

Attachment 4

Preliminary Cost Estimates



Reach 4B Project Preliminary Alternative Costs

	Alternative 1			Alternative 2 ¹	Alternative 3 ¹
	B	C	D	A	A
Sand Slough Control Structure	\$ 1,653,290	\$ 1,653,290	\$ 1,653,290	\$ 210,030	\$ 830,170
Sand Slough Cofferdam	\$ 475,820	\$ 475,820	\$ 475,820	\$ 475,820	\$ 475,820
El Nido Road Bridge	\$ -	\$ -	\$ -	\$ 6,840,800	\$ 6,840,800
El Nido Road Cofferdam	\$ -	\$ -	\$ -	\$ 528,730	\$ 528,730
Canal Realignment	\$ 1,140,500	\$ 1,140,500	\$ 1,140,500	\$ 1,140,500	\$ 1,140,500
Merced NWR Weirs	\$ -	\$ -	\$ -	\$ 841,000	\$ 841,000
Dan McNamara Road Bridge	\$ -	\$ -	\$ -	\$ 6,861,300	\$ 6,861,300
Dan McNamara Road Cofferdam	\$ -	\$ -	\$ -	\$ 792,910	\$ 528,730
4B1 Headworks	\$ 5,061,000	\$ 5,061,000	\$ 5,061,000	\$ 148,287	\$ 5,061,000
4B1 Headworks Cofferdam	\$ 188,700	\$ 188,700	\$ 188,700	\$ 68,700	\$ 188,700
4B1 Headworks Structure Metalwork	\$ 233,000	\$ 233,000	\$ 233,000	\$ 6,000	\$ 233,000
4B1 Headworks Structure gates	\$ 865,000	\$ 865,000	\$ 865,000	\$ 300,000	\$ 865,000
4B1 Headworks Power	\$ 1,060,000	\$ 1,060,000	\$ 1,060,000		\$ 1,060,000
Washington Road Bridge	\$ 2,708,350	\$ 2,708,350	\$ 2,708,350	\$ -	\$ -
Crossing #0 Improvements	\$ -	\$ -	\$ -	\$ 487,385	\$ 487,385
Crossing #1 Improvements	\$ 1,417,950	\$ 1,975,950	\$ 3,073,950	\$ 489,135	\$ 489,135
Crossing #1 Cofferdam	\$ 385,800	\$ 385,800	\$ 385,800	\$ -	\$ -
Turner Island Road Bridge	\$ 2,641,000	\$ 3,371,800	\$ 4,102,100	\$ -	\$ -
Crossing #2 Improvements	\$ 1,477,750	\$ 1,945,750	\$ 2,341,750	\$ 498,735	\$ 498,785
Crossing #2 Cofferdam	\$ 385,800	\$ 385,800	\$ 385,800	\$ -	\$ -
Crossing #3 Improvements	\$ 1,478,150	\$ 1,755,350	\$ 2,072,150	\$ 493,235	\$ 493,235
Crossing #3 Cofferdam	\$ 385,800	\$ 385,800	\$ 385,800	\$ -	\$ -
Fish Barrier	\$ -	\$ -	\$ -	\$ 1,712,725	\$ 1,712,725
Mariposa Bypass Control Structure	\$ -	\$ -	\$ -	\$ 952,935	\$ 952,935
Mariposa Bypass Control Structure Cofferdam	\$ -	\$ -	\$ -	\$ 257,400	\$ 257,400
Mariposa Bypass Road Bridge	\$ -	\$ -	\$ -	\$ 3,092,300	\$ -
Mariposa Bypass Drop Structure Demolition	\$ -	\$ -	\$ -	\$ 909,250	\$ -
Mariposa Bypass Access Road Cofferdam	\$ -	\$ -	\$ -	\$ 528,730	\$ -
Mariposa Bypass Drop Structure Fishway					
Eastside Bypass Fish Ladder Bridge Canal	\$ -	\$ -	\$ -	\$ 1,744,950	\$ 1,744,950
Eastside Bypass Control Cofferdam	\$ -	\$ -	\$ -	\$ 385,800	\$ 385,800
Electrical Features	\$ -	\$ -	\$ -	\$ 1,052,010	\$ 1,052,010
Left levee with seepage berm	\$ 10,444,000	\$ 12,468,000	\$ 12,966,000	\$ 27,882,000	\$ 27,882,000
Right levee with seepage berm	\$ 14,037,000	\$ 12,105,000	\$ 10,933,000	\$ 13,722,000	\$ 13,722,000
Revegetation irrigation	\$ 9,117,200	\$ 16,109,000	\$ 18,821,000	\$ 5,354,200	\$ 8,623,600
Vegetation restoration materials	\$ 26,450,042	\$ 50,874,160	\$ 70,971,769	\$ 22,102,385	\$ 21,925,370
Channel and floodplain grading	\$ 10,084,500	\$ 15,862,000	\$ 19,832,000	\$ 10,410,000	\$ 10,542,000
Subtotal	\$ 91,690,652	\$ 131,010,070	\$ 159,656,779	\$ 110,289,252	\$ 116,224,080
Mobilization (5%)	\$ 4,584,533	\$ 6,550,504	\$ 7,982,839	\$ 5,514,463	\$ 5,811,204
Design Contingencies (15%)	\$ 14,441,278	\$ 20,634,086	\$ 25,145,943	\$ 17,370,557	\$ 18,305,293
CONTRACT COST	\$ 110,716,463	\$ 158,194,660	\$ 192,785,560	\$ 133,174,271	\$ 140,340,576
Construction Contingencies (25%)	\$ 27,679,116	\$ 39,548,665	\$ 48,196,390	\$ 33,293,568	\$ 35,085,144
FIELD COST	\$ 138,395,578	\$ 197,743,325	\$ 240,981,950	\$ 166,467,839	\$ 175,425,720
Land Acquisition Costs	\$ 18,480,000	\$ 46,440,000	\$ 81,910,000	\$ 2,603,191	\$ 3,690,000
TOTAL	\$ 156,875,578	\$ 244,183,325	\$ 322,891,950	\$ 169,071,030	\$ 179,115,720

Note 1: Reach 4B1 levee designs were based on 1,500 cfs of flow. Total alternative costs will decrease as design moves forward