

Table A2-2

ERC Summary of Benthic Macroinvertebrate Endpoints and Weight of Evidence for Aquatic and Wetland Habitats Present

Fireworks Site

Weight of Evidence	Assessment Endpoint	Habitat		
		Riverine	Pond	Wetland
1	4.1.5 Benthic Macroinvertebrate Communities Assessment			
	Decreased Diversity	ECCTRA12*, LDCTRA11, LDCTRA10	LUFPTRA10, MLFPTRA10	MUA21
	Structural Changes	All	All	All
	Functional Changes	--	--	--
2	4.1.6 Sediment Toxicity Testing			
	Significant Effect on Amphipod Toxicity Test:			
	Survival	--	--	--
	Growth	--	MFLPTRA11	--
	Significant Effect on Midge Toxicity Test:			
	Survival	--	--	--
	Growth	--	--	MUA21
	Significant Effect on Aquatic Earthworm Toxicity Test:			
	Survival	--	--	--
3	4.1.2 Assessment of the Bioavailability and Toxic Potential of Soluble Extractable Metals Present in the Sediments			
	Toxic Potential	--	--	--
	Bioavailability	ECCTRA11	MLFPTRA11	--
3	4.1.3 Comparison of Sediment Pore-water Total Mercury and Methyl Mercury Concentrations to Surface Water Threshold Values			
	[Hg and MeHg] Exceedance of Pore-water Threshold Values	All	All	All
3	4.1.4 Bioaccumulation Evaluation for <i>Lumbriculus variegatus</i>			
	[Hg and MeHg] Exceeded Reference Station Concentrations	All	All	All
4	4.1.1 Reference Station and Sediment Benchmark Comparison			
	Total Mercury:			
	Exceedance of High SQG	All	All	All
	Exceedance of Background	All except ECCTRA12	All	All
	Methyl Mercury			
	Exceedance of High SQG	--	--	--
	Exceedance of Background	All except ECCTRA12	All	All

Notes:

-- No effect or exceedance observed