

Appendix 7-3 Detailed Assessment Results for Ecological Risk Assessment – Marine Mammals

Table 1a Contaminants of Concern Concentration at edge of ZID and Preys (Scenario 1)

Contaminant of Concern	C/D Effluent Conc. (mg/L)	Ambient Seawater Conc. (mg/L)	Conc. at edge of ZID (mg/L) – 10%tile dilution factor	Bioconc. Factor (water-to-fish) (L/kg)	Food Chain Multiplier (Trophic Level 4)	Conc. in Fish (mg/kg)	Bioconc. Factor (water-to-invertebrates) (L/kg)	Food Chain Multiplier (Trophic Level 3)	Conc. in Shellfish (mg/kg)
Total Residual Chlorine	0.1	0	1.89E-03	-	-	-	-	-	-
Chloroform	0.007	0	1.32E-04	6.92	1	9.14E-04	2.82	1	3.72E-04
Chloroacetic acid	0.004	0	7.55E-05	0.26	1	1.96E-05	0.11	1	8.30E-06
Dibromoacetic acid	0.004	0	7.55E-05	0.82	1	6.19E-05	0.31	1	2.34E-05
Dichloroacetic acid	0.0459	0	8.66E-04	1.13	1	9.79E-04	0.41	1	3.55E-04
Trichloroacetic acid	0.022	0	4.15E-04	2.66	1	2.39E-03	0.88	1	3.65E-04
Tetrachloroethylene	0.0013	0	2.45E-05	82.80	1	2.03E-03	43.5	1.1	1.17E-03
Trichloroethylene	0.002	0	3.77E-05	14.10	1	5.32E-04	6.85	1	2.58E-04
2,4,6-trichlorophenol	0.002	0	3.77E-05	56.10	1	2.12E-03	76.6	1.1	3.18E-03
Hexachlorobenzene	0.00025	0	4.72E-06	2400	1	1.13E-02	2595	1	1.22E-02
b-BHC	0.0005	0	9.43E-06	168	1	1.58E-03	89.1	1.2	1.01E-03
g-BHC	0.0005	0	9.43E-06	168	1	1.58E-03	79.6	1.2	9.01E-04

Table 1b Contaminants of Concern Concentration at edge of ZID and Preys (Scenario 2)

Contaminant of Concern	C/D Effluent Conc. (mg/L)	Ambient Seawater Conc. (mg/L)	Conc. at edge of ZID (mg/L) – 10%tile dilution factor	Bioconc. Factor (water-to-fish) (L/kg)	Food Chain Multiplier (Trophic Level 4)	Conc. in Fish (mg/kg)	Bioconc. Factor (water-to-invertebrates) (L/kg)	Food Chain Multiplier (Trophic Level 3)	Conc. in Shellfish (mg/kg)
Total Residual Chlorine	0.1	0	1.89E-03	-	-	-	-	-	-
Chloroform	0.007	0	1.32E-04	6.92	1	9.14E-04	2.82	1	3.72E-04
Chloroacetic acid	0.004	0	7.55E-05	0.26	1	1.96E-05	0.11	1	8.30E-06
Dibromoacetic acid	0.004	0	7.55E-05	0.82	1	6.19E-05	0.31	1	2.34E-05
Dichloroacetic acid	0.0459	0	8.66E-04	1.13	1	9.79E-04	0.41	1	3.55E-04
Trichloroacetic acid	0.022	0	4.15E-04	2.66	1	2.39E-03	0.88	1	3.65E-04
Tetrachloroethylene	0.0013	0	2.45E-05	82.80	1	2.03E-03	43.5	1.1	1.17E-03
Trichloroethylene	0.002	0	3.77E-05	14.10	1	5.32E-04	6.85	1	2.58E-04
2,4,6-trichlorophenol	0.002	0	3.77E-05	56.10	1	2.12E-03	76.6	1.1	3.18E-03
Hexachlorobenzene	0.00025	0	4.72E-06	2400	1	1.13E-02	2595	1	1.22E-02
b-BHC	0.0005	0	9.43E-06	168	1	1.58E-03	89.1	1.2	1.01E-03
g-BHC	0.0005	0	9.43E-06	168	1	1.58E-03	79.6	1.2	9.01E-04

Table 1c Contaminants of Concern Concentration at edge of ZID and Preys (Scenario 3)

Contaminant of Concern	C/D Effluent Conc. (mg/L)	Ambient Seawater Conc. (mg/L)	Conc. at edge of ZID (mg/L) – 10%tile dilution factor	Bioconc. Factor (water-to-fish) (L/kg)	Food Chain Multiplier (Trophic Level 4)	Conc. in Fish (mg/kg)	Bioconc. Factor (water-to-invertebrates) (L/kg)	Food Chain Multiplier (Trophic Level 3)	Conc. in Shellfish (mg/kg)
Total Residual Chlorine	0.1	0	2.04E-03	-	-	-	-	-	-
Chloroform	0.007	0	1.43E-04	6.92	1	9.89E-04	2.82	1	4.03E-04
Chloroacetic acid	0.004	0	8.16E-05	0.26	1	2.12E-05	0.11	1	8.98E-06
Dibromoacetic acid	0.004	0	8.16E-05	0.82	1	6.69E-05	0.31	1	2.53E-05
Dichloroacetic acid	0.0459	0	9.37E-04	1.13	1	1.06E-03	0.41	1	3.84E-04
Trichloroacetic acid	0.022	0	4.49E-04	2.66	1	2.58E-03	0.88	1	3.95E-04
Tetrachloroethylene	0.0013	0	2.65E-05	82.80	1	2.20E-03	43.5	1.1	1.27E-03
Trichloroethylene	0.002	0	4.08E-05	14.10	1	5.76E-04	6.85	1	2.80E-04
2,4,6-trichlorophenol	0.002	0	4.08E-05	56.10	1	2.29E-03	76.6	1.1	3.44E-03
Hexachlorobenzene	0.00025	0	5.10E-06	2400	1	1.22E-02	2595	1	1.32E-02
b-BHC	0.0005	0	1.02E-05	168	1	1.71E-03	89.1	1.2	1.09E-03
g-BHC	0.0005	0	1.02E-05	168	1	1.71E-03	79.6	1.2	9.75E-04

Table 1d Contaminants of Concern Concentration at edge of ZID and Preys (Scenario 4)

Contaminant of Concern	C/D Effluent Conc. (mg/L)	Ambient Seawater Conc. (mg/L)	Conc. at edge of ZID (mg/L) – 10%tile dilution factor	Bioconc. Factor (water-to-fish) (L/kg)	Food Chain Multiplier (Trophic Level 4)	Conc. in Fish (mg/kg)	Bioconc. Factor (water-to-invertebrates) (L/kg)	Food Chain Multiplier (Trophic Level 3)	Conc. in Shellfish (mg/kg)
Total Residual Chlorine	0.1	0	2.17E-03	-	-	-	-	-	-
Chloroform	0.007	0	1.52E-04	6.92	1	1.05E-03	2.82	1	4.29E-04
Chloroacetic acid	0.004	0	8.70E-05	0.26	1	2.26E-05	0.11	1	9.57E-06
Dibromoacetic acid	0.004	0	8.70E-05	0.82	1	7.13E-05	0.31	1	2.70E-05
Dichloroacetic acid	0.0459	0	9.98E-04	1.13	1	1.13E-03	0.41	1	4.09E-04
Trichloroacetic acid	0.022	0	4.78E-04	2.66	1	2.75E-03	0.88	1	4.21E-04
Tetrachloroethylene	0.0013	0	2.83E-05	82.80	1	2.34E-03	43.5	1.1	1.35E-03
Trichloroethylene	0.002	0	4.35E-05	14.10	1	6.13E-04	6.85	1	2.98E-04
2,4,6-trichlorophenol	0.002	0	4.35E-05	56.10	1	2.44E-03	76.6	1.1	3.66E-03
Hexachlorobenzene	0.00025	0	5.43E-06	2400	1	1.30E-02	2595	1	1.41E-02
b-BHC	0.0005	0	1.09E-05	168	1	1.83E-03	89.1	1.2	1.16E-03
g-BHC	0.0005	0	1.09E-05	168	1	1.83E-03	79.6	1.2	1.04E-03

Table 1e Contaminants of Concern Concentration at Exposure Points and Seafood (Scenario 5)

Contaminant of Concern	C/D Effluent Conc. (mg/L)	Ambient Seawater Conc. (mg/L)	Conc. at edge of ZID (mg/L) – 10%tile dilution factor	Bioconc. Factor (water-to-fish) (L/kg)	Food Chain Multiplier (Trophic Level 4)	Conc. in Fish (mg/kg)	Bioconc. Factor (water-to-invertebrates) (L/kg)	Food Chain Multiplier (Trophic Level 3)	Conc. in Shellfish (mg/kg)
TRC	0.01	0	2.17E-04	-	-	-	-	-	-
Bromoform	0.049	0	1.07E-03	13.3	1	1.42E-02	6.6	1	7.03E-03
Dibromochloromethane	0.008	0	1.74E-04	6.92	1	1.81E-03	2.82	1	8.33E-04
Dibromoacetic acid	0.01	0	2.17E-04	0.26	1	1.78E-04	0.11	1	6.74E-05
Dichloroacetic acid	0.003	0	6.52E-05	0.82	1	7.37E-05	0.31	1	2.67E-05
Trichloroacetic acid	0.007	0	1.52E-04	1.13	1	8.75E-04	0.41	1	1.34E-04
Hexachlorobenzene	0.00025	0	5.43E-06	2.66	1	1.30E-02	0.88	1	1.41E-02
b-BHC	0.0005	0	1.09E-05	2400	1	1.83E-03	2595	1	1.16E-03
g-BHC	0.0005	0	1.09E-05	168	1	1.83E-03	89.1	1.2	1.04E-03

Table 2a Exposure of Contaminants of Concern by Marine Mammals (Scenario 1)

Contaminant of Concern	Conc. at edge of ZID (mg/L)	Conc. in Fish (mg/kg)	Conc. in Shellfish (mg/kg)	Dolphins			Porpoises			Dolphins	Porpoises
				Daily Exposure via Ingestion of Fish (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Total Daily Exposure (mg/kg-d)
Total Residual Chlorine	1.89E-03	-	-	-	-	-	-	-	-	5.90E-06	3.54E-06
Chloroform	1.32E-04	9.14E-04	3.72E-04	1.34E-05	6.05E-07	4.13E-07	5.14E-06	2.10E-06	2.48E-07	1.44E-05	7.48E-06
Chloroacetic acid	7.55E-05	1.96E-05	8.30E-06	2.87E-07	1.35E-08	2.36E-07	1.10E-07	4.67E-08	1.42E-07	5.36E-07	2.99E-07
Dibromoacetic acid	7.55E-05	6.19E-05	2.34E-05	9.05E-07	3.80E-08	2.36E-07	3.48E-07	1.32E-07	1.42E-07	1.18E-06	6.21E-07
Dichloroacetic acid	8.66E-04	9.79E-04	3.55E-04	1.43E-05	5.77E-07	2.71E-06	5.50E-06	2.00E-06	1.62E-06	1.76E-05	9.13E-06
Trichloroacetic acid	4.15E-04	2.39E-03	3.65E-04	3.49E-05	5.94E-07	1.30E-06	1.34E-05	2.05E-06	7.78E-07	3.68E-05	1.63E-05
Tetrachloroethylene	2.45E-05	2.03E-03	1.17E-03	2.97E-05	1.91E-06	7.67E-08	1.14E-05	6.60E-06	4.60E-08	3.17E-05	1.81E-05
Trichloroethylene	3.77E-05	5.32E-04	2.58E-04	7.78E-06	4.20E-07	1.18E-07	2.99E-06	1.45E-06	7.08E-08	8.32E-06	4.52E-06
2,4,6-trichlorophenol	3.77E-05	2.12E-03	3.18E-03	3.10E-05	5.17E-06	1.18E-07	1.19E-05	1.79E-05	7.08E-08	3.62E-05	2.99E-05
Hexachlorobenzene	4.72E-06	1.13E-02	1.22E-02	1.66E-04	1.99E-05	1.47E-08	6.37E-05	6.89E-05	8.84E-09	1.85E-04	1.33E-04
b-BHC	9.43E-06	1.58E-03	1.01E-03	2.32E-05	1.64E-06	2.95E-08	8.92E-06	5.67E-06	1.77E-08	2.48E-05	1.46E-05
g-BHC	9.43E-06	1.58E-03	9.01E-04	2.32E-05	1.46E-06	2.95E-08	8.92E-06	5.07E-06	1.77E-08	2.47E-05	1.40E-05

Table 2b Exposure of Contaminants of Concern by Marine Mammals (Scenario 2)

Contaminant of Concern	Conc. at edge of ZID (mg/L)	Conc. in Fish (mg/kg)	Conc. in Shellfish (mg/kg)	Dolphins			Porpoises			Dolphins	Porpoises
				Daily Exposure via Ingestion of Fish (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Total Daily Exposure (mg/kg-d)
Total Residual Chlorine	1.89E-03	-	-	-	-	5.90E-06	-	-	3.54E-06	5.90E-06	3.54E-06
Chloroform	1.32E-04	9.14E-04	3.72E-04	1.34E-05	6.05E-07	4.13E-07	5.14E-06	2.10E-06	2.48E-07	1.44E-05	7.48E-06
Chloroacetic acid	7.55E-05	1.96E-05	8.30E-06	2.87E-07	1.35E-08	2.36E-07	1.10E-07	4.67E-08	1.42E-07	5.36E-07	2.99E-07
Dibromoacetic acid	7.55E-05	6.19E-05	2.34E-05	9.05E-07	3.80E-08	2.36E-07	3.48E-07	1.32E-07	1.42E-07	1.18E-06	6.21E-07
Dichloroacetic acid	8.66E-04	9.79E-04	3.55E-04	1.43E-05	5.77E-07	2.71E-06	5.50E-06	2.00E-06	1.62E-06	1.76E-05	9.13E-06
Trichloroacetic acid	4.15E-04	2.39E-03	3.65E-04	3.49E-05	5.94E-07	1.30E-06	1.34E-05	2.05E-06	7.78E-07	3.68E-05	1.63E-05
Tetrachloroethylene	2.45E-05	2.03E-03	1.17E-03	2.97E-05	1.91E-06	7.67E-08	1.14E-05	6.60E-06	4.60E-08	3.17E-05	1.81E-05
Trichloroethylene	3.77E-05	5.32E-04	2.58E-04	7.78E-06	4.20E-07	1.18E-07	2.99E-06	1.45E-06	7.08E-08	8.32E-06	4.52E-06
2,4,6-trichlorophenol	3.77E-05	2.12E-03	3.18E-03	3.10E-05	5.17E-06	1.18E-07	1.19E-05	1.79E-05	7.08E-08	3.62E-05	2.99E-05
Hexachlorobenzene	4.72E-06	1.13E-02	1.22E-02	1.66E-04	1.99E-05	1.47E-08	6.37E-05	6.89E-05	8.84E-09	1.85E-04	1.33E-04
b-BHC	9.43E-06	1.58E-03	1.01E-03	2.32E-05	1.64E-06	2.95E-08	8.92E-06	5.67E-06	1.77E-08	2.48E-05	1.46E-05
g-BHC	9.43E-06	1.58E-03	9.01E-04	2.32E-05	1.46E-06	2.95E-08	8.92E-06	5.07E-06	1.77E-08	2.47E-05	1.40E-05

Table 2c Exposure of Contaminants of Concern by Marine Mammals (Scenario 3)

Contaminant of Concern	Conc. at edge of ZID (mg/L)	Conc. in Fish (mg/kg)	Conc. in Shellfish (mg/kg)	Dolphins			Porpoises			Dolphins	Porpoises
				Daily Exposure via Ingestion of Fish (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Total Daily Exposure (mg/kg-d)
Total Residual Chlorine	2.04E-03	-	-	-	-	6.38E-06	-	-	3.83E-06	6.38E-06	3.83E-06
Chloroform	1.43E-04	9.89E-04	4.03E-04	1.45E-05	6.55E-07	4.46E-07	5.56E-06	2.27E-06	2.68E-07	1.56E-05	8.09E-06
Chloroacetic acid	8.16E-05	2.12E-05	8.98E-06	3.10E-07	1.46E-08	2.55E-07	1.19E-07	5.05E-08	1.53E-07	5.80E-07	3.23E-07
Dibromoacetic acid	8.16E-05	6.69E-05	2.53E-05	9.79E-07	4.11E-08	2.55E-07	3.77E-07	1.42E-07	1.53E-07	1.28E-06	6.72E-07
Dichloroacetic acid	9.37E-04	1.06E-03	3.84E-04	1.55E-05	6.24E-07	2.93E-06	5.95E-06	2.16E-06	1.76E-06	1.90E-05	9.87E-06
Trichloroacetic acid	4.49E-04	2.58E-03	3.95E-04	3.78E-05	6.42E-07	1.40E-06	1.45E-05	2.22E-06	8.42E-07	3.98E-05	1.76E-05
Tetrachloroethylene	2.65E-05	2.20E-03	1.27E-03	3.21E-05	2.06E-06	8.29E-08	1.24E-05	7.14E-06	4.97E-08	3.43E-05	1.95E-05
Trichloroethylene	4.08E-05	5.76E-04	2.80E-04	8.42E-06	4.54E-07	1.28E-07	3.24E-06	1.57E-06	7.65E-08	9.00E-06	4.89E-06
2,4,6-trichlorophenol	4.08E-05	2.29E-03	3.44E-03	3.35E-05	5.59E-06	1.28E-07	1.29E-05	1.93E-05	7.65E-08	3.92E-05	3.23E-05
Hexachlorobenzene	5.10E-06	1.22E-02	1.32E-02	1.79E-04	2.15E-05	1.59E-08	6.89E-05	7.45E-05	9.57E-09	2.01E-04	1.43E-04
b-BHC	1.02E-05	1.71E-03	1.09E-03	2.51E-05	1.77E-06	3.19E-08	9.64E-06	6.14E-06	1.91E-08	2.69E-05	1.58E-05
g-BHC	1.02E-05	1.71E-03	9.75E-04	2.51E-05	1.58E-06	3.19E-08	9.64E-06	5.48E-06	1.91E-08	2.67E-05	1.51E-05

Table 2d Exposure of Contaminants of Concern by Marine Mammals (Scenario 4)

Contaminant of Concern	Conc. at edge of ZID (mg/L)	Conc. in Fish (mg/kg)	Conc. in Shellfish (mg/kg)	Dolphins			Porpoises			Dolphins	Porpoises
				Daily Exposure via Ingestion of Fish (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Total Daily Exposure (mg/kg-d)
Total Residual Chlorine	2.17E-03	-	-	0.00E+00	0.00E+00	6.79E-06	0.00E+00	0.00E+00	4.08E-06	6.79E-06	4.08E-06
Chloroform	1.52E-04	1.05E-03	4.29E-04	1.54E-05	6.97E-07	4.76E-07	5.92E-06	2.41E-06	2.85E-07	1.66E-05	8.62E-06
Chloroacetic acid	8.70E-05	2.26E-05	9.57E-06	3.31E-07	1.55E-08	2.72E-07	1.27E-07	5.38E-08	1.63E-07	6.18E-07	3.44E-07
Dibromoacetic acid	8.70E-05	7.13E-05	2.70E-05	1.04E-06	4.38E-08	2.72E-07	4.01E-07	1.52E-07	1.63E-07	1.36E-06	7.16E-07
Dichloroacetic acid	9.98E-04	1.13E-03	4.09E-04	1.65E-05	6.65E-07	3.12E-06	6.34E-06	2.30E-06	1.87E-06	2.03E-05	1.05E-05
Trichloroacetic acid	4.78E-04	2.75E-03	4.21E-04	4.02E-05	6.84E-07	1.49E-06	1.55E-05	2.37E-06	8.97E-07	4.24E-05	1.87E-05
Tetrachloroethylene	2.83E-05	2.34E-03	1.35E-03	3.42E-05	2.20E-06	8.83E-08	1.32E-05	7.61E-06	5.30E-08	3.65E-05	2.08E-05
Trichloroethylene	4.35E-05	6.13E-04	2.98E-04	8.97E-06	4.84E-07	1.36E-07	3.45E-06	1.68E-06	8.15E-08	9.59E-06	5.21E-06
2,4,6-trichlorophenol	4.35E-05	2.44E-03	3.66E-03	3.57E-05	5.95E-06	1.36E-07	1.37E-05	2.06E-05	8.15E-08	4.18E-05	3.44E-05
Hexachlorobenzene	5.43E-06	1.30E-02	1.41E-02	1.91E-04	2.29E-05	1.70E-08	7.34E-05	7.93E-05	1.02E-08	2.14E-04	1.53E-04
b-BHC	1.09E-05	1.83E-03	1.16E-03	2.67E-05	1.89E-06	3.40E-08	1.03E-05	6.54E-06	2.04E-08	2.86E-05	1.68E-05
g-BHC	1.09E-05	1.83E-03	1.04E-03	2.67E-05	1.69E-06	3.40E-08	1.03E-05	5.84E-06	2.04E-08	2.84E-05	1.61E-05

Table 2e Exposure of Contaminants of Concern by Marine Mammals (Scenario 5)

Contaminant of Concern	Conc. at edge of ZID (mg/L)	Conc. in Fish (mg/kg)	Conc. in Shellfish (mg/kg)	Dolphins			Porpoises			Dolphins	Porpoises
				Daily Exposure via Ingestion of Fish (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Daily Exposure via Ingestion of Shellfish (mg/kg-d)	Daily Exposure via Ingestion of Seawater (mg/kg-d)	Total Daily Exposure (mg/kg-d)	Total Daily Exposure (mg/kg-d)
Total Residual Chlorine	2.17E-04	-	-	-	-	6.79E-07	-	-	4.08E-07	6.79E-07	4.08E-07
Bromoform	1.07E-03	1.42E-02	7.03E-03	2.07E-04	1.14E-05	3.33E-06	7.97E-05	3.95E-05	2.00E-06	2.22E-04	1.21E-04
Dibromochloromethane	1.74E-04	1.81E-03	8.33E-04	2.65E-05	1.35E-06	5.43E-07	1.02E-05	4.69E-06	3.26E-07	2.83E-05	1.52E-05
Dibromoacetic acid	2.17E-04	1.78E-04	6.74E-05	2.61E-06	1.10E-07	6.79E-07	1.00E-06	3.79E-07	4.08E-07	3.40E-06	1.79E-06
Dichloroacetic acid	6.52E-05	7.37E-05	2.67E-05	1.08E-06	4.35E-08	2.04E-07	4.15E-07	1.50E-07	1.22E-07	1.33E-06	6.87E-07
Trichloroacetic acid	1.52E-04	8.75E-04	1.34E-04	1.28E-05	2.18E-07	4.76E-07	4.92E-06	7.53E-07	2.85E-07	1.35E-05	5.96E-06
Hexachlorobenzene	5.43E-06	1.30E-02	1.41E-02	1.91E-04	2.29E-05	1.70E-08	7.34E-05	7.93E-05	1.02E-08	2.14E-04	1.53E-04
b-BHC	1.09E-05	1.83E-03	1.16E-03	2.67E-05	1.89E-06	3.40E-08	1.03E-05	6.54E-06	2.04E-08	2.86E-05	1.68E-05
g-BHC	1.09E-05	1.83E-03	1.04E-03	2.67E-05	1.69E-06	3.40E-08	1.03E-05	5.84E-06	2.04E-08	2.84E-05	1.61E-05

Table 3a Ecological Risk to Marine Mammals due to Contaminants of Concern (Scenario 1)

Contaminant of Concern	Toxicity Reference Dose (mg/kg/d)	Total Daily Exposure (mg/kg-d) - Dolphins	Total Daily Exposure (mg/kg-d) - Porpoises	Hazard Quotient – Dolphins	Hazard Quotient – Porpoises
Total Residual Chlorine	1.875	5.90E-06	3.54E-06	3.14E-06	1.89E-06
Chloroform	3.75	1.44E-05	7.48E-06	3.84E-06	2.00E-06
Chloroacetic acid	0.1875	5.36E-07	2.99E-07	2.86E-06	1.59E-06
Dibromoacetic acid	0.025	1.18E-06	6.21E-07	4.72E-05	2.48E-05
Dichloroacetic acid	0.095	1.76E-05	9.13E-06	1.85E-04	9.61E-05
Trichloroacetic acid	0.45	3.68E-05	1.63E-05	8.18E-05	3.61E-05
Tetrachloroethylene	6.7	3.17E-05	1.81E-05	4.73E-06	2.70E-06
Trichloroethylene	13.7125	8.32E-06	4.52E-06	6.07E-07	3.29E-07
2,4,6-trichlorophenol	169.5	3.62E-05	2.99E-05	2.14E-07	1.76E-07
Hexachlorobenzene	0.3	1.85E-04	1.33E-04	6.18E-04	4.42E-04
b-BHC	0.1125	2.48E-05	1.46E-05	2.21E-04	1.30E-04
g-BHC	1	2.47E-05	1.40E-05	2.47E-05	1.40E-05
			Hazard Index	1.19E-03	7.51E-04

Table 3b Ecological Risk to Marine Mammals due to Contaminants of Concern (Scenario 2)

Contaminant of Concern	Toxicity Reference Dose (mg/kg/d)	Total Daily Exposure (mg/kg-d) - Dolphins	Total Daily Exposure (mg/kg-d) - Porpoises	Hazard Quotient – Dolphins	Hazard Quotient – Porpoises
Total Residual Chlorine	1.875	5.90E-06	3.54E-06	3.14E-06	1.89E-06
Chloroform	3.75	1.44E-05	7.48E-06	3.84E-06	2.00E-06
Chloroacetic acid	0.1875	5.36E-07	2.99E-07	2.86E-06	1.59E-06
Dibromoacetic acid	0.025	1.18E-06	6.21E-07	4.72E-05	2.48E-05
Dichloroacetic acid	0.095	1.76E-05	9.13E-06	1.85E-04	9.61E-05
Trichloroacetic acid	0.45	3.68E-05	1.63E-05	8.18E-05	3.61E-05
Tetrachloroethylene	6.7	3.17E-05	1.81E-05	4.73E-06	2.70E-06
Trichloroethylene	13.7125	8.32E-06	4.52E-06	6.07E-07	3.29E-07
2,4,6-trichlorophenol	169.5	3.62E-05	2.99E-05	2.14E-07	1.76E-07
Hexachlorobenzene	0.3	1.85E-04	1.33E-04	6.18E-04	4.42E-04
b-BHC	0.1125	2.48E-05	1.46E-05	2.21E-04	1.30E-04
g-BHC	1	2.47E-05	1.40E-05	2.47E-05	1.40E-05
			Hazard Index	1.19E-03	7.51E-04

Table 3c Ecological Risk to Marine Mammals due to Contaminants of Concern (Scenario 3)

Contaminant of Concern	Toxicity Reference Dose (mg/kg/d)	Total Daily Exposure (mg/kg-d) - Dolphins	Total Daily Exposure (mg/kg-d) - Porpoises	Hazard Quotient – Dolphins	Hazard Quotient – Porpoises
Total Residual Chlorine	1.875	6.38E-06	3.83E-06	3.40E-06	2.04E-06
Chloroform	3.75	1.56E-05	8.09E-06	4.15E-06	2.16E-06
Chloroacetic acid	0.1875	5.80E-07	3.23E-07	3.09E-06	1.72E-06
Dibromoacetic acid	0.025	1.28E-06	6.72E-07	5.10E-05	2.69E-05
Dichloroacetic acid	0.095	1.90E-05	9.87E-06	2.00E-04	1.04E-04
Trichloroacetic acid	0.45	3.98E-05	1.76E-05	8.84E-05	3.91E-05
Tetrachloroethylene	6.7	3.43E-05	1.95E-05	5.12E-06	2.92E-06
Trichloroethylene	13.7125	9.00E-06	4.89E-06	6.56E-07	3.56E-07
2,4,6-trichlorophenol	169.5	3.92E-05	3.23E-05	2.31E-07	1.91E-07
Hexachlorobenzene	0.3	2.01E-04	1.43E-04	6.69E-04	4.78E-04
b-BHC	0.1125	2.69E-05	1.58E-05	2.39E-04	1.40E-04
g-BHC	1	2.67E-05	1.51E-05	2.67E-05	1.51E-05
			Hazard Index	1.29E-03	8.13E-04

Table 3d Ecological Risk to Marine Mammals due to Contaminants of Concern (Scenario 4)

Contaminant of Concern	Toxicity Reference Dose (mg/kg/d)	Total Daily Exposure (mg/kg-d) - Dolphins	Total Daily Exposure (mg/kg-d) - Porpoises	Hazard Quotient – Dolphins	Hazard Quotient – Porpoises
Total Residual Chlorine	1.875	6.79E-06	4.08E-06	3.62E-06	2.17E-06
Chloroform	3.75	1.66E-05	8.62E-06	4.42E-06	2.30E-06
Chloroacetic acid	0.1875	6.18E-07	3.44E-07	3.30E-06	1.83E-06
Dibromoacetic acid	0.025	1.36E-06	7.16E-07	5.43E-05	2.86E-05
Dichloroacetic acid	0.095	2.03E-05	1.05E-05	2.13E-04	1.11E-04
Trichloroacetic acid	0.45	4.24E-05	1.87E-05	9.42E-05	4.16E-05
Tetrachloroethylene	6.7	3.65E-05	2.08E-05	5.45E-06	3.11E-06
Trichloroethylene	13.7125	9.59E-06	5.21E-06	6.99E-07	3.80E-07
2,4,6-trichlorophenol	169.5	4.18E-05	3.44E-05	2.46E-07	2.03E-07
Hexachlorobenzene	0.3	2.14E-04	1.53E-04	7.12E-04	5.09E-04
b-BHC	0.1125	2.86E-05	1.68E-05	2.54E-04	1.50E-04
g-BHC	1	2.84E-05	1.61E-05	2.84E-05	1.61E-05
			Hazard Index	1.37E-03	8.66E-04

Table 3e Ecological Risk to Marine Mammals due to Contaminants of Concern (Scenario 5)

Contaminant of Concern	Toxicity Reference Dose (mg/kg/d)	Total Daily Exposure (mg/kg-d) - Dolphins	Total Daily Exposure (mg/kg-d) - Porpoises	Hazard Quotient – Dolphins	Hazard Quotient – Porpoises
TRC	1.875	6.79E-07	4.08E-07	3.62E-07	2.17E-07
Bromoform	12.5	2.22E-04	1.21E-04	1.78E-05	9.70E-06
Dibromochloromethane	10	2.83E-05	1.52E-05	2.83E-06	1.52E-06
Dibromoacetic acid	0.025	3.40E-06	1.79E-06	1.36E-04	7.16E-05
Dichloroacetic acid	0.095	1.33E-06	6.87E-07	1.39E-05	7.23E-06
Trichloroacetic acid	0.45	1.35E-05	5.96E-06	3.00E-05	1.32E-05
Hexachlorobenzene	0.3	2.14E-04	1.53E-04	7.12E-04	5.09E-04
b-BHC	0.1125	2.86E-05	1.68E-05	2.54E-04	1.50E-04
g-BHC	1	2.84E-05	1.61E-05	2.84E-05	1.61E-05
			Hazard Index	1.20E-03	7.78E-04