

Alaska Energy Authority
Estimated cost comparison from March 2009 report
vs November 2010 Preliminary Decision Document

March 2009 was an Interim Report. Costs are conceptual.

Roller Compact Concrete and Concrete faced Rockfill dams may be lower cost than embankment design.

\$8.4B number in March 2009 was for the 885` high Watana Dam. The \$4.5 or \$4.9 (expandable) numbers are for 700` high.

	Low Watana Expand (Mar 2009) (\$000)	Low Watana Expand (Nov 2009) (\$000)	Difference (\$000)		Low Watana Non Expand (Nov 2009) (\$000)
Land and Land Rights	121,000	121,000	\$ -		\$ 121,000
Power Plant Structure Improvements	159,000	159,000	\$ -		\$ 115,000
Reservoir, Dams and tunnels	2,449,800	1,718,000	\$ (731,800)	Nov used separate cost line for waterways.	\$ 1,537,690
Waterways	-	677,000	\$ 677,000	March has Waterways in with dam.	\$ 590,000
Waterwheel, Turbines and Generators	324,700	297,000	\$ (27,700)	Mar was an avg from quotes	\$ 297,000
Accessory Electrical Equipment	38,900	41,000	\$ 2,100		\$ 41,000
Misc Power Plant Equipment	28,500	32,000	\$ 3,500		\$ 21,000
				Removed road and bridge Devil Canyon to Watana that should	
Roads, Rails and Air Facilities	599,300	232,000	\$ (367,300)	not be in calc	\$ 232,000
				Removed trans upgrades along intertie and substation work in	
Transmission	648,374	224,000	\$ (424,374)	Anch/Fair. Need to invest req upgrades more.	\$ 224,000
Misc Equipment	9,200	16,000	\$ 6,800		\$ 16,000
				Nov est based on smaller workforce & camp const vendor	
Construction Camp	609,100	180,000	\$ (429,100)	feedback	\$ 180,000
				Ext hard to place a dollar on this. Left over from 1980's.	
Mitigation	200,000		\$ (200,000)	Mitigation is in EE&CM in Nov Rpt	
	<u>\$ 4,987,874</u>	<u>\$ 3,697,000</u>	<u>\$ (1,290,874)</u>		<u>\$ 3,374,690</u>
Contengency (20%)	<u>\$ 997,575</u>	<u>\$ 739,400</u>	<u>\$ (258,175)</u>		<u>\$ 674,938</u>
Subtotal	<u>\$ 5,985,449</u>	<u>\$ 4,436,400</u>	<u>\$ (1,549,049)</u>		<u>\$ 4,049,628</u>
Engineering, Environmental, Const Management	\$ 371,000	\$ 407,000	\$ 36,000		\$ 371,000
Contengency (20%)	<u>\$ 74,200</u>	<u>\$ 81,400</u>	<u>\$ 7,200</u>		<u>\$ 74,200</u>
Subtotal	<u>\$ 6,430,649</u>	<u>\$ 4,924,800</u>	<u>\$ (1,505,849)</u>		<u>\$ 4,494,828</u>