TRAVERSE ENGINEERING SERVICES, P.C.
100 Quincy Street. P.O. Box 655
HANCOCK, MICHIGAN 49930

ENGINEERS ESTIMATE

Date of Estimate June 14, 2008

LOCATION: Eagle Harbor Township, Keweenaw County

TYPE OF WORK: Water System Improvements

ADMINISTRATION

Bond Counsel	$ 35,000.00
Legal	$ 10,000.00
Legal Advertising	$ 3,000.00
Bid Advertising	$ 2,000.00
Treasury Costs	$ 5,000.00
Land Title Insurance	$ 2,000.00
SUBTOTAL	$ 57,000.00

ENGINEERING SERVICES

Preliminary Engineering			$ 6,000.00
Engineering - Design & Contract Administration			$ 126,000.00
Additional Engineering Services			
	Staking	$ 4,000.00	
	Survey/Easements	$ 15,000.00	
	Soil Borings	$ 9,000.00	
	O & M Manual	$ 4,000.00	
	Testing/Control	$ 3,000.00	
	As-built Drawings	$ 4,000.00	
	Subtotal Additional Engineering		$ 39,000.00
Construction Review			$ 150,000.00
		SUBTOTAL	$ 321,000.00

GROUND LEVEL RESERVOIR

Clearing and Grubbing	$ 15,000.00
Excavation and Backfill	$ 30,000.00
120,000 Gal. Reservoir	$ 230,000.00
Tank Piping	$ 20,000.00
Electrical and Controls	$ 70,000.00
SUBTOTAL	$ 365,000.00

WATER MAIN & APPURTENANCES

8" D.I. Water Main	15,680 LFT	@	$ 35.00	$ 548,800.00
12" D.I. Water Main	4000 LFT	@	$ 40.00	$ 160,000.00
8" Gate Valve & Well	50 EA	@	$ 4,000.00	$ 200,000.00
12" Gate Valve & Well	4 EA	@	$ 5,000.00	$ 20,000.00
Service Connections	130 EA	@	$ 1,500.00	$ 195,000.00
River Crossing	3 EA	@	$ 15,000.00	$ 45,000.00
Hydrants	23 EA	@	$ 2,500.00	$ 57,500.00
Silt Fence	500 LFT	@	$ 2.00	$ 1,000.00
Project Sign	1 EA	@	$ 1,000.00	$ 1,000.00
Restoration	1 LS	@	$ 290,000.00	$ 290,000.00
Rock Excavation	5600 CYD	@	$ 50.00	$ 280,000.00
Clearing and Grubbing	1 LS	@	$ 25,000.00	$ 25,000.00
			SUBTOTAL	$ 1,823,300.00

PROJECT COST SUMMARY

ADMINISTRATION	$ 57,000.00
ENGINEERING SERVICES	$ 321,000.00
CONSTRUCTION	$ 2,188,300.00
CONSTRUCTION CONTINGENCIES	$ 333,700.00
TOTAL PROJECT COST	$ 2,900,000.00