

ATTACHMENT H

OPINION OF COSTS

**SOUTH MIDDLETON TOWNSHIP MUNICIPAL AUTHORITY
CUMBERLAND COUNTY, PENNSYLVANIA**

**WASTEWATER TREATMENT PLANT
UPDATE AND EXPANSION**

OPINION OF CONSTRUCTION COSTS

JUNE 2010

PHASE I – HEADWORKS, BIOSOLIDS & RELATED WORK			
	Equipment	Construction	Annual Estimated Energy
ITEM A			
HEADWORKS UPGRADE			
1) Course Screening	\$140,000	\$200,000	\$1,800
2) Pump Station	200,000	250,000	*
3) Fine Screening	150,000	200,000	2,100
4) Grit Removal	280,000	250,000	550
5) Plant Water System	80,000	20,000	5,000
Subtotal	\$850,000	\$920,000	\$9,450
ITEM B			
HIGH FLOW EQUALIZATION TANK			
	\$200,000	\$200,000	*
ITEM D			
CLARIFIER			
	\$240,000	\$280,000	\$800
ITEM E			
FILTERS			
	\$500,000	\$300,000	\$1,350
ITEM F			
UV SYSTEM			
	\$150,000	\$215,000	*
ITEM G			
DIGESTERS			
	\$100,000	\$400,000	*
ITEM H			
BIOSOLIDS PROCESSING/BUILDING			
1) Waste Dewatering	\$200,000	\$285,000	*
2) Biosolids Thickening	350,000	285,000	*
Subtotal	\$550,000	\$570,000	
RELATED WORK			
1) Site Work	\$175,000	\$550,000	\$0
2) Electrical (New & Upgrade)	250,000	425,000	0
3) Instrumentation/Controls	165,000	75,000	0
TOTAL PHASE 1 CONSTRUCTION COSTS	\$3,180,000	\$3,935,000	

*TBD

PHASE 2 – TREATMENT PROCESS TANKS & EQUIPMENT			
	Equipment	Construction	Annual Estimated Energy
ITEM C			
IFAS/MBBR	\$1,025,000	\$1,200,000	\$85,000
RELATED WORK			
1) Site Work	\$75,000	\$120,000	\$0
2) Electrical	50,000	75,000	0
TOTAL PHASE 2 CONSTRUCTION COSTS	\$1,150,000	\$1,395,000	\$85,000
TOTAL PHASES 1 & 2	\$4,330,000	\$5,330,000	
TOTAL PHASES 1 & 2 EQUIPMENT & CONSTRUCTION: \$ 9,660,000			
Total Civil Engineering Costs		550,000	
Total SCADA Costs		300,000	
Total Electrical Engineering Costs		100,000	
Construction Phase Engineering Costs		440,000	
Project Inspection Costs		360,000	
		\$11,410,000	
Construction Contingency (10%)		1,141,000	
TOTAL OPINION OF COSTS		\$12,551,000	

GLACE ASSOCIATES, INC.

CONSULTING ENGINEERS
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**SOUTH MIDDLETON TOWNSHIP MUNICIPAL AUTHORITY
EBNR WASTEWATER TREATMENT FACILITY PROJECT
APPLICATION #8009757**

TYPE OF FINANCIAL ASSISTANCE	H2OPA WSSW	LOCAL
ACQUISITION	\$0.00	\$0.00
Land	\$0.00	\$0.00
Buildings	\$0.00	\$0.00
GENERAL CONSTRUCTION	\$3,700,000.00	\$800,000.00
New Construction	\$3,100,000.00	\$400,000.00
Renovations	\$600,000.00	\$400,000.00
INFRASTRUCTURE/SITE PREPARATION	\$630,000.00	\$200,000.00
Roads & Streets	\$0.00	\$0.00
Parking	\$0.00	\$20,000.00
Water/Sewer	\$200,000.00	\$0.00
Utilities	\$300,000.00	\$80,000.00
Demolition	\$0.00	\$0.00
Excavating/Grading	\$130,000.00	\$100,000.00
Environmental Cleanup	\$0.00	\$0.00
MACHINERY & EQUIPMENT	\$3,480,000.00	\$850,000.00
New Equipment Purchase	\$3,480,000.00	\$850,000.00
Used Equipment Purchase	\$0.00	\$0.00
Upgrade Existing	\$0.00	\$0.00
Installation/Building Modifications	\$0.00	\$0.00
Vehicles	\$0.00	\$0.00
OPERATING COSTS/WORKING CAPITAL	\$0.00	\$0.00
Working Capital	\$0.00	\$0.00
Salaries & Fringe Benefits	\$0.00	\$0.00
Training & Technical Assistance	\$0.00	\$0.00
Consumable Supplies	\$0.00	\$0.00
Travel	\$0.00	\$0.00
Promotion/Public Relations/Advertising	\$0.00	\$0.00
Office Equipment	\$0.00	\$0.00
Space Costs	\$0.00	\$0.00
Audit	\$0.00	\$0.00
Indirect Costs	\$0.00	\$0.00
RELATED COSTS	\$490,000.00	\$2,401,000.00
Professional Services/Consultants	\$0.00	\$0.00
Engineering	\$390,000.00	\$940,000.00
Inspections	\$100,000.00	\$260,000.00
Fees	\$0.00	\$0.00
Insurance	\$0.00	\$0.00
Environmental Assessment	\$0.00	\$0.00
Legal Costs	\$0.00	\$40,000.00
Closing Costs	\$0.00	\$20,000.00
Contingencies	\$0.00	\$1,141,000.00
FUNDING REQUESTED	\$8,300,000.00	\$4,251,000.00
TOTAL PROJECT COST	\$12,551,000.00	