

Jf: 34576

24th January 2024

Blacktown City Council PO Box 63 BLACKTOWN NSW 2148

Attention: Mr Dennis Bagnall, Manager Developer Contributions

RE: BLACKTOWN CP20 BASINS COST ESTIMATES

As requested, we have reviewed WT Partnership's Peer Review (WTP), dated 12 December 2023 of our Cost Estimates dated 8 March 2023 and provide our following response:

- Our previous March 2023 estimates have been updated to reflect rates current in December 2023 so the base date is the same as WTP's;
- Escalation to expected construction dates is excluded. Contributions will be indexed from December 2023 until the date a developer pays the contributions;
- The bulk earthwork quantities that have been used are based on the expected volumes
 of the basins calculated by Council's engineers. We have maintained the quantities as
 previously advised;
- We have reviewed the amened rates provided by WTP and agree the tip fee rate for VENM is low. We have increased the rates for this is our estimate to reflect current market rates. It should be noted this rate is lower than the rate proposed by WTP.
 Please see the attached updated estimate;
- We have reviewed our March 2023 and increased the following rates to reflect current market prices:
 - Tip fee rate for VENM;
 - Rate of stormwater pipework;
 - o Rate for reinforced concrete box culverts (RCBC's);
 - Rate for macrophyte tubestock planting;
 - Rate for trees.

If required please organise a meeting between Council, IPART, WTP and us to discuss the variances and decide on the best way to reach an agreement.

Should you require further information and details, please contact the undersigned.

Yours faithfully
MITCHELL BRANDTMAN

MATTHEW KRITZLER Partner



MitchellBrandtman

5D Quantity Surveyors & Construction Expert Opinion

Blacktown Basins Cost Estimate

Blacktown Basins Cost Estimate

Prepared for: Blacktown City Council Contact: Phone:

Mr Matthew Kritzler 1800 808 289

Email: Date: Issue: mkritzler@mitbrand.com 25 January 2024

1 **SUMMARY**

As requested, we have prepared a Cost Estimate for the basins within the Blacktown City Council area based upon the available documentation.

Based on current market rates the estimated cost for the works listed below in the summary is inclusive of preliminaries, margin, professional fees and contingency and exclusive of escalation and GST.

We note that the estimate should be considered as indicative only at this stage for the purposes of preparing a budget for a feasibility study or contribution plan and that prior to finalising any design or agreements, detailed estimates should be prepared base on further developed design information.

2 MAIN SUMMARY OF CONSTRUCTION COSTS

Refer to Attachment 1 for full details of our detailed cost estimate

<u>ltem</u>	<u>E4.14</u> <u>Jacqui Ave</u> <u>Total</u>	E14.1 Albert St Total	<u>F19.1</u> <u>Hamilton St</u> <u>Total</u>	<u>F23.1</u> <u>Woodland St</u> <u>Total</u>	<u>F24.1</u> <u>Victoria St</u> <u>Total</u>
Soil And Water Management	\$17,175	\$16,245	\$23,725	\$17 ,570	\$49 ,620
Earthworks	\$3,847,673	\$7,778,832	\$13,5 <mark>98,434</mark>	\$3,53 <mark>9</mark> ,177	<mark>\$7,69</mark> 8,612
Drainage	\$709,921	\$979,094	\$1,995,613	\$9 <mark>32</mark> ,024	\$1,3 14,983
Raingarden	\$486,250	\$415,815	\$669,362	\$521,287	\$2 ,030,918
Landscaping	\$863,931	\$926,776	\$1,237,513	\$970,023	\$3,359,065
Preliminaries (10%)	\$592,500	\$1,011,700	\$1,752,500	\$598,1 <mark>00</mark>	\$1,445,400
Margin (8%)	\$521,400	\$890,300	\$1,542,200	\$526,300	\$1,271,900
CONSTRUCTION TOTAL (Excl. Design, Contingency and GST)	\$7,038,850	\$12,018,762	\$20,819,347	\$7,104,481	\$17,170,498
Project Management (3.5%)	\$246,400	\$420,700	\$728,700	\$248,700	\$601,000
Design (10%)	\$703,900	\$1,201,900	\$2,081,900	\$710,400	\$1,717,000
Contingency (15%)	\$1,198,400	\$2,046,200	\$3,544,500	\$1,209,500	\$2,923,300
Escalation – From December 2023	Excluded	Excluded	Excluded	Excluded	Excluded
TOTAL EXCLUDING GST AND ESCALATION	\$9,187,550	\$15,687,562	\$27,174,447	\$9,273,081	\$22,411,798

3 SUMMARY OF CONSTRUCTION COSTS

E4.14 - Jacqui Avenue Basin

<u>ltem</u>	<u>E4.14</u> <u>Jacqui Ave</u> <u>Total</u>	<u>E4.14</u> <u>Jacqui Ave</u> <u>Basin</u>	<u>E4.14</u> <u>Jacqui Ave</u> <u>Bio-retention</u>	<u>E4.14</u> <u>Jacqui Ave</u> <u>GPT</u>
Soil And Water Management	\$17,175	\$17,175	\$0	\$0
Earthworks	\$3 <mark>,847,673</mark>	\$3,838,211	\$9,4 <mark>62</mark>	\$0
Drainage	\$ <mark>7</mark> 09,921	\$303,887	\$140,034	\$266,000
Raingarden	\$486,250	\$0	\$486,250	\$0
Landscaping	\$863,931	\$781,899	\$82,032	\$0
Preliminaries (10%)	\$592,500	\$494,200	\$71,800	\$2 6,600
Margin (8%)	\$521,400	\$434, <mark>700</mark>	\$63,200	\$23 ,500
CONSTRUCTION TOTAL (Excl. Design, Contingency and GST)	\$7,038,850	\$5,870,072	\$852,778	\$316,100
Project Management (3.5%)	\$246,400	\$205, <mark>500</mark>	\$29,800	<mark>\$1</mark> 1,100
Design (10%)	\$703,900	\$587, <mark>000</mark>	\$85,300	\$31,600
Contingency (15%)	\$1 <mark>,198,400</mark>	\$999, <mark>400</mark>	\$145,200	\$53,800
Escalation – From December 2023	Exc <mark>luded</mark>	Excluded	Excluded	Excluded
TOTAL EXCLUDING GST AND ESCALATION	\$9,187,550	\$7,661,972	\$1,113,078	\$412,600

E14.1 – Albert St Basin

<u>ltem</u>	E14.1 Albert St Total	E14.1 Albert St Basin	<u>E14.1</u> <u>Albert St</u> <u>Bio-retention</u>	E14.1 Albert St GPT
Soil And Water Management	\$16,245	\$16,245	\$0	\$0
Earthworks	\$7 <mark>,778,832</mark>	<mark>\$7</mark> ,741,056	\$37,776	\$0
Drainage	\$979,094	\$449,912	\$174, <mark>182</mark>	\$355,000
Raingarden	\$415,815	\$0	\$415,815	\$0
Landscaping	\$926,776	\$859,312	\$67,464	\$0
Preliminaries (10%)	\$1,011,700	\$906,700	\$69,600	\$35,500
Margin (8%)	\$890,300	\$797, <mark>900</mark>	\$61,200	\$31,200
CONSTRUCTION TOTAL (Excl. Design, Contingency and GST)	\$12,018,762	\$10,771,125	\$826,037	\$412,700
Project Management (3.5%)	\$420,700	\$376, <mark>900</mark>	\$28,900	\$14,800
Design (10%)	\$1 <mark>,201,900</mark>	\$1 ,077, <mark>100</mark>	\$82,600	\$42,200
Contingency (15%)	\$2,046,200	\$1 ,833, <mark>700</mark>	\$140,600	\$71,800
Escalation – From December 2023	Excluded	Excluded	Excluded	Excluded
TOTAL EXCLUDING GST AND ESCALATION	\$15,687,562	\$14,058,825	\$1,078,137	\$550,500

E19.1 - Hamilton St Basin

<u>ltem</u>	E19.1 Hamilton St Total	E19.1 Hamilton St Basin	E19.1 Hamilton St Bio-retention	E19.1 Hamilton St GPT
Soil And Water Management	\$23,725	\$23,725	\$0	\$0
Earthworks	\$13 <mark>,598,434</mark>	\$13 ,479,382	\$119,052	\$0
Drainage	\$1 <mark>,995,613</mark>	\$899,756	\$30,857	\$1,065,000
Raingarden	\$669,362	\$0	\$669,362	\$0
Landscaping	\$1 <mark>,237,513</mark>	\$1 ,128,631	\$108,882	\$0
Preliminaries (10%)	\$1,752,500	\$1,553,200	\$92,900	\$106,400
Margin (8%)	\$1,542,200	\$1 ,366, <mark>600</mark>	\$81,700	\$93,800
CONSTRUCTION TOTAL (Excl. Design, Contingency and GST)	\$20,819,347	\$18,451,294	\$1,102,753	\$1,265,200
Project Management (3.5%)	\$728,700	\$645, <mark>700</mark>	\$38,600	\$44 ,300
Design (10%)	\$2,081,900	\$1 ,845, <mark>100</mark>	\$110,300	\$126,500
Contingency (15%)	\$3,554,500	\$3,141, <mark>3</mark> 00	\$187,700	\$21 5,400
Escalation – From December 2023	Exc <mark>luded</mark>	Excluded	Excluded	Excluded
TOTAL EXCLUDING GST AND ESCALATION	\$27,174,447	\$24,083,394	\$1,439,353	\$1,651,400

E23.1 - Woodland St Basin

<u>ltem</u>	E23.1 Woodland St Total	E23.1 Woodland St Basin	E23.1 Woodland St Bio-retention	E23.1 Woodland St GPT
Soil And Water Management	\$17,570	\$17,570	\$0	\$0
Earthworks	\$3 <mark>,539,177</mark>	\$3 ,522,005	\$17,172	\$0
Drainage	\$932,024	\$503,584	\$73, <mark>440</mark>	\$355,000
Raingarden	\$ <mark>521,287</mark>	\$0	\$521,287	\$0
Landscaping	\$970,023	\$880,090	\$89,933	\$0
Preliminaries (10%)	\$598,100	\$492,400	\$70,200	\$35,400
Margin (8%)	\$526,300	\$433,300	\$61,800	\$31,200
CONSTRUCTION TOTAL (Excl. Design, Contingency and GST)	\$7,104,481	\$5,848,949	\$833,832	\$421,600
Project Management (3.5%)	\$248,700	\$204, <mark>700</mark>	\$29,200	\$14 ,800
Design (10%)	\$710,400	\$584, <mark>900</mark>	\$83,400	\$42,200
Contingency (15%)	\$1 <mark>,209,500</mark>	\$995,800	\$142,000	\$71,800
Escalation – From December 2023	Excluded	Excluded	Excluded	Excluded
TOTAL EXCLUDING GST AND ESCALATION	\$9,273,081	\$7,634,349	\$1,088,432	\$550,400

E24.1 - Victoria St Basin

<u>ltem</u>	<u>E24.1</u> <u>Victoria St</u> <u>Total</u>	E24.1 <u>Victoria St</u> <u>Basin</u>	E24.1 Victoria St Bio-retention	E24.1 Victoria St GPT
Soil And Water Management	\$49,620	\$49,620	\$0	\$0
Earthworks	\$7 <mark>,698,612</mark>	\$7 ,549,794	\$148,818	\$0
Drainage	\$1 <mark>,314,983</mark>	\$ 438,886	\$166, <mark>097</mark>	\$710,000
Raingarden	\$2,030,918	\$0	\$2,030,918	\$0
Landscaping	\$3 <mark>,359,065</mark>	\$3 ,041,862	\$317,203	\$0
Preliminaries (10%)	\$1,445,400	\$1,108,100	\$266,400	\$70,900
Margin (8%)	\$1,271,900	\$975, <mark>100</mark>	\$234,400	\$62,400
CONSTRUCTION TOTAL (Excl. Design, Contingency and GST)	\$17,170,498	\$13,163,362	\$3,163,836	\$843,300
Project Management (3.5%)	\$601,000	\$460, <mark>800</mark>	\$110,700	\$2 <mark>9</mark> ,500
Design (10%)	\$1,717,000	\$1,316, <mark>300</mark>	\$316,400	\$ <mark>84</mark> ,300
Contingency (15%)	\$2,923,300	\$2,241, <mark>100</mark>	\$538,600	\$14 3,600
Escalation – From December 2023	Excluded	Excluded	Excluded	Excluded
TOTAL EXCLUDING GST AND ESCALATION	\$22,411,798	\$17,181,562	\$4,129,536	\$1,100,700

4 INFORMATION USED

The following information has been used in the preparation of this cost estimate:

- Blacktown City Council CP20 Detention Basin E4.14, revision 1, dated 25 September 2018;
- Blacktown City Council CP20 Basin E14.2, Bioretention E14.3 & GPT E14.4, revision 0, dated 25 August 2022;
- Blacktown City Council Riverstone Alex Avenue, revision A, dated 1 December 2009;
- Blacktown City Council Woodland S Basin CP20 F23 Option 1, revision 1, dated 28 March 2022;
- Blacktown City Council CP20 Basin F24 Victoria Street Riverstone, revision 0, dated 5
 October 2022;

5 SCHEDULE OF EXCLUSIONS

The following exclusions have been made in the preparation of this cost estimate:

- Land costs, legal and stamp duty;
- Legal fees, taxes and duties;
- Finance and related fees and charges;
- Authority fees and contributions;
- Excavation in rock:
- Works beyond site boundaries;
- Escalation beyond December 2023, except for stage 2 of the raingarden construction;
- GST.

6 SCHEDULE OF ASSUMPTIONS

The following assumptions have been made in the preparation of this cost estimate:

- Work will be tendered on a competitive basis;
- Earthworks quantities;
- Remediation allowances have been based on similar Council and Landcom works to Scheduled Lands;
- Raingardens will be built in two stages, with the second stage being built 5-10 years after stage 1 is complete;
- Bioretention filter composition based on previous detailed design projects in Blacktown Council municipality;
- Road frontages will require fencing or bollards to stop vehicles entering sites;



- Estimate cost based on Option 1 for Basin 5 (Woodland St)
- Allowances for landscaping is based on similar projects;
- Watering and maintenance of landscaped areas is required for 3 years;
- Preliminaries at 10% and margin at 8%;
- Project management at 3.5%;
- Design at 10%;
- Contingency at 15%.

Yours Sincerely

MITCHELL BRANDTMAN

Matthew Kritzler Partner

Attachment 1 - Cost Estimates



Description	E4.14 Jacqui Ave Total	E4.14 Jacqui Ave Basin	E4.14 Jacqui Ave Bio-retention	E4.14 Jacqui Ave GPT
SOIL AND WATER MANAGEMENT	\$17,175	\$17,175	\$0	\$0
EARTHWORKS	\$3,847,673	\$3,838,211	\$9,462	\$0
DRAINAGE	\$709,921	\$303,887	\$140,034	\$266,000
RAINGARDEN	\$486,250	\$0	\$486,250	\$0
LANDSCAPING	\$863,931	\$781,899	\$82,032	\$0
PRELIMINARIES (10%)	\$592,500	\$494,200	\$71,800	\$26,600
MARGIN (8%)	\$521,400	\$434,700	\$63,200	\$23,500
Construction Total (Excl. Design, Contingency and GST)	\$7,038,850	\$5,870,072	\$852,778	\$316,100
PROJECT MANAGEMENT (3.5%)	\$246,400	\$205,500	\$29,800	\$11,100
DESIGN (10%)	\$703,900	\$587,000	\$85,300	\$31,600
CONTINGENCY (15%)	\$1,198,400	\$999,400	\$145,200	\$53,800
ESCALATION - From December 2023	Excluded	Excluded	Excluded	Excluded
Construction Total (Excl. GST and Escalation)	\$9,187,550	\$7,661,972	\$1,113,078	\$412,600



Description	E14.1 Albert St Total	E14.1 Albert St Basin	E14.1 Albert St Bio-retention	E14.1 Albert St GPT
SOIL AND WATER MANAGEMENT	\$16,245	\$16,245	\$0	\$0
EARTHWORKS	\$7,778,832	\$7,741,056	\$37,776	\$0
DRAINAGE	\$979,094	\$449,912	\$174,182	\$355,000
RAINGARDEN	\$415,815	\$0	\$415,815	\$0
LANDSCAPING	\$926,776	\$859,312	\$67,464	\$0
PRELIMINARIES (10%)	\$1,011,700	\$906,700	\$69,600	\$35,500
MARGIN (8%)	\$890,300	\$797,900	\$61,200	\$31,200
Construction Total (Excl. Design, Contingency and GST)	\$12,018,762	\$10,771,125	\$826,037	\$421,700
PROJECT MANAGEMENT (3.5%)	\$420,700	\$376,900	\$28,900	\$14,800
DESIGN (10%)	\$1,201,900	\$1,077,100	\$82,600	\$42,200
CONTINGENCY (15%)	\$2,046,200	\$1,833,700	\$140,600	\$71,800
ESCALATION - From December 2023	Excluded	Excluded	Excluded	Excluded
Construction Total (Excl. GST and Escalation)	\$15,687,562	\$14,058,825	\$1,078,137	\$550,500



Description	F19.1 Hamilton St Total	F19.1 Hamilton St Basin	F19.1 Hamilton St Bio-retention	F19.1 Hamilton St GPT
SOIL AND WATER MANAGEMENT	\$23,725	\$23,725	\$0	\$0
EARTHWORKS	\$13,598,434	\$13,479,382	\$119,052	\$0
DRAINAGE	\$1,995,613	\$899,756	\$30,857	\$1,065,000
RAINGARDEN	\$669,362	\$0	\$669,362	\$0
LANDSCAPING	\$1,237,513	\$1,128,631	\$108,882	\$0
PRELIMINARIES (10%)	\$1,752,500	\$1,553,200	\$92,900	\$106,400
MARGIN (8%)	\$1,542,200	\$1,366,600	\$81,700	\$93,800
Construction Total (Excl. Design, Contingency and GST)	\$20,819,347	\$18,451,294	\$1,102,753	\$1,265,200
PROJECT MANAGEMENT (3.5%)	\$728,700	\$645,700	\$38,600	\$44,300
DESIGN (10%)	\$2,081,900	\$1,845,100	\$110,300	\$126,500
CONTINGENCY (15%)	\$3,544,500	\$3,141,300	\$187,700	\$215,400
ESCALATION - From December 2023	Excluded	Excluded	Excluded	Excluded
Construction Total (Excl. GST and Escalation)	\$27,174,447	\$24,083,394	\$1,439,353	\$1,651,400



Description	F23.1 Woodland St Total	F23.1 Woodland St Basin	F23.1 Woodland St Bio-retention	F23.1 Woodland St GPT
SOIL AND WATER MANAGEMENT	\$17,570	\$17,570	\$0	\$0
EARTHWORKS	\$3,539,177	\$3,522,005	\$17,172	\$0
DRAINAGE	\$932,024	\$503,584	\$73,440	\$355,000
RAINGARDEN	\$521,287	\$0	\$521,287	\$0
LANDSCAPING	\$970,023	\$880,090	\$89,933	\$0
PRELIMINARIES (10%)	\$598,100	\$492,400	\$70,200	\$35,400
MARGIN (8%)	\$526,300	\$433,300	\$61,800	\$31,200
Construction Total (Excl. Design, Contingency and GST)	\$7,104,481	\$5,848,949	\$833,832	\$421,600
PROJECT MANAGEMENT (3.5%)	\$248,700	\$204,700	\$29,200	\$14,800
DESIGN (10%)	\$710,400	\$584,900	\$83,400	\$42,200
CONTINGENCY (15%)	\$1,209,500	\$995,800	\$142,000	\$71,800
ESCALATION - From December 2023	Excluded	Excluded	Excluded	Excluded
Construction Total (Excl. GST and Escalation)	\$9,273,081	\$7,634,349	\$1,088,432	\$550,400



Description	F24.1 Victoria St Total	F24.1 Victoria St Basin	F24.1 Victoria St Bio-retention	F24.1 Victoria St GPT
SOIL AND WATER MANAGEMENT	\$49,620	\$49,620	\$0	\$0
EARTHWORKS	\$7,698,612	\$7,549,794	\$148,818	\$0
DRAINAGE	\$1,314,983	\$438,886	\$166,097	\$710,000
RAINGARDEN	\$2,030,918	\$0	\$2,030,918	\$0
LANDSCAPING	\$3,359,065	\$3,041,862	\$317,203	\$0
PRELIMINARIES (10%)	\$1,445,400	\$1,108,100	\$266,400	\$70,900
MARGIN (8%)	\$1,271,900	\$975,100	\$234,400	\$62,400
Construction Total (Excl. Design, Contingency and GST)	\$17,170,498	\$13,163,362	\$3,163,836	\$843,300
PROJECT MANAGEMENT (3.5%)	\$601,000	\$460,800	\$110,700	\$29,500
DESIGN (10%)	\$1,717,000	\$1,316,300	\$316,400	\$84,300
CONTINGENCY (15%)	\$2,923,300	\$2,241,100	\$538,600	\$143,600
ESCALATION - From December 2023	Excluded	Excluded	Excluded	Excluded
Construction Total (Excl. GST and Escalation)	\$22,411,798	\$17,181,562	\$4,129,536	\$1,100,700



E4.14 Jacqui Ave, Schofield Cost Estimate - January 2024

ADMINISTRATION	DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL	Basin	Bio-retention	GPT
Supplementary and common and common common common common common and common										
Secretary and the secretary of the secre										
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Section Sect		1	Item	\$	1,600.00	\$				
Address of the Control of Contr	TOTAL SOIL AND WATER MANAGEMENT					\$	17,175.00	\$ 17,175.00	\$ -	\$ -
Address of the Control of Contr	FARTHWORKS									
The content of the		1	Item	\$	75,000.00	\$	75,000.00	\$ 75,000.00		
Section of management 1,000		1				\$		\$ 65,000.00		
Gard Bell	Clear and grub	14,910	m ²	\$	3.50	\$		\$ 52,185.00		
California Cal	Strip topsoil and stockpile		m ³	\$	7.00	\$				
To bear (1994). 1994.										
Table 1967 170 1										
Table 1976 1986										
Security of the property of							-			
Time and compared more delations 1,577	Tip fees (GSW special ACM including PPE, suppression, air monitors and hygienists) - 10%		t	\$	285.00	\$	1,122,900.00	\$ 1,122,900.00		
To an exponent selection of the company of the comp	Respread topsoil to depth onsite		m ³		10.00	\$		\$ 29,820.00		
Company Comp									\$ 9,462.00	
Common C		730	m ²	\$	12.00	\$			6 0 100 5	•
Exercise for remorbes and structures in all classes of materials, supply, and materials and common part as specified (TOTAL EARTHWORKS					Þ	3,047,673.00	φ 3,038,Z11.00	9,462.00	•
Exercise for remorbes and structures in all classes of materials, supply, and materials and common part as specified (DRAINAGE			+		 				
Seconds a style Second S	Excavate for trenches and structures in all classes of material, supply, bed, lay, joint									
South miles MPC	and backfill stormwater pipes			-						
378mm os. RR22		105		•	470.00	•	20.052.25	¢ 00.050.05		
225mm dis RRI2										
Signature Security				7		-				
## STATE OF THE PRINCE OF THE										
Secure 10 10 10 10 10 10 10 10		14					5,460.00	\$ 5,460.00		
CECY Vergoeicon	900mm dia. RRJ2	30	m	\$	560.00	\$	16,800.00	\$ 16,800.00		
Exercises and actions of materials, supply all materials and construct RCSC culvert (microbia) have able to detail: 1										
includes has ask the detail 2000 3000m Circles and Section (supply all materials and construct standard drainage structures standard structures standard drainage structures standard st		209	m	\$	8.00	\$	1,672.00	\$ 1,672.00		
2500 3.000mm RGBC										
Exervate in all classes of materials, supply all materials and construct standard dimage arthrections childing sub-ordinage connections and trench drainage for childings are details. **Total Content of the Content o		5	m	\$	3,475.00	\$	17,375.00	\$ 17,375.00		
drainage structures including sub-ool drainage connections and trench drainage facilities to detail. 1 No. 5 4,000.00 \$ 4,000.00 \$ 5,000.00 \$		14	m	\$	3,530.00	\$	49,420.00	\$ 49,420.00		
Machine Mach										
Soboletin marked particles lested pt										
Cauton per 2 No \$ 20,000 \$ 40,000 \$ 40,000 \$ \$ 40,000 \$ \$ \$ \$ \$ \$ \$ \$ \$		1	No.	\$	4,000.00	\$	4,000.00	\$ 4,000.00		
Structural and Extension of pits Excavation in all Executation all Executation and Control Executation in all Executation and Control Executation and Control Executation in all Executation and Control Executation and Control Executation and Control Executation and Control E	900x900mm Junction pit	8	No.	\$	4,500.00	\$	36,000.00			
Executation in al Classes of material, supply all materials and construct bioretention plate including sub-necification and trends of training conditions are supplied to the sub-necification of the supplied conditions are supplied to the supplied conditions and trends of training conditions are supplied to the supplied conditions										
Including sub-soil drainage connections and trench drainage facilities to detail:	Structural certification of pits	11	Each	\$	170.00	\$	1,870.00	\$ 1,870.00		
Secure from from 1 1										
Boretentino nate pt 3 No. \$ 6,000 \$ 20,000 \$ 20,000 \$ 6,000	including sub-soil drainage connections and trench drainage facilities to detail:									
Bertention sulted pt 1	Raingarden Outlet Pit combined system (3no. Precast 900x900 GSIP)									
Seventeriou upflow pt S										
225mm dai uPVC pipe.										
Construct 150mm concrete gorn surrounding pt to detail 121 m² \$ 140.00 \$ 16,440.00 \$ 1,145.00 \$										
150mm Lean mix concrete (5%) 11,495.00 \$ 11,495.00 \$ 3,300.00 \$ 3,300.00 \$ 3,300.00 \$ 5,300.00 \$ 5,300.00 \$ 5,300.00 \$ 5,300.00 \$ 5,300.00 \$ 5,000.00										
150mm Cement stabilised crushed granite 44										
150mm da slotted UPVC ppe subsoil drain including rodding eyes as required.		44		\$	75.00	\$	3,300.00		\$ 3,300.00	
Flash point including temporary concrete collar and connecting to subsoil with 150mm dia. non-slotted pipe Stated pipe Sta										
Soluted pipe Faccavate in all classes of material, supply all materials, and construct rock headwalls complete (including rock erosion protection) to detail for: Faccavate in all classes of material, supply all materials, and construct rock headwalls complete (including rock erosion protection) to detail for: Faccavate in all classes of material, supply all materials, and construct rock headwall to accommodate 240 x 900mm RCBC 1 Item \$ 9,500.00 \$ 9,500.00 \$ 1,800.		202	m	\$	42.00	\$			\$ 8,484.00	
Excavate in all classes of materials, supply all materials, and construct rock headwalls complete (including rock erosion protection) to detail forc:		7	No	\$	175.00	\$	1,225.00		\$ 1,225.00	
Complete (including rock erosion protection) to detail for: Precast concrete headwall to accommodate 240 y 900mm RGBC				T						
Precast concrete headwall to accommodate 600mm RCP	complete (including rock erosion protection) to detail for:									
Scour protection										
Pool Fence powder coated edutux 30 m \$ 350.00 \$ 10,500.00 \$ 10,500.00 \$ 266,000.00										
Construct GPT Supply and construct gross pollutant trap Rocia GPT CDS1012 incl. access platform and clearing at the time of Practical Completion TOTAL DRAINAGE \$ 133,000.00 \$ 266,000.00 \$ 266,000.00 \$ 266,00						\$				
Supply and place temporary sediment basin 1,067 m² 1,248 m² 1,000 1,248 m² 1,	1 con time powder codica datas	30		Ψ	550.00	Ť	.0,000.00	- 10,300.00		
Comparing at the time of Practical Completion 2 No. 3 200,000.00	Supply and construct gross pollutant trap Rocla GPT CDS1012 incl. access platform and	2	No	¢	133 000 00	s	266 000 00			\$ 266,000,00
Stage 1: Interin Raingarden	cleaning at the time of Practical Completion	2	140	Ψ	. 55,000.00		,	é 200.00T	6 (10.001	,
Stage 1: Interim Raingarden	TOTAL DRAINAGE					>	709,921.00	\$ 303,887.00	\$ 140,034.00	\$ 266,000.00
Stage 1: Interim Raingarden	RAINGARDEN			+						
Tim and grade temporary sediment basin							1			
Supply and place finer to, detail including:		1,067	m ²	\$	4.50	\$	4,801.50		\$ 4,801.50	
SIDIM A44* geoteatile liner (Temporary)	Supply and place liner to detail including:							-		
"BIDIM A44" geotextile liner (2 layers) 1,248										
Supply and place Drainage Layer (Aggregate (200mm thick)]										
Supply and place Transition Layer [Coarse Sand (250mm thick)] 267 m³ \$ 190.00 \$ 50,730.00 \$ 50,730.00 Supply and place recycled sand/loam media (150mm thick) 161 m³ \$ 210.00 \$ 33,810.00 \$ 33,810.00 Supply and place sacrificial governous carrificial turf layer 1,067 m² \$ 12,00 \$ 12,804.00 \$ 12,804.00 Supply and place sacrificial turf layer 1,067 m² \$ 12,00 \$ 12,804.00 \$ 12,804.00 Stage 2: Ultimate Raingarden 1 Item \$ 10,670.00 \$ 10,670.00 \$ 10,670.00 Supply and place liner to detail including: 1 Item \$ 190.00 \$ 91,390.00 \$ 91,390.00 Supply and place Transition Layer (Coarse Sand (450mm thick)) 481 m³ \$ 190.00 \$ 91,390.00 \$ 91,390.00 Supply and place Transition Layer (Coarse Sand (450mm thick)) 534 m³ \$ 210.00 \$ 112,140.00 \$ 112,140.00 Planting of bioretention garden (measured in Landscaping) Note \$ 60,000.00 \$ 60,000.00 \$ 60,000.00										
Supply and place recycled sand/loam media (150mm thick) 161 m³ \$ 210.00 \$ 33,810.00 \$ 33,810.00 \$ Supply and place sacrificial type										
Supply and place sacrificial geotextile layer										
Supply and place sacrificial turt layer				_						
Remove interim geotextile, filter media and washed turf layer 1 Item \$ 10,670.00 \$ 10,670.00 Supply and place liner to detail including: 5 Supply and place finer to detail including: 5 Supply and place recycled sand/loam media (500mm thick) 481 m³ \$ 190.00 \$ 91,390.00 \$ 91,390.00 Supply and place recycled sand/loam media (500mm thick) 534 m³ \$ 210.00 \$ 112,140.00 \$ 112,140.00 Planting of bioretention garden (measured in Landscaping) Note 5 1 <t< td=""><td>Supply and place sacrificial turf layer</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Supply and place sacrificial turf layer									
Supply and place liner to detail including: 481 m³ 190.00 \$ 91,390.00 \$ 91,390.00 Supply and place Transition Layer (Coorse excycled sand/loam media (500mm thick) 534 m³ \$ 210.00 \$ 112,140.00 \$ 112,140.00 Planting of bioretention garden (measured in Landscaping) Note Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3% p.a. after initial Stage 1 completion) 1 Item \$ 60,000.00 \$ 60,000.00 \$ 60,000.00								-		
Supply and place Transition Layer [Coarse Sand (450mm thick)]		1	Item	\$	10,670.00	\$	10,670.00		\$ 10,670.00	
Supply and place recycled sand/loam media (500mm thick) 534 m³ \$ 210.00 \$ 112,140.00 \$ 112,140.00 Planting of bioretention garden (measured in Landscaping) Note Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3% p.a. after initial Stage 1 completion) 1 Item \$ 60,000.00 \$ 60,000.00 \$ 60,000.00		40.	2		400.05		04 000 07		e 01000	
Planting of bioretention garden (measured in Landscaping) Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3% 1 ltem \$60,000.00 \$60,000.00 \$ \$60,000.00 \$ \$60,000.00 \$										
Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3% p.a. after initial Stage 1 completion) \$ 60,000.00 \$ 60,000.00 \$ 60,000.00		354		۳	210.00	Ť	, 140.00		7 12,170.00	
p.a. after initial Stage 1 completion)	Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3%			¢	60 000 00	¢	60,000,00		\$ 60,000,00	
TOTAL RAINGARDEN \$ 486,250.00 \$ - \$ 486,250.00 \$ -	p.a. after initial Stage 1 completion)	1	nem	à	00,000.00		-			
	TOTAL RAINGARDEN					\$	486,250.00	\$ -	\$ 486,250.00	\$ -



E4.14 Jacqui Ave, Schofield Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		\$ 11,928.00 \$ 67.095.00 \$ 67.095.00 \$ 51,215.00 \$ 5 145,962.75 \$ 5 122,916.00 \$ 5 5,335.00 \$ 5 25,342.00 \$ 31,157.00 \$ 46,065.00 \$ \$ 3,879.00 \$ 5 155,160.00 \$ 5 155,160.00 \$ 5 155,160.00 \$ 5 155,160.00 \$ 5 155,160.00 \$ 5		Basin	Bio-retention		GPT
LANDSCAPING											
Preliminaries											
Contractors and suppliers, site establishment, site compound, amenities, insurances,											
sediment and erosion control, WAE survey, disposal of spoil off site. Assuming no	1	Item	\$	10,000.00	\$	10,000.00	\$	8,444.00	\$ 1,556.00		
contamination. Based on one contract for all stages of work			+-		H						
Topsoil	0.000	1	_	4.00	_	44.000.00		44.000.00			
Ameliorate site topsoil	2,982	m ³	\$	4.00	\$,	\$	11,928.00			
Allowance for upgrading existing soil with compost or imported topsoil (say 50%)	1,491	m ³	\$	45.00	\$	67,095.00	\$	67,095.00			
Turf			١.		L.		_				
Subgrade preparation inc cultivation & gypsum	10,243	m ²	\$	5.00	\$. ,	\$	51,215.00			
Import 150mm topsoil (80/20)	1,536	m ³	\$	95.00			\$	145,962.75			
Supply and lay couch turf	10,243	m ²	\$	12.00	\$	122,916.00	\$	122,916.00			
Planting											
<u>Raingarden</u>											
Subgrade preparation inc cultivation & gypsum	1,067	m ²	\$	5.00	\$	-,			\$ 5,335.00		
Import 250mm topsoil (Premium garden mix)	267	m ³	\$	95.00	\$	25,342.00			\$ 25,342.00		
Mulching (75mm)	1,067	m ²	\$	8.00					\$ 8,536.00		
Macrophyte tubestock (Assume 8 per m ²)	8,536	No.	\$	3.65	\$	31,157.00			\$ 31,157.00		
Tree Planting											
Allowance for 100L street tree planting including pit excavation, soil mix, ag line, stakes, trees and mulch	111	No	\$	415.00	\$	46,065.00	\$	46,065.00			
Maintenance Track											
Supply all materials and construct all weather access to detail:											
Trim, grade and compact subgrade to maintenance access track	1,293	m ²	\$	3.00	\$	3,879.00	\$	3,879.00			
150mm Concrete (25MPa) with SL82 Mesh and 30mm sand	1,293	m ²	\$	120.00	\$	155,160.00	\$	155,160.00			
Construct commercial vehicle crossing	6	m	\$	190.00	\$	1,140.00	\$	1,140.00			
Miscellaneous											
Allowance for linemarking						Excluded					
Allowance for fence or bollards on street frontages (approx. 490m)	1	Item	\$	122,500.00	\$	122,500.00	\$	122,500.00			
Floodway signage	4	No	\$	425.00	\$	1,700.00			\$ 1,700.00		
Establishment Maintenance / Defects Liability											
Watering and maintenance for 36 months defects liability period	36	mths	\$	1,500.00	\$	54,000.00	\$	45,594.00	\$ 8,406.00		
Fence											
Allowance for pool fence to perimeter of basin			П			Excluded					
TOTAL: LANDSCAPING					\$	863,931.00	\$	781,899.00	\$ 82,032.00	\$	-
PRELIMINARIES (10%)					\$	592,500.00	\$	494,200.00	\$ 71,800.00	\$	26,600.00
			Г		Г						
MARGIN (8%)					\$	521,400.00	\$	434,700.00	\$ 63,200.00	\$	23,500.00
	TOTAL	CONSTR	СТ	ION WORKS	•	7,038,850.00	•	5.870.072.00	\$ 852,778.00	•	316,100.00



E14.1 Albert St, Riverstone Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL		Basin	Bio-retentio	n		GPT
			-									
SOIL AND WATER MANAGEMENT			†									
Supply all materials and construct sediment control devices, maintain for the duration of the												
contract and remove when instructed, to include but not limited to: Stabilised site access	1	No	\$	5,500.00	\$	5,500.00	\$	5,500.00				
Sediment fence	499	m	\$	15.00	\$	7,485.00	\$	7,485.00				
Geotextile inlet filter	11	No	\$	85.00	\$	935.00	\$	935.00			<u> </u>	
Straw bale Maintenance of soil and erosion control devices	15	No Item	\$	55.00 1,500.00	\$	825.00 1,500.00	\$	825.00 1,500.00			 	
TOTAL SOIL AND WATER MANAGEMENT		II.O.I.	Ť	1,000.00	\$	16,245.00	\$	16,245.00	\$	-	\$	-
EARTHWORKS Demolition or clearing rubbish on site	1	Item	\$	110,000.00	s	110,000.00		110,000.00			 	
Clear and grub	21,900	m ²	\$	3.50		76,650.00	S	76,650.00			 	
Strip topsoil and stockpile	4,380	m ³	\$	7.00	\$	30,660.00	\$	30,660.00				
Cut to fill, spread and compact	133	m ³	\$	14.00	\$	1,862.00	\$	1,862.00				
Cut to stockpile	41,800	m ³	\$	9.00	\$	376,200.00	\$	376,200.00			<u> </u>	
Tip fees (VENM) - 80% Tip fees (GSW) - 10% (based on Council and Landcom work in Scheduled Lands)	66,880 8,360	t	\$	42.00 225.00	\$	2,808,960.00 1,881,000.00	\$	2,808,960.00 1,881,000.00			 	
Tip fees (GSW special ACM including PPE, suppression, air monitors and hygienists) - 10%	8.360	1	\$	285.00	\$	2,382,600.00	s	2,382,600.00				
	.,	-					a a				<u> </u>	
Respread topsoil to depth onsite Trim and compact raingarden and batters	4,380 6,296	m ³	\$	10.00	\$	43,800.00 37,776.00	\$	43,800.00	\$ 37,77	76.00		
Trim and compact channel	123	m ²	\$			1,476.00	\$	1,476.00	O 1,11	0.00		
Construct detention basin	3,481	m ²	\$	8.00	\$	27,848.00	\$	27,848.00				
TOTAL EARTHWORKS			F		\$	7,778,832.00	\$	7,741,056.00	\$ 37,77	76.00	\$	
DRAINAGE			+								 	
Excavate for trenches and structures in all classes of material, supply, bed, lay, joint			T				†					
and backfill stormwater pipes		1	\vdash		-		 				 	
Excavate, supply, bed, lay and joint stormwater pipes as specified: 300mm dia. uPVC	125	m	\$	170.00	\$	21,250.00	\$	21,250.00				
600mm dia. RRJ2	19	m	\$	390.00	\$	7,410.00	\$	7,410.00				
900mm dia. RRJ2	25	m	\$	560.00	\$	14,000.00	\$	14,000.00				
1050mm dia. RRJ2 CCTV inspection	30 74	m	\$	810.00 8.00	\$	24,300.00 592.00	\$	24,300.00 592.00			 	
Excavate in all classes of material, supply all materials and construct RCBC culvert	74	m	- Þ	6.00	Þ	592.00	a a	592.00			 	
including base slab to detail:		<u> </u>	Ļ		<u> </u>						<u> </u>	
1500 x 900mm RCBC 2400 x 900mm RCBC	60 42	m m	\$	3,200.00 3,475.00	\$	192,000.00 145,950.00	\$	192,000.00 145,950.00			 	
Excavate in all classes of material, supply all materials and construct standard	72		Ψ	3,473.00	Ÿ	140,000.00	Ÿ	143,330.00				
drainage structures including sub-soil drainage connections and trench drainage		1		ļ							1	
facilities to detail: Kerb inlet pits			+			Excluded		Excluded				
900x900mm Grated surface inlet pit	3	No.	\$	4,000.00	\$	12,000.00	\$	12,000.00				
Structural certification of pits	3	Each	\$	170.00	\$	510.00	\$	510.00			 	
Excavate in all classes of material, supply all materials and construct bioretention pits		1		ļ							1	
including sub-soil drainage connections and trench drainage facilities to detail:		L		47.500.00		440,000,00				20.00	<u> </u>	
Raingarden Outlet Pit combined system (3no. Precast 900x900 GSIP) Construct 150mm concrete apron surrounding pit to detail	88	No. m ²	\$	17,500.00 140.00	\$	140,000.00 12,320.00			\$ 140,00 \$ 12,32			
150mm Lean mix concrete (5%)	88	m ²	\$	95.00	\$	8,360.00				60.00		
150mm Cement stabilised crushed granite	32	m ²	\$	75.00	\$	2,400.00			\$ 2,40	00.00		
Supply, bed, lay, joint subsoil drainage pipes and structures as required:	004		_	40.00		0.700.00				20.00	 	
150mm dia slotted uPVC pipe subsoil drain including rodding eyes as required. Flush point including temporary concrete collar and connecting to subsoil with 150mm dia. non	231	m	\$	42.00	\$	9,702.00				02.00	├──	
slotted pipe	8	No	\$	175.00	\$	1,400.00			\$ 1,40	00.00	L	
Excavate in all classes of material, supply all materials, and construct rock headwalls complete (including rock erosion protection) to detail for:				l			l					
Precast concrete headwall to accommodate 1500 x 900mm RCBC	1	Item	\$	8,900.00	\$	8,900.00	\$	8,900.00				
Precast concrete headwall to accommodate 2400 x 900mm RCBC	1	Item	\$	9,500.00	\$	9,500.00	\$	9,500.00				
Scour protection	1	Item	\$	3,000.00	\$	3,000.00	\$	3,000.00				
Pool Fence powder coated dulux Construct GPT	30	m	\$	350.00	\$	10,500.00	\$	10,500.00				
Supply and construct gross pollutant trap Rocla GPT CDS3018 incl. access platform and	1	No	¢	355,000.00	\$	355,000.00	t				\$	355,000.00
cleaning at the time of Practical Completion TOTAL DRAINAGE	<u>'</u>	INU	φ	333,000.00	9	979,094.00	•	449,912.00	\$ 174,18	82 PA	•	355,000.00
TOTAL DRAINAGE			-		Þ	979,094.00	Þ	449,912.00	\$ 174,10	52.00	•	355,000.00
<u>RAINGARDEN</u>			匚									
Stage 1: Interim Raingarden			Ļ		Ļ						<u> </u>	
Trim and grade temporary sediment basin Supply and place liner to detail including:	913	m ²	\$	4.50	\$	4,108.50	 		\$ 4,10	08.50	 	
Supply and place liner to detail including: HDPE liner incl. temporary liner	1,105	m²	\$	30.00	\$	33,138.00	l		\$ 33,13	38.00		
"BIDIM A44" A44 geotextile liner (Temporary)	1,052	m ²	\$	5.00	\$	5,260.00			\$ 5,26	60.00		
"BIDIM A44" geotextile liner (2 layers)	1,052	m ²	\$	10.00		10,520.00	ļ			20.00	<u> </u>	
Supply and place Drainage Layer [Aggregate (200mm thick)] Supply and place Transition Layer [Coarse Sand (250mm thick)]	183 229	m ³	\$	205.00 190.00		37,515.00 43,510.00	 			15.00 10.00		
Supply and place recycled sand/loam media (150mm thick)	137	m ³	\$	210.00		28,770.00	†			70.00		
Supply and place sacrificial geotextile layer	913	m ²	\$	7.50	\$	6,847.50			\$ 6,84	47.50		-
Supply and place sacrificial turf layer	913	m ²	\$	12.00	\$	10,956.00	<u> </u>		\$ 10,95	56.00	<u> </u>	
Stage 2: Ultimate Raingarden Remove interim geotextile, filter media and washed turf layer	1	Item	s	9,130.00	s	9,130.00	!		\$ 9.13	30.00	—	
Supply and place liner to detail including:	'	nom.	Ť	0,100.00	Ť	3,130.00	l		- 3,10			
Supply and place Transition Layer [Coarse Sand (450mm thick)]	411	m ³	\$			78,090.00				90.00		-
Supply and place recycled sand/loam media (500mm thick) Planting of bioretention garden (measured in Landscaping)	457	m ³	\$	210.00	\$	95,970.00			\$ 95,97	70.00	<u> </u>	
Exigning of profession garden (measured in Landscaping)		Note									1	
			+-									l l
Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3% p.a. after initial Stage 1 completion) TOTAL RAINGARDEN	1	Item	\$	52,000.00	\$	52,000.00 415,815.00		-	\$ 52,00 \$ 415,8°			



E14.1 Albert St, Riverstone Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL		Basin	Bio	o-retention		GPT
LANDSCAPING												
Preliminaries												
Contractors and suppliers, site establishment, site compound, amenities, insurances, sediment and erosion control, WAE survey, disposal of spoil off site. Assuming no contamination. Based on one contract for all stages of work	1	Item	\$	10,000.00	\$	10,000.00	\$	9,000.00	\$	1,000.00		
Topsoil												
Ameliorate site topsoil	4,380	m ³	\$	4.00	\$	17,520.00	\$	17,520.00				
Allowance for upgrading existing soil with compost or imported topsoil (say 50%)	2,190	m ³	\$	45.00	\$	98,550.00	\$	98,550.00				
Turf												
Subgrade preparation inc cultivation & gypsum	14,178	m ²	\$	5.00	\$	70,890.00	\$	70,890.00				
Import 150mm topsoil (80/20)	2,127	m ³	\$	95.00	\$	202,036.50	\$	202,036.50				
Supply and lay couch turf	14,178	m ²	\$	12.00	\$	170,136.00	\$	170,136.00				
Planting												
Raingarden												
Subgrade preparation inc cultivation & gypsum	913	m ²	\$	5.00	\$	4,565.00			\$	4,565.00		
Import 250mm topsoil (Premium garden mix)	228	m ³	\$	95.00	\$	21,684.00			\$	21,684.00		
Mulching (75mm)	913	m ²	\$	8.00	\$	7,304.00			\$	7,304.00		
Macrophyte tubestock (Assume 8 per m ²)	7,304	No.	\$	3.65	\$	26,660.00			\$	26,660.00		
Tree Planting						•						
Allowance for 100L street tree planting including pit excavation, soil mix, ag line, stakes, trees and mulch	168	No	\$	415.00	\$	69,720.00	\$	69,720.00				
Maintenance Track												
Supply all materials and construct all weather access to detail:												
Trim, grade and compact subgrade to maintenance access track	390	m ²	\$	3.00	\$	1,170.00	\$	1,170.00				
150mm Concrete (25MPa) with SL82 Mesh and 30mm sand	390	m ²	\$	120.00	\$	46,800.00	\$	46,800.00				
Construct commercial vehicle crossing	6	m	\$	190.00	\$	1,140.00	\$	1,140.00				
Miscellaneous												
Allowance for linemarking						Excluded						
Allowance for fence or bollards on street frontages (approx. 495m)	1	Item	\$	123,750.00	\$	123,750.00	\$	123,750.00				
Floodway signage	2	No	\$	425.00	\$	850.00			\$	850.00		
Establishment Maintenance / Defects Liability												
Watering and maintenance for 36 months defects liability period	36	mths	\$	1,500.00	\$	54,000.00	\$	48,599.00	\$	5,401.00		
Fence												
Allowance for pool fence to perimeter of basin						Excluded						
TOTAL: LANDSCAPING					\$	926,776.00	\$	859,312.00	\$	67,464.00	\$	-
PRELIMINARIES (10%)					\$	1,011,700.00	\$	906,700.00	\$	69,600.00	\$	35,500.0
MARGIN (8%)					\$	890,300.00	\$	797,900.00	\$	61,200.00	\$	31,200.00
	TOTAL	CONSTR	LICE	ION MODKE		42.040.703.00		40 774 405 00		020 027 00		424 700-0
	TOTAL	CONSTR	UCI	ION WORKS	- 5	12.018.762.00	5	10,771,125.00	5	826.037.00	5	421,700.0



F19.1 Hamilton St, Riverstone Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL		Basin	Bio-retention		GPT
<u>BEOSKII HOK</u>	QO/MITTI	ONIT				JOBIOTAL		Dasin	Bio-retention		- 01 1
SOIL AND WATER MANAGEMENT			<u> </u>							-	
Supply all materials and construct sediment control devices, maintain for the duration of the					H						
contract and remove when instructed, to include but not limited to:			L		L						
Stabilised site access	1 050	No	\$	5,500.00	\$	5,500.00	\$	5,500.00			
Sediment fence	956 14	m No	\$	15.00 85.00	\$	14,340.00 1,190.00	\$	14,340.00 1,190.00			
Geotextile inlet filter Straw bale	9	No	\$	55.00	\$	495.00	s	495.00			
Maintenance of soil and erosion control devices	1	Item	\$	2,200.00		2,200.00	\$	2,200.00			
TOTAL SOIL AND WATER MANAGEMENT					\$	23,725.00	\$	23,725.00	\$ -	\$	-
EARTHWORKS Demolition or clearing rubbish on site	1	Item	\$	185,000.00	s	185,000.00		185,000.00			
Clear and grub	36,835	m ²	\$	3.50	\$	128,923.00	S	128,923.00			
Strip topsoil and stockpile	7,367	m ³	\$	7.00	\$	51,569.00	\$	51,569.00			
Cut to fill, spread and compact	2,500	m ³	\$	14.00	\$	35,000.00	\$	35,000.00			-
Cut to stockpile	62,600	m ³	\$	8.00	\$	500,800.00	\$	500,800.00			
Tip fees (VENM) - 80%	100,160	t	\$	42.00	\$	4,206,720.00	\$	4,206,720.00			
Tip fees (GSW) - 10% (based on Council and Landcom work in Scheduled Lands)	12,520	t	\$	225.00	\$	2,817,000.00	\$	2,817,000.00			
Tip fees (GSW special ACM including PPE, suppression, air monitors and hygienists) - 10%	12,520	t	\$	285.00	\$	3,568,200.00	\$	3,568,200.00			
Allowance for rataining wall to perimeters due to constricted site (could be over 2m baiabt)	750	m	\$	2,550.00	\$	1,912,500.00	\$	1,912,500.00			-
Allowance for retaining wall to perimeters due to constricted site (could be over 3m height)										1	
Respread topsoil to depth onsite Trim and compact raincarden and batters	7,367 19,842	m³ m²	\$	10.00	\$	73,670.00 119,052.00	\$	73,670.00	\$ 119,052.00	1	
Trim and compact raingarden and batters TOTAL EARTHWORKS	13,042	m	P	0.00	\$	13,598,434.00	\$	13,479,382.00	\$ 119,052.00 \$ 119,052.00	\$	-
. STAL ENGTH ONLO					Ť	,, 1100		,,			
DRAINAGE											
Excavate for trenches and structures in all classes of material, supply, bed, lay, joint			1					-		l	· <u></u>
and backfill stormwater pipes Excavate, supply, bed, lay and joint stormwater pipes as specified:					H						
375mm dia. RRJ2	185	m	\$	250.00	\$	46,250.00	\$	46,250.00		t	
450mm dia. RRJ2	142	m	\$	310.00	\$	44,020.00	\$	44,020.00			-
600mm dia. RRJ2	86	m	\$	390.00	\$	33,540.00	\$	33,540.00			
900mm dia. RRJ2	185	m	\$	560.00	\$	103,600.00	\$	103,600.00			
1050mm dia. RRJ2	344	m	\$	810.00	\$	278,640.00	\$	278,640.00			
CCTV inspection Excavate in all classes of material, supply all materials and construct RCBC culvert	942	m	\$	8.00	\$	7,536.00	\$	7,536.00			
including base slab to detail:											
1500 x 900mm RCBC	29	m	\$	3,135.00	\$	90,915.00	\$	90,915.00			
Excavate in all classes of material, supply all materials and construct standard drainage structures including sub-soil drainage connections and trench drainage											
facilities to detail:											
Kerb inlet pits						Excluded					
900x900mm Grated surface inlet pit	14	No.	\$	4,000.00	\$	56,000.00	\$	56,000.00			
Structural certification of pits	14	Each	\$	170.00	\$	2,380.00	\$	2,380.00			
Excavate in all classes of material, supply all materials and construct bioretention pits											
including sub-soil drainage connections and trench drainage facilities to detail:											
Raingarden Outlet Pit combined system (3no. Precast 900x900 GSIP)	1	No.	\$	17,500.00		17,500.00			\$ 17,500.00		
Construct 150mm concrete apron surrounding pit to detail	11	m ²	\$	140.00	\$	1,540.00			\$ 1,540.00		
150mm Lean mix concrete (5%)	11	m²	\$	95.00	\$	1,045.00			\$ 1,045.00 \$ 300.00		
150mm Cement stabilised crushed granite Supply, bed, lay, joint subsoil drainage pipes and structures as required:	4	m ²	\$	75.00	\$	300.00			\$ 300.00		
150mm dia slotted uPVC pipe subsoil drain including rodding eyes as required.	216	m	\$	42.00	s	9,072.00			\$ 9,072.00		
Flush point including temporary concrete collar and connecting to subsoil with 150mm dia. non-	8	No	\$	175.00	s	1,400.00			\$ 1,400.00		
slotted pipe	Ů	140	۳	173.00	۳	1,400.00			\$ 1,400.00		
Excavate in all classes of material, supply all materials, and construct rock headwalls											
complete (including rock erosion protection) to detail for: Precast concrete headwalls	5	No	s	8,900.00	\$	44,500.00	s	44,500.00		┢	
Scour protection	1	Item	\$	34,155.00	\$	34,155.00	\$	34,155.00		t	
Pool Fence powder coated dulux	65	m	\$	350.00		22,750.00	\$	22,750.00		Ĺ	
Construct GPT			L		L					L	
Supply and construct gross pollutant trap Rocla GPT CDS3018 incl. access platform and cleaning at the time of Practical Completion	3	No	\$	355,000.00	\$	1,065,000.00	l			\$	1,065,000.00
Spillway			t				1			t	
Construct spillway	713	m ²	\$	190.00	\$	135,470.00	\$	135,470.00		L	
TOTAL DRAINAGE					\$	1,995,613.00	\$	899,756.00	\$ 30,857.00	\$	1,065,000.00
DANIGARDEN		1	1							<u> </u>	
RAINGARDEN			1		H		!			⊢	
Stage 1: Interim Raingarden Trim and grade temporary sediment basin	1,486	m ²	\$	4.50	s	6,687.00	-		\$ 6,687.00	⊢	
Supply and place liner to detail including:	1,400	m	٠	4.00	٠	0,007.00	1		\$ 0,067.00	H	
HDPE liner incl. temporary liner	1,651	m ²	\$	30.00	\$	49,518.00	1		\$ 49,518.00	t	
"BIDIM A44" A44 geotextile liner (Temporary)	1,572	m ²	\$	5.00	\$	7,860.00			\$ 7,860.00	L	
"BIDIM A44" geotextile liner (2 layers)	1,572	m ²	\$	10.00		15,720.00			\$ 15,720.00	L	
Supply and place Drainage Layer [Aggregate (200mm thick)]	298	m ³	\$	205.00		61,090.00			\$ 61,090.00	<u> </u>	
Supply and place Transition Layer [Coarse Sand (250mm thick)]	372	m ³	\$	190.00		70,680.00	!		\$ 70,680.00	⊢	
Supply and place recycled sand/loam media (150mm thick)	223 1,486	m ³	\$	210.00 7.50	\$	46,830.00 11,145.00	-		\$ 46,830.00 \$ 11,145.00	⊢	
Supply and place sacrificial geotextile layer Supply and place sacrificial turf layer	1,486	m ²	\$	12.00	\$	17,832.00	1		\$ 11,145.00 \$ 17,832.00	┢	
Stage 2: Ultimate Raingarden	1,700	-00	,	12.00	Ÿ	.7,002.00	1		÷ 17,032.00	t	
Remove interim geotextile, filter media and washed turf layer	1	Item	\$	14,860.00	\$	14,860.00			\$ 14,860.00	T	-
Supply and place liner to detail including:											
Supply and place Transition Layer [Coarse Sand (450mm thick)]	669	m ³	\$	190.00		127,110.00			\$ 127,110.00	L	
Supply and place recycled sand/loam media (500mm thick)	743	m ³	\$	210.00	\$	156,030.00			\$ 156,030.00	<u> </u>	
Planting of bioretention garden (measured in Landscaping) Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3%		Note	1		H		!			⊢	
p.a. after initial Stage 1 completion)	1	Item	\$	84,000.00	\$	84,000.00			\$ 84,000.00		
TOTAL RAINGARDEN					\$	669,362.00	\$	-	\$ 669,362.00	\$	-



24/01/2024

F19.1 Hamilton St, Riverstone Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL		Basin	Bio-r	etention	GPT
<u>LANDSCAPING</u>											
Preliminaries											
Contractors and suppliers, site establishment, site compound, amenities, insurances, sediment and erosion control, WAE survey, disposal of spoil off site. Assuming no contamination. Based on one contract for all stages of work	1	Item	\$	10,000.00	\$	10,000.00	\$	8,691.00	\$	1,309.00	
Topsoil											
Ameliorate site topsoil	7,367	m ³	\$	4.00	\$	29,468.00	\$	29,468.00			
Allowance for upgrading existing soil with compost or imported topsoil (say 50%)	3,684	m ³	\$	45.00	\$	165,780.00	\$	165,780.00			
Turf											
Subgrade preparation inc cultivation & gypsum	14,214	m ²	\$	5.00		71,070.00	\$	71,070.00			
Import 150mm topsoil (80/20)	2,132	m ³	\$	95.00	\$	202,549.50	\$	202,549.50			
Supply and lay couch turf	14,214	m ²	\$	12.00	\$	170,568.00	\$	170,568.00			
Planting											
Raingarden											
Subgrade preparation inc cultivation & gypsum	1,486	m ²	\$	5.00	\$	7,430.00			\$	7,430.00	
Import 250mm topsoil (Premium garden mix)	372	m ³	\$	95.00	\$	35,293.00			\$	35,293.00	
Mulching (75mm)	1,486	m ²	\$	8.00	\$	11,888.00			\$	11,888.00	
Macrophyte tubestock (Assume 8 per m ²)	11,888	No.	\$	3.65	\$	43,392.00			\$	43,392.00	
Tree Planting											
Allowance for 100L street tree planting including pit excavation, soil mix, ag line, stakes, trees and mulch	283	No	\$	415.00	\$	117,445.00	\$	117,445.00			
Maintenance Track											
Supply all materials and construct all weather access to detail:											
Trim, grade and compact subgrade to maintenance access track	1,293	m ²	\$	3.00	\$	3,879.00	\$	3,879.00			
150mm Concrete (25MPa) with SL82 Mesh and 30mm sand	1,293	m ²	\$	120.00	\$	155,160.00	\$	155,160.00			
Construct commercial vehicle crossing	6	m	\$	190.00	\$	1,140.00	\$	1,140.00			
Miscellaneous											
Allowance for linemarking						Excluded					
Allowance for fence or bollards on street frontages (approx. 580m)	1	Item		145,000.00	\$	145,000.00	\$	145,000.00			
Floodway signage	2	No	\$	425.00	\$	850.00			\$	850.00	
Establishment Maintenance / Defects Liability											
Watering and maintenance for 36 months defects liability period	36	mths	\$	1,850.00	\$	66,600.00	\$	57,880.00	\$	8,720.00	
Fence											
Allowance for pool fence to perimeter of basin					_	Excluded					
TOTAL: LANDSCAPING					\$	1,237,513.00	\$	1,128,631.00	\$	108,882.00	\$ •
PRELIMINARIES (10%)					\$	1,752,500.00	\$	1,553,200.00	\$	92,900.00	\$ 106,400.00
MARGIN (8%)					\$	1,542,200.00	\$	1,366,600.00	\$	81,700.00	\$ 93,800.0
	TOTAL	CONSTR	UCT	ION WORKS	\$	20.819.347.00	S	18.451.294.00	\$ 1	.102.753.00	\$ 1.265,200.0



F23.1 Woodland St, Riverstone Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL	Basin		Bio-retention	G	SPT
SOIL AND WATER MANAGEMENT											
Supply all materials and construct sediment control devices, maintain for the duration of the contract and remove when instructed, to include but not limited to:											
Stabilised site access	1	No	\$	5,500.00	s	5,500.00	\$ 5,500.00	1			
Sediment fence	580	m	\$	15.00		8,700.00	\$ 8,700.00	1			
Geotextile inlet filter	15	No	\$	85.00		1,275.00	\$ 1,275.00				
Straw bale	9	No	\$	55.00		495.00	\$ 495.00				
Maintenance of soil and erosion control devices TOTAL SOIL AND WATER MANAGEMENT	1	Item	\$	1,600.00	\$	1,600.00	\$ 1,600.00			•	
TOTAL SOIL AND WATER MANAGEMENT					Þ	17,570.00	\$ 17,570.00	Þ	-	ð	-
EARTHWORKS					T			1			
Demolition or clearing rubbish on site	1	Item	\$	100,000.00	\$	100,000.00	\$ 100,000.00				
Clear and grub	17,865	m ²	\$	3.50	\$	62,528.00	\$ 62,528.00				
Strip topsoil and stockpile	3,573	m ³	\$	7.00	\$	25,011.00	\$ 25,011.00				
Cut to fill, spread and compact	500	m ³	\$	14.00		7,000.00	\$ 7,000.00				
Cut to stockpile	18,500	m ³	\$	8.00	\$	148,000.00	\$ 148,000.00	1			
Tip fees (VENM) - 80%	29,600 3,700	t	\$	42.00 225.00	\$	1,243,200.00 832,500.00	\$ 1,243,200.00 \$ 832,500.00	+			
Tip fees (GSW) - 10% (based on Council and Landcom work in Scheduled Lands)								╁			
Tip fees (GSW special ACM including PPE, suppression, air monitors and hygienists) - 10%	3,700	t	\$	285.00	\$	1,054,500.00	\$ 1,054,500.00				
Respread topsoil to depth onsite	3,573	m ³	\$	10.00	\$	35,730.00	\$ 35,730.00				
Trim and compact raingarden and batters	2,862	m ²	\$	6.00	\$	17,172.00		\$	17,172.00		
Trim and compact channel TOTAL EARTHWORKS	1,128	m ²	\$	12.00	\$	13,536.00 3,539,177.00	\$ 13,536.00 \$ 3,522,005.00		17,172.00	•	
TOTAL EARTHWORKS					>	3,539,177.00	\$ 3,522,005.00	>	17,172.00	\$	•
<u>DRAINAGE</u>			1		H			1			
Excavate for trenches and structures in all classes of material, supply, bed, lay, joint					T			1			
and backfill stormwater pipes			<u> </u>		L			1_			
Excavate, supply, bed, lay and joint stormwater pipes as specified:					_			1			
375mm dia. RRJ2 450mm dia. RRJ2	160 47	m m	\$	250.00 310.00		40,000.00 14,570.00	\$ 40,000.00 \$ 14,570.00	1			
600mm dia. RRJ2	66	m	\$	390.00	\$	25,740.00	\$ 25,740.00	╁			
CCTV inspection	273	m	\$	8.00	\$	2,184.00	\$ 2,184.00	1			
Excavate in all classes of material, supply all materials and construct RCBC culvert			1		Ť	_,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1			
including base slab to detail:					L.						
2400 x 1200mm RCBC Excavate in all classes of material, supply all materials and construct standard	55	m	\$	5,830.00	\$	320,650.00	\$ 320,650.00	1			
drainage structures including sub-soil drainage connections and trench drainage											
facilities to detail:											
Kerb inlet pits					Ļ	Excluded					
900x900mm Grated surface inlet pit	14	No.	\$	4,000.00	-		\$ 56,000.00	-			
Splitter pit Structural certification of pits	1 15	No. Each	\$	13,000.00 170.00	\$	13,000.00 2,550.00	\$ 13,000.00 \$ 2,550.00	+			
	13	Lacii	Ψ	170.00	ű	2,000.00	ψ 2,330.00	1			
Excavate in all classes of material, supply all materials and construct bioretention pits including sub-soil drainage connections and trench drainage facilities to detail:											
	3	No.	\$	17,500.00	\$	52,500.00		s	52,500.00		
Raingarden Outlet Pit combined system (3no. Precast 900x900 GSIP) Construct 150mm concrete apron surrounding pit to detail	33	m ²	\$	140.00		4,620.00		\$	4,620.00		
150mm Lean mix concrete (5%)	33	m ²	\$	95.00	\$	3,135.00		\$	3,135.00		
150mm Cement stabilised crushed granite	12	m ²	\$	75.00	\$	900.00		\$	900.00		
Supply, bed, lay, joint subsoil drainage pipes and structures as required:					Г						
150mm die slotted uPVC pipe subsoil drain including rodding eyes as required.	255	m	\$	42.00	\$	10,710.00		\$	10,710.00		
Flush point including temporary concrete collar and connecting to subsoil with 150mm dia. non-	9	No	\$	175.00	\$	1,575.00		\$	1,575.00		
slotted pipe			+		H			1			
Excavate in all classes of material, supply all materials, and construct sandstone headwalls complete (including rock erosion protection) to detail for:											
								1			
Sandstone log to accommodate 2400 x 1200mm RCBC	1	Item Item	\$	20,700.00 8,190.00		20,700.00 8,190.00	\$ 20,700.00 \$ 8,190.00	1			
Scour protection Construct GPT	'	Itom	Ψ	3,130.00	۳	0,130.00	\$ 0,190.00	1			
Supply and construct gross pollutant trap Rocla GPT CDS3018 incl. access platform and	1	No		355,000.00	\$	355,000.00		1		e	355,000.00
cleaning at the time of Practical Completion	1	140	φ.	JJJ,000.00	<u> </u>			_		Ψ	
TOTAL DRAINAGE					\$	932,024.00	\$ 503,584.00	\$	73,440.00	\$	355,000.00
Stage 1: Interim Raingarden		-	+		H			1			
Trim and grade temporary sediment basin	1,155	m ²	\$	4.50	s	5,197.50		s	5,197.50		
Supply and place liner to detail including:	.,.55		Ť	1.00	Ť	5,101.50		Ť	3,101.30		
HDPE liner incl. temporary liner	1,310	m ²	\$	30.00	\$	39,312.00		\$	39,312.00		
"BIDIM A44" A44 geotextile liner (Temporary)	1,248	m ²	\$	5.00	-	6,240.00		\$	6,240.00	-	
"BIDIM A44" geotextile liner (2 layers)	1,248	m ²	\$	10.00	\$	12,480.00		\$	12,480.00		
Supply and place Drainage Layer [Aggregate (200mm thick)]	231	m ³	\$	205.00		47,355.00		\$	47,355.00		
Supply and place Transition Layer [Coarse Sand (250mm thick)]	289 174	m ³	\$	190.00 210.00		54,910.00 36,540.00		\$	54,910.00 36,540.00		
Supply and place recycled sand/loam media (150mm thick) Supply and place sacrificial geotextile layer	1,155	m ³	\$	7.50				\$	8,662.50		
Supply and place sacrificial turf layer	1,155	m m²	\$	12.00		13,860.00		\$	13,860.00		
Stage 2: Ultimate Raingarden	.,		ľ		Ť	0,000.00		ť	,,,,,,,,,,,,		
Remove interim geotextile, filter media and washed turf layer	1	Item	\$	11,550.00	\$	11,550.00		\$	11,550.00		
Supply and place liner to detail including:											
Supply and place Transition Layer [Coarse Sand (450mm thick)]	520	m ³	\$	190.00		98,800.00		\$	98,800.00		
Supply and place recycled sand/loam media (500mm thick)	578	m ³	\$	210.00	\$			\$	121,380.00		
Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3% p.a. after initial Stage 1 completion)	1	Item	\$	65,000.00	\$	65,000.00		\$	65,000.00		
Planting of bioretention garden (measured in Landscaping)		Note	1		l			1			
TOTAL RAINGARDEN					\$	521,287.00	\$ -	\$	521,287.00	\$	-



F23.1 Woodland St, Riverstone Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL		Basin	Bio	-retention		GPT
LANDSCAPING												
Preliminaries												
Contractors and suppliers, site establishment, site compound, amenities, insurances, sediment and erosion control, WAE survey, disposal of spoil off site. Assuming no contamination. Based on one contract for all stages of work	1	Item	\$	10,000.00	\$	10,000.00	\$	8,478.00	\$	1,522.00		
Topsoil												
Ameliorate site topsoil	3,573	m ³	\$	4.00	\$	14,292.00	\$	14,292.00				
Allowance for upgrading existing soil with compost or imported topsoil (say 50%)	1,787	m ³	\$	45.00	\$	80,415.00	\$	80,415.00				
Turf												
Subgrade preparation inc cultivation & gypsum	11,013	m ²	\$	5.00	\$	55,065.00	\$	55,065.00				
Import 150mm topsoil (80/20)	1,652	m ³	\$	95.00	\$	156,935.25	\$	156,935.25				
Supply and lay couch turf	11,013	m ²	\$	12.00	\$	132,156.00	\$	132,156.00				
Planting												
Raingarden												
Subgrade preparation inc cultivation & gypsum	1,155	m ²	\$	5.00	\$	5,775.00			\$	5,775.00		
Import 250mm topsoil (Premium garden mix)	289	m ³	\$	95.00	\$	27,432.00			\$	27,432.00		
Mulching (75mm)	1,155	m ²	\$	8.00	\$	9,240.00			\$	9,240.00		
Macrophyte tubestock (Assume 8 per m ²)	9,240	No.	\$	3.65	\$	33,726.00			\$	33,726.00		
Tree Planting												
Allowance for 100L street tree planting including pit excavation, soil mix, ag line, stakes, trees and mulch	134	No	\$	415.00	\$	55,610.00	\$	55,610.00				
Maintenance Track												
Supply all materials and construct all weather access to detail:												
Trim, grade and compact subgrade to maintenance access track	1,707	m ²	\$	3.00	\$	5,121.00	\$	5,121.00				
150mm Concrete (25MPa) with SL82 Mesh and 30mm sand	1,707	m ²	\$	120.00	\$	204,840.00	\$	204,840.00				
Construct commercial vehicle crossing	6	m	\$	190.00	\$	1,140.00	\$	1,140.00				
Miscellaneous												
Allowance for linemarking						Excluded						
Allowance for fence or bollards on street frontages (approx. 420m)	1	Item	\$	105,000.00	\$	105,000.00	\$	105,000.00				
Floodway signage	3	No	\$	425.00	\$	1,275.00			\$	1,275.00		
Establishment Maintenance / Defects Liability												
Watering and maintenance for 36 months defects liability period	36	mths	\$	2,000.00	\$	72,000.00	\$	61,037.00	\$	10,963.00		
Fence												
Allowance for pool fence to perimeter of basin						Excluded						
TOTAL: LANDSCAPING					\$	970,023.00	\$	880,090.00	\$	89,933.00	\$	-
PRELIMINARIES (10%)					\$	598,100.00	\$	492,400.00	\$	70,200.00	\$	35,400.0
MARGIN (8%)					\$	526,300.00	\$	433,300.00	\$	61,800.00	\$	31,200.0
	TOTAL	CONSTR	UCT	ION WORKS	s	7,104,481.00	s	5.848.949.00	s	833.832.00	s	421.600.0



F24.1 Victoria Street Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL	Basin	Bio-retention	GPT
SOIL AND WATER MANAGEMENT									
Supply all materials and construct sediment control devices, maintain for the duration of the									
contract and remove when instructed, to include but not limited to: Stabilised site access	1	No	\$	5,500.00	s	5,500.00	\$ 5,500.00		
Sediment fence	2,400	m	\$	15.00		36,000.00	\$ 36,000.00		
Geotextile inlet filter	22	No	\$	85.00	\$	1,870.00	\$ 1,870.00		
Straw bale	30	No	\$	55.00			\$ 1,650.00		
Maintenance of soil and erosion control devices	1	Item	\$	4,600.00	\$	4,600.00	\$ 4,600.00		
TOTAL SOIL AND WATER MANAGEMENT					\$	49,620.00	\$ 49,620.00	\$ -	\$ -
EARTHWORKS					H				
Demolition or clearing rubbish on site	1	Item	\$	175,000.00	s	175,000.00	\$ 175,000.00		
Clear and grub	85,600	m ²	\$	3.50	\$	299,600.00	\$ 299,600.00		
Strip topsoil and stockpile	17,120	m ³	\$	7.00	\$		\$ 119,840.00		
Cut to fill, spread and compact	11,335	m ³	\$	14.00	\$		\$ 158,690.00		
Excavation in shale	2,440	m ³	\$	16.00	\$		\$ 39,040.00		
Disposal of surplus VENM from site	36,505	m ³	\$	8.00	\$		\$ 292,040.00		
Tip fees (VENM) - 80%	58,408	t	\$	42.00	\$	2,453,136.00	\$ 2,453,136.00		
Tip fees (GSW) - 10% (based on Council and Landcom work in Scheduled Lands)	7,301	t	\$	225.00	\$	1,642,725.00	\$ 1,642,725.00		
Tip fees (GSW special ACM including PPE, suppression, air monitors and hygienists) - 10%	7,301	t	\$	285.00	\$	2,080,785.00	\$ 2,080,785.00		-
Respread topsoil to depth onsite	17,120		\$	10.00	\$	171,200.00	\$ 171,200.00		
Trim and compact raingarden and batters	24,803	m ³	\$	6.00	\$		Ψ 171,200.00	\$ 148,818.00	
Trim and compact raingarden and batters Trim and compact channel	1,516	m ²	\$	12.00	\$		\$ 18,192.00	+ 140,010.00	
Construct detention basins	16,591	m ²	\$	6.00	-	99,546.00	\$ 99,546.00		
TOTAL EARTHWORKS	-,		Ľ		\$	7,698,612.00	\$ 7,549,794.00	\$ 148,818.00	\$ -
					Г				
DRAINAGE			F		L				
Excavate for trenches and structures in all classes of material, supply, bed, lay, joint		1							
and backfill stormwater pipes Excavate, supply, bed, lay and joint stormwater pipes as specified:			\vdash		H			}	
375mm dia. RRJ2	120	m	\$	250.00	s	30,000.00	\$ 30,000.00		
450mm dia. RRJ2	135	m	\$	310.00	\$		\$ 41,850.00		
600mm dia. RRJ2	31	m	\$	390.00	\$		\$ 12,090.00		
675mm dia. RRJ2	220	m	\$	355.00	\$		\$ 78,100.00		
750mm dia. RRJ2	66	m	\$	440.00	\$	29,040.00	\$ 29,040.00		
1200mm dia. RRJ2	80	m	\$	1,020.00	\$	81,600.00	\$ 81,600.00		
CCTV inspection	652	m	\$	8.00	\$	5,216.00	\$ 5,216.00		
Excavate in all classes of material, supply all materials and construct standard									
drainage structures including sub-soil drainage connections and trench drainage facilities to detail:									
900x900mm Grated surface inlet pit	18	No.	\$	4,000.00	\$	72,000.00	\$ 72,000.00		
Splitter pit	1	No.	\$	13,000.00	\$	13,000.00	\$ 13,000.00		
Custom pit	3	No	\$	16,000.00	\$	48,000.00	\$ 48,000.00		
Structural certification of pits	22	Each	\$	170.00	\$	3,740.00	\$ 3,740.00		
Excavate in all classes of material, supply all materials and construct bioretention pits									
including sub-soil drainage connections and trench drainage facilities to detail:									
Raingarden Outlet Pit combined system (3no. Precast 900x900 GSIP)	6	No.	\$	17,500.00	\$	105,000.00		\$ 105,000.00	
225mm dia uPVC pipe.	27	m	\$	110.00	\$	2,970.00		\$ 2,970.00	
Construct 150mm concrete apron surrounding pit to detail	66	m ²	\$	140.00				\$ 9,240.00	
150mm Lean mix concrete (5%)	66	m ²	\$	95.00	\$	6,270.00		\$ 6,270.00	
150mm Cement stabilised crushed granite	24	m ²	\$	75.00	\$	1,800.00		\$ 1,800.00	
Supply, bed, lay, joint subsoil drainage pipes and structures as required:	054		_	40.00	_	05.740.00		A 05.740.00	
150mm dia slotted uPVC pipe subsoil drain including rodding eyes as required.	851	m	\$	42.00	\$	35,742.00		\$ 35,742.00	
Flush point including temporary concrete collar and connecting to subsoil with 150mm dia. non- slotted pipe	29	No	\$	175.00	\$	5,075.00		\$ 5,075.00	
Excavate in all classes of material, supply all materials, and construct rock headwalls					Г				
complete (including rock erosion protection) to detail for:									
Precast concrete headwall to accommodate 2 x 1500mm RCP	1	Item	\$	16,000.00			\$ 16,000.00		
Scour protection	1	Item	\$	3,000.00			\$ 3,000.00		
Pool Fence powder coated dulux Construct GPT	15	m	\$	350.00	\$	5,250.00	\$ 5,250.00	}	
Supply and construct gross pollutant trap Rocla GPT CDS3018 incl. access platform and	_		_	255 000 00	_	740 000 5-			e 7100
cleaning at the time of Practical Completion	2	No	\$	355,000.00	\$				\$ 710,000.
TOTAL DRAINAGE			Г		\$	1,314,983.00	\$ 438,886.00	\$ 166,097.00	\$ 710,000.
DANIO ADDEN			1		1				
RAINGARDEN		-	\vdash		\vdash				
Stage 1: Interim Raingarden Trim and grade temporary sediment basin	4,511	m ²	\$	4.50	s	20.299.50		\$ 20,299,50	
	4,011	m	٩	4.50	٠	20,299.00		÷ 20,295.50	
Supply and place liner to detail including: HDPE liner incl. temporary liner	5,046	m ²	\$	30.00	\$	151,389.00		\$ 151,389.00	
"BIDIM A44" A44 geotextile liner (Temporary)	4,806	m ²	\$	5.00		24,030.00		\$ 24,030.00	
"BIDIM A44" geotextile liner (2 layers)	4,806	m ²	\$	10.00	\$	48,060.00		\$ 48,060.00	
Supply and place Drainage Layer [Aggregate (200mm thick)]	903	m ³	\$	205.00				\$ 185,115.00	
Supply and place Transition Layer [Coarse Sand (250mm thick)]	1,128	m ³	\$	190.00				\$ 214,320.00	
Supply and place recycled sand/loam media (150mm thick)	677	m ³	\$	210.00				\$ 142,170.00	
Supply and place sacrificial geotextile layer	4,511	m ²	\$	7.50				\$ 33,832.50	
Supply and place sacrificial turf layer	4,511	m ²	\$	12.00	\$	54,132.00		\$ 54,132.00	
Stage 2: Ultimate Raingarden	1	Itom	s	45,110.00	s	45,110.00		\$ 45,110.00	
Remove interim geotextile, filter media and washed turf layer Supply and place liner to detail including:	1	Item	Þ	40,110.00	Þ	45,110.00		45,110.00	
Supply and place liner to detail including: Supply and place Transition Layer [Coarse Sand (450mm thick)]	2,030	m ³	\$	190.00	s	385.700.00		\$ 385,700.00	
Supply and place transition Layer [Coarse Sand (430mm thick)] Supply and place recycled sand/loam media (500mm thick)	2,256	m ³	\$	210.00		,		\$ 473,760.00	
Planting of bioretention garden (measured in Landscaping)	_,_50	Note	Ť		Ť	2,. 22.30			
Escalation on ultimate raingarden and planting (estimated at 5-10 years - say 7 years at 3%	1	Item	\$	253,000.00	\$	253,000.00		\$ 253,000,00	
p.a. after initial Stage 1 completion) TOTAL RAINGARDEN	'	1.6111	Ģ	200,000.00					
TOTAL RAINGARDEN					\$	2,030,918.00	> -	\$ 2,030,918.00	3 -



F24.1 Victoria Street Cost Estimate - January 2024

DESCRIPTION	QUANTITY	UNIT		RATE		SUBTOTAL		Basin	Bio	-retention		GPT
LANDSCAPING												
Preliminaries												
Contractors and suppliers, site establishment, site compound, amenities, insurances,			١.		١.		١.					
sediment and erosion control, WAE survey, disposal of spoil off site. Assuming no	1	Item	\$	12,500.00	\$	12,500.00	\$	10,876.00	\$	1,624.00		
contamination. Based on one contract for all stages of work Topsoil			+-		-		1					
Ameliorate site topsoil	17,120	m ³	\$	4.00	\$	68.480.00	\$	68.480.00				
Allowance for upgrading existing soil with compost or imported topsoil (say 50%)	8,560		\$	45.00	\$	385.200.00	s	385.200.00				
	0,000	m ³	ф	45.00	à	305,200.00	Þ	305,200.00				
Turf	54.000	2	-		_			055 450 00				
Subgrade preparation inc cultivation & gypsum	51,030	m ²	\$	5.00		255,150.00	\$	255,150.00				
Import 150mm topsoil (80/20)	7,655	m ³	\$	95.00	•	727,177.50	\$	727,177.50				
Supply and lay couch turf	51,030	m ²	\$	12.00	\$	612,360.00	\$	612,360.00				
Planting			1		<u> </u>		└					
Raingarden			1		1		L					
Subgrade preparation inc cultivation & gypsum	4,511	m ²	\$	5.00	٠.	22,555.00			\$	22,555.00		
Import 250mm topsoil (Premium garden mix)	1,128	m ³	\$	95.00	\$	107,137.00			\$	107,137.00		
Mulching (75mm)	4,511	m ²	\$	8.00		36,088.00			\$	36,088.00		
Macrophyte tubestock (Assume 8 per m²)	36,088	No.	\$	3.65	\$	131,722.00			\$	131,722.00		
Tree Planting												
Allowance for 100L street tree planting including pit excavation, soil mix, ag line, stakes, trees	649	No	s	415.00	\$	269.335.00	s	269.335.00				
and mulch			۳	110.00	Ť	200,000.00	Ť					
Maintenance Track			4-									
Supply all materials and construct all weather access to detail:												
Trim, grade and compact subgrade to maintenance access track	3,740	m ²	\$	3.00		11,220.00	_	11,220.00				
150mm Concrete (25MPa) with SL82 Mesh and 30mm sand	3,740	m ²	\$	120.00	\$	448,800.00	\$	448,800.00				
Construct commercial vehicle crossing	6	m	\$	190.00	\$	1,140.00	\$	1,140.00				
Miscellaneous												
Allowance for linemarking						Excluded						
Allowance for fence or bollards on street frontages (approx. 570m)	1	Item	\$	142,500.00	\$	142,500.00	\$	142,500.00				
Allowance for linemarking						Excluded						
Floodway signage	4	No	\$	425.00	\$	1,700.00			\$	1,700.00		
Establishment Maintenance / Defects Liability			L		L		L					
Watering and maintenance for 36 months defects liability period	36	mths	\$	3,500.00	\$	126,000.00	\$	109,623.00	\$	16,377.00		
Fence												
Allowance for pool fence to perimeter of basin						Excluded						
TOTAL: LANDSCAPING					\$	3,359,065.00	\$	3,041,862.00	\$	317,203.00	\$	-
PRELIMINARIES (10%)			-		S	1,445,400.00	\$	1,108,100.00		266.400.00	•	70.900.0
FRELIMINARIES (10%)					Þ	1,445,400.00	à	1,100,100.00	*	200,400.00	4	70,900.0
MARGIN (8%)					\$	1,271,900.00	\$	975,100.00	\$	234,400.00	\$	62,400.0
·												
	TOTAL	L CONSTR	UCT	ION WORKS	S	17.170.498.00	S	13.163.362.00	\$	3.163.836.00	\$	843,300,0