TABLE 1: RISG IN-WATER SCREENING CRITERIA (mg/kg)¹

Ross Island Screen				······································	-9/			
Compound	toxicity 2	Regional Soil BKG ³	bioaccumulation 4	MRL	ATL or CTL ⁴ (mg/kg-wet weight)	MRL (mg/kg-wet weight)	Basis	Comments
Metals Antimony	3	4	-	1.5	-	_		Background exceeds risk-based screening levels
7 didinoriy	Ü	-		1.0				Background is the bioaccumulation screening level. If
								bioaccumulation shown to not be a concern, toxicity value could
Arsenic	6	7	(5)	1	0.0062		human (c)	
Cadmium Chromium	0.6 37	1 42	(5)	0.1	0.15	0.1	CTL	Background exceeds risk-based screening levels Background exceeds risk-based screening levels
Copper	36	36	-	1	-		-	Not bioaccumulative - screening level based on toxicity.
								Background is the bioaccumulation screening level. If
Lead	35	17	(5)	1	0.12	0.5	CTL	bioaccumulation shown to not be a concern, toxicity value could be used.
			(-)					Background is the bioaccumulation screening level. If bioaccumulation shown to not be a concern, toxicity value could
Mercury Silver	0.2 4.5	0.07	(5)	0.002 0.1	0.074	0.01	bird	be used. Not bioaccumulative - screening level based on toxicity.
Nickel	18	38	-	0.4	-	[Background exceeds risk-based screening level
Zinc	123	86	-	3	-	-		Not bioaccumulative - screening level based on toxicity.
Polychlorinated Biphenyl	s						12-1	
							bird egg developm	MRL exceeds risk-based screening level for bioaccumulation. If bioaccumulation shown to not be a concern, toxicity value
Total PCBs	0.034	NA	0.0018 *	0.01	0.035	0.00002		could be used.
Total Tobb	0.001			0.01	0.000	0.00002		
Pesticides								
							bird egg developm	
DDT total	0.007	NA	0.00029	0.001	0.013	0.002		MRL exceeds risk-based screening levels.
								Aldrin is not listed as bioaccumulative, but is an organochlorine Any detections should be carefully considered, and may prohibi
Aldrin	0.040	NA	see comment	0.001	-			in-water placement.
Chlordane	0.0045	NA	see comment	0.005	0.027	0.002	human (a)	Chlordane is not listed as bioaccumulative, but is an organochlorine. Any detections should be carefully considered, and may prohibit in-water placement.
		NA						
Dieldrin	0.003		0.000008	0.001	0.00058	0.002	human (c)	MRL exceeds risk-based screening levels.
								Heptachlor is not listed as bioaccumulative, but is an organochlorine. Any detections should be carefully considered,
Heptachlor	0.010	NA	see comment	0.001	-			and may prohibit in-water placement.
Semivolatile Organics		NA						
Acenaphthene	0.290	NA	-	0.001	-			Not bioacumulative, based on potential sediment toxicity
Acenaphthylene	0.160	NA	-	0.001	-			Based on potential sediment toxicity
Anthracene	0.057	NA	-	0.001	-			Based on potential sediment toxicity
Benzo(a)anthracene	0.032	NA NA	-	0.001	-			Based on potential sediment toxicity
Benzo(a)pyrene	0.032	NA NA	-	0.001	-			Based on potential sediment toxicity Based on potential sediment toxicity
Benzo(g,h,i)perylene	0.300	NA NA	-	0.001	-			Based on potential sediment toxicity Based on potential sediment toxicity
Benzo(k)fluoranthene	0.027	NA NA	-	0.001	-			Based on potential sediment toxicity
Bis(2-ethylhexyl)phthalate	0.750	NA NA	-	0.001	-			Based on potential sediment toxicity
Chrysene	0.057	14/7	-	0.001	-			Dasca on potential scament toxicity

TABLE 1: RISG IN-WATER SCREENING CRITERIA (mg/kg)¹

Ross Island Screer	ing Levels -	Lagoon (M	ay 2007)					
Compound	toxicity ²	Regional Soil BKG ³	bioaccumulation ⁴	MRL	ATL or CTL ⁴ (mg/kg-wet weight)		Basis	Comments
Dibenzo(a,h)anthracene	0.033	NA	-	0.001	-	,		Based on potential sediment toxicity
Dibenzofuran	5.100	NA	-		-			Based on potential sediment toxicity
								Toxicity screening criteria is lower than bioaccumulation screening
								criteria. If toxicity shown to not be a concern, bioaccumulation
Fluoranthene	0.111	NA	37	0.1	19	0.1	CTL	value could be used.
Fluorene	0.077	NA	-	0.001	-			Based on potential sediment toxicity
Indeno(1,2,3-cd)pyrene	0.017	NA	-	0.001	-			Based on potential sediment toxicity
Naphthalene	0.176	NA	-		-			Based on potential sediment toxicity
								Based on potential bioaccumulation and resulting impacts on
Pentachlorophenol	NA	NA	0.25	0.001	0.078	0.6	human (c)	people who eat fish.
Phenanthrene	0.042	NA	-	0.001	-			Based on potential sediment toxicity
Phenol	0.048	NA	-		-			Based on potential sediment toxicity
								Toxicity screening criteria is lower than bioaccumulation screening
								criteria. If toxicity shown to not be a concern, bioaccumulation
Pyrene	0.053	NA	1.9	0.1	1	0.1	CTL	value could be used.
Organotins		NA						MRL exceeds risk-based levels.
Tributyltin (sediment)	0.003	INA	0.0023	0.01	0.055	0.01	CTL	INITE EXCECUS HISK-DASEU IEVEIS.
Petroleum								
								Not bioaccumulative - screening level based on lowest upland
Petroleum hydrocarbons	80	NA	-	0.25				screening criteria.
					I	1	1	1

Shaded values are the appropriate screening level for the contaminant, unless testing indicates the associated pathway is not of concern.

- 1 All units in mg/kg -dry weight, unless otherwise specified.
- 2 All sediment toxicty values from DEQ's Ecological Risk Assessment, Level II Screening Level Values (December 2001), unless otherwise specified.
- 3 From DEQ, October 2002 memorandum to Project Managers
- 4 From DEQ's Guidance for Assessing Bioaccumulative Chemicals of Concern in Sediment (April 3, 2007), unless otherwise specified

N/A - Not Applicable - No value available.

(c) carcinogenic basis

^{*}Detection limit exceeds risk-based value & shall be used as the screening value.