

Alternative 3	Description	Units	Unit Cost	Low Input/Output		Moderate Input/Output		High Input/Output	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
Mixed Riparian Woodland									
Mining Excavation		cubic yard	\$0.55	10,304,300.00	\$5,667,365.00	10,304,300.00	\$5,667,365.00	10,304,300.00	\$5,667,365.00
Mobilization	Cost split evenly between all habitat types.	L.S.	\$5,000.00	1.00	\$5,000.00	1.00	\$5,000.00	1.00	\$5,000.00
Planting									
Cuttings	Collect and install 36" long pole cuttings	Each	\$15.00	11,040.00	\$165,600.00				
Seeding	Seed cover crop	acre	\$1,000.00			101.38	\$101,380.00	101.38	\$101,380.00
Seedlings									
Deepot	Use for shrubs	Each	\$22.00			44,161.00	\$971,542.00	22,080.00	\$485,760.00
1-Gallon Container	Use for trees	Each	\$30.00					22,080.00	\$662,400.00
Plant Protection	Use plastic tree shelter, one per plant.	Each	\$1.50					44,160.00	\$66,240.00
Irrigation									
Irrigation Pump	Cost split evenly between all irrigated areas.	L.S.	\$7,500.00	1.00	\$7,500.00	1.00	\$7,500.00	1.00	\$7,500.00
Overhead Spray*	Use 6" rigid aluminum main line from pump to irrigated areas, 3" rigid aluminum lateral line, 27 impacts spray heads per acre, and 5 foot fixed riser assemblies with steel stakes.	acre	\$3,000.00	2.44	\$7,320.00	2.44	\$7,320.00	2.44	\$7,320.00
First Year	Includes maintenance for lines, spray heads, and portion of pump maintenance.	acre	\$200.00			2.44	\$488.00	2.44	\$488.00
Second Year	Includes maintenance for lines, spray heads, and portion of pump maintenance.	acre	\$200.00			2.44	\$488.00	2.44	\$488.00
Third Year	Includes maintenance for lines, spray heads, and portion of pump maintenance.	acre	\$200.00					2.44	\$488.00
Fourth Year	Includes maintenance for lines, spray heads, and portion of pump maintenance.	acre	\$200.00					2.44	\$488.00
Fifth Year	Includes maintenance for lines, spray heads, and portion of pump maintenance.	acre	\$200.00					2.44	\$488.00
Drip*	Use 2" PVC as main line from pump to irrigated areas, 1 1/4" PVC lateral line, pressure reducing drip assemblies, 1/2" polyethylene pipe, and an average of 2-1 gph emitters/plant								
Low		acre	\$2,477.00	98.94	\$245,074.38				
Moderate		acre	\$7,547.00			98.94	\$746,700.18		
High		acre	\$7,547.00					98.94	\$746,700.18
First Year	Includes maintenance for valves, lines, emitters, and portion of pump maintenance	acre	\$1,000.00	98.94	\$98,940.00	98.94	\$98,940.00	98.94	\$98,940.00
Second Year	Includes maintenance for valves, lines, emitters, and portion of pump maintenance	acre	\$1,000.00	98.94	\$98,940.00	98.94	\$98,940.00	98.94	\$98,940.00
Third Year	Includes maintenance for valves, lines, emitters, and portion of pump maintenance	acre	\$1,000.00					98.94	\$98,940.00
Fourth Year	Includes maintenance for valves, lines, emitters, and portion of pump maintenance	acre	\$1,000.00					98.94	\$98,940.00
Fifth Year	Includes maintenance for valves, lines, emitters, and portion of pump maintenance	acre	\$1,000.00					98.94	\$98,940.00
Maintenance									
Post-Installation Weeding	Spot spray problem weeds with herbicide	acre	\$50.00			101.38	\$5,069.00	101.38	\$5,069.00
Long-Term Weeding									
First Year	Spot spray problem weeds with herbicide	acre	\$25.00			101.38	\$2,534.50	101.38	\$2,534.50
Second Year	Spot spray problem weeds with herbicide	acre	\$25.00			101.38	\$2,534.50	101.38	\$2,534.50
Woody Non-Native Plant Control									
First Year	Remove with hand tools	acre	\$100.00			101.38	\$10,138.00	101.38	\$10,138.00
Second Year	Remove with hand tools	acre	\$100.00			101.38	\$10,138.00	101.38	\$10,138.00
Third Year	Remove with hand tools	acre	\$100.00			101.38	\$10,138.00	101.38	\$10,138.00
Fourth Year	Remove with hand tools	acre	\$100.00			101.38	\$10,138.00	101.38	\$10,138.00
Fifth Year	Remove with hand tools	acre	\$100.00			101.38	\$10,138.00	101.38	\$10,138.00
Total					\$6,295,739.38		\$7,766,491.18		\$8,307,633.18

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				Quantity	Cost	Quantity	Cost	Quantity	Cost
First Year	Spot spray problem weeds with herbicide	acre	\$25.00			10.42	\$260.50	10.42	\$260.50
Second Year	Spot spray problem weeds with herbicide	acre	\$25.00			10.42	\$260.50	10.42	\$260.50
Third Year	Spot spray problem weeds with herbicide	acre	\$25.00					10.42	\$260.50
Fourth Year	Spot spray problem weeds with herbicide	acre	\$25.00					10.42	\$260.50
Fifth Year	Spot spray problem weeds with herbicide	acre	\$25.00					10.42	\$260.50
Total							\$36,470.00		\$39,231.30
Permanent Marsh									
Mining Excavation		cubic yard	\$0.55	419,600.00	\$230,780.00	419,600.00	\$230,780.00	419,600.00	\$230,780.00
Mobilization	Cost split evenly between all habitat types.	L.S.	\$5,000.00	1.00	\$5,000.00	1.00	\$5,000.00	1.00	\$5,000.00
Grading									
Backwater Slough	Excavate 10' average depth	cubic yard	\$5.00	19,480.00	\$97,400.00	19,480.00	\$97,400.00	19,480.00	\$97,400.00
Planting									
Plugs	Plant in 50% of total area.	each	\$12.00			1,481.00	\$17,772.00	4,114.00	\$49,368.00
Maintenance									
Long-Term Weeding									
First Year	Spot spray problem weeds with herbicide; assumes half of area is open water	acre	\$25.00					0.85	\$21.25
Second Year	Spot spray problem weeds with herbicide; assumes half of area is open water	acre	\$25.00					0.85	\$21.25
Total					\$333,180.00		\$350,952.00		\$382,590.50
Seasonal Wetland									
Mining Excavation		cubic yard	\$0.55	2,432,500.00	\$1,337,875.00	2,432,500.00	\$1,337,875.00	2,432,500.00	\$1,337,875.00
Mobilization	Cost split evenly between all habitat types.	L.S.	\$5,000.00	1.00	\$5,000.00	1.00	\$5,000.00	1.00	\$5,000.00
Grading	Includes rough and finish grading	acre	\$15,000.00	2.30	\$34,500.00	2.30	\$34,500.00	2.30	\$34,500.00
Planting									
Site-Prep	Pre-treat with herbicide and disc planting areas twice before planting (spring, summer)	acre	\$215.00	2.30	\$494.50	2.30	\$494.50	2.30	\$494.50
Seeding	Broadcast spread wetland seed mix	acre	\$3,000.00			2.30	\$6,900.00	2.30	\$6,900.00
Plugs		each	\$12.00					11,132.00	\$133,584.00
Maintenance									
Long-Term Weeding									
First Year	Spot spray problem weeds with herbicide	acre	\$25.00					2.30	\$57.50
Second Year	Spot spray problem weeds with herbicide	acre	\$25.00					2.30	\$57.50
Reseeding	Broadcast spread native perennial mix; assumes 20% of area will need reseeding	acre	\$3,000.00			0.46	\$1,380.00	0.46	\$1,380.00
Total					\$1,377,869.50		\$1,386,149.50		\$1,519,848.50
Grand Total with Mining					\$8,255,684.68		\$9,869,503.46		\$10,629,340.26
Grand Total without Mining					\$880,014.68		\$2,493,833.46		\$3,253,670.26

Notes:

* Cost for mainline pipe has been equally divided and incorporated into each habitat type requiring irrigation.

gph = gallons per hour.
 L.S. = lump sum.
 PVC = polyvinyl chloride.