

Parameter of Concern in Soil	Malahat Commercial Fill Site Soil Acceptance Criteria	Hazardous Waste Trigger Limits. Is soil concentration greater than this Trigger (in ug/g)? If YES, complete TCLP analysis
pH	≥ 5 ; < 9 ^a	≥ 5 ; < 9 ^a
Salinity		
Chloride Ion	600	-
Sodium Ion	1,000	-
Total Metals		
Aluminum	250,000	-
Antimony	40	-
Arsenic	10	50
Barium	1,500	2,000
Beryllium ^b	1	-
Boron	50,000	1,000
Cadmium ^b	1	10
Chromium, total ^c	65 ^{c,d} ; 250	100
Chromium, hexavalent	65 ^d	-
Cobalt	30 ^d	-
Copper ^b	300 ^b	2,000
Fluoride	25,000	3,000
Iron	150,000	-
Lead ^b	150	100
Lithium	450	-
Manganese	5,000 ^d	-
Mercury	75	2
Molybdenum	150	-
Nickel ^b	70	-
Selenium	4 ^d	-
Silver	40	-
Strontium	150,000	-
Tin	300	-
Tungsten	200	-
Uranium	150	-
Vanadium	300	-
Zinc ^b	150	1,000
Hydrocarbons		
Light Petroleum Hydrocarbons (LEPH C10-C19)	2,000	-
Heavy Petroleum Hydrocarbons (HEPH C19-C32)	5,000	-
Fraction 2 (C10-C16)	-	-
Fraction 3 (C16-C34)	-	-
Fraction 4 (C35+)	-	-
Volatile Organic Hydrocarbons		
Volatile Petroleum Hydrocarbons (VPH - C6-C10)	200	-
Fraction 1 (C6-C10)	-	-
Benzene	2.5	10
Ethylbenzene	200	4.8
Toluene	0.5	48
Xylenes	20	600
Styrene	50	-
Methyl tert-butyl ether (MTBE)	20,000	-
PAHs		
Acenaphthene	15,000	-
Anthracene	30	-
Benzo(a)anthracene	10	-
Benzo(a)pyrene	30	0.02
Benzo(b&j)fluoranthenes	10	-
Benzo(k)fluoranthene	10	-
Chrysene	4,500	-
Dibenz(a,h)anthracene	10	-
Fluoranthene	200	-
Fluorene	9,500	-
Indeno(1,2,3-cd)pyrene	10	-
Naphthalene	20	-
Phenanthrene	50	-
Pyrene	100	-
1-Methylnaphthalene	1,000	-
2-Methylnaphthalene	950	-
Polychlorinated biphenyls (PCBs)	35	-
Chlorinated Phenols:		
Pentachlorophenol (PCP)	0.1	120
2,3,4,6-Tetrachlorophenol (TTCP)	5	200
2,4,5-Trichlorophenol (TCP)	5	8000
2,4,6-Trichlorophenol (TCP)	5	10
Trichloroethylene (TCE)	0.3	100

Notes:

- All values in units of ug/g unless otherwise specified.
 - BC CSR site-specific standards for groundwater flow to surface water used for drinking water (DW) are not considered applicable to the Site based on hydrogeological assessment. All other site-specific standards, unless noted otherwise, were considered applicable including groundwater flow to surface water used by freshwater aquatic life (AWf) and by marine aquatic life (AWm).
- a. Soils with pH values less than 5 or greater than 9 will be considered but must be reviewed prior to acceptance.
- b. Parameter is pH dependent. The median pH value **6.18** for Site soils was determined using data collected from a Phase III ESA completed for the Site.
- c. If hexavalent chromium has not been analyzed, total chromium results must be compared to hexavalent chromium standard. If total chromium exceeds the hexavalent standard, analysis results for hexavalent chromium can be provided to show that results are below the standard.
- d. Acceptance criteria based on ENV Protocol 4 - Regional Background Concentration for Region 1 - Vancouver Island