TABLE 1B
MRL and MDL Summary
Select VOCs, SVOCs, Organochlorine Pesticides and PCBs
The Village at Evergreen
Vancouver, WA

Compound	Standard MRL (ug/l)	Standard MRL (EPA Method 8270M-SIM) (ug/l)	Standard MDL (ug/l)	Established MTCA Cleanup Criteria			Revised Carcinogenic Cleanup Level Based on WAC 173-340-700 (6) and 707	Does MRL/MDL Exceed Established or Revised Cleanup Criteria?	
				MTCA Method A Cleanup Level	MTCA Method B Non-Carcinogenic Protective Value	MTCA Method B Carcinogenic Protective Value			
VOCs (EPA Method 8260B)									
Carbon Tetrachloride	5.000	--	0.182	NE	5.600	0.340	NA	No	
Chloromethane	5.000	--	5.000	NE	NE	3.400	5.000	No[1]	See Table 2
1,2-Dibromo-3-chloropropane	2.000	--	0.377	NE	NE	0.031	2.000	No[1]	See Table 2
1,2-Dibromoethane (EDB)	0.500	--	0.205	0.010	NE	NE	0.500	No[1]	See Table 2
cis-1,3-Dichloropropene	0.500	--	0.120	NE	240.000	0.240	NA	No	
trans-1,3-Dichloropropene	0.500	--	0.142	NE	240.000	0.240	NA	No	
Hexachlorobutadine	2.000	--	0.435	NE	1.600	0.560	NA	No	
1,1,2,2-Tetrachloroethane	0.500	--	0.240	NE	NE	0.220	0.500	No[1]	See Table 2
1,2,3-Trichloropropane	1.000	--	0.342	NE	48.000	0.0063	1.0000	No[1]	See Table 2
Vinyl Chloride	0.500	--	0.316	NE	24.000	0.029	0.500	No[1]	See Table 2
SVOCs (EPA Method 8270C)									
Benzo(a)anthracene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
Benzo(b)flouranthene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
Benzo(k)flouranthene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
Benzo(a)pyrene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
Bis(2-Chloroethyl)ether	5.000	--	1.800	NE	NE	0.04	5.00	No[1]	See Table 2
Chrysene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
Dibenz(a,h)anthracene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
1,2-Diphenylhydrazine	10.000	--	2.90	NE	NE	0.11	10.00	No[1]	See Table 2
1,4-Dichlorobenzene	5.000	--	1.60	NE	NE	1.80	NA	No	
3,3-Dichlorobenzidine	10.000	--	2.500	NE	NE	0.19	10.00	No[1]	See Table 2
Hexachlorobenzene	5.000	--	1.800	NE	13	0.055	5.000	No[1]	See Table 2
Hexachlorobutadiene[3]	2.000	--	0.435	NE	1.600	0.560	NA	No	
Hexachloroethane	5.000	--	1.500	NE	8.00	3.10	NA	No	
Indeno(1,2,3-cd)pyrene	5.000	0.0377 - 0.0381	--	0.1[2]	--	--	NA	No	
Nitrobenzene	5.00	--	1.600	NE	4.00	NE	NA	No	
Pentachlorophenol	5.000	--	1.100	NE	480.00	0.73	5.00	No[1]	See Table 2
Carbazole	5.000	--	1.800	NE	NE	4.40	NA	No	
Organochlorine Pesticides (EPA Method 8081A)									
Dieldrin	0.050	--	0.0059	NE	0.8000	0.0055	0.0500	No[1]	See Table 2
Heptachlor	0.050	--	0.0097	NE	8.0000	0.0190	NA	No	
Heptachlor Epoxide	0.050	--	0.0059	NE	0.1000	0.0048	0.0500	No[1]	See Table 2

TABLE 1B
MRL and MDL Summary
Select VOCs, SVOCs, Organochlorine Pesticides and PCBs
The Village at Evergreen
Vancouver, WA

Compound	Standard MRL (ug/l)	Standard MRL (EPA Method 8270M-SIM) (ug/l)	Standard MDL (ug/l)	Established MTCA Cleanup Criteria			Revised Carcinogenic Cleanup Level Based on WAC 173-340-700 (6) and 707	Does MRL/MDL Exceed Established or Revised Cleanup Criteria?	
				MTCA Method A Cleanup Level	MTCA Method B Non-Carcinogenic Protective Value	MTCA Method B Carcinogenic Protective Value			
Toxaphene	1.000	--	0.2300	NE	NE	0.0800	1.0000	No[1]	See Table 2
PCBs (EPA Method 8082)									
Arochlor 1016	1.000	--	0.290	0.1[4]	1.100	NE	1.0	No[1]	See Table 2
Arochlor 1221	1.000	--	0.330	0.1[4]	NE	NE	1.0	No[1]	See Table 2
Arochlor 1232	1.000	--	0.240	0.1[4]	NE	NE	1.0	No[1]	See Table 2
Arochlor 1242	1.000	--	0.280	0.1[4]	NE	NE	1.0	No[1]	See Table 2
Arochlor 1248	1.000	--	0.270	0.1[4]	NE	NE	1.0	No[1]	See Table 2
Arochlor 1254	1.000	--	0.350	0.1[4]	0.320	NE	1.0	No[1]	See Table 2
Arochlor 1260	1.000	--	0.160	0.1[4]	NE	NE	1.0	No[1]	See Table 2

Notes:

NA: Not Applicable
NE: Not Established
MRL: Method Reporting Limit. The MRL is equivalent to the Practical Quantitation Limit (PQL).
MDL: Method Detection Limit.
1. The standard MRL is equivalent to the revised cleanup level based on WAC 173-340-707(2). See Table 2 for risk evaluation.
2. The sum of all carcinogenic PAHs must meet this cleanup level using the toxicity equivalency methodology in WAC 173-340-708(8).
3. Hexachlorobutadiene was also analyzed by EPA Method 8260B. The MRL/MDL for hexachlorobutadiene under EPA Method 8260B are lower than the MRL/MDL under EPA Method 8270C. Therefore, the MRL/MDL for hexachlorobutadiene under EPA Method 8260B are reported.
4. The sum of all PCBs must meet this cleanup level.

TABLE 2 B
Summary Risk Table
The Village at Evergreen
Vancouver, Washington

Compound	Standard MDL Concentration (assumed to be maximum detected concentration) (ug/l)	MTCA Method A Cleanup Level (ug/l)	MTCA Method B Non-Carcinogenic Protective Value (ug/l)	MTCA Method B Carcinogenic Protective Value (ug/l)	Revised Cleanup Level Based on WAC 173-340-707(2) (ug/l)	Calculated Risk	
						Excess Lifetime Cancer Risk	Hazard Quotient
VOCs							
Chloromethane	5.000	NE	NE	3.400	5.000	0.10×10^{-5}	NA
1,2-Dibromo-3-chloropropane	0.377	NE	NE	0.031	2.000	0.018×10^{-5}	NA
1,2-Dibromoethane (EDB)	0.205	0.010	NE	NE	0.500	0.041×10^{-5}	NA
1,1,2,2-Tetrachloroethane	0.240	NE	NE	0.220	0.500	0.048×10^{-5}	NA
1,2,3-Trichloropropane	0.342	NE	48.000	0.0063	1.0000	0.034×10^{-5}	0.007
Vinyl Chloride	0.316	NE	24.000	0.029	0.500	0.063×10^{-5}	0.013
SVOCs							
Bis(2-Chloroethyl)ether	1.800	NE	NE	0.04	5.00	0.036×10^{-5}	NA
1,2-Diphenylhydrazine	2.900	NE	NE	0.11	10.00	0.029×10^{-5}	NA
3,3-Dichlorobenzidine	2.500	NE	NE	0.19	10.00	0.025×10^{-5}	NA
Hexachlorobenzene	1.800	NE	13	0.055	5.000	0.036×10^{-5}	0.138
Pentachlorophenol	1.100	NE	480.00	0.73	5.00	0.022×10^{-5}	0.002
Organochlorine Pesticides							
Dieldrin	0.0059	NE	0.8000	0.0055	0.0500	0.012×10^{-5}	0.007
Heptachlor Epoxide	0.0059	NE	0.1000	0.0048	0.0500	0.012×10^{-5}	0.059
Toxaphene	0.2300	NE	NE	0.0800	1.0000	0.023×10^{-5}	NA
PCBs							
Arochlor 1016	0.290	0.1[2]	1.100	NE	1.0	0.029×10^{-5}	0.264
Arochlor 1221	0.330	0.1[2]	NE	NE	1.0	0.033×10^{-5}	NA
Arochlor 1232	0.240	0.1[2]	NE	NE	1.0	0.024×10^{-5}	NA
Arochlor 1242	0.280	0.1[2]	NE	NE	1.0	0.028×10^{-5}	NA
Arochlor 1248	0.270	0.1[2]	NE	NE	1.0	0.027×10^{-5}	NA
Arochlor 1254	0.350	0.1[2]	0.320	NE	1.0	0.035×10^{-5}	1.09[1]
Arochlor 1260	0.160	0.1[2]	NE	NE	1.0	0.016×10^{-5}	NA
Cumulative Risk						0.727×10^{-5}	1.58[2]

Notes:
1. Substituting the highest MRL of 0.1 ug/l utlized during the February 2006 groundwater monitoring events indicates a hazard quotient of 0.313 for aroclor 1254.
2. Summing the hazard quotients utilizing the MRL of 0.1 and hazard quotient of 0.313 for aroclor 1254 results in a total hazard quotient of 0.49 (less than 1).