

## Tighe Bond Engineering Proposal 6-1-18

Task	Budget, dollars
<b>Biofilter Investigation</b>	
Review Historic Data	\$ 3,000.00
Contact Other Water Treatment Facilities	\$ 2,000.00
Assess Fouling	\$ 5,000.00
Characterize Biofilter	\$ 5,000.00
Evaluate Chemical Addition	\$ 25,000.00
Summarry Memorandum	\$ 12,000.00
<b>Task Total</b>	<b>\$ 52,000.00</b>
<b>Ozone and UV Evaluation</b>	
Data Review	\$ 3,000.00
Ozone Disinfection	\$ 10,000.00
UV Upgrades	\$ 15,000.00
Coordination with NYSDOH	\$ 4,000.00
Summarry Memorandum and Review Meeting	\$ 13,000.00
<b>Task Total</b>	<b>\$ 45,000.00</b>
<b>Hydraulics Evaluation</b>	
Data Review	\$ 4,100.00
Hydraulic Evaluation	\$ 11,000.00
Summarry Memorandum and Review Meeting	\$ 10,000.00
<b>Task Total</b>	<b>\$ 25,100.00</b>
<b>Miscellaneous Tasks as needed</b>	
Attend Board Meetings (\$235/meeting)	
<b>Budget Allocation</b>	<b>\$ 15,000.00</b>
<b>TOTAL PROPOSAL</b>	<b>\$ 137,100.00</b>
<b>Atlantium Pilot Test Proposal</b>	
Replace 1 unit (does not include piping or UPS)	\$ 72,000.00
Estimated cost to replace inkind	\$ 612,000.00
Installation Cost	\$ 175,000.00
UPS System	\$ 250,000.00
Subtotal	\$ 1,037,000.00
Contingency (25%)	\$ 259,250.00
<b>Budget Estimate</b>	<b>\$ 1,296,250.00</b>

Elimination of UV can save \$200,000/year

Utilizing Ozone for disinfection will require reliability improvements

\$250,000?