120-82-1	2.4E+01	5.8E+01	1.1E+02	2.5E+02	8.5E+02	5.7E+01	1.6E+01	3.0E+01	1.8E-02	1.8E-02	4.0E+02	5.0E+02	1.0E+03	1.0E+03
1,1,1-Trichloroethane	71-55-6	--	1.7E+03	--	7.1E+03	--	1.6E+03	2.2E+01	4.4E+01	7.1E+00	7.1E+00	6.4E+02	5.0E+02	1.0E+03	1.0E+03
1,1,2-Trichloroethane	79-00-5	1.1E+00	1.5E+00	5.0E+00	6.2E+00	2.9E+01	1.4E+00	1.0E+02	2.0E+02	7.6E-02	7.9E-02	2.2E+03	1.0E+02	5.0E+02	5.0E+02
Trichloroethene	79-01-6	9.4E-01	4.1E+00	5.9E+00	1.8E+01	3.4E+01	4.2E+00	8.1E+00	2.5E+02	8.5E-02	8.5E-02	6.9E+02	5.0E+02	1.0E+03	1.0E+03
2,4,5-Trichlorophenol	95-95-4	--	6.3E+03	--	8.2E+04	--	2.7E+04	5.5E+00	1.0E+01	2.7E-01	2.7E-01	1.2E+04	5.0E+02	1.0E+03	1.0E+03

Summary Table of Soil Environmental Screening Levels (mg/kg)

Chemicals	CAS No.	Direct Exp Levels Res Cancer Risk	Direct Exp Levels Res Non- cancer Hazard	Direct Exp Levels Com/ Ind Cancer Risk	Direct Exp Levels Com/ Ind Non- cancer Hazard	Direct Exp Levels Const Worker Cancer Risk	Direct Exp Levels Const Worker Non- cancer Hazard	Terr Habitat Levels Signific. Vegitat. Area	Terr Habitat Levels Minimal Vegitat. Area	Leach to GW Levels Drinking Water Source	Leach to GW Levels Non- drinking Water Source	Gross Contam Levels	Odor Nuis Levels Res	Odor Nuis Levels Com/ Ind	Odor Nuis Levels Const Worker
2,4,6-Trichlorophenol	88-06-2	7.8E+00	6.3E+01	3.3E+01	8.2E+02	2.6E+02	2.7E+02	5.5E+00	1.0E+01	1.8E-02	1.8E-02	1.9E+03	1.0E+02	5.0E+02	5.0E+02
1,2,3-Trichloropropane	96-18-4	5.1E-03	4.8E+00	1.1E-01	2.0E+01	8.3E-01	4.5E+00	--	--	1.1E-04	1.3E-04	1.4E+03	1.0E+02	5.0E+02	5.0E+02
Vanadium	7440-62-2	--	3.9E+02	--	5.8E+03	--	3.7E+02	1.8E+01	1.8E+01	--	--	--	--	--	--
Vinyl chloride	75-01-4	8.2E-03	4.2E+01	1.4E-01	2.0E+02	8.1E-01	4.5E+01	4.3E+00	8.5E+00	1.5E-03	1.5E-03	3.9E+03	5.0E+02	1.0E+03	1.0E+03
Xylenes	1330-20-7	--	5.8E+02	--	2.4E+03	--	5.5E+02	5.5E+01	2.1E+02	2.1E+00	1.0E+01	2.6E+02	5.0E+02	1.0E+03	1.0E+03
Zinc	7440-66-6	--	2.3E+04	--	3.5E+05	--	1.1E+05	3.4E+02	3.4E+02	--	--	--	--	--	--

Summary Table of Vapor (Soil Gas⁹ and Indoor Air) Environmental Screening Levels ($\mu\text{g}/\text{m}^3$)¹⁰

Chemicals	CAS No.	Subslab/ Soil Gas Res Cancer Risk	Subslab/ Soil Gas Res Non- cancer Hazard	Subslab/ Soil Gas Com/Ind Cancer Risk	Subslab/ Soil Gas Com/Ind Non- cancer Hazard	Subslab/ Soil Gas VI Odor Nuisance Levels	Indoor Air Res Cancer Risk	Indoor Air Res Non- cancer Hazard	Indoor Air Com/Ind Cancer Risk	Indoor Air Com/Ind Non- cancer Hazard	Indoor Air Odor Nuisance Levels
Acetone	67-64-1	--	1.1E+06	--	4.5E+06	1.0E+06	--	3.2E+04	--	1.4E+05	3.1E+04
Aldrin	309-00-2	1.9E-02	--	8.3E-02	--	8.8E+03	5.7E-04	--	2.5E-03	--	2.6E+02
Antimony	7440-36-0	--	--	--	--	--	--	--	--	--	--
Arsenic	7440-38-2	--	--	--	--	--	--	--	--	--	--
Barium	7440-39-3	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	3.2E+00	1.0E+02	1.4E+01	4.4E+02	1.6E+05	9.7E-02	3.1E+00	4.2E-01	1.3E+01	4.9E+03
Beryllium	7440-41-7	--	--	--	--	--	--	--	--	--	--
1,1-Biphenyl	92-52-4	--	1.4E+01	--	5.8E+01	2.0E+03	--	4.2E-01	--	1.8E+00	6.0E+01
Bis(2-chloroethyl) ether	111-44-4	1.3E-01	--	5.8E-01	--	9.6E+03	4.0E-03	--	1.7E-02	--	2.9E+02
Bis(2-chloro-1- methylethyl) ether	108-60-1	--	--	--	--	7.5E+04	--	--	--	--	2.2E+03
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	--	--	--	--	--	--	--	--
Boron	7440-42-8	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	2.5E+00	--	1.1E+01	--	3.7E+08	7.6E-02	--	3.3E-01	--	1.1E+07
Bromoform (Tribromomethane)	75-25-2	8.5E+01	--	3.7E+02	--	4.5E+05	2.6E+00	--	1.1E+01	--	1.3E+04
Bromomethane	74-83-9	--	1.7E+02	--	7.3E+02	2.7E+06	--	5.2E+00	--	2.2E+01	8.0E+04
Cadmium (soil)	7440-43-9	--	--	--	--	--	--	--	--	--	--
Cadmium (water)	7440-43-9	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	56-23-5	1.6E+01	1.4E+03	6.8E+01	5.8E+03	2.1E+06	4.7E-01	4.2E+01	2.0E+00	1.8E+02	6.3E+04
Chlordane	12789-03-6	9.4E-01	2.4E+01	4.1E+00	1.0E+02	2.8E+02	2.8E-02	7.3E-01	1.2E-01	3.1E+00	8.4E+00
p-Chloroaniline	106-47-8	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	--	1.7E+03	--	7.3E+03	3.3E+04	--	5.2E+01	--	2.2E+02	1.0E+03
Chloroethane	75-00-3	--	1.4E+05	--	5.8E+05	1.3E+07	--	4.2E+03	--	1.8E+04	3.8E+05
Chloroform	67-66-3	4.1E+00	6.8E+01	1.8E+01	2.8E+02	1.4E+07	1.2E-01	2.0E+00	5.3E-01	8.5E+00	4.2E+05
Chloromethane	74-87-3	--	3.1E+03	--	1.3E+04	--	--	9.4E+01	--	3.9E+02	--

⁹ Subslab/Soil Gas Screening Levels are calculated using a default attenuation factor of 0.03. For Petroleum, aerobic biodegradation can further reduce concentrations of petroleum vapors in the vadose zone. See Attachment 2 (Petroleum-Specific Considerations) of the [Supplemental Guidance: Screening and Evaluating Vapor Intrusion Final Draft](#) (DTSC and Water Boards 2023) for information on use of building-specific bioattenuation factors.

¹⁰ Vapor ESLs are only provided from volatile chemicals.

Summary Table of Vapor (Soil Gas and Indoor Air) Environmental Screening Levels (µg/m³)

Chemicals	CAS No.	Subslab/ Soil Gas Res Cancer Risk	Subslab/ Soil Gas Res Non- cancer Hazard	Subslab/ Soil Gas Com/Ind Cancer Risk	Subslab/ Soil Gas Com/Ind Non- cancer Hazard	Subslab/ Soil Gas VI Odor Nuisance Levels	Indoor Air Res Cancer Risk	Indoor Air Res Non- cancer Hazard	Indoor Air Com/Ind Cancer Risk	Indoor Air Com/Ind Non- cancer Hazard	Indoor Air Odor Nuisance Levels
2-Chlorophenol	95-57-8	--	--	--	--	6.3E+02	--	--	--	--	1.9E+01
Chromium (total)	7440-47-3	--	--	--	--	--	--	--	--	--	--
Chromium III	16065-83-1	--	--	--	--	--	--	--	--	--	--
Chromium VI	18540-29-9	--	--	--	--	--	--	--	--	--	--
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	--	--	--	--	--	--	--	--	--	--
Cyanide	57-12-5	--	2.8E+01	--	1.2E+02	2.2E+04	--	8.3E-01	--	3.5E+00	6.5E+02
Dibromochloromethane	124-48-1	--	--	--	--	--	--	--	--	--	--
1,2-dibromo-3-chloropropane	96-12-8	5.6E-03	7.0E+00	6.8E-02	2.9E+01	--	1.7E-04	2.1E-01	2.0E-03	8.8E-01	--
1,2-Dibromoethane	106-93-4	1.6E-01	2.8E+01	6.8E-01	1.2E+02	6.7E+06	4.7E-03	8.3E-01	2.0E-02	3.5E+00	2.0E+05
1,2-Dichlorobenzene	95-50-1	--	7.0E+03	--	2.9E+04	1.0E+07	--	2.1E+02	--	8.8E+02	3.1E+05
1,4-Dichlorobenzene	106-46-7	8.5E+00	2.8E+04	3.7E+01	1.2E+05	3.7E+04	2.6E-01	8.3E+02	1.1E+00	3.5E+03	1.1E+03
3,3-Dichlorobenzidine	91-94-1	--	--	--	--	--	--	--	--	--	--
DDD	72-54-8	--	--	--	--	--	--	--	--	--	--
DDE	72-55-9	9.6E-01	--	4.2E+00	--	--	2.9E-02	--	1.3E-01	--	--
DDT	50-29-3	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	5.8E+01	--	2.6E+02	--	4.2E+06	1.8E+00	--	7.7E+00	--	1.3E+05
1,2-Dichloroethane	107-06-2	3.6E+00	2.4E+02	1.6E+01	1.0E+03	8.1E+04	1.1E-01	7.3E+00	4.7E-01	3.1E+01	2.4E+03
1,1-Dichloroethene	75-35-4	--	1.4E+02	--	5.8E+02	6.7E+07	--	4.1E+00	--	1.7E+01	2.0E+06
cis-1,2-Dichloroethene	156-59-2	--	1.4E+03	--	5.8E+03	--	--	4.2E+01	--	1.8E+02	--
trans-1,2-Dichloroethene	156-60-5	--	1.4E+03	--	5.8E+03	2.2E+06	--	4.2E+01	--	1.8E+02	6.7E+04
2,4-Dichlorophenol	120-83-2	--	--	--	--	4.7E+04	--	--	--	--	1.4E+03
1,2-Dichloropropane	78-87-5	2.5E+01	1.4E+02	1.1E+02	5.8E+02	4.0E+04	7.6E-01	4.2E+00	3.3E+00	1.8E+01	1.2E+03
1,3-Dichloropropene	542-75-6	2.3E+01	7.0E+02	1.0E+02	2.9E+03	1.4E+05	7.0E-01	2.1E+01	3.1E+00	8.8E+01	4.2E+03
Dieldrin	60-57-1	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	84-66-2	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	105-67-9	--	--	--	--	3.3E+01	--	--	--	--	1.0E+00
2,4-Dinitrophenol	51-28-5	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	121-14-2	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	123-91-1	1.9E+01	1.0E+03	8.2E+01	4.4E+03	2.0E+07	5.6E-01	3.1E+01	2.5E+00	1.3E+02	6.1E+05

Summary Table of Vapor (Soil Gas and Indoor Air) Environmental Screening Levels (µg/m³)

Chemicals	CAS No.	Subslab/ Soil Gas Res Cancer Risk	Subslab/ Soil Gas Res Non- cancer Hazard	Subslab/ Soil Gas Com/Ind Cancer Risk	Subslab/ Soil Gas Com/Ind Non- cancer Hazard	Subslab/ Soil Gas VI Odor Nuisance Levels	Indoor Air Res Cancer Risk	Indoor Air Res Non- cancer Hazard	Indoor Air Com/Ind Cancer Risk	Indoor Air Com/Ind Non- cancer Hazard	Indoor Air Odor Nuisance Levels
Dioxin (2,3,7,8-TCDD)	1746-01-6	2.5E-06	1.4E-03	1.1E-05	5.8E-03	--	7.4E-08	4.2E-05	3.2E-07	1.8E-04	--
Endosulfan	115-29-7	--	--	--	--	--	--	--	--	--	--
Endrin	72-20-8	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	3.7E+01	3.5E+04	1.6E+02	1.5E+05	6.7E+04	1.1E+00	1.0E+03	4.9E+00	4.4E+03	2.0E+03
Heptachlor	76-44-8	7.2E-02	--	3.1E-01	--	1.0E+04	2.2E-03	--	9.4E-03	--	3.0E+02
Heptachlor epoxide	1024-57-3	3.6E-02	--	1.6E-01	--	1.0E+04	1.1E-03	--	4.7E-03	--	3.0E+02
Hexachlorobenzene	118-74-1	1.8E-01	--	8.0E-01	--	--	5.5E-03	--	2.4E-02	--	--
Hexachlorobutadiene	87-68-3	4.3E+00	--	1.9E+01	--	4.0E+05	1.3E-01	--	5.6E-01	--	1.2E+04
γ-Hexachlorocyclohexane (Lindane)	58-89-9	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	67-72-1	8.5E+00	1.0E+03	3.7E+01	4.4E+03	--	2.6E-01	3.1E+01	1.1E+00	1.3E+02	--
Lead	7439-92-1	--	--	--	--	--	--	--	--	--	--
Mercury (elemental)	7439-97-6	--	1.0E+00	--	4.4E+00	--	--	3.1E-02	--	1.3E-01	--
Methoxychlor	72-43-5	--	--	--	--	--	--	--	--	--	--
Methylene chloride	75-09-2	3.4E+01	1.4E+04	4.1E+02	5.8E+04	1.9E+07	1.0E+00	4.2E+02	1.2E+01	1.8E+03	5.6E+05
Methyl ethyl ketone	78-93-3	--	1.7E+05	--	7.3E+05	1.1E+06	--	5.2E+03	--	2.2E+04	3.2E+04
Methyl isobutyl ketone	108-10-1	--	1.0E+05	--	4.4E+05	1.4E+04	--	3.1E+03	--	1.3E+04	4.2E+02
Methyl mercury	22967-92-6	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	91-57-6	--	--	--	--	2.3E+03	--	--	--	--	6.8E+01
Methyl tertiary butyl ether (MTBE)	1634-04-4	3.6E+02	1.0E+05	1.6E+03	4.4E+05	1.8E+04	1.1E+01	3.1E+03	4.7E+01	1.3E+04	5.3E+02
Molybdenum	7439-98-7	--	--	--	--	--	--	--	--	--	--
Nickel	7440-02-0	--	--	--	--	--	--	--	--	--	--
PAH: Acenaphthene	83-32-9	--	--	--	--	1.7E+04	--	--	--	--	5.1E+02
PAH: Anthracene	120-12-7	--	--	--	--	--	--	--	--	--	--
PAH: Benzo[a]anthracene	56-55-3	3.1E-01	--	3.7E+00	--	--	9.2E-03	--	1.1E-01	--	--
PAH: Benzo[a]pyrene	50-32-8	--	--	--	--	--	--	--	--	--	--
PAH: Benzo[b]fluoranthene	205-99-2	--	--	--	--	--	--	--	--	--	--
PAH: Benzo[k]fluoranthene	207-08-9	--	--	--	--	--	--	--	--	--	--

Summary Table of Vapor (Soil Gas and Indoor Air) Environmental Screening Levels (µg/m³)

Chemicals	CAS No.	Subslab/ Soil Gas Res Cancer Risk	Subslab/ Soil Gas Res Non- cancer Hazard	Subslab/ Soil Gas Com/Ind Cancer Risk	Subslab/ Soil Gas Com/Ind Non- cancer Hazard	Subslab/ Soil Gas VI Odor Nuisance Levels	Indoor Air Res Cancer Risk	Indoor Air Res Non- cancer Hazard	Indoor Air Com/Ind Cancer Risk	Indoor Air Com/Ind Non- cancer Hazard	Indoor Air Odor Nuisance Levels
PAH: Chrysene	218-01-9	--	--	--	--	--	--	--	--	--	--
PAH: Dibenzo[a,h]anthracene	53-70-3	--	--	--	--	--	--	--	--	--	--
PAH: Fluoranthene	206-44-0	--	--	--	--	--	--	--	--	--	--
PAH: Fluorene	86-73-7	--	--	--	--	--	--	--	--	--	--
PAH: Indeno[1,2,3-c,d]pyrene	193-39-5	--	--	--	--	--	--	--	--	--	--
PAH: Naphthalene	91-20-3	2.8E+00	1.0E+02	1.2E+01	4.4E+02	1.5E+04	8.3E-02	3.1E+00	3.6E-01	1.3E+01	4.4E+02
PAH: Pyrene	129-00-0	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	--	--	--	--	--	--	--	--	--	--
Perchlorate	14797-73-0	--	--	--	--	--	--	--	--	--	--
Petroleum: Gasoline	--	--	2.2E+04	--	9.0E+04	3.3E+03	--	6.5E+02	--	2.7E+03	1.0E+02
Petroleum: Stoddard Solvent	--	--	1.0E+04	--	4.3E+04	3.3E+04	--	3.1E+02	--	1.3E+03	1.0E+03
Petroleum: Jet Fuel	--	--	1.0E+04	--	4.3E+04	3.3E+04	--	3.1E+02	--	1.3E+03	1.0E+03
Petroleum: Diesel	--	--	6.8E+03	--	2.8E+04	3.3E+04	--	2.0E+02	--	8.5E+02	1.0E+03
Petroleum: HOPs	--	--	--	--	--	--	--	--	--	--	--
Petroleum: Motor Oil	--	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluoropropanoic acid (PFPrA)	422-64-0	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorobutanoic acid (PFBA)	375-22-4	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluoropentanoic acid (PFPeA)	2706-90-3	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorohexanoic acid (PFHxA)	307-24-4	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluoroheptanoic acid (PFHpA)	375-85-9	--	--	--	--	--	--	--	--	--	--

Summary Table of Vapor (Soil Gas and Indoor Air) Environmental Screening Levels (µg/m³)

Chemicals	CAS No.	Subslab/ Soil Gas Res Cancer Risk	Subslab/ Soil Gas Res Non- cancer Hazard	Subslab/ Soil Gas Com/Ind Cancer Risk	Subslab/ Soil Gas Com/Ind Non- cancer Hazard	Subslab/ Soil Gas VI Odor Nuisance Levels	Indoor Air Res Cancer Risk	Indoor Air Res Non- cancer Hazard	Indoor Air Com/Ind Cancer Risk	Indoor Air Com/Ind Non- cancer Hazard	Indoor Air Odor Nuisance Levels
PFAS: Perfluorooctanoic acid (PFOA)	335-67-1	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorononanoic acid (PFNA)	375-95-1	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorodecanoic acid (PFDA)	335-76-2	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluoroundecanoic acid (PFUDA)	2058-94-8	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorododecanoic acid (PFDoDA)	307-55-1	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorooctadecanoic acid (PFODA)	16517-11-6	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorobutane sulfonic acid (PFBS)	375-73-5	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	--	--	--	--	--	--	--	--	--	--
PFAS: Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	--	--	--	--	--	--	--	--	--	--
Phenol	108-95-2	--	--	--	--	5.2E+03	--	--	--	--	1.6E+02

Summary Table of Vapor (Soil Gas and Indoor Air) Environmental Screening Levels ($\mu\text{g}/\text{m}^3$)

Chemicals	CAS No.	Subslab/ Soil Gas Res Cancer Risk	Subslab/ Soil Gas Res Non- cancer Hazard	Subslab/ Soil Gas Com/Ind Cancer Risk	Subslab/ Soil Gas Com/Ind Non- cancer Hazard	Subslab/ Soil Gas VI Odor Nuisance Levels	Indoor Air Res Cancer Risk	Indoor Air Res Non- cancer Hazard	Indoor Air Com/Ind Cancer Risk	Indoor Air Com/Ind Non- cancer Hazard	Indoor Air Odor Nuisance Levels
Polychlorinated biphenyls (PCBs)	1336-36-3	1.6E-01	--	7.2E-01	--	--	4.9E-03	--	2.2E-02	--	--
Selenium	7782-49-2	--	--	--	--	--	--	--	--	--	--
Silver	7440-22-4	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	--	3.1E+04	--	1.3E+05	4.5E+04	--	9.4E+02	--	3.9E+03	1.4E+03
tert-Butyl alcohol	75-65-0	--	1.7E+05	--	7.3E+05	--	--	5.2E+03	--	2.2E+04	--
1,1,1,2-Tetrachloroethane	630-20-6	1.3E+01	--	5.5E+01	--	--	3.8E-01	--	1.7E+00	--	--
1,1,2,2-Tetrachloroethane	79-34-5	1.6E+00	--	7.0E+00	--	3.5E+05	4.8E-02	--	2.1E-01	--	1.0E+04
Tetrachloroethene	127-18-4	1.5E+01	1.4E+03	6.7E+01	5.8E+03	1.1E+06	4.6E-01	4.2E+01	2.0E+00	1.8E+02	3.2E+04
Thallium	7440-28-0	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	--	1.5E+04	--	6.1E+04	1.0E+06	--	4.4E+02	--	1.8E+03	3.0E+04
Toxaphene	8001-35-2	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	--	7.0E+01	--	2.9E+02	7.3E+05	--	2.1E+00	--	8.8E+00	2.2E+04
1,1,1-Trichloroethane	71-55-6	--	3.5E+04	--	1.5E+05	2.2E+06	--	1.0E+03	--	4.4E+03	6.5E+04
1,1,2-Trichloroethane	79-00-5	5.8E+00	7.0E+00	2.6E+01	2.9E+01	--	1.8E-01	2.1E-01	7.7E-01	8.8E-01	--
Trichloroethene	79-01-6	1.6E+01	7.0E+01	1.0E+02	2.9E+02	4.5E+07	4.8E-01	2.1E+00	3.0E+00	8.8E+00	1.4E+06
2,4,5-Trichlorophenol	95-95-4	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	--	--	--	--	1.0E+01	--	--	--	--	3.0E-01
1,2,3-Trichloropropane	96-18-4	--	1.0E+01	--	4.4E+01	--	--	3.1E-01	--	1.3E+00	--
Vanadium	7440-62-2	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	75-01-4	3.2E-01	1.8E+03	5.2E+00	7.4E+03	2.6E+07	9.5E-03	5.3E+01	1.6E-01	2.2E+02	7.7E+05
Xylenes	1330-20-7	--	3.5E+03	--	1.5E+04	1.5E+04	--	1.0E+02	--	4.4E+02	4.4E+02
Zinc	7440-66-6	--	--	--	--	--	--	--	--	--	--

Short-Term Exposure Levels

The ESL User's Guide Chapter 6 presents more information about the short-term exposure levels for trichloroethene (TCE) and elemental mercury in groundwater, soil gas, and indoor air. The Accelerated (Acc) and Urgent Response (Resp) Levels for TCE come from the USEPA Region 9 Memorandum (USEPA 2014d). For elemental mercury, the Acc Resp Level is OEHHA's acute Reference Exposure Level (OEHHA 2015), and the Urgent Resp Level is ATSDR's action level for isolation (e.g., evacuation, limited access, etc.) prepared for USEPA (ATSDR 2012).

Chemicals	Drinking Water Acc Resp Levels (µg/L)	Acc Resp Action	Res VI GW Trigger Levels (µg/L)	Com VI GW Trigger Levels (µg/L)	Res VI Subslab/ Soil Gas Trigger Levels (µg/m ³)	Com VI Subslab/ Soil Gas Trigger Levels (µg/m ³)	Trigger Level Resp Action	Res Indoor Air Acc Resp Levels (µg/m ³)	Com Indoor Air Acc Resp Levels (µg/m ³)	Acc Resp Actions	Res Indoor Air Urgent Resp Levels (µg/m ³)	Com Indoor Air Urgent Resp Levels (µg/m ³)	Urgent Resp Actions
TCE	1.0E+01	Promptly notify ¹¹ & mitigate ¹²	5.0E+00	2.0E+01	6.7E+01	2.7E+02	Expedite indoor air sampling	2.0E+00	8.0E+00	Promptly notify ¹¹ & mitigate ¹² within weeks	6.0E+00	2.4E+01	Promptly notify ¹¹ & mitigate ¹² within days
Mercury (elemental)	--	--	1.7E+00	1.7E+00	2.0E+01	2.0E+01	Expedite indoor air sampling	6.0E-01	6.0E-01	Promptly notify ¹¹ & mitigate ¹² within weeks	1.0E+01	1.0E+01	Promptly notify ¹¹ & mitigate ¹² within days

¹¹ Notifying owners and occupants of buildings with impacted indoor air, and owners and users of impacted drinking water wells as soon as possible. Regulators should assess the need for Proposition 65 notices to public health and county officials when results exceed drinking water or indoor air Response Levels.

¹² Potential mitigation responses could include but are not limited to the following:

- Drinking Water Exposure: Prompt mitigation such as well head treatment or providing alternative water supply.
- Residential Indoor Air Exposure: Prompt mitigation such as increasing ventilation, sealing potential conduits, or treating indoor air.
- Commercial Indoor Air Exposure: Prompt mitigation such as increasing use of HVAC (e.g., increasing outdoor air intake, increasing building pressurization), sealing potential conduits, or treating indoor air.

Abbreviations

Acc	Accelerated
Com/Ind	Commercial/Industrial
Contam	Contamination
Const	Construction
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
Exp	Exposure
HI Calc	Hazard Index (HI) Calculation (Calc). Specifically, the HI should be equal to or less than 1 for mixtures of two or more of the following PFAS: PFNA, PFHxS, HFPO-DA, and PFBS. See ESL User's Guide Section 3.6.6 for more information on the PFAS MCL HI Calc.
HOPs	Hydrocarbon Oxidation Products (biodegradation metabolites and photo-oxidation products of petroleum hydrocarbons). See User's Guide Chapter 4 for further information.
MCL	Maximum Contaminant Level
NC	Noncancer
Nuis	Nuisance
PAH	Polycyclic aromatic hydrocarbon
PFAS	Per- and polyfluoroalkyl substances
Res	Residential
Resp	Response
Signific	Significantly
TCDD	Tetrachlorodibenzodioxin
Terr	Terrestrial
Vegitat	Vegetated
µg/L	Micrograms per liter
µg/m³	Micrograms per meter cubed
mg/kg	Milligrams per kilogram