



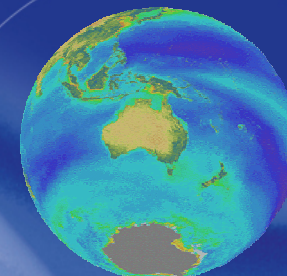
Australian Government

Australian Nuclear Science and Technology Organisation

Beaverlodge parameters used

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CR values used (fresh weight)				
RESRAD			ERICA	
Lake White Fish		notes		notes
		Default		Publ rev: IAEA, Safety Report series no 19
10	300		300	
10	500	RESRAD Default	240	ERICA default fish
26	3200	RESRAD Default (gammarus)	80	"
30	80	RESRAD Default	110	"
38	1000	RESRAD Default	30	"
White Sucker				
10	300	RESRAD Default	300	As for Lake white fish
10	500	RESRAD Default	240	"
26	3200	RESRAD Default (gammarus)	80	"
30	80	RESRAD Default	110	"
38	1000	RESRAD Default	30	"
Chironomus sp.				
10	10000	ERICA marine value for crustacean	10000	ERICA marine value for crustacean
10	9900	Similar organism (crustacean)	9900	Similar organism (crustacean)
26	1500	Similar organism (crustacean)	1500	Similar organism (crustacean)
30	100	ERICA value for crustacean	100	ERICA value for crustacean
38	500	Similar organism (crustacean)	500	Similar organism (crustacean)
Pisidium sp.				
10	1700	ERICA marine value	1700	ERICA marine value
10	38000	Bivalve (Hosseini et al.)	38000	Erica default bivalve
26	1500	Bivalve (Hosseini et al.)	150 (TYPO should be 1500)	ERICA marine value for crustacean
30	100	ERICA Ref/Default	100	Publ Reviews: EA 2003 Habitats regulations, p. 58; default R&D128 value
38	1000	(mollusc) DOE-STD- 1153 Mod 3	180	Publ Reviews: EA 2003 Habitats regulations, p. 58; default R&D128 value

Beaverlodge Scenario
Initial input
RESRAD-Biota (MJ)
ERICA (JT)

	Kd Values (Defaults) (L kg ⁻¹ for dw sed)		
	RESRAD	ERICA	Sed/water ratios from Beaverlodge data
Pb210	20000	100000	165000
Po210	30	20000000	339000
Ra226	70	15200	36000
Th230	60000	18400000	278000
U-238	50	50	21000
	RESRAD	ERICA	
	Deterministic - used mean, min, max on water/sed concentrations	Probabilistic - used lognormal distribution on water/sed concentrations	

Beaverlodge Scenario
Initial input
RESRAD-Biota (MJ)
ERICA (JT)

