



## **Appendix E Cost estimates for mitigation strategies**

**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Gawler Racecourse flood control basin  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 548,683.50	\$ 548,683.50
<b>Sub-Total</b>						<b>\$ 548,683.50</b>
<b>2.0 Pipe Network</b>						
2.1	750 mm RCP		m	160	\$ 830.00	\$ 132,800.00
2.2	1200 mm RCP		m	197	\$ 1,560.00	\$ 307,320.00
2.3	1350 mm RCP		m	170	\$ 1,800.00	\$ 306,000.00
2.4	1500 mm RCP		m	70	\$ 2,140.00	\$ 149,800.00
2.5	1200 sq Junction Box		Each	1	\$ 6,570.00	\$ 6,570.00
2.6	1800 sq Junction Box		Each	10	\$ 9,130.00	\$ 91,300.00
2.7	2100 sq Junction Box		Each	5	\$ 10,100.00	\$ 50,500.00
2.8	Headwall		Each	4	\$ 1,000.00	\$ 4,000.00
2.9	Scour Protection		m <sup>2</sup>	64	\$ 150.00	\$ 9,600.00
<b>Sub-Total</b>						<b>\$ 1,057,890.00</b>
<b>3.0 Detention Basin</b>						
3.1	Topsoil stripping and stockpiling		m <sup>2</sup>	28,000	\$ 3.50	\$ 98,000.00
3.2	Basin earthworks		m <sup>3</sup>	33,000	\$ 19.00	\$ 627,000.00
3.3	Topsoil respreading		m <sup>2</sup>	28,000	\$ 5.00	\$ 140,000.00
3.4	Oval irrigation replacement		Item	1	\$ 10,000.00	\$ 10,000.00
3.5	Wetland	Assume 80% of basin footprint used for a wetland	ha	2.3	\$ 750,000.00	\$ 1,725,000.00
<b>Sub-Total</b>						<b>\$ 2,600,000.00</b>

<b>Sub-total</b>		<b>\$ 4,206,573.50</b>
Contingency	20%	\$ 841,314.70
GST	10%	\$ 504,788.82
<b>Grand Total</b>		<b>\$ 5,552,677.02</b>

**Note:** Cost estimates provided by Tonkin Consulting are based upon historic cost information and experience, and do not allow for:

- Latent conditions
- Changes in scope
- Market conditions (i.e. competition, escalation)
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- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

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**Tonkin Consulting recommend that an appropriately qualified quantity surveyor be consulted to provide detailed market cost inputs.**

**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 20-04-18  
**Revision:** A  
**Summary of works:** Tingara Road flood control basin  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 70,382.57	\$ 70,382.57
<b>Sub-Total</b>						<b>\$ 70,382.57</b>
<b>2.0 Stormwater Drainage</b>						
2.1	Low level outlet pipe, 300 mm RCP		m	20	\$ 400.00	\$ 8,000.00
2.2	High level outlet pipe, twin 1500 RCP		m	100	\$ 2,140.00	\$ 214,000.00
2.3	Junction box to suit high level outlet pipes		Each	2	\$ 15,000.00	\$ 30,000.00
2.4	Outlet headwall with scour protection		Each	1	\$ 20,000.00	\$ 20,000.00
<b>Sub-Total</b>						<b>\$ 272,000.00</b>
<b>3.0 Earthworks</b>						
3.1	Fill volume	Assuming a clay material	m <sup>3</sup>	3,200	\$ 26.00	\$ 83,200.00
3.2	Embankment surface treatment	Trim surfaces	m <sup>2</sup>	700	\$ 3.45	\$ 2,417.10
<b>Sub-Total</b>						<b>\$ 85,617.10</b>
<b>4.0 Miscellaneous</b>						
4.1	Land acquisition		m <sup>2</sup>	2,500	\$ 30.00	\$ 75,000.00
4.2	Tree removal		Each	8	\$ 200.00	\$ 1,600.00
4.3	Cleaning up		Item	1	\$ 15,000.00	\$ 15,000.00
4.4	Testing		Item	1	\$ 20,000.00	\$ 20,000.00
<b>Sub-Total</b>						<b>\$ 111,600.00</b>

<b>Sub-total</b>		<b>\$ 539,599.67</b>
Contingency	20%	\$ 107,919.93
GST	10%	\$ 64,751.96
<b>Grand Total</b>		<b>\$ 712,271.56</b>

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- No allowance for approvals for these works
- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Trinity College creek upgrades  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 38,456.25	\$ 38,456.25
<b>Sub-Total</b>						<b>\$ 38,456.25</b>
<b>2.0 Open Channel</b>						
2.1	Channel earthworks		m <sup>3</sup>	1,070	\$ 19.00	\$ 20,330.00
2.2	Stripping of topsoil and stockpile (150 mm)		m <sup>2</sup>	1,770	\$ 3.50	\$ 6,195.00
2.3	Topsoil respreading		m <sup>2</sup>	1,770	\$ 5.00	\$ 8,850.00
2.4	Culvert (2700 x 750 RCBC)		m	60	\$ 3,100.00	\$ 186,000.00
2.5	Headwall (to suit 2700 x 750 RCBC)		Each	6	\$ 4,500.00	\$ 27,000.00
<b>Sub-Total</b>						<b>\$ 248,375.00</b>
<b>3.0 Miscellaneous</b>						
3.1	Tree removal		Each	40	\$ 200.00	\$ 8,000.00
<b>Sub-Total</b>						<b>\$ 8,000.00</b>

<b>Sub-total</b>		<b>\$ 294,831.25</b>
Contingency	20%	\$ 58,966.25
GST	10%	\$ 35,379.75
<b>Grand Total</b>		<b>\$ 389,177.25</b>

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- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Jarvis Street drain upgrades  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 335,079.75	\$ 335,079.75
<b>Sub-Total</b>						<b>\$ 335,079.75</b>
<b>2.0 Stormwater Drainage</b>						
2.1	675 mm RCP		m	100	\$ 730.00	\$ 73,000.00
2.2	825 mm RCP		m	50	\$ 950.00	\$ 47,500.00
2.3	900 mm RCP		m	17	\$ 1,065.00	\$ 18,105.00
2.4	1050 mm RCP		m	254	\$ 1,295.00	\$ 328,930.00
2.5	1200 mm RCP		m	255	\$ 1,560.00	\$ 397,800.00
2.6	1350 mm RCP		m	686	\$ 1,800.00	\$ 1,234,800.00
2.7	1200 sq Junction Box		Each	2	\$ 6,570.00	\$ 13,140.00
2.8	1500 sq Junction Box		Each	3	\$ 2,140.00	\$ 6,420.00
2.9	1800 sq Junction Box		Each	9	\$ 9,130.00	\$ 82,170.00
2.10	Headwall		Each	2	\$ 1,000.00	\$ 2,000.00
<b>Sub-Total</b>						<b>\$ 2,203,865.00</b>
<b>3.0 Miscellaneous</b>						
3.1	Deep excavation allowance		Item	1	\$ 30,000.00	\$ 30,000.00
<b>Sub-Total</b>						<b>\$ 30,000.00</b>

<b>Sub-total</b>		<b>\$ 2,568,944.75</b>
Contingency	20%	\$ 513,788.95
GST	10%	\$ 308,273.37
<b>Grand Total</b>		<b>\$ 3,391,007.07</b>

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- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service depthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 09-05-18  
**Revision:** A  
**Summary of works:** Gawler East flow path improvements  
**Estimated:** MM  
**Review:**

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 78,556.50	\$ 78,556.50
<b>Sub-Total</b>						<b>\$ 78,556.50</b>
<b>2.0 Stormwater Drainage</b>						
2.1	375 mm RCP		m	155	\$ 450.00	\$ 69,750.00
2.2	825 mm RCP		m	20	\$ 950.00	\$ 19,000.00
2.3	750 x 600 RCBC		m	10	\$ 1,900.00	\$ 19,000.00
2.4	900 x 600 RCBC		m	13	\$ 2,200.00	\$ 28,600.00
2.5	1200 x 600 RCBC		m	30	\$ 2,600.00	\$ 78,000.00
2.6	1800 x 600 RCBC		m	13	\$ 3,000.00	\$ 39,000.00
<b>Sub-Total</b>						<b>\$ 253,350.00</b>
<b>3.0 Channel Earthworks</b>						
3.1	Topsoil stripping		m <sup>2</sup>	4,200	\$ 19.00	\$ 79,800.00
3.2	Excavation (cut to disposal)		m <sup>3</sup>	3,000	\$ 5.00	\$ 15,000.00
3.3	Topsoil respreading		m <sup>2</sup>	4,200	\$ 1.80	\$ 7,560.00
<b>Sub-Total</b>						<b>\$ 102,360.00</b>
<b>4.0 Miscellaneous</b>						
4.1	Land acquisition		m <sup>2</sup>	5,600	\$ 30.00	\$ 168,000.00
<b>Sub-Total</b>						<b>\$ 168,000.00</b>

<b>Sub-total</b>		<b>\$ 602,266.50</b>
Contingency	20%	\$ 120,453.30
GST	10%	\$ 72,271.98
<b>Grand Total</b>		<b>\$ 794,991.78</b>

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- No allowance has been made for landscaping works
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- No allowance has been made for project delivery costs including project management
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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Potts Road detention basin  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 245,077.50	\$ 245,077.50
<b>Sub-Total</b>						<b>\$ 245,077.50</b>
<b>2.0 Pipe Network (Potts Road West)</b>						
2.1	375 mm RCP		m	950	\$ 450.00	\$ 427,500.00
2.2	450 mm RCP		m	200	\$ 500.00	\$ 100,000.00
2.3	600 mm RCP		m	150	\$ 650.00	\$ 97,500.00
2.4	Headwall (suit pipe 375 mm)		Each	1	\$ 800.00	\$ 800.00
2.5	Headwall (suit pipe 600 mm)		Each	1	\$ 1,000.00	\$ 1,000.00
2.6	900 sq Junction Box		Each	8	\$ 3,700.00	\$ 29,600.00
<b>Sub-Total</b>						<b>\$ 656,400.00</b>
<b>3.0 Pipe Network (Corey Street)</b>						
3.1	375 mm RCP		m	530	\$ 450.00	\$ 238,500.00
3.2	450 mm RCP		m	220	\$ 500.00	\$ 110,000.00
3.3	Headwall (suit pipe 375 mm)		Each	5	\$ 800.00	\$ 4,000.00
3.4	900 sq Junction Box		Each	8	\$ 3,700.00	\$ 29,600.00
<b>Sub-Total</b>						<b>\$ 382,100.00</b>
<b>4.0 Detention Basin (Potts Road West)</b>						
4.1	Topsoil stripping and stockpiling		m <sup>2</sup>	7,500	\$ 3.50	\$ 26,250.00
4.2	Basin earthworks		m <sup>3</sup>	7,500	\$ 19.00	\$ 142,500.00
4.3	Topsoil respreading		m <sup>2</sup>	7,500	\$ 5.00	\$ 37,500.00
4.4	Gross Pollutant Trap		Each	2	\$ 42,000.00	\$ 84,000.00
<b>Sub-Total</b>						<b>\$ 290,250.00</b>
<b>5.0 Local Basin (Corey Street)</b>						
5.1	Topsoil stripping and stockpiling		m <sup>2</sup>	1,000	\$ 3.50	\$ 3,500.00
5.2	Basin earthworks		m <sup>3</sup>	1,400	\$ 19.00	\$ 26,600.00
5.3	Topsoil respreading		m <sup>2</sup>	1,000	\$ 5.00	\$ 5,000.00
5.4	Gross Pollutant Trap		Each	1	\$ 42,000.00	\$ 42,000.00
5.5	In-stream plantings		m	850	\$ 80.00	\$ 68,000.00
5.6	In-stream wetland ponds		Each	4	\$ 40,000.00	\$ 160,000.00
<b>Sub-Total</b>						<b>\$ 305,100.00</b>

<b>Sub-total</b>		<b>\$ 1,878,927.50</b>
Contingency	20%	\$ 375,785.50
GST	10%	\$ 225,471.30
<b>Grand Total</b>		<b>\$ 2,480,184.30</b>

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- No allowance has been made for landscaping works
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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Gawler Belt railway culvert  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 23,370.00	\$ 23,370.00
<b>Sub-Total</b>						<b>\$ 23,370.00</b>
<b>2.0 Rail Culvert</b>						
2.1	Culvert (900 mm RCP)	Cost includes installation	m	25	\$ 2,600.00	\$ 65,000.00
2.2	Headwall (to suit 900 mm RCP)		Each	2	\$ 1,500.00	\$ 3,000.00
2.3	Scour protection		m <sup>2</sup>	40	\$ 150.00	\$ 6,000.00
<b>Sub-Total</b>						<b>\$ 74,000.00</b>
<b>3.0 Outfall Channel</b>						
3.1	Topsoil stripping		m <sup>2</sup>	1,600	\$ 3.50	\$ 5,600.00
3.2	Excavation (cut to disposal)		m <sup>3</sup>	800	\$ 19.00	\$ 15,200.00
3.3	Topsoil respreading		m <sup>2</sup>	1,600	\$ 5.00	\$ 8,000.00
3.4	Land acquisition		m <sup>2</sup>	1,600	\$ 30.00	\$ 48,000.00
<b>Sub-Total</b>						<b>\$ 76,800.00</b>
<b>4.0 Miscellaneous</b>						
4.1	Traffic control (rail)		Item	1	\$ 5,000.00	\$ 5,000.00
4.2	Pipe jacking		Item	1	\$ -	\$ -
<b>Sub-Total</b>						<b>\$ 5,000.00</b>

<b>Sub-total</b>		<b>\$ 179,170.00</b>
Contingency	20%	\$ 35,834.00
GST	10%	\$ 21,504.40
<b>Grand Total</b>		<b>\$ 236,504.40</b>

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- No allowance has been made for project delivery costs including project management
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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Gawler Belt interception drain  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 534,600.00	\$ 534,600.00
<b>Sub-Total</b>						<b>\$ 534,600.00</b>
<b>2.0 Open Channel</b>						
2.1	Stripping of topsoil and stockpile (150 mm)		m <sup>2</sup>	56,000	\$ 3.50	\$ 196,000.00
2.2	Swale earthworks		m <sup>3</sup>	33,600	\$ 19.00	\$ 638,400.00
2.3	Topsoil respreading		m <sup>2</sup>	56,000	\$ 5.00	\$ 280,000.00
2.4	Culvert (3300 x 600 RCBC)		m	198	\$ 3,200.00	\$ 633,600.00
2.5	Headwall (to suit 3300 x 600 RCBC)		Each	8	\$ 3,200.00	\$ 25,600.00
2.6	Scour protection		m <sup>2</sup>	64	\$ 150.00	\$ 9,600.00
2.7	Hydroseed		m <sup>2</sup>	56,000	\$ 1.80	\$ 100,800.00
<b>Sub-Total</b>						<b>\$ 1,884,000.00</b>
<b>3.0 Miscellaneous</b>						
3.1	Land acquisition		m <sup>2</sup>	56,000	\$ 30.00	\$ 1,680,000.00
<b>Sub-Total</b>						<b>\$ 1,680,000.00</b>

<b>Sub-total</b>		<b>\$ 4,098,600.00</b>
Contingency	20%	\$ 819,720.00
GST	10%	\$ 491,832.00
<b>Grand Total</b>		<b>\$ 5,410,152.00</b>

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- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

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**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 24-05-18  
**Revision:** A  
**Summary of works:** Hewett Rear of Allotment Drainage  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 20,002.50	\$ 20,002.50
<b>Sub-Total</b>						<b>\$ 20,002.50</b>
<b>2.0 Stormwater Drainage</b>						
2.1	150 mm uPVC		m	90	\$ 230.00	\$ 20,700.00
2.2	225 mm uPVC		m	90	\$ 305.00	\$ 27,450.00
2.3	300 mm uPVC		m	40	\$ 380.00	\$ 15,200.00
2.4	Concrete grated inlet pit		Each	7	\$ 2,500.00	\$ 17,500.00
<b>Sub-Total</b>						<b>\$ 80,850.00</b>
<b>3.0 Miscellaneous</b>						
3.1	Formation of easement	3 m wide	Each	7	\$ 7,500.00	\$ 52,500.00
<b>Sub-Total</b>						<b>\$ 52,500.00</b>

<b>Sub-total</b>		<b>\$ 153,352.50</b>
Contingency	20%	\$ 30,670.50
GST	10%	\$ 18,402.30
<b>Grand Total</b>		<b>\$ 202,425.30</b>

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- Changes in scope
- Market conditions (i.e. competition, escalation)
- No allowance for approvals for these works
- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

**These estimates are to be considered as indicative only, and are not purported to represent anything more than an indication of the cost of the scope of the work.**

Tonkin Consulting recommend that an appropriately qualified quantity surveyor be consulted to provide detailed market cost inputs.

**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Evanston Oval parallel pipe upgrade  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 23,353.50	\$ 23,353.50
<b>Sub-Total</b>						<b>\$ 23,353.50</b>
<b>2.0 Stormwater Drainage</b>						
2.1	1050 mm RCP		m	118	\$ 1,155.00	\$ 136,290.00
2.2	1500 sq Junction Box		Each	2	\$ 3,700.00	\$ 7,400.00
2.3	Headwall replacement		Each	2	\$ 1,000.00	\$ 2,000.00
<b>Sub-Total</b>						<b>\$ 145,690.00</b>
<b>3.0 Miscellaneous</b>						
3.1	Oval irrigation replacement		Item	1	\$ 10,000.00	\$ 10,000.00
<b>Sub-Total</b>						<b>\$ 10,000.00</b>

<b>Sub-total</b>		<b>\$ 179,043.50</b>
Contingency	20%	\$ 35,808.70
GST	10%	\$ 21,485.22
<b>Grand Total</b>		<b>\$ 236,337.42</b>

**Note:** Cost estimates provided by Tonkin Consulting are based upon historic cost information and experience, and do not allow for:

- Latent conditions
- Changes in scope
- Market conditions (i.e. competition, escalation)
- No allowance for approvals for these works
- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

**These estimates are to be considered as indicative only, and are not purported to represent anything more than an indication of the cost of the scope of the work.**

**Tonkin Consulting recommend that an appropriately qualified quantity surveyor be consulted to provide detailed market cost inputs.**

**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Gross Pollutant Traps  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 133,650.00	\$ 133,650.00
<b>Sub-Total</b>						<b>\$ 133,650.00</b>
<b>2.0 Gross Pollutant Traps</b>						
2.1	GPT 4900	Supply and installation	Item	1	\$ 120,000.00	\$ 120,000.00
2.2	GPT 4750	Supply and installation	Item	2	\$ 100,000.00	\$ 200,000.00
2.3	GPT 4450	Supply and installation	Item	3	\$ 87,000.00	\$ 261,000.00
2.4	GPT 41350	Supply and installation	Item	1	\$ 170,000.00	\$ 170,000.00
2.5	Excavation works		Each	7	\$ 20,000.00	\$ 140,000.00
<b>Sub-Total</b>						<b>\$ 891,000.00</b>
<b>3.0 Miscellaneous</b>						
3.1	GPT annual operation and maintenance		Item/year	7	\$ 200.00	\$ 1,400.00
<b>Sub-Total</b>						<b>Cost/year \$ 1,400.00</b>

<b>Sub-total (excluding annual costs)</b>		<b>\$ 1,024,650.00</b>
Contingency	20%	\$ 204,930.00
GST	10%	\$ 122,958.00
<b>Grand Total (excluding annual costs)</b>		<b>\$ 1,352,538.00</b>

**Note:**

**Cost estimates provided by Tonkin Consulting are based upon historic cost information and experience, and do not allow for:**

- Latent conditions
- Changes in scope
- Market conditions (i.e. competition, escalation)
- No allowance for approvals for these works
- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

**These estimates are to be considered as indicative only, and are not purported to represent anything more than an indication of the cost of the scope of the work.**

**Tonkin Consulting recommend that an appropriately qualified quantity surveyor be consulted to provide detailed market cost inputs.**

**CONSTRUCTION COST ESTIMATE**



**Project:** Gawler SMP  
**Job No:** 20141387  
**Date:** 04-04-18  
**Revision:** A  
**Summary of works:** Raingardens  
**Estimated:** MM  
**Review:** TAK

Item No	Description	Comment	Unit	Qty	Rate	Cost
<b>1.0 Preliminaries</b>						
1.1	Preliminaries	Assumed to be 15% of estimate	Item	1	\$ 45,000.00	\$ 45,000.00
<b>Sub-Total</b>						<b>\$ 45,000.00</b>
<b>2.0 Raingardens</b>						
2.1	Streetscape raingarden		Item	15	\$ 20,000.00	\$ 300,000.00
<b>Sub-Total</b>						<b>\$ 300,000.00</b>
<b>3.0 Miscellaneous</b>						
3.1	Raingarden maintenance		Item/year	15	\$ 300.00	\$ 4,500.00
<b>Sub-Total</b>						<b>Cost/year \$ 4,500.00</b>

<b>Sub-total (excluding annual costs)</b>		<b>\$ 345,000.00</b>
Contingency	20%	\$ 69,000.00
GST	10%	\$ 41,400.00
<b>Grand Total (excluding annual costs)</b>		<b>\$ 455,400.00</b>

**Note:**

**Cost estimates provided by Tonkin Consulting are based upon historic cost information and experience, and do not allow for:**

- Latent conditions
- Changes in scope
- Market conditions (i.e. competition, escalation)
- No allowance for approvals for these works
- No allowance for site contamination and remediation or disposal of contaminated material
- No allowance for land acquisition
- No allowance has been made for the staging of these works
- No allowance has been made for landscaping works
- No allowance has been made for service deepthing, liaison with service authorities, design of service relocations
- No allowance has been made for project delivery costs including project management
- Calculations assume clay soil and no rock will be encountered

**These estimates are to be considered as indicative only, and are not purported to represent anything more than an indication of the cost of the scope of the work.**

**Tonkin Consulting recommend that an appropriately qualified quantity surveyor be consulted to provide detailed market cost inputs.**