

Estimate - Murray River Wetlands  
 Site 8212 - option 1  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$20,000	\$20,000
(b)	Coffer Dam	m <sup>3</sup>	115	\$10	\$1,150
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	50	\$10	\$500
(b)	Earth Block Banks	m <sup>3</sup>	430	\$10	\$4,300
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	30	\$500	\$15,000
(b)	Vertical Lift gates (& Frames)	No.	3	\$18,000	\$54,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	3	\$5,000	\$15,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	50	\$100	\$5,000
(e)	Access Walkway (inc. handrail)	m	15	\$1,000	\$15,000
<b>6</b>	<b>Direct Cost</b>				<b>\$129,950</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$12,995
	Contract Management		10.00%		\$12,995
	Contingencies		30.00%		\$38,985
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$194,925</b>

Estimate - Murray River Wetlands  
 Site 8212 - option 2  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$20,000	\$20,000
(b)	Coffer Dam	m <sup>3</sup>	115	\$10	\$1,150
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	75	\$10	\$750
(b)	Earth Block Banks	m <sup>3</sup>	570	\$10	\$5,700
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	30	\$500	\$15,000
(b)	Vertical Lift gates (& Frames)	No.	3	\$18,000	\$54,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	3	\$5,000	\$15,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	50	\$100	\$5,000
(e)	Access Walkway (inc. handrail)	m	15	\$1,000	\$15,000
<b>6</b>	<b>Direct Cost</b>				<b>\$131,600</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$13,160
	Contract Management		10.00%		\$13,160
	Contingencies		30.00%		\$39,480
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$197,400</b>

Estimate - Murray River Wetlands  
 Site 7413  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$25,000	\$25,000
(b)	Coffer Dam	m <sup>3</sup>	370	\$10	\$3,700
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	75	\$10	\$750
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	90	\$500	\$45,000
(b)	Vertical Lift gates (& Frames)	No.	4	\$18,000	\$72,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	4	\$5,000	\$20,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	50	\$100	\$5,000
(e)	Access Walkway (inc. handrail)	m	30	\$1,000	\$30,000
<b>6</b>	<b>Direct Cost</b>				<b>\$201,450</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$20,145
	Contract Management		10.00%		\$20,145
	Contingencies		30.00%		\$60,435
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$302,175</b>

Estimate - Murray River Wetlands  
 Site 7656 Black Swan Lagoon  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$30,000	\$30,000
(b)	Coffer Dam	m <sup>3</sup>	350	\$10	\$3,500
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	75	\$10	\$750
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	100	\$500	\$50,000
(b)	Vertical Lift gates (& Frames)	No.	4	\$18,000	\$72,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	4	\$5,000	\$20,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	50	\$100	\$5,000
(e)	Access Walkway (inc. handrail)	m	40	\$1,000	\$40,000
<b>6</b>	<b>Direct Cost</b>				<b>\$221,250</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$22,125
	Contract Management		10.00%		\$22,125
	Contingencies		30.00%		\$66,375
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$331,875</b>

Estimate - Murray River Wetlands  
 Site 8212 - option 3  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$15,000	\$15,000
(b)	Coffer Dam	m <sup>3</sup>	60	\$10	\$600
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	25	\$10	\$250
(b)	Earth Block Banks	m <sup>3</sup>	950	\$10	\$9,500
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	20	\$500	\$10,000
(b)	Vertical Lift gates (& Frames)	No.	2	\$18,000	\$36,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	2	\$5,000	\$10,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	20	\$100	\$2,000
(e)	Access Walkway (inc. handrail)	m	10	\$1,000	\$10,000
<b>6</b>	<b>Direct Cost</b>				<b>\$93,350</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$9,335
	Contract Management		10.00%		\$9,335
	Contingencies		30.00%		\$28,005
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$140,025</b>

Estimate - Murray River Wetlands  
 Site 7410  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$15,000	\$15,000
(b)	Coffer Dam	m <sup>3</sup>	115	\$10	\$1,150
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	40	\$10	\$400
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	30	\$500	\$15,000
(b)	Vertical Lift gates (& Frames)	No.	2	\$18,000	\$36,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	2	\$5,000	\$10,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	50	\$100	\$5,000
(e)	Access Walkway (inc. handrail)	m	10	\$1,000	\$10,000
<b>6</b>	<b>Direct Cost</b>				<b>\$92,550</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$9,255
	Contract Management		10.00%		\$9,255
	Contingencies		30.00%		\$27,765
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$138,825</b>

**Estimate - Murray River Wetlands**  
**Site 7804 Croppers Lagoon - assuming existing sheet piling suitable for gates**  
**Feasibility Study**

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$15,000	\$15,000
(b)	Coffer Dam	m <sup>3</sup>	515	\$10	\$5,150
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	0	\$10	\$0
(b)	Earth Block Banks	m <sup>3</sup>	100	\$10	\$1,000
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	0	\$500	\$0
(b)	Vertical Lift gates (& Frames)	No.	3	\$18,000	\$54,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	3	\$5,000	\$15,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	0	\$100	\$0
(e)	Handrail only	m	40	\$200	\$8,000
<b>6</b>	<b>Direct Cost</b>				<b>\$98,150</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$9,815
	Contract Management		10.00%		\$9,815
	Contingencies		30.00%		\$29,445
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$147,225</b>

Estimate - Murray River Wetlands  
 Site 7804 Croppers Lagoon  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$30,000	\$30,000
(b)	Coffer Dam	m <sup>3</sup>	515	\$10	\$5,150
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	75	\$10	\$750
(b)	Earth Block Banks	m <sup>3</sup>	100	\$10	\$1,000
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	105	\$500	\$52,500
(b)	Vertical Lift gates (& Frames)	No.	4	\$18,000	\$72,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	4	\$5,000	\$20,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	50	\$100	\$5,000
(e)	Access Walkway (inc. handrail)	m	40	\$1,000	\$40,000
<b>6</b>	<b>Direct Cost</b>				<b>\$226,400</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$22,640
	Contract Management		10.00%		\$22,640
	Contingencies		30.00%		\$67,920
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$339,600</b>

Estimate - Murray River Wetlands  
 Site 7312 - secondary  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$20,000	\$20,000
(b)	Coffer Dam	m <sup>3</sup>	210	\$10	\$2,100
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	50	\$10	\$500
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	70	\$500	\$35,000
(b)	Vertical Lift gates (& Frames)	No.	3	\$18,000	\$54,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	3	\$5,000	\$15,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	35	\$100	\$3,500
(e)	Access Walkway (inc. handrail)	m	25	\$1,000	\$25,000
<b>6</b>	<b>Direct Cost</b>				<b>\$155,100</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$15,510
	Contract Management		10.00%		\$15,510
	Contingencies		30.00%		\$46,530
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$232,650</b>

Estimate - Murray River Wetlands  
 Site 7312 - main  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$20,000	\$20,000
(b)	Coffer Dam	m <sup>3</sup>	160	\$10	\$1,600
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	35	\$10	\$350
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	40	\$500	\$20,000
(b)	Vertical Lift gates (& Frames)	No.	2	\$18,000	\$36,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	2	\$5,000	\$10,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	25	\$100	\$2,500
(e)	Access Walkway (inc. handrail)	m	10	\$1,000	\$10,000
<b>6</b>	<b>Direct Cost</b>				<b>\$100,450</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$10,045
	Contract Management		10.00%		\$10,045
	Contingencies		30.00%		\$30,135
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$150,675</b>

Estimate - Murray River Wetlands  
 Site 7339  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$15,000	\$15,000
(b)	Coffer Dam	m <sup>3</sup>	120	\$10	\$1,200
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	25	\$10	\$250
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	30	\$500	\$15,000
(b)	Vertical Lift gates (& Frames)	No.	2	\$18,000	\$36,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	2	\$5,000	\$10,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	25	\$100	\$2,500
(e)	Access Walkway (inc. handrail)	m	10	\$1,000	\$10,000
<b>6</b>	<b>Direct Cost</b>				<b>\$89,950</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$8,995
	Contract Management		10.00%		\$8,995
	Contingencies		30.00%		\$26,985
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$134,925</b>

Estimate - Murray River Wetlands  
 Site 7369  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$30,000	\$30,000
(b)	Coffer Dam	m <sup>3</sup>	400	\$10	\$4,000
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	80	\$10	\$800
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	100	\$500	\$50,000
(b)	Vertical Lift gates (& Frames)	No.	5	\$18,000	\$90,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	5	\$5,000	\$25,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	65	\$100	\$6,500
(e)	Access Walkway (inc. handrail)	m	35	\$1,000	\$35,000
<b>6</b>	<b>Direct Cost</b>				<b>\$241,300</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$24,130
	Contract Management		10.00%		\$24,130
	Contingencies		30.00%		\$72,390
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$361,950</b>

Estimate - Murray River Wetlands  
 Site 7341  
 Feasibility Study

Item No.	Description	Units	Qty	Rate	Amount
<b>1</b>	<b>Preliminary Works</b>				
(a)	Possession of Site - establishment/ disestablishment	item	1	\$15,000	\$15,000
(b)	Coffer Dam	m <sup>3</sup>	210	\$10	\$2,100
<b>2</b>	<b>Earthworks</b>				
(a)	Excavation and removal of soil from existing culvert site	m <sup>3</sup>	25	\$10	\$250
<b>3</b>	<b>Regulator Structure</b>				
(a)	Steel Sheet Piling (including concrete cap)	m <sup>2</sup>	30	\$500	\$15,000
(b)	Vertical Lift gates (& Frames)	No.	2	\$18,000	\$36,000
(c)	Drive mechanism (inc Actuator, Stems and Shaft)	No.	2	\$5,000	\$10,000
(d)	Rock Protection (inc. filtercloth)	m <sup>2</sup>	25	\$100	\$2,500
(e)	Access Walkway (inc. handrail)	m	10	\$1,000	\$10,000
<b>6</b>	<b>Direct Cost</b>				<b>\$90,850</b>
<b>7</b>	<b>Preliminaries</b>				
	Preconstruction activity	%	10.00%		\$9,085
	Contract Management		10.00%		\$9,085
	Contingencies		30.00%		\$27,255
<b>8</b>	<b>Total Project Cost (TPC)</b>				<b>\$136,275</b>