

COLLINS PINE COMPANY
FLOW MONITORING IMPROVEMENT PROJECT
Alternative Compliance Project Cost Estimates - Rev 1

Item	Item			Cost		Total Cost (\$)
		Qty	Unit	Unit (\$)	Total (\$)	
FLOW MONITORING IMPROVEMENTS						
1.0	Diversion S000698					
1.1	Mobilization	1	LS	\$2,000	\$2,000	\$2,000
1.2	Structure for housing instrumentation	1	LS	\$8,000	\$8,000	\$8,000
1.3	Instrumentation	1	LS	\$7,500	\$7,500	\$7,500
1.4	Development of rating curve for natural stream channel	1	LS	\$8,000	\$8,000	\$8,000
1.5	Final grading	1	LS	\$1,000	\$1,000	\$1,000
1.6	Environmental remediation	2	LS	\$2,500	\$5,000	\$5,000
1.7	Construction management and inspection costs	1	LS	\$5,000	\$5,000	\$5,000
1.8	Certification	1	LS	\$3,000	\$3,000	\$3,000
Construction Contingency @15 %						\$5,900
Subtotal for Construction Cost						\$45,400
Engineering Consultant Fee						\$9,100
Permitting						\$5,000
Total Project Cost						\$59,500
Biannual update of rating curve and estimate of annual maintenance						\$8,000
2.0	Diversion S000697					
2.1	Mobilization	1	LS	\$2,000	\$2,000	\$2,000
2.2	Concrete manhole with 36-inch formed flow channel	1	LS	\$6,000	\$6,000	\$6,000
2.3	Area velocity sensor, data logger, and appurtenances	1	LS	\$7,500	\$7,500	\$7,500
2.4	Excavation, shoring, and backfill	1	LS	\$8,000	\$8,000	\$8,000
2.5	Removable bollards	6	EA	\$500	\$3,000	\$3,000
2.6	Set and install manhole	1	EA	\$5,000	\$5,000	\$5,000
2.7	Final grading	1	LS	\$1,000	\$1,000	\$1,000
2.8	Construction management and inspection costs	1	LS	\$5,000	\$5,000	\$5,000
2.9	Certification	1	LS	\$3,000	\$3,000	\$3,000
Construction Contingency @15 %						\$6,100
Subtotal for Construction Cost						\$46,600
Engineering Consultant Fee						\$9,320
Permitting						\$3,000
Total Project Cost						\$65,020
Estimate of Annual Maintenance						\$2,000
3.0	Diversion - Stover Ditch Head Gate					
3.1	Mobilization	1	LS	\$2,000	\$2,000	\$2,000
3.2	Concrete manhole with 24-inch formed flow channel	1	LS	\$4,000	\$4,000	\$4,000
3.3	Area velocity sensor, data logger, and appurtenances	1	LS	\$7,500	\$7,500	\$7,500
3.4	Removable bollards	6	EA	\$500	\$3,000	\$3,000
3.5	Install manhole	1	EA	\$8,000	\$8,000	\$8,000
3.6	Final grading	1	LS	\$1,000	\$1,000	\$1,000
3.7	Construction management and inspection costs	1	LS	\$5,000	\$5,000	\$5,000
3.8	Certification	1	LS	\$3,000	\$3,000	\$3,000
Construction Contingency @15 %						\$5,000
Subtotal for Construction Cost						\$38,500
Engineering Consultant Fee						\$7,700
Permitting						\$3,000
Total Project Cost						\$54,200
Estimate of Annual Maintenance						\$2,000