Marlette Lake Dam Resilient Infrastructure Project Estimate of Pre-Mitigation Costs of the Dam Fails - Additional Facilities

Item	Damage	Calculation	Estir	mated Cost
		Based on actual costs for a 2018 erosion control project along this section of road. Total project		
		construction cost was \$1,039,000. Cost per linear foot was determined and that cost was applied		
1	Cost to Repair Damage to Existing Erosion Control Improvements	to a potential length of damaged area of approximately 2,400 LF	\$	84,000.00
		Based on IVGID Capital Projects Budget for export line replacement. Total estimated replacement		
		cost of \$10,000,000 was used to determine a price per linear foot and that cost was applied to the		
2	Cost to Repair Damage to Sanitary Sewer Export Line	potential length of damaged pipe of 2,400 LF	\$	757,000.00
3	Cost to Repair Damage to 2400 LF of SR 28	See attached spreadsheet	\$	3,696,247.00
4	Cost to Repair Dam in the Event of a Dam Breach	See attached spreadsheet	\$	16,516,555.00
		It is difficult to put a cost on the loss of clarity to Lake Tahoe. A 2006 report on the Lake Tahoe		
		TMDL estimated that 199.2 tonnes/yr (219.6 tons/yr) enter Lake Tahoe from normal streambank		
		erosion along Marlette Creek. It is feasible that a dam breach event with a large volume of water		
		moving at a high velocity down Marlette Creek could result in the annual sediment load being		
5	Cost of loss of clarity in Lake Tahoe due to release of sediment	deposited in this one event.	Unknown	



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