



Appendix D

Preliminary Cost Estimates

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- ▶ Preliminary Capital Cost Estimates
- ▶ Preliminary Cost of Water Estimates

Direct Connection Pipeline - Burdekin to South East Queensland



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Cost Estimates, Scenario 1, Year 2012 @ 60 L/EP/Day, Flow Rate 188 ML/Day, Continuous Operation

Item	Description	Unit	Quantity	Rate (\$/Unit)	Amount (\$M)
1.0	Project Mobilisation & Site Management	Item	10.0%		\$402.05
2.0	Pipe Supply - MSCL Pipe, RRJ, DN 1450 (Cement Lining (16mm))				
2.1	ID 1380 x 10mm Wall Thickness	km	862.6	1.06	916.94
2.2	ID 1380 x 12mm Wall Thickness	km	88.4	1.33	117.57
	Sub Total				\$1,034.52
3.0	Pipe Construction				
3.1	Rural Easy (0-3 % Slope)	km	771.2	2.56	1974.27
3.2	Rural Intermittent (3-7 % Slope)	km	146.8	3.58	525.54
3.3	Rural Difficult (7-10 % Slope)	km	33.0	4.55	150.15
3.4	Supply and Install Oneway Surge Tanks	Item	20.0	2.50	50.00
	Sub Total				\$2,699.97
4.0	Additional for Road Crossings				
4.1	Tracks	No.	96.0	0.01	1.02
4.2	Minor Roads	No.	101.0	0.02	2.15
4.3	Secondary Roads	No.	18.0	0.06	1.15
4.4	Principal Roads	No.	28.0	0.51	14.31
	Sub Total				\$18.63
5.0	Additional for Rail Crossings	No.	9.0	0.75	\$6.75
6.0	Extra for River/Creek Crossing				
6.1	Major (specified)				
6.1.1	Suttor, Isaac, Fitzroy, Dee, Burnett x 2	No.	6.0	2.10	12.60
6.2	Major (Non Specified)	No.	17.0	0.80	13.60
6.3	Minor	No.	269.0	0.08	21.52
	Sub Total				\$47.72
7.0	Pump Stations (2 PS @ 7.99 MW (300m), 5 PS @ 5.3 MW (200m))				
7.1	Pump Station Civil Works	Item	7.0	3.50	24.50
7.2	Pipework and Fittings	Item	7.0	2.74	19.18
7.3	Mechanical	Item	7.0	5.33	37.31
7.4	Electrical	Item	7.0	3.65	25.55
7.5	Access Road				
7.5.1	Pump Station No. 1	km	10.0	0.30	3.00
7.5.2	Pump Station No. 2	km	40.0	0.30	12.00
7.5.3	Pump Station No. 3	km	20.0	0.30	6.00
7.5.4	Pump Station No. 4	km	20.0	0.30	6.00
7.5.5	Pump Station No. 5	km	20.0	0.30	6.00
7.5.6	Pump Station No. 6	km	30.0	0.30	9.00
7.5.7	Pump Station No. 7	km	20.0	0.30	6.00
7.6	Pump Station Breakers, Transformers & Assoc Civil Works	Item	7.0	3.06	21.42
7.7	Telemetry	Item			25.00
	Sub Total				\$200.96
8.0	Power Supply				
8.1	Pump Station No. 1 Transmission Line	km	50.0	0.25	12.50
8.2	Pump Station No. 2 Transmission Line	km	40.0	0.25	10.00
8.3	Pump Station No. 3 Transmission Line	km	10.0	0.25	2.50
8.4	Pump Station No. 4 Transmission Line	km	40.0	0.25	10.00
8.5	Pump Station No. 5 Transmission Line	km	20.0	0.25	5.00
8.6	Pump Station No. 6 Transmission Line	km	50.0	0.25	12.50
8.7	Pump Station No. 7 Transmission Line	km	30.0	0.25	7.50
8.8	Connection to Power Supply Network	Item	7.0	1.25	8.75
	Sub Total				\$68.75
9.0	Inlet Structure				
9.1	Civil Works	Item			4.00
9.2	Pipework	Item			2.00
9.3	Valves	Item			1.00
9.4	Fish Screens	Item			1.00
	Sub Total				\$8.00
10.0	Outlet Structure				
10.1	Civil Works and Energy Dissipation	Item			1.00
10.2	Valves and Pipework	Item			0.50
	Sub Total				\$1.50
11.0	Testing and Commissioning	Item			\$2.50
12.0	SUB TOTAL (Items 1 to 11)				\$4,020.54
13.0	Valve/Fittings for Pipeline (Inc Pigging and Scours)	Item	2.0%		\$80.41
14.0	Associated Project Costs				
14.1	Land Acquisition Costs	Item	2.0%		80.41
14.2	Legal Costs	Item	0.2%		8.04
14.3	ILUA & CH Monitoring	Item	0.8%		32.16
	Sub Total				\$120.62
15.0	SUB TOTAL (Items 12, 13, 14)				\$4,623.63
16.0	CONTINGENCIES	Item	30.0%		1387
17.0	ENGINEERING SURVEYS & DESIGN	Item	15.0%		694
18.0	PROJECT & CONSTRUCTION MANAGEMENT	Item	3.0%		139
19.0	TOTAL (EXCLUDING GST)				\$6,843.00
20.0	Raising of the Burdekin Dam Wall	Item			65.00
21.0	TOTAL (EXCLUDING GST) (ROUNDED)				\$6,908.00

Direct Connection Pipeline - Burdekin to South East Queensland



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Cost Estimates, Scenario 5, Year 2026 @ 100 L/EP/Day, Flow Rate 396 ML/Day, Continuous Operation

Item	Description	Unit	Quantity	Rate (\$M/Unit)	Amount (\$M)
1.0	Project Mobilisation & Site Management	Item	10.0%		\$653.95
2.0	Pipe Supply - MSCL Pipe, Welded, DN 2000 (Cement Lining (16mm))				
2.1	ID 1950 x 12mm Wall Thickness	km	615.3	1.68	1033.70
2.2	ID 1950 x 14mm Wall Thickness	km	335.7	2.03	681.47
	Sub Total				\$1,715.18
3.0	Pipe Construction				
3.1	Rural Easy (0-3 % Slope)	km	771.2	4.26	3285.31
3.2	Rural Intermittent (3-7 % Slope)	km	146.8	5.96	874.93
3.3	Rural Difficult (7-10 % Slope)	km	33.0	7.75	255.75
3.4	Supply and Install Oneway Surge Tanks	Item	20.0	2.50	50.00
	Sub Total				\$4,465.99
4.0	Additional for Road Crossings				
4.1	Tracks	No.	96.0	0.02	2.11
4.2	Minor Roads	No.	101.0	0.03	3.33
4.3	Secondary Roads	No.	18.0	0.10	1.78
4.4	Principal Roads	No.	28.0	0.75	20.95
	Sub Total				\$28.18
5.0	Additional for Rail Crossings	No.	9.0	0.94	\$8.44
6.0	Extra for River/Creek Crossing				
6.1	Major (specified)				
6.1.1	Suttor, Isaac, Fitzroy, Dee, Burnett x 2	No.	6.0	2.30	13.80
6.2	Major (Non Specified)	No.	17.0	0.90	15.30
6.3	Minor	No.	269.0	0.09	24.21
	Sub Total				\$53.31
7.0	Pump Stations (4 PS @ 15.7 MW (280m), 1 PS @ 8.4 MW (150m))				
7.1	Pump Station Civil Works	Item	5.0	8.21	41.05
7.2	Pipework and Fittings	Item	5.0	6.43	32.15
7.3	Mechanical	Item	5.0	12.49	62.45
7.4	Electrical	Item	5.0	8.57	42.85
7.5	Access Road				
7.5.1	Pump Station No. 1	km	10.0	0.30	3.00
7.5.2	Pump Station No. 2	km	40.0	0.30	12.00
7.5.3	Pump Station No. 3	km	20.0	0.30	6.00
7.5.4	Pump Station No. 4	km	20.0	0.30	6.00
7.5.5	Pump Station No. 5	km	20.0	0.30	6.00
7.6	Pump Station Breakers, Transformers & Assoc Civil Works	Item	5.0	3.60	18.00
7.7	Telemetry	Item			25.00
	Sub Total				\$254.50
8.0	Power Supply				
8.1	Pump Station No. 1 Transmission Line	km	50.0	0.50	25.00
8.2	Pump Station No. 2 Transmission Line	km	40.0	0.50	20.00
8.3	Pump Station No. 3 Transmission Line	km	10.0	0.50	5.00
8.4	Pump Station No. 4 Transmission Line	km	40.0	0.50	20.00
8.5	Pump Station No. 5 Transmission Line	km	20.0	0.50	10.00
8.8	Connection to Power Supply Network	Item	5.0	2.50	12.50
	Sub Total				\$92.50
9.0	Inlet Structure				
9.1	Civil Works	Item			4.75
9.2	Pipework	Item			2.50
9.3	Valves	Item			1.25
9.4	Fish Screens	Item			1.00
	Sub Total				\$9.50
10.0	Outlet Structure				
10.1	Civil Works and Energy Dissipation	Item			1.25
10.2	Valves and Pipework	Item			0.63
	Sub Total				\$1.88
11.0	Testing and Commissioning	Item			\$2.50
12.0	SUB TOTAL (Items 1 to 11)				\$6,539.47
13.0	Valve/Fittings for Pipeline (Inc Pigging and Scours)	Item	2.0%		\$130.79
14.0	Associated Project Costs				
14.1	Land Acquisition Costs	Item	2.0%		130.79
14.2	Legal Costs	Item	0.2%		13.08
14.3	ILUA & CH Monitoring	Item	0.8%		52.32
	Sub Total				\$196.18
15.0	SUB TOTAL (Items 12, 13, 14)				\$7,520.39
16.0	CONTINGENCIES	Item	30.0%		2256
17.0	ENGINEERING SURVEYS & DESIGN	Item	15.0%		1128
18.0	PROJECT & CONSTRUCTION MANAGEMENT	Item	3.0%		226
19.0	TOTAL (EXCLUDING GST)				11130
20.0	Raising of the Burdekin Dam Wall	Item			250
21.0	TOTAL (EXCLUDING GST) (ROUNDED)				\$11,381.00

Direct Connection Pipeline - Burdekin to South East Queensland



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Cost Estimates, Scenario 9, Year 2056 @ 140 L/EP/Day, Flow Rate 727 ML/Day, Continuous Operation

Item	Description	Unit	Quantity	Rate (\$M/Unit)	Amount (\$M)
1.0	Project Mobilisation & Site Management	Item	10.0%		\$794.51
2.0	Pipe Supply - MSCL Pipe, Welded, DN 2200 (Cement Lining (16mm))				
2.1	ID 2132 x 14mm Wall Thickness	km	787.4	2.11	1661.41
2.2	ID 2132 x 16mm Wall Thickness	km	163.6	2.52	412.27
	Sub Total				\$2,073.69
3.0	Pipe Construction				
3.1	Rural Easy (0-3 % Slope)	km	771.2	4.94	3809.73
3.2	Rural Intermittent (3-7 % Slope)	km	146.8	6.90	1012.92
3.3	Rural Difficult (7-10 % Slope)	km	33.0	8.77	289.41
3.4	Supply and Install Oneway Surge Tanks	Item	20.0	2.50	50.00
	Sub Total				\$5,162.06
4.0	Additional for Road Crossings				
4.1	Tracks	No.	96.0	0.02	1.94
4.2	Minor Roads	No.	101.0	0.03	3.07
4.3	Secondary Roads	No.	18.0	0.10	1.82
4.4	Principal Roads	No.	28.0	0.76	21.27
	Sub Total				\$28.10
5.0	Additional for Rail Crossings	No.	9.0	1.05	\$9.45
6.0	Extra for River/Creek Crossing				
6.1	Major (specified)				
6.1.1	Suttor, Isaac, Fitzroy, Dee, Burnett x 2	No.	6.0	2.50	15.00
6.2	Major (Non Specified)	No.	17.0	1.00	17.00
6.3	Minor	No.	269.0	0.10	26.90
	Sub Total				\$58.90
7.0	Pump Stations (4 PS @ 30.9 MW (300m), 4 PS @ 23.7 MW (230m))				
7.1	Pump Station Civil Works	Item	8.0	13.99	111.92
7.2	Pipework and Fittings	Item	8.0	10.95	87.60
7.3	Mechanical	Item	8.0	21.29	170.32
7.4	Electrical	Item	8.0	14.60	116.80
7.5	Access Road				
7.5.1	Pump Station No. 1	km	10.0	0.30	3.00
7.5.2	Pump Station No. 2	km	40.0	0.30	12.00
7.5.3	Pump Station No. 3	km	20.0	0.30	6.00
7.5.4	Pump Station No. 4	km	20.0	0.30	6.00
7.5.5	Pump Station No. 5	km	20.0	0.30	6.00
7.5.6	Pump Station No. 6	km	30.0	0.30	9.00
7.5.7	Pump Station No. 7	km	20.0	0.30	6.00
7.5.8	Pump Station No. 8	km	20.0	0.30	6.00
7.6	Pump Station Breakers, Transformers & Assoc Civil Works	Item	8.0	4.14	33.12
7.7	Telemetry	Item			25.00
	Sub Total				\$598.76
8.0	Power Supply				
8.1	Pump Station No. 1 Transmission Line	km	50.0	1.00	50.00
8.2	Pump Station No. 2 Transmission Line	km	40.0	1.00	40.00
8.3	Pump Station No. 3 Transmission Line	km	10.0	1.00	10.00
8.4	Pump Station No. 4 Transmission Line	km	40.0	1.00	40.00
8.5	Pump Station No. 5 Transmission Line	km	20.0	1.00	20.00
8.6	Pump Station No. 6 Transmission Line	km	50.0	1.00	50.00
8.7	Pump Station No. 7 Transmission Line	km	30.0	1.00	30.00
8.8	Pump Station No. 8 Transmission Line	km	30.0	1.00	30.00
8.9	Connection to Power Supply Network	Item	8.0	5.00	40.00
	Sub Total				\$310.00
9.0	Inlet Structure				
9.1	Civil Works	Item			4.30
9.2	Pipework	Item			2.80
9.3	Valves	Item			1.40
9.4	Fish Screens	Item			1.00
	Sub Total				\$9.50
10.0	Outlet Structure				
10.1	Civil Works and Energy Dissipation	Item			1.40
10.2	Valves and Pipework	Item			0.70
	Sub Total				\$2.10
11.0	Testing and Commissioning	Item			\$2.50
12.0	SUB TOTAL (Items 1 to 11)				\$7,945.06
13.0	Valve/Fittings for Pipeline (Inc Pigging and Scours)	Item	2.0%		\$158.90
14.0	Associated Project Costs				
14.1	Land Acquisition Costs	Item	2.0%		158.90
14.2	Legal Costs	Item	0.2%		15.89
14.3	ILUA & CH Monitoring	Item	0.8%		63.56
	Sub Total				\$238.35
15.0	SUB TOTAL (Items 12, 13, 14)				\$9,136.81
16.0	CONTINGENCIES	Item	30.0%		2741
17.0	ENGINEERING SURVEYS & DESIGN	Item	15.0%		1371
18.0	PROJECT & CONSTRUCTION MANAGEMENT	Item	3.0%		274
19.0	TOTAL (EXCLUDING GST)				13522
20.0	Raising of the Burdekin Dam Wall	Item			453
21.0	TOTAL (EXCLUDING GST) (ROUNDED)				\$13,976.00

Direct Connection Pipeline - Burdekin to South East Queensland



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Cost of Water, Scenario 1, Year 2012 @ 60 L/EP/Day, Flow Rate 188 ML/Day

Description	Amount (\$M)	Unit
Pump Station		
Pump Station Total Cost (\$M)	\$200.96	\$M
% Pump Station O&M	3%	
Annual O&M Pump Station Cost (\$M/Year)	\$6.03	\$M/Year
Pipeline		
Pipeline Total Cost (\$M)	\$3,807.58	\$M
% Pipeline O&M	1%	
Annual O&M Pipeline Cost (\$M/Year)	\$38.08	\$M/Year
Power Connection Repayment		
Power Connection Cost (\$M)	\$68.75	\$M
% Power Connection Payback	10%	
Annual Power Connection Payback Cost (\$M/Year)	\$6.88	\$M/Year
Pump Power Costs		
Pump kW (Total)	42,480	kW
No. of Pump Stations	7	Item
Power Unit Rate (\$/kW.Hr)	\$0.06	\$/kW.Hr
	Years of Operation/50 Years	
Annual Power Pump Costs (\$M/Year)	1	\$0.45 \$M/Year
Annual Power Pump Costs (\$M/Year)	5	\$2.94 \$M/Year
Annual Power Pump Costs (\$M/Year)	50	\$29.40 \$M/Year
<i>Note: Power Pump Costs are based on total Hrs run over 50 years, divided by 50 years to obtain an annual cost.</i>		
Total O&M Costs (\$M/Year)		
	1:50	\$51.43 \$M/Year
	1:10	\$53.92 \$M/Year
	Continuous	\$80.38 \$M/Year
Return on Capital		
% of Return	7.50%	
Total Capital Cost (\$M)	\$6,908	\$M
Annual Return on Capital (\$M/Year)	\$518.10	\$M/year
Depreciation (\$M/Year)		
		\$91.51 \$M/year
Price of Water (\$/ML)		
	1:50	\$481,668.70 \$/ML
	1:10	\$96,697.07 \$/ML
	Continuous	\$10,055.27 \$/ML

Note: All Costs are Exclusive of GST

Direct Connection Pipeline - Burdekin to South East Queensland



EXCELLENCE PEOPLE PERFORMANCE

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Cost of Water, Scenario 5, Year 2026 @ 100 L/EP/Day, Flow Rate 396 ML/Day

Description	Amount (\$M)	Unit
Pump Station		
Pump Station Total Cost (\$M)	\$254.50	\$M
% Pump Station O&M	3%	
Annual O&M Pump Station Cost (\$M/Year)	\$7.64	\$M/Year
Pipeline		
Pipeline Total Cost (\$M)	\$6,271.10	\$M
% Pipeline O&M	1%	
Annual O&M Pipeline Cost (\$M/Year)	\$62.71	\$M/Year
Power Connection Repayment		
Power Connection Cost (\$M)	\$92.50	\$M
% Power Connection Payback	10%	
Annual Power Connection Payback Cost (\$M/Year)	\$9.25	\$M/Year
Pump Power Costs		
Pump kW (Total)	71,200	kW
No. of Pump Stations	5	Item
Power Unit Rate (\$/kW.Hr)	\$0.06	\$/kW.Hr
	Years of Operation/50 Years	
Annual Power Pump Costs (\$M/Year)	1	\$0.75 \$M/Year
Annual Power Pump Costs (\$M/Year)	5	\$4.13 \$M/Year
Annual Power Pump Costs (\$M/Year)	50	\$41.26 \$M/Year
<i>Note: Power Pump Costs are based on total Hrs run over 50 years, divided by 50 years to obtain an annual cost.</i>		
Total O&M Costs (\$M/Year)		
	1:50	\$80.34 \$M/Year
	1:10	\$83.72 \$M/Year
	Continuous	\$120.86 \$M/Year
Return on Capital		
% of Return	7.50%	
Total Capital Cost (\$M)	\$11,381	\$M
Annual Return on Capital (\$M/Year)	\$853.59	\$M/year
Depreciation (\$M/Year)		
		\$148.00 \$M/year
Price of Water (\$/ML)		
	1:50	\$374,267.31 \$/ML
	1:10	\$75,087.14 \$/ML
	Continuous	\$7,765.62 \$/ML

Note: All Costs are Exclusive of GST

Direct Connection Pipeline - Burdekin to South East Queensland



EXCELLENCE IN PEOPLE AND PERFORMANCE

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Cost of Water, Scenario 9, Year 2056 @ 140 L/EP/Day, Flow Rate 727 ML/Day

Description	Amount (\$M)	Unit
Pump Station		
Pump Station Total Cost (\$M)	\$598.76	\$M
% Pump Station O&M	3%	
Annual O&M Pump Station Cost (\$M/Year)	\$17.96	\$M/Year
Pipeline		
Pipeline Total Cost (\$M)	\$7,332.20	\$M
% Pipeline O&M	1%	
Annual O&M Pipeline Cost (\$M/Year)	\$73.32	\$M/Year
Power Connection Repayment		
Power Connection Cost (\$M)	310.00	\$M
% Power Connection Payback	10%	
Annual Power Connection Payback Cost (\$M/Year)	31.00	\$M/Year
Pump Power Costs		
Pump kW (Total)	218,400	kW
No. of Pump Stations	8	Item
Power Unit Rate (\$/kW.Hr)	\$0.06	\$/kW.Hr
	Years of Operation/50 Years	
Annual Power Pump Costs (\$M/Year)	1	\$2.30 \$M/Year
Annual Power Pump Costs (\$M/Year)	5	\$9.97 \$M/Year
Annual Power Pump Costs (\$M/Year)	50	\$99.65 \$M/Year
<i>Note: Power Pump Costs are based on total Hrs run over 50 years, divided by 50 years to obtain an annual cost.</i>		
Total O&M Costs (\$M/Year)		
	1:50	\$124.58 \$M/Year
	1:10	\$132.25 \$M/Year
	Continuous	\$221.94 \$M/Year
Return on Capital		
% of Return	7.50%	
Total Capital Cost (\$M)	\$13,976	\$M
Annual Return on Capital (\$M/Year)	\$1,048.24	\$M/year
Depreciation (\$M/Year)		
		\$185.44 \$M/year
Price of Water (\$/ML)		
	1:50	\$255,931.97 \$/ML
	1:10	\$51,475.42 \$/ML
	Continuous	\$5,485.54 \$/ML

Note: All Costs are Exclusive of GST



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Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	M B Rodd					
1	M B Rodd	J Foruria	<i>J Foruria</i>	J Foruria	<i>J Foruria</i>	27.7.07
2	M B Rodd	J Foruria	<i>J Foruria</i>	J Foruria	<i>J Foruria</i>	4.10.07