

**BIORETENTION DEVICE
COST ESTIMATE WORKSHEET
2005 Prices**

Project Title _____
 Owner _____
 Location _____
 Project Number _____
 Date _____

Description	Units	Quantity	Unit Cost	Total Estimated Price
Site Preparation				
Tree removal - up to 12" diameter	each	.....	\$350.00	\$0.00
Clear and grub brush	square yard	.....	\$1.50	\$0.00
Tree protection - temp. fence	lineal foot	.....	\$3.00	\$0.00
Topsoil - salvage	square yard	.....	\$4.50	\$0.00
Site Formation				
Excavation - 4' average depth	square yard	.....	\$10.00	\$0.00
Grading	square yard	.....	\$1.50	\$0.00
Hauling off-site	square yard	.....	\$6.50	\$0.00
Structural Components				
Underdrain - with pea gravel and geotextile	lineal foot	.....	\$30.00	\$0.00
Inlet structure	each	.....	\$1,500.00	\$0.00
Outlet structure	each	.....	\$2,500.00	\$0.00
Site Restoration				
Filter strip	square yard	.....		\$0.00
Soil preparation	square yard	.....	\$30.00	\$0.00
Seeding - above outlet elevation	square yard	.....	\$0.50	\$0.00
Planting - below outlet elevation	square yard	.....	\$30.00	\$0.00
Mulch	square yard	.....	\$5.00	\$0.00
Subtotal				\$0.00
10% Contingencies				\$0.00
Subtotal				\$0.00
Apply MN Location Factor				
TOTAL CONSTRUCTION COST				\$0.00

Annual Operation and Maintenance				
Debris removal	per visit	.....	\$50.00	\$0.00
Weed control	per visit	.....	\$50.00	\$0.00
Sediment removal	per year	.....	\$500.00	\$0.00
Replace planting media	square yard	.....	\$12.00	\$0.00
Replace plants	per plant	.....	\$5.00	\$0.00
Mow filter strips	per visit	.....	\$50.00	\$0.00
Erosion repair	square yard	.....	\$75.00	\$0.00
Inspection	per visit	.....	\$125.00	\$0.00
Subtotal				\$0.00
Apply MN Location Factor				
TOTAL ANNUAL O&M COST				\$0.00

Minnesota Location Factors	
Bemidji	0.963
Brainerd	1.003
Detroit Lakes	0.962
Duluth	0.991
Mankato	0.990
Minneapolis	1.035
Rochester	0.983
St. Paul	1.000
St. Cloud	1.002
Thief River Falls	1.042
Willmar	0.961
Windom	0.935

Note: Suggested unit costs are based on RSMean prices for Spring, 2005, then factored into an area basis based on typical design features for Bioretention BMPs. To be used for preliminary cost estimation.