Lake George-Lake Louise Sediment Assessment Report
Sediment Impact Matrix

Sediment Core Location	Guideline					Notes:
	Aquatic Life Toxicity*			Human Health Effects		
Lake George	WDNR CBSQG-TEC	WDNR CBSQG-MEC	WDNR CBSQG-PEC	EPA RSL (Residential)	EPA RSL (Industrial)	
LG-C1				As, PAH (1)		
LG-C2	PAH (1)			As, PAH (1)		
LG-C3	PAH (1)			As, PAH (1)		
LG-F1A				As, Cr^{6}, PAH (1)		
LG-F1B	Hg			As, PAH (1)	As	
LG-F2A	Total PCBs, PAH (2)			As, PAH (2)		
LG-F2B	Pb, PAH (1)			As, Cr^{6}, PAH (1)	As	
LG-F3A				As, PAH (1)		
LG-F3B	Hg			As, Cr^{6}		

Lake George Notes: No analysis of Organochlorine Pesticides or Chlorinated Herbicides in Lake George

Lake Louise						
LL-C1	Cd		As	As	As	As concentration (35.4 mg/kg) greatly exceeds EPA RSLs
LL-C2		4,4'-DDD	Lindane	As, PAH (1)	As	
LL-C3	PAH (9)	PAH (2)		As, PAH (3)	As, PAH (1)	
LL-F1A	PAH (1)			As, PAH (2)		
LL-F1B	Hg, Ni			As	As	
LL-F2A	PAH (1)	PAH (1)	PAH (4)	As		
LL-F2B				PAH (1)		
LL-F3A	Hg, Ni			As, Cr^{6}	As	
LL-F3B	Hg			As, Cr^{6}	As	

Lake Louise Notes: Organochlorine Pesticides and Chlorinated Herbicides only analyzed at LL-C2

General Notes:

WDNR CBSQG-TEC =	Threshold effect concentration (Level of Concern = 2)
WDNR CBSQG-MEC =	Midpoint effect concentration (Level of Concern = 3)
WDNR CBSQG-PEC =	Probable effect concentration (Level of Concern = 4)

WDNR. 2003. Consensus-Based Sediment Quality Guidelines: Recommendations for Use and Application.35 p.

*Toxicity does occur at contaminant concentrations between the TEC and PEC values with the amount of toxicity dependent on the particular contaminant and with the incidence of toxicity greater than that which occurs at the TEC concentration but less than that which occurs at the PEC concentration (MacDonald *et al.* 2000).

EPA RSL (Residential) =	Human health risk exposure, based on ingestion or inhalation (residential sites)
EPA RSL (Industrial) =	Human health risk exposure, based on ingestion or inhalation (industrial sites)