

## **Appendix 8**

### **Cost Estimate**

**Design, Construction, and Permitting Cost Estimate**  
**Mad River adjacent to St. Peter's Church, Farmington, NH**  
 prepared by: Headwaters Hydrology, PLLC  
 Nov-09

<u>ITEM</u>	<u>UNITS</u>	<u>NO. UNITS</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
<b>Construction Costs</b>				
Removal of Water Main and Concrete	LS	1	\$3,000.00	\$3,000.00
Sawcut Pavement	LF	200	\$3.00	\$600.00
Bankfull Bench Excavation	CY	600	\$10.00	\$6,000.00
Import/Placement of Riverbed Material	CY	200	\$25.00	\$5,000.00
Cross-Vanes	CY	120	\$120.00	\$14,400.00
Containerized Shrubs/Trees	EA	110	\$20.00	\$2,200.00
Humus	CY	50	\$20.00	\$1,000.00
Seed & Limestone	SY	430	\$0.50	\$215.00
Erosion Control Blankets	SY	430	\$2.50	\$1,075.00
Turf Reinforcement Mat	SY	40	\$12.00	\$480.00
Asphalt Curb	LF	200	\$10.00	\$2,000.00
Misc. Erosion Control	LS	1	\$2,000.00	\$2,000.00
Mobilization (10%)	LS	1	\$3,797.00	\$3,797.00
			Construction Costs Subtotal	\$41,767.00
			Contingency (15%)	\$6,265.05
			Estimated Construction Costs	\$48,032.05
<b>Design, Permitting, and Construction Services</b>				
Final Design	LS	1	\$15,000.00	\$15,000.00
NHDES Wetland Permit Application	LS	1	\$4,000.00	\$4,000.00
Bid and Contract Documents	LS	1	\$4,000.00	\$4,000.00
Construction Supervision	LS	1	\$4,000.00	\$4,000.00
			Design, Permitting, and Construction Services Subtotal	\$27,000.00
			Estimated Total Project Cost	\$75,032.05
			<b>ROUNDED ESTIMATED TOTAL PROJECT COST</b>	<b>\$75,000.00</b>

Notes:

1. Headwaters Hydrology, PLLC has no control over labor, materials, and construction costs and therefore cannot, and does not, warrant that actual construction costs will not vary from the estimates presented herein.
2. Wetland permitting costs assume the project would be permitted as a minimum impact project with a \$200 application fee and that an archaeological assessment or other special studies will not be required.