

Ecological Hazard Quotients for the Snowy Owl Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Invert. Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX										
Benzene	9.25E+01	2.98E-05	3.22E-07	9.42E-04	1.02E-05	4.96E-05	5.36E-07	--	--	1.10E-05
Ethylbenzene	2.09E+01	2.98E-05	1.43E-06	5.51E-04	2.64E-05	4.96E-05	2.38E-06	--	--	3.02E-05
Toluene	9.13E+01	1.49E-05	1.63E-07	4.71E-04	5.16E-06	2.48E-05	2.72E-07	--	--	5.60E-06
Xylenes	9.06E-01	1.19E-04	1.31E-04	2.06E-03	2.28E-03	1.98E-04	2.19E-04	--	--	2.63E-03
TPH - CCME CWS										
Aliph>C06-C08 - F1	4.35E+02	8.59E-03	1.97E-05	5.14E-02	1.18E-04	1.43E-02	3.29E-05	--	--	1.71E-04
Aliph>C08-C10 -F1	4.35E+02	5.62E-03	1.29E-05	8.89E-03	2.04E-05	9.37E-03	2.15E-05	--	--	5.49E-05
Arom>C08-C10 -F1	4.35E+01	1.41E-03	3.23E-05	3.18E-02	7.31E-04	2.34E-03	5.38E-05	--	--	8.17E-04
F1 - Total										--
Aliph>C10-C12 -F2	4.35E+02	1.21E-01	2.77E-04	8.13E-02	1.87E-04	1.65E-01	3.78E-04	--	--	8.43E-04
Aliph>C12-C16 -F2	4.35E+02	1.21E-01	2.77E-04	1.72E-02	3.94E-05	2.01E-01	4.62E-04	--	--	7.79E-04
Arom>C10-C12 -F2	4.35E+01	2.47E-02	5.68E-04	3.03E-01	6.96E-03	4.12E-02	9.46E-04	--	--	8.47E-03
Arom>C12-C16 -F2	4.35E+01	3.02E-02	6.94E-04	2.48E-01	5.71E-03	5.03E-02	1.16E-03	--	--	7.56E-03
F2 - Total										--
Aliph>C16-C21-F3	8.71E+02	1.60E+00	1.84E-03	1.32E-02	1.51E-05	2.66E+00	3.06E-03	--	--	4.91E-03
Aliph>C21-C34 -F3	1.31E+02	6.85E-01	5.24E-03	1.92E-05	1.47E-07	1.14E+00	8.74E-03	--	--	1.40E-02
Arom>C16-C21 -F3	8.71E+01	3.99E-01	4.59E-03	1.67E+00	1.92E-02	6.66E-01	7.65E-03	--	--	3.14E-02
Arom>C21-C34 -F3	1.31E+02	1.71E-01	1.31E-03	2.13E-01	1.63E-03	2.85E-01	2.19E-03	--	--	5.13E-03
F3 - Total										--
Aliph>C34-C50 -F4	2.61E+03	9.83E-01	3.76E-04	9.75E-06	3.73E-09	1.64E+00	6.27E-04	--	--	1.00E-03
Arom>C34-C50 -F4	1.31E+02	2.46E-01	1.88E-03	1.03E-01	7.85E-04	4.09E-01	3.14E-03	--	--	5.80E-03
F4 - Total										--
Organics										
Aroclor 1254 (Total PCBs)	1.57E+00	5.21E-04	3.32E-04	1.59E-03	1.01E-03	3.89E-03	2.49E-03	1.85E-06	1.18E-06	3.83E-03
Inorganics										
Antimony	4.39E-01	2.46E-03	5.59E-03	9.33E-04	2.13E-03	9.00E-03	2.05E-02	1.69E-05	3.86E-05	2.83E-02
Barium	5.54E+01	8.02E-02	1.45E-03	5.41E-01	9.77E-03	1.95E-02	3.51E-04	6.98E-04	1.26E-05	1.16E-02
Beryllium	7.09E-01	3.12E-04	4.41E-04	9.90E-05	1.40E-04	3.75E-05	5.29E-05	3.70E-06	5.22E-06	6.39E-04
Boron	8.71E+01	9.97E-04	1.15E-05	1.60E-01	1.84E-03	7.48E-03	8.59E-05	7.84E-04	9.01E-06	1.94E-03
Cadmium	1.74E+01	7.14E-04	4.10E-05	1.39E-01	7.99E-03	1.83E-02	1.05E-03	3.70E-07	2.13E-08	9.08E-03
Chromium (Total)	4.16E+00	4.45E-02	1.07E-02	1.07E+00	2.56E-01	3.78E-02	9.07E-03	3.12E-05	7.50E-06	2.76E-01
Copper	8.19E+01	3.39E-02	4.14E-04	8.91E-01	1.09E-02	4.84E-02	5.90E-04	1.05E-04	1.28E-06	1.19E-02
Lead	1.44E+01	2.89E-02	2.01E-03	7.44E-01	5.18E-02	3.49E-02	2.43E-03	3.70E-06	2.57E-07	5.62E-02
Tin	2.15E+01	3.63E-03	1.69E-04	3.45E-03	1.60E-04	6.55E-03	3.05E-04	3.70E-05	1.72E-06	6.36E-04
Zinc	1.01E+02	1.27E-01	1.26E-03	3.02E+01	2.99E-01	1.46E+00	1.45E-02	4.02E-04	3.99E-06	3.15E-01

Ecological Hazard Quotients for the Ermine Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Invert. Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Mammal Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX												
Benzene	2.42E+02	3.46E-05	1.43E-07	3.91E-05	1.62E-07	4.12E-05	1.70E-07	7.86E-08	3.25E-10	--	--	4.75E-07
Ethylbenzene	1.03E+02	3.46E-05	3.35E-07	2.29E-05	2.22E-07	4.12E-05	3.99E-07	4.97E-07	4.82E-09	--	--	9.61E-07
Toluene	2.38E+02	1.73E-05	7.25E-08	1.95E-05	8.20E-08	2.06E-05	8.63E-08	1.43E-07	5.99E-10	--	--	2.41E-07
Xylenes	2.38E+00	1.38E-04	5.80E-05	8.56E-05	3.59E-05	1.65E-04	6.91E-05	2.10E-06	8.80E-07	--	--	1.64E-04
TPH - CCME CWS												
Aliph>C06-C08 - F1	1.83E+02	9.98E-03	5.44E-05	2.13E-03	1.16E-05	1.19E-02	6.48E-05	3.79E-04	2.07E-06	--	--	1.33E-04
Aliph>C08-C10 - F1	1.83E+02	6.53E-03	3.58E-05	3.69E-04	2.01E-06	7.78E-03	4.24E-05	1.02E-03	5.58E-06	--	--	8.57E-05
Arom>C08-C10 - F1	4.58E+01	1.63E-03	3.56E-05	1.32E-03	2.88E-05	1.94E-03	4.24E-05	2.00E-05	4.37E-07	--	--	1.07E-04
F1 - Total												--
Aliph>C10-C12 - F2	1.83E+02	1.40E-01	7.65E-04	3.37E-03	1.84E-05	1.37E-01	7.45E-04	3.59E-02	1.96E-04	--	--	1.72E-03
Aliph>C12-C16 - F2	1.83E+02	1.40E-01	7.65E-04	7.12E-04	3.88E-06	1.67E-01	9.11E-04	3.78E-01	2.06E-03	--	--	3.74E-03
Arom>C10-C12 - F2	9.17E+01	2.87E-02	3.13E-04	1.26E-02	1.37E-04	3.42E-02	3.73E-04	5.79E-04	6.32E-06	--	--	8.29E-04
Arom>C12-C16 - F2	9.17E+01	3.51E-02	3.83E-04	1.03E-02	1.12E-04	4.17E-02	4.55E-04	9.98E-04	1.09E-05	--	--	9.61E-04
F2 - Total												--
Aliph>C16-C21 - F3	3.67E+02	1.86E+00	5.06E-03	5.46E-04	1.49E-06	2.21E+00	6.03E-03	2.83E+00	7.71E-03	--	--	1.88E-02
Aliph>C21-C34 - F3	3.67E+02	7.95E-01	2.17E-03	7.96E-07	2.17E-09	9.47E-01	2.58E-03	4.82E-01	1.31E-03	--	--	6.07E-03
Arom>C16-C21 - F3	9.17E+01	4.64E-01	5.06E-03	6.92E-02	7.55E-04	5.52E-01	6.03E-03	2.49E-02	2.72E-04	--	--	1.21E-02
Arom>C21-C34 - F3	9.17E+01	1.99E-01	2.17E-03	8.83E-03	9.63E-05	2.37E-01	2.58E-03	4.20E-02	4.58E-04	--	--	5.31E-03
F3 - Total												--
Aliph>C34-C50 - F4	9.17E+02	1.14E+00	1.25E-03	4.04E-07	4.41E-10	1.36E+00	1.48E-03	3.46E-01	3.77E-04	--	--	3.10E-03
Arom>C34-C50 - F4	9.17E+01	2.85E-01	3.11E-03	4.25E-03	4.64E-05	3.40E-01	3.71E-03	2.78E-01	3.03E-03	--	--	9.90E-03
F4 - Total												--
Organics												
Aroclor 1254 (Total PCBs)	7.75E-01	6.05E-04	7.81E-04	6.58E-05	8.50E-05	3.23E-03	4.17E-03	1.12E-02	1.44E-02	1.81E-06	2.34E-06	1.94E-02
Inorganics												
Antimony	1.15E+00	2.85E-03	2.49E-03	3.87E-05	3.38E-05	7.47E-03	6.52E-03	1.75E-01	1.53E-01	1.68E-05	1.45E-05	1.62E-01
Barium	2.71E+01	9.32E-02	3.44E-03	2.24E-02	8.29E-04	1.61E-02	5.96E-04	2.57E-01	9.49E-03	6.83E-04	2.52E-05	1.44E-02
Beryllium	3.51E+00	3.63E-04	1.04E-04	4.10E-06	1.17E-06	3.11E-05	8.88E-06	4.37E-03	1.25E-03	3.62E-06	1.03E-06	1.36E-03
Boron	9.94E+01	1.16E-03	1.16E-05	6.63E-03	6.67E-05	6.20E-03	6.24E-05	3.11E-03	3.13E-05	7.68E-04	7.72E-06	1.80E-04
Cadmium	1.06E+01	8.30E-04	7.81E-05	5.77E-03	5.43E-04	1.52E-02	1.43E-03	1.54E-02	1.45E-03	3.62E-07	3.41E-08	3.50E-03
Chromium (Total)	1.45E+04	5.17E-02	3.55E-06	4.42E-02	3.04E-06	3.13E-02	2.16E-06	3.15E-02	2.17E-06	3.08E-05	2.10E-09	1.09E-05
Copper	1.71E+01	3.94E-02	2.30E-03	3.70E-02	2.16E-03	4.01E-02	2.34E-03	4.46E-01	2.60E-02	1.03E-04	6.01E-06	3.28E-02
Lead	8.50E+01	3.35E-02	3.95E-04	3.09E-02	3.63E-04	2.90E-02	3.41E-04	8.74E-02	1.03E-03	3.62E-06	4.26E-08	2.13E-03
Tin	3.21E+01	4.22E-03	1.31E-04	1.43E-04	4.46E-06	5.44E-03	1.69E-04	4.72E-01	1.47E-02	3.62E-05	1.13E-06	1.50E-02
Zinc	3.40E+02	1.47E-01	4.34E-04	1.25E+00	3.68E-03	1.21E+00	3.56E-03	6.40E+00	1.88E-02	3.93E-04	1.15E-06	2.65E-02

Ecological Hazard Quotients for the Arctic Fox Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Mammal Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX										
Benzene	1.92E+02	3.02E-05	1.57E-07	3.08E-05	1.60E-07	6.93E-08	3.60E-10	--	--	3.18E-07
Ethylbenzene	8.21E+01	3.02E-05	3.68E-07	1.80E-05	2.20E-07	4.38E-07	5.34E-09	--	--	5.93E-07
Toluene	1.90E+02	1.51E-05	7.96E-08	1.54E-05	8.13E-08	1.26E-07	6.63E-10	--	--	1.61E-07
Xylenes	1.90E+00	1.21E-04	6.36E-05	6.75E-05	3.56E-05	1.85E-06	9.75E-07	--	--	1.00E-04
TPH - OCME CWS										
Aliph>C06-C08 - F1	1.46E+02	8.71E-03	5.97E-05	1.68E-03	1.15E-05	3.34E-04	2.29E-06	--	--	7.35E-05
Aliph>C08-C10 -F1	1.48E+02	5.70E-03	3.91E-05	2.91E-04	1.99E-06	9.01E-04	6.18E-06	--	--	4.73E-05
Arom>C08-C10 -F1	3.65E+01	1.43E-03	3.91E-05	1.04E-03	2.85E-05	1.77E-05	4.84E-07	--	--	6.81E-05
F1 - Total										--
Aliph>C10-C12 -F2	1.46E+02	1.22E-01	8.39E-04	2.66E-03	1.82E-05	3.17E-02	2.17E-04	--	--	1.07E-03
Aliph>C12-C16 -F2	1.48E+02	1.22E-01	8.39E-04	5.61E-04	3.85E-06	3.33E-01	2.28E-03	--	--	3.13E-03
Arom>C10-C12 -F2	7.30E+01	2.51E-02	3.43E-04	9.91E-03	1.36E-04	5.10E-04	7.00E-06	--	--	4.86E-04
Arom>C12-C16 -F2	7.30E+01	3.08E-02	4.20E-04	8.13E-03	1.11E-04	8.80E-04	1.21E-05	--	--	5.43E-04
F2 - Total										--
Aliph>C16-C21-F3	2.92E+02	1.62E+00	5.55E-03	4.30E-04	1.47E-06	2.49E+00	8.53E-03	--	--	1.41E-02
Aliph>C21-C34 -F3	2.92E+02	6.94E-01	2.38E-03	6.28E-07	2.15E-09	4.25E-01	1.46E-03	--	--	3.83E-03
Arom>C16-C21 -F3	7.30E+01	4.05E-01	5.55E-03	5.45E-02	7.48E-04	2.20E-02	3.01E-04	--	--	6.60E-03
Arom>C21-C34 -F3	7.30E+01	1.74E-01	2.38E-03	6.96E-03	9.54E-05	3.70E-02	5.07E-04	--	--	2.98E-03
F3 - Total										--
Aliph>C34-C50 -F4	7.30E+02	9.97E-01	1.37E-03	3.19E-07	4.37E-10	3.05E-01	4.18E-04	--	--	1.78E-03
Arom>C34-C50 -F4	7.30E+01	2.49E-01	3.42E-03	3.35E-03	4.60E-05	2.45E-01	3.36E-03	--	--	6.82E-03
F4 - Total										--
Organics										
Aroclor 1254 (Total PCBs)	6.17E-01	5.28E-04	8.56E-04	5.19E-05	8.42E-05	9.83E-03	1.59E-02	2.08E-06	3.37E-06	1.69E-02
Inorganics										
Antimony	9.12E-01	2.49E-03	2.73E-03	3.05E-05	3.35E-05	1.54E-01	1.69E-01	1.90E-05	2.09E-05	1.72E-01
Barium	2.16E+01	8.13E-02	3.77E-03	1.77E-02	8.21E-04	2.27E-01	1.05E-02	7.84E-04	3.64E-05	1.51E-02
Beryllium	2.79E+00	3.17E-04	1.14E-04	3.24E-06	1.16E-06	3.85E-03	1.38E-03	4.16E-06	1.49E-06	1.50E-03
Boron	7.91E+01	1.01E-03	1.28E-05	5.23E-03	6.60E-05	2.74E-03	3.47E-05	8.81E-04	1.11E-05	1.25E-04
Cadmium	8.45E+00	7.24E-04	8.57E-05	4.55E-03	5.38E-04	1.36E-02	1.60E-03	4.16E-07	4.92E-08	2.23E-03
Chromium (Total)	1.16E+04	4.51E-02	3.90E-06	3.48E-02	3.01E-06	2.77E-02	2.40E-06	3.51E-05	3.03E-09	9.31E-06
Copper	1.36E+01	3.44E-02	2.52E-03	2.91E-02	2.14E-03	3.93E-01	2.88E-02	1.18E-04	8.66E-06	3.35E-02
Lead	6.76E+01	2.93E-02	4.33E-04	2.43E-02	3.60E-04	7.71E-02	1.14E-03	4.16E-06	6.15E-08	1.93E-03
Tin	2.55E+01	3.63E-03	1.44E-04	1.13E-04	4.42E-06	4.16E-01	1.63E-02	4.16E-05	1.63E-06	1.65E-02
Zinc	2.71E+02	1.23E-01	4.76E-04	9.87E-01	3.65E-03	5.64E+00	2.09E-02	4.51E-04	1.67E-06	2.50E-02

Ecological Hazard Quotients for the Caribou Exposed to Constituents of Interest in the Background

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX								
Benzene	1.60E+02	--	--	--	--	--	--	--
Ethylbenzene	6.85E+01	--	--	--	--	--	--	--
Toluene	1.58E+02	--	--	--	--	--	--	--
Xylenes	1.58E+00	--	--	--	--	--	--	--
TPH - CCME CWS								
Aliph>C06-C08 - F1	1.22E+02	--	--	--	--	--	--	--
Aliph>C08-C10 - F1	1.22E+02	--	--	--	--	--	--	--
Arom>C08-C10 - F1	3.04E+01	--	--	--	--	--	--	--
F1 - Total								--
Aliph>C10-C12 - F2	1.22E+02	--	--	--	--	--	--	--
Aliph>C12-C16 - F2	1.22E+02	--	--	--	--	--	--	--
Arom>C10-C12 - F2	6.09E+01	--	--	--	--	--	--	--
Arom>C12-C16 - F2	6.09E+01	--	--	--	--	--	--	--
F2 - Total								--
Aliph>C16-C21 - F3	2.43E+02	--	--	--	--	--	--	--
Aliph>C21-C34 - F3	2.43E+02	--	--	--	--	--	--	--
Arom>C16-C21 - F3	6.09E+01	--	--	--	--	--	--	--
Arom>C21-C34 - F3	6.09E+01	--	--	--	--	--	--	--
F3 - Total								--
Aliph>C34-C50 - F4	6.09E+02	--	--	--	--	--	--	--
Arom>C34-C50 - F4	6.09E+01	--	--	--	--	--	--	--
F4 - Total								--
Organics								
Aroclor 1254 (Total PCBs)	5.15E-01	--	--	--	--	--	--	--
Inorganics								
Antimony	7.61E-01	3.32E-03	4.36E-03	6.16E-04	8.09E-04	1.41E-05	1.85E-05	5.19E-03
Barium	1.80E+01	9.93E-02	5.52E-03	3.27E-01	1.82E-02	5.80E-04	3.22E-05	2.37E-02
Beryllium	2.33E+00	5.47E-04	2.35E-04	8.45E-05	3.63E-05	3.07E-06	1.32E-06	2.73E-04
Boron	6.60E+01	9.77E-05	1.48E-06	7.64E-03	1.16E-04	6.52E-04	9.87E-06	1.27E-04
Cadmium	7.05E+00	1.56E-04	2.22E-05	5.86E-03	8.31E-04	3.07E-07	4.36E-08	8.53E-04
Chromium (Total)	9.65E+03	5.37E-02	5.57E-06	5.42E-02	5.61E-06	2.59E-05	2.69E-09	1.12E-05
Copper	1.14E+01	2.72E-02	2.39E-03	1.84E-01	1.62E-02	8.73E-05	7.67E-06	1.86E-02
Lead	5.64E+01	1.25E-02	2.22E-04	3.52E-02	6.24E-04	3.07E-06	5.45E-08	8.45E-04
Tin	2.13E+01	3.71E-03	1.74E-04	1.72E-03	8.07E-05	3.07E-05	1.44E-06	2.56E-04
Zinc	2.26E+02	7.21E-02	3.19E-04	1.21E+00	5.38E-03	3.34E-04	1.48E-06	5.70E-03

Ecological Hazard Quotients for the Caribou Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX								
Benzene	1.60E+02	3.91E-05	2.44E-07	6.04E-04	3.76E-06	--	--	4.01E-06
Ethylbenzene	6.85E+01	3.91E-05	5.70E-07	3.53E-04	5.16E-06	--	--	5.73E-06
Toluene	1.58E+02	1.95E-05	1.23E-07	3.02E-04	1.91E-06	--	--	2.03E-06
Xylenes	1.58E+00	1.56E-04	9.88E-05	1.32E-03	8.35E-04	--	--	9.34E-04
TPH - CCME CWS								
Aliph>C06-C08 - F1	1.22E+02	1.13E-02	9.27E-05	3.29E-02	2.70E-04	--	--	3.63E-04
Aliph>C08-C10 -F1	1.22E+02	7.39E-03	6.07E-05	5.69E-03	4.67E-05	--	--	1.07E-04
Arom>C08-C10 -F1	3.04E+01	1.85E-03	6.07E-05	2.04E-02	6.70E-04	--	--	7.30E-04
F1 - Total								--
Aliph>C10-C12 -F2	1.22E+02	1.59E-01	1.30E-03	5.21E-02	4.28E-04	--	--	1.73E-03
Aliph>C12-C16 -F2	1.22E+02	1.59E-01	1.30E-03	1.10E-02	9.02E-05	--	--	1.39E-03
Arom>C10-C12 -F2	6.09E+01	3.24E-02	5.33E-04	1.94E-01	3.19E-03	--	--	3.72E-03
Arom>C12-C16 -F2	6.09E+01	3.96E-02	6.51E-04	1.59E-01	2.61E-03	--	--	3.27E-03
F2 - Total								--
Aliph>C16-C21-F3	2.43E+02	2.10E+00	8.62E-03	8.42E-03	3.46E-05	--	--	8.65E-03
Aliph>C21-C34 -F3	2.43E+02	8.99E-01	3.69E-03	1.23E-05	5.05E-08	--	--	3.69E-03
Arom>C16-C21 -F3	6.09E+01	5.24E-01	8.62E-03	1.07E+00	1.75E-02	--	--	2.62E-02
Arom>C21-C34 -F3	6.09E+01	2.25E-01	3.69E-03	1.36E-01	2.24E-03	--	--	5.93E-03
F3 - Total								--
Aliph>C34-C50 -F4	6.09E+02	1.29E+00	2.12E-03	6.24E-06	1.03E-08	--	--	2.12E-03
Arom>C34-C50 -F4	6.09E+01	3.23E-01	5.30E-03	6.57E-02	1.08E-03	--	--	6.38E-03
F4 - Total								--
Organics								
Aroclor 1254 (Total PCBs)	5.15E-01	6.84E-04	1.33E-03	1.02E-03	1.98E-03	1.54E-06	2.99E-06	3.31E-03
Inorganics								
Antimony	7.61E-01	3.22E-03	4.24E-03	5.98E-04	7.85E-04	1.41E-05	1.85E-05	5.04E-03
Barium	1.80E+01	1.05E-01	5.85E-03	3.46E-01	1.93E-02	5.80E-04	3.22E-05	2.51E-02
Beryllium	2.33E+00	4.10E-04	1.76E-04	6.34E-05	2.72E-05	3.07E-06	1.32E-06	2.05E-04
Boron	6.60E+01	1.31E-03	1.98E-05	1.02E-01	1.55E-03	6.52E-04	9.87E-06	1.58E-03
Cadmium	7.05E+00	9.38E-04	1.33E-04	8.91E-02	1.26E-02	3.07E-07	4.36E-08	1.28E-02
Chromium (Total)	9.65E+03	5.84E-02	6.05E-06	6.82E-01	7.07E-05	2.59E-05	2.69E-09	7.67E-05
Copper	1.14E+01	4.45E-02	3.91E-03	5.71E-01	5.02E-02	8.73E-05	7.67E-06	5.41E-02
Lead	5.64E+01	3.79E-02	6.72E-04	4.77E-01	8.44E-03	3.07E-06	5.45E-08	9.12E-03
Tin	2.13E+01	4.77E-03	2.24E-04	2.21E-03	1.04E-04	3.07E-05	1.44E-06	3.29E-04
Zinc	2.26E+02	1.67E-01	7.38E-04	1.93E+01	8.56E-02	3.34E-04	1.48E-06	8.64E-02

Ecological Hazard Quotients for the Arctic Hare Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Mammal Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX										
Benzene	1.96E+02	2.82E-05	1.44E-07	9.65E-04	4.93E-06	6.01E-09	3.07E-11	--	--	5.07E-06
Ethylbenzene	8.35E+01	2.82E-05	3.38E-07	5.64E-04	6.76E-06	3.80E-08	4.55E-10	--	--	7.10E-06
Toluene	1.93E+02	1.41E-05	7.31E-08	4.82E-04	2.50E-06	1.09E-08	5.65E-11	--	--	2.57E-06
Xylenes	1.93E+00	1.13E-04	5.85E-05	2.11E-03	1.09E-03	1.60E-07	8.31E-08	--	--	1.15E-03
TPH - COME CWS										
Aliph>C06-C08 - F1	1.48E+02	8.15E-03	5.49E-05	5.26E-02	3.54E-04	2.90E-05	1.95E-07	--	--	4.09E-04
Aliph>C08-C10 -F1	1.48E+02	5.33E-03	3.59E-05	9.10E-03	6.13E-05	7.81E-05	5.26E-07	--	--	9.77E-05
Arom>C08-C10 -F1	3.71E+01	1.33E-03	3.59E-05	3.26E-02	8.77E-04	1.53E-06	4.12E-08	--	--	9.13E-04
F1 - Total										--
Aliph>C10-C12 -F2	1.48E+02	1.15E-01	7.71E-04	8.32E-02	5.61E-04	2.74E-03	1.85E-05	--	--	1.35E-03
Aliph>C12-C16 -F2	1.48E+02	1.15E-01	7.71E-04	1.76E-02	1.18E-04	2.89E-02	1.94E-04	--	--	1.08E-03
Arom>C10-C12 -F2	7.42E+01	2.34E-02	3.16E-04	3.10E-01	4.18E-03	4.42E-05	5.96E-07	--	--	4.49E-03
Arom>C12-C16 -F2	7.42E+01	2.86E-02	3.86E-04	2.54E-01	3.43E-03	7.62E-05	1.03E-06	--	--	3.81E-03
F2 - Total										--
Aliph>C16-C21-F3	2.97E+02	1.52E+00	5.10E-03	1.35E-02	4.53E-05	2.16E-01	7.27E-04	--	--	5.87E-03
Aliph>C21-C34 -F3	2.97E+02	6.49E-01	2.19E-03	1.96E-05	6.61E-08	3.68E-02	1.24E-04	--	--	2.31E-03
Arom>C16-C21 -F3	7.42E+01	3.79E-01	5.10E-03	1.71E+00	2.30E-02	1.90E-03	2.56E-05	--	--	2.81E-02
Arom>C21-C34 -F3	7.42E+01	1.62E-01	2.19E-03	2.18E-01	2.93E-03	3.21E-03	4.32E-05	--	--	5.16E-03
F3 - Total										--
Aliph>C34-C50 -F4	7.42E+02	9.32E-01	1.26E-03	9.98E-06	1.34E-08	2.64E-02	3.56E-05	--	--	1.29E-03
Arom>C34-C50 -F4	7.42E+01	2.33E-01	3.14E-03	1.05E-01	1.41E-03	2.12E-02	2.86E-04	--	--	4.84E-03
F4 - Total										--
Organics										
Aroclor 1254 (Total PCBs)	6.28E-01	4.94E-04	7.87E-04	1.62E-03	2.59E-03	8.52E-04	1.36E-03	2.14E-06	3.41E-06	4.74E-03
Inorganics										
Antimony	9.28E-01	2.33E-03	2.51E-03	9.55E-04	1.03E-03	1.34E-02	1.44E-02	1.96E-05	2.11E-05	1.80E-02
Barium	2.19E+01	7.60E-02	3.47E-03	5.54E-01	2.52E-02	1.96E-02	8.95E-04	8.07E-04	3.68E-05	2.96E-02
Beryllium	2.84E+00	2.96E-04	1.04E-04	1.01E-04	3.57E-05	3.34E-04	1.18E-04	4.28E-06	1.51E-06	2.59E-04
Boron	8.05E+01	9.45E-04	1.17E-05	1.64E-01	2.03E-03	2.38E-04	2.95E-06	9.07E-04	1.13E-05	2.06E-03
Cadmium	8.60E+00	6.77E-04	7.87E-05	1.42E-01	1.65E-02	1.18E-03	1.37E-04	4.28E-07	4.97E-08	1.68E-02
Chromium (Total)	1.18E+04	4.22E-02	3.58E-06	1.09E+00	9.26E-05	2.40E-03	2.04E-07	3.61E-05	3.07E-09	9.64E-05
Copper	1.39E+01	3.22E-02	2.32E-03	9.12E-01	6.57E-02	3.41E-02	2.46E-03	1.22E-04	8.76E-06	7.05E-02
Lead	6.88E+01	2.74E-02	3.98E-04	7.62E-01	1.11E-02	6.68E-03	9.71E-05	4.28E-06	6.22E-08	1.16E-02
Tin	2.60E+01	3.44E-03	1.32E-04	3.53E-03	1.36E-04	3.61E-02	1.39E-03	4.28E-05	1.65E-06	1.66E-03
Zinc	2.75E+02	1.20E-01	4.37E-04	3.09E+01	1.12E-01	4.89E-01	1.78E-03	4.65E-04	1.69E-06	1.14E-01

Ecological Hazard Quotients for the Snowy Owl Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Mammal Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX								
Benzene	1.23E+02	2.54E-05	2.07E-07	2.88E-09	2.35E-11	--	--	2.07E-07
Ethylbenzene	2.77E+01	2.54E-05	9.17E-07	3.01E-08	1.09E-09	--	--	9.18E-07
Toluene	1.21E+02	1.27E-05	1.05E-07	5.22E-09	4.32E-11	--	--	1.05E-07
Xylenes	1.20E+00	1.01E-04	8.45E-05	1.35E-07	1.13E-07	--	--	8.46E-05
TPH - CCME CWS								
Aliph>C06-C08 - F1	5.77E+02	7.33E-03	1.27E-05	6.16E-05	1.07E-07	--	--	1.28E-05
Aliph>C08-C10 -F1	5.77E+02	4.79E-03	8.31E-06	4.03E-04	6.99E-07	--	--	9.01E-06
Arom>C08-C10 -F1	5.77E+01	1.20E-03	2.08E-05	1.01E-06	1.75E-08	--	--	2.08E-05
F1 - Total								--
Aliph>C10-C12 -F2	5.77E+02	1.03E-01	1.78E-04	2.01E-02	3.48E-05	--	--	2.13E-04
Aliph>C12-C16 -F2	5.77E+02	1.03E-01	1.78E-04	2.79E-01	4.84E-04	--	--	6.63E-04
Arom>C10-C12 -F2	5.77E+01	2.11E-02	3.65E-04	5.11E-05	8.85E-07	--	--	3.66E-04
Arom>C12-C16 -F2	5.77E+01	2.57E-02	4.46E-04	1.25E-04	2.16E-06	--	--	4.48E-04
F2 - Total								--
Aliph>C16-C21-F3	1.15E+03	1.36E+00	1.18E-03	2.27E+00	1.97E-03	--	--	3.15E-03
Aliph>C21-C34 -F3	1.73E+02	5.84E-01	3.37E-03	3.90E-01	2.25E-03	--	--	5.62E-03
Arom>C16-C21 -F3	1.15E+02	3.41E-01	2.95E-03	5.33E-03	4.62E-05	--	--	3.00E-03
Arom>C21-C34 -F3	1.73E+02	1.46E-01	8.43E-04	1.86E-02	1.07E-04	--	--	9.50E-04
F3 - Total								--
Aliph>C34-C50 -F4	3.46E+03	8.38E-01	2.42E-04	2.80E-01	8.08E-05	--	--	3.23E-04
Arom>C34-C50 -F4	1.73E+02	2.09E-01	1.21E-03	1.76E-01	1.02E-03	--	--	2.23E-03
F4 - Total								--
Organics								
Aroclor 1254 (Total PCBs)	2.08E+00	4.44E-04	2.14E-04	3.00E-03	1.45E-03	1.16E-06	5.60E-07	1.66E-03
Inorganics								
Antimony	5.82E-01	2.09E-03	3.60E-03	1.42E-01	2.43E-01	1.07E-05	1.83E-05	2.47E-01
Barium	7.34E+01	6.84E-02	9.31E-04	2.08E-01	2.83E-03	4.39E-04	5.98E-06	3.77E-03
Beryllium	9.40E-01	2.66E-04	2.83E-04	3.54E-03	3.77E-03	2.33E-06	2.48E-06	4.05E-03
Boron	1.15E+02	8.50E-04	7.36E-06	8.88E-05	7.69E-07	4.93E-04	4.27E-06	1.24E-05
Cadmium	2.31E+01	6.09E-04	2.64E-05	1.25E-02	5.40E-04	2.33E-07	1.01E-08	5.66E-04
Chromium (Total)	5.52E+00	3.79E-02	6.87E-03	2.55E-02	4.62E-03	1.96E-05	3.56E-06	1.15E-02
Copper	1.09E+02	2.89E-02	2.66E-04	3.61E-01	3.32E-03	6.61E-05	6.08E-07	3.59E-03
Lead	1.91E+01	2.46E-02	1.29E-03	7.08E-02	3.71E-03	2.33E-06	1.22E-07	5.00E-03
Tin	2.85E+01	3.10E-03	1.09E-04	3.82E-01	1.34E-02	2.33E-05	8.16E-07	1.35E-02
Zinc	1.34E+02	1.08E-01	8.09E-04	5.18E+00	3.88E-02	2.53E-04	1.89E-06	3.96E-02

Ecological Hazard Quotients for the Lemming Exposed to Constituents of Interest at CAM-F

Constituent	Reference Toxicity Dose (mg/kg-day)	Average Daily Dose (mg/kg-day)	Surface Soil Hazard Quotient	Average Daily Dose (mg/kg-day)	Terr. Plant Hazard Quotient	Average Daily Dose (mg/kg-day)	Surface Water Hazard Quotient	Hazard Quotients and Index
BTEX								
Benzene	2.59E+02	6.90E-05	2.66E-07	2.19E-03	8.43E-06	--	--	8.70E-06
Ethylbenzene	1.11E+02	6.90E-05	6.24E-07	1.28E-03	1.16E-05	--	--	1.22E-05
Toluene	2.56E+02	3.45E-05	1.35E-07	1.09E-03	4.28E-06	--	--	4.41E-06
Xylenes	2.56E+00	2.76E-04	1.08E-04	4.79E-03	1.87E-03	--	--	1.98E-03
TPH - CCME CWS								
Aliph>C06-C08 - F1	1.97E+02	1.99E-02	1.01E-04	1.19E-01	6.06E-04	--	--	7.07E-04
Aliph>C08-C10 -F1	1.97E+02	1.30E-02	6.63E-05	2.06E-02	1.05E-04	--	--	1.71E-04
Arom>C08-C10 -F1	4.91E+01	3.26E-03	6.63E-05	7.38E-02	1.50E-03	--	--	1.57E-03
F1 - Total								--
Aliph>C10-C12 -F2	1.97E+02	2.80E-01	1.42E-03	1.89E-01	9.59E-04	--	--	2.38E-03
Aliph>C12-C16 -F2	1.97E+02	2.80E-01	1.42E-03	3.98E-02	2.02E-04	--	--	1.63E-03
Arom>C10-C12 -F2	9.83E+01	5.73E-02	5.83E-04	7.03E-01	7.15E-03	--	--	7.73E-03
Arom>C12-C16 -F2	9.83E+01	7.00E-02	7.12E-04	5.76E-01	5.86E-03	--	--	6.57E-03
F2 - Total								--
Aliph>C16-C21-F3	3.93E+02	3.70E+00	9.42E-03	3.05E-02	7.76E-05	--	--	9.50E-03
Aliph>C21-C34 -F3	3.93E+02	1.59E+00	4.04E-03	4.45E-05	1.13E-07	--	--	4.04E-03
Arom>C16-C21 -F3	9.83E+01	9.26E-01	9.42E-03	3.87E+00	3.93E-02	--	--	4.88E-02
Arom>C21-C34 -F3	9.83E+01	3.97E-01	4.04E-03	4.93E-01	5.02E-03	--	--	9.06E-03
F3 - Total								--
Aliph>C34-C50 -F4	9.83E+02	2.28E+00	2.32E-03	2.26E-05	2.30E-08	--	--	2.32E-03
Arom>C34-C50 -F4	9.83E+01	5.70E-01	5.80E-03	2.38E-01	2.42E-03	--	--	8.21E-03
F4 - Total								--
Organics								
Aroclor 1254 (Total PCBs)	8.31E-01	1.21E-03	1.45E-03	3.68E-03	4.43E-03	5.63E-06	6.77E-06	5.89E-03
Inorganics								
Antimony	1.23E+00	5.69E-03	4.63E-03	2.16E-03	1.76E-03	5.15E-05	4.19E-05	6.44E-03
Barium	2.90E+01	1.86E-01	6.40E-03	1.25E+00	4.32E-02	2.12E-03	7.31E-05	4.97E-02
Beryllium	3.76E+00	7.25E-04	1.93E-04	2.29E-04	6.10E-05	1.13E-05	2.99E-06	2.57E-04
Boron	1.07E+02	2.31E-03	2.17E-05	3.70E-01	3.47E-03	2.39E-03	2.24E-05	3.52E-03
Cadmium	1.14E+01	1.66E-03	1.45E-04	3.22E-01	2.83E-02	1.13E-06	9.88E-08	2.85E-02
Chromium (Total)	1.56E+04	1.03E-01	6.62E-06	2.47E+00	1.58E-04	9.50E-05	6.09E-09	1.65E-04
Copper	1.84E+01	7.86E-02	4.28E-03	2.07E+00	1.12E-01	3.20E-04	1.74E-05	1.17E-01
Lead	9.11E+01	6.70E-02	7.35E-04	1.73E+00	1.89E-02	1.13E-05	1.23E-07	1.97E-02
Tin	3.44E+01	8.42E-03	2.45E-04	8.00E-03	2.32E-04	1.13E-04	3.27E-06	4.80E-04
Zinc	3.64E+02	2.94E-01	8.08E-04	7.00E+01	1.92E-01	1.22E-03	3.35E-06	1.93E-01

Animal Tissue Concentration at CAM-F Based Upon Plant, Soil and Water Ingestion

Constituent	Concentration in Plant (mg/kg-wet plant)	Ingestion Rate - Plant (kg wet- wt/day)	Concentration in Soil (mg/kg-dry soil)	Ingestion Rate - Soil (kg dry- wt/day)	Concentration in Water (mg/L)	Ingestion Rate - Water (L/day)	Ba _{p,s,w} (day/kg tissue, fresh wt)	BS (unitless)	Concentration in Caribou (mg/kg - fresh wt)
BTEX									
Benzene	3.80E-03	3.33E+01	2.00E-02	3.00E-01	0	5.50E+01	3.39E-06	1.00E+00	4.49E-07
Ethylbenzene	2.22E-03	3.33E+01	2.00E-02	3.00E-01	0	5.50E+01	3.55E-05	1.00E+00	2.84E-06
Toluene	1.90E-03	3.33E+01	1.00E-02	3.00E-01	0	5.50E+01	1.23E-05	1.00E+00	8.16E-07
Xylenes	8.32E-03	3.33E+01	8.00E-02	3.00E-01	0	5.50E+01	3.98E-05	1.00E+00	1.20E-05
TPH - CCME CWS									
Aliph>C06-C08 - F1	2.07E-01	3.33E+01	5.78E+00	3.00E-01	0	5.50E+01	2.51E-04	1.00E+00	2.17E-03
Aliph>C08-C10 - F1	3.58E-02	3.33E+01	3.78E+00	3.00E-01	0	5.50E+01	2.51E-03	1.00E+00	5.85E-03
Arom>C08-C10 - F1	1.28E-01	3.33E+01	9.45E-01	3.00E-01	0	5.50E+01	2.51E-05	1.00E+00	1.15E-04
F1 - Total									8.13E-03
Aliph>C10-C12 - F2	3.28E-01	3.33E+01	8.12E+01	3.00E-01	0	5.50E+01	7.76E-03	7.50E-01	2.05E-01
Aliph>C12-C16 - F2	6.92E-02	3.33E+01	8.12E+01	3.00E-01	0	5.50E+01	1.62E-01	5.00E-01	2.16E+00
Arom>C10-C12 - F2	1.22E+00	3.33E+01	1.66E+01	3.00E-01	0	5.50E+01	7.24E-05	1.00E+00	3.31E-03
Arom>C12-C16 - F2	1.00E+00	3.33E+01	2.03E+01	3.00E-01	0	5.50E+01	1.45E-04	1.00E+00	5.71E-03
F2 - Total									2.38E+00
Aliph>C16-C21-F3	5.30E-02	3.33E+01	1.07E+03	3.00E-01	0	5.50E+01	2.00E-01	2.50E-01	1.62E+01
Aliph>C21-C34 - F3	7.74E-05	3.33E+01	4.60E+02	3.00E-01	0	5.50E+01	2.00E-01	1.00E-01	2.76E+00
Arom>C16-C21 - F3	6.72E+00	3.33E+01	2.68E+02	3.00E-01	0	5.50E+01	4.68E-04	1.00E+00	1.42E-01
Arom>C21-C34 - F3	8.58E-01	3.33E+01	1.15E+02	3.00E-01	0	5.50E+01	3.80E-03	1.00E+00	2.40E-01
F3 - Total									1.93E+01
Aliph>C34-C50 - F4	3.93E-05	3.33E+01	6.60E+02	3.00E-01	0	5.50E+01	2.00E-01	5.00E-02	1.98E+00
Arom>C34-C50 - F4	4.14E-01	3.33E+01	1.65E+02	3.00E-01	0	5.50E+01	2.51E-02	1.00E+00	1.59E+00
F4 - Total									3.57E+00
Organics									
Aroclor 1254 (Total PCBs)	6.40E-03	3.33E+01	3.50E-01	3.00E-01	2.50E-05	5.50E+01	2.04E-01	1.00E+00	6.53E-02
Inorganics									
Antimony	3.76E-03	3.33E+01	1.65E+00	3.00E-01	2.29E-04	5.50E+01	1.00E-03	1.00E+00	6.33E-04
Barium	2.18E+00	3.33E+01	5.39E+01	3.00E-01	9.43E-03	5.50E+01	1.50E-04	1.00E+00	1.34E-02
Beryllium	3.99E-04	3.33E+01	2.10E-01	3.00E-01	5.00E-05	5.50E+01	1.00E-03	1.00E+00	7.90E-05
Boron	6.44E-01	3.33E+01	6.70E-01	3.00E-01	1.06E-02	5.50E+01	8.00E-04	1.00E+00	1.78E-02
Cadmium	5.61E-01	3.33E+01	4.80E-01	3.00E-01	5.00E-06	5.50E+01	5.50E-04	1.00E+00	1.04E-02
Chromium (Total)	4.29E+00	3.33E+01	2.99E+01	3.00E-01	4.22E-04	5.50E+01	5.50E-03	1.00E+00	8.37E-01
Lead	3.00E+00	3.33E+01	1.94E+01	3.00E-01	5.00E-05	5.50E+01	3.00E-04	1.00E+00	3.17E-02
Tin	1.39E-02	3.33E+01	2.44E+00	3.00E-01	5.00E-04	5.50E+01	8.00E-02	1.00E+00	9.78E-02
Zinc	1.22E+02	3.33E+01	8.53E+01	3.00E-01	5.43E-03	5.50E+01	1.00E-01	1.00E+00	4.08E+02

Animal Tissue Concentration in the Background Based Upon Plant, Soil and Water Ingestion

Constituent	Concentration in Plant (mg/kg-wet plant)	Ingestion Rate - Plant (kg wet- wt/day)	Concentration in Soil (mg/kg-dry soil)	Ingestion Rate - Soil (kg dry- wt/day)	Concentration in Water (mg/L)	Ingestion Rate - Water (L/day)	Ba _{p,s,w} (day/kg tissue, fresh wt)	BS (unitless)	Concentration in Caribou (mg/kg - fresh wt)
BTEX									
Benzene	0	3.33E+01	0	3.00E-01	0	5.50E+01	3.39E-06	1.00E+00	-
Ethylbenzene	0	3.33E+01	0	3.00E-01	0	5.50E+01	3.55E-05	1.00E+00	-
Toluene	0	3.33E+01	0	3.00E-01	0	5.50E+01	1.23E-05	1.00E+00	-
Xylenes	0	3.33E+01	0	3.00E-01	0	5.50E+01	3.98E-05	1.00E+00	-
TPH - CCME CWS									
Aliph>C06-C08 - F1	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.51E-04	1.00E+00	-
Aliph>C08-C10 - F1	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.51E-03	1.00E+00	-
Arom>C08-C10 - F1	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.51E-05	1.00E+00	-
F1 - Total									
Aliph>C10-C12 - F2	0	3.33E+01	0	3.00E-01	0	5.50E+01	7.76E-03	7.50E-01	-
Aliph>C12-C16 - F2	0	3.33E+01	0	3.00E-01	0	5.50E+01	1.62E-01	5.00E-01	-
Arom>C10-C12 - F2	0	3.33E+01	0	3.00E-01	0	5.50E+01	7.24E-05	1.00E+00	-
Arom>C12-C16 - F2	0	3.33E+01	0	3.00E-01	0	5.50E+01	1.45E-04	1.00E+00	-
F2 - Total									
Aliph>C16-C21 - F3	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.00E-01	2.50E-01	-
Aliph>C21-C34 - F3	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.00E-01	1.00E-01	-
Arom>C16-C21 - F3	0	3.33E+01	0	3.00E-01	0	5.50E+01	4.68E-04	1.00E+00	-
Arom>C21-C34 - F3	0	3.33E+01	0	3.00E-01	0	5.50E+01	3.80E-03	1.00E+00	-
F3 - Total									
Aliph>C34-C50 - F4	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.00E-01	5.00E-02	-
Arom>C34-C50 - F4	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.51E-02	1.00E+00	-
F4 - Total									
Organics									
Aroclor 1254 (Total PCBs)	0	3.33E+01	0	3.00E-01	0	5.50E+01	2.04E-01	1.00E+00	-
Inorganics									
Antimony	3.88E-03	3.33E+01	1.70E+00	3.00E-01	2.29E-04	5.50E+01	1.00E-03	1.00E+00	6.52E-04
Barium	2.06E+00	3.33E+01	5.08E+01	3.00E-01	9.43E-03	5.50E+01	1.50E-04	1.00E+00	1.26E-02
Beryllium	5.32E-04	3.33E+01	2.80E-01	3.00E-01	5.00E-05	5.50E+01	1.00E-03	1.00E+00	1.04E-04
Boron	4.81E-02	3.33E+01	5.00E-02	3.00E-01	1.06E-02	5.50E+01	8.00E-04	1.00E+00	1.76E-03
Cadmium	3.69E-02	3.33E+01	8.00E-02	3.00E-01	5.00E-06	5.50E+01	5.00E-04	1.00E+00	6.90E-04
Chromium (Total)	3.41E-01	3.33E+01	2.75E+01	3.00E-01	4.22E-04	5.50E+01	5.50E-03	1.00E+00	1.08E-01
Copper	1.16E+00	3.33E+01	1.39E+01	3.00E-01	1.42E-03	5.50E+01	1.00E-02	1.00E+00	4.28E-01
Lead	2.22E-01	3.33E+01	6.40E+00	3.00E-01	5.00E-05	5.50E+01	3.00E-04	1.00E+00	2.79E-03
Tin	1.08E-02	3.33E+01	1.90E+00	3.00E-01	5.00E-04	5.50E+01	8.00E-02	1.00E+00	7.67E-02
Zinc	7.64E+00	3.33E+01	3.69E+01	3.00E-01	5.43E-03	5.50E+01	1.00E-01	1.00E+00	2.66E+01

Final Exposure Point Concentrations for the Background

Constituent	CAS-RN	Soil Conc. (mg/kg)	Terrestrial Plant Conc. (mg/Kg)	Terrestrial Invertebrate Conc. (mg/Kg)	Terrestrial Mammal Conc. (mg/Kg)	Surface Water Conc. (mg/L)
BTEX						
Benzene	71432	--	--	--	--	--
Ethylbenzene	100414	--	--	--	--	--
Toluene	108883	--	--	--	--	--
Xylenes	1330207	--	--	--	--	--
TPH - CCME CWS						
	% Composition					
Aliph>C06-C08 - F1	0.55	--	--	--	--	--
Aliph>C08-C10 -F1	0.36	--	--	--	--	--
Arom>C08-C10 -F1	0.09	--	--	--	--	--
F1 - Total						
Aliph>C10-C12 -F2	0.36	--	--	--	--	--
Aliph>C12-C16 -F2	0.44	--	--	--	--	--
Arom>C10-C12 -F2	0.09	--	--	--	--	--
Arom>C12-C16 -F2	0.11	--	--	--	--	--
F2 - Total						
Aliph>C16-C21-F3	0.56	--	--	--	--	--
Aliph>C21-C34 -F3	0.24	--	--	--	--	--
Arom>C16-C21 -F3	0.14	--	--	--	--	--
Arom>C21-C34 -F3	0.06	--	--	--	--	--
F3 - Total						
Aliph>C34-C50 -F4	0.80	--	--	--	--	--
Arom>C34-C50 -F4	0.20	--	--	--	--	--
F4 - Total						
Organics						
Aroclor 1254 (Total PCBs)	11097691	--	--	--	--	--
Inorganics						
Antimony		1.70E+00	3.88E-03	3.74E-01	6.52E-04	2.29E-04
Barium	7440393	5.08E+01	2.06E+00	7.40E-01	1.22E+00	9.43E-03
Beryllium		2.80E-01	5.32E-04	2.02E-03	1.04E-04	5.00E-05
Boron		5.00E-02	4.81E-02	2.25E-02	1.76E-03	1.06E-02
Cadmium	7440439	8.00E-02	3.69E-02	1.78E-01	6.09E-02	5.00E-06
Chromium (Total)		2.75E+01	3.41E-01	1.53E+00	8.46E-01	4.22E-04
Copper	7440508	1.39E+01	1.16E+00	1.71E+00	3.61E+00	1.42E-03
Lead	7439921	6.40E+00	2.22E-01	5.75E-01	7.85E-01	5.00E-05
Tin		1.90E+00	1.08E-02	2.16E-01	4.59E-01	5.00E-04
Zinc	7440666	3.69E+01	7.64E+00	4.47E+01	3.65E+01	5.43E-03

Final Exposure Point Concentrations for CAM-F

Constituent	CAS-RN	Soil Conc. (mg/kg)	Terrestrial Plant Conc. (mg/Kg)	Terrestrial Invertebrate Conc. (mg/Kg)	Terrestrial Mammal Conc. (mg/Kg)	Surface Water Conc. (mg/L)
BTEX						
Benzene	71432	2.00E-02	3.80E-03	2.00E-03	4.49E-07	--
Ethylbenzene	100414	2.00E-02	2.22E-03	2.00E-03	2.84E-06	--
Toluene	108883	1.00E-02	1.90E-03	1.00E-03	8.16E-07	--
Xylenes	1330207	8.00E-02	8.32E-03	8.00E-03	1.20E-05	--
TPH - CCME CWS	% Composition					
Aliph>C06-C08 - F1	0.55	5.78E+00	2.07E-01	5.78E-01	2.17E-03	--
Aliph>C08-C10 -F1	0.36	3.78E+00	3.58E-02	3.78E-01	5.85E-03	--
Arom>C08-C10 -F1	0.09	9.45E-01	1.28E-01	9.45E-02	1.15E-04	--
F1 - Total						
Aliph>C10-C12 -F2	0.36	8.12E+01	3.28E-01	6.64E+00	2.05E-01	--
Aliph>C12-C16 -F2	0.44	8.12E+01	6.92E-02	8.12E+00	2.16E+00	--
Arom>C10-C12 -F2	0.09	1.66E+01	1.22E+00	1.66E+00	3.31E-03	--
Arom>C12-C16 -F2	0.11	2.03E+01	1.00E+00	2.03E+00	5.71E-03	--
F2 - Total						
Aliph>C16-C21-F3	0.56	1.07E+03	5.30E-02	1.07E+02	1.62E+01	--
Aliph>C21-C34 -F3	0.24	4.60E+02	7.74E-05	4.60E+01	2.75E+00	--
Arom>C16-C21 -F3	0.14	2.68E+02	6.72E+00	2.68E+01	1.42E-01	--
Arom>C21-C34 -F3	0.06	1.15E+02	8.58E-01	1.15E+01	2.40E-01	--
F3 - Total						
Aliph>C34-C50 -F4	0.80	6.60E+02	3.93E-05	6.60E+01	1.98E+00	--
Arom>C34-C50 -F4	0.20	1.65E+02	4.14E-01	1.65E+01	1.59E+00	--
F4 - Total						
Organics						
Aroclor 1254 (Total PCBs)	11097691	3.50E-01	6.40E-03	1.57E-01	6.38E-02	2.50E-05
Inorganics						
Antimony		1.65E+00	3.76E-03	3.63E-01	1.00E+00	2.29E-04
Barium	7440393	5.39E+01	2.18E+00	7.85E-01	1.47E+00	9.43E-03
Beryllium		2.10E-01	3.99E-04	1.51E-03	2.50E-02	5.00E-05
Boron		6.70E-01	6.44E-01	3.02E-01	1.78E-02	1.06E-02
Cadmium	7440439	4.80E-01	5.61E-01	7.39E-01	8.80E-02	5.00E-06
Chromium (Total)		2.99E+01	4.29E+00	1.52E+00	1.80E-01	4.22E-04
Copper	7440508	2.28E+01	3.59E+00	1.95E+00	2.55E+00	1.42E-03
Lead	7439921	1.94E+01	3.00E+00	1.41E+00	5.00E-01	5.00E-05
Tin		2.44E+00	1.39E-02	2.64E-01	2.70E+00	5.00E-04
Zinc	7440666	8.53E+01	1.22E+02	5.88E+01	3.66E+01	5.43E-03