

APPENDIX



Cost Estimates

APPENDIX

I-1 2019 Costing

Langtry Storage Tank						
PIPES	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
	Inlet Pipe though Box Culvert (1.2 x 2.4 m)	Length (m)	210	\$ 4,254	\$ 893,397	
	Outlet Pipe (0.6 m diam.)	Length (m)	60	\$ 486	\$ 29,172	
	Inlet Headwall (OPSD 804.040)	N/A	1	\$ 24,310	\$ 24,310	
	Outlet Headwall (OPSD 804.040)	N/A	1	\$ 6,078	\$ 6,078	
				Sub-Total	\$ 952,957	\$ 1,095,900
TANK	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	
	Tank Excavation	Volume (m ³)	95000	\$ 43	\$ 4,041,558	
	Base Material	Tonne (t)	12540	\$ 30	\$ 381,061	
	Concrete Bottom (pour-in-place)	Volume (m ³)	5700	\$ 486	\$ 2,771,354	
	Exterior Walls (rebar & concrete)	Volume (m ³)	984	\$ 1,945	\$ 1,913,207	
	Interior Walls (rebar & concrete)	Volume (m ³)	984	\$ 1,945	\$ 1,913,207	
	Precast Top	Volume (m ³)	5700	\$ 2,431	\$ 13,856,771	
	Pumps	Unit	2	\$ 91,163	\$ 182,326	
Access Port	Unit	2	\$ 18,233	\$ 36,465		
				Sub-Total	\$ 25,095,950	\$ 28,860,342
Erosion and Sedimentation Controls	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	
	Sediment Fence	Length (m)	1070	\$ 24	\$ 26,012	
	Mud Mat	lump sum	1	\$ 9,724	\$ 9,724	
	Creek Diversion Pumping	lump sum	1	\$ 6,078	\$ 6,078	
	Check Dams	Unit	5	\$ 3,039	\$ 15,194	
	Sediment Trap	Unit	1	\$ 6,078	\$ 6,078	
	Clearing & Grubbing	lump sum	1	\$ 16,409	\$ 16,409	
				Sub-Total	\$ 79,494	\$ 91,418
MISCELLANEOUS	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	
	Storm Outlet to be Removed	Unit	1	\$ 6,078	\$ 6,078	
	Mobilization	Unit	1	\$ 24,310	\$ 24,310	
	Dewatering	Unit	1	\$ 12,155	\$ 12,155	
	Landscaping (Seeding)	Area (m ²)	20080	\$ 34	\$ 683,406	
				Sub-Total	\$ 725,949	\$ 834,841
				Grand Total	\$ 26,854,350	\$ 30,882,502
Notes: Unit costs include supply & installation						

Taplow Creek Flow Diversion to Fourteen Mile Creek						
	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
Excavation	Based on Section A-A ¹	Volume (m ³)	5551	\$ 43	\$ 236,161	
	Based on Section C-C ¹	Volume (m ³)	30398	\$ 43	\$ 1,293,197	
	Based on Section D-D ¹	Volume (m ³)	8764	\$ 43	\$ 372,844	
Grading	Based on Section D-D ¹	Volume (m ³)	8970	\$ 24	\$ 218,057	
				Sub Total	\$ 2,120,259	\$ 2,438,297
Erosion and Sedimentation Controls	Silt Fence	Length (m)	3290	\$ 24	\$ 79,980	
	Clearing and Grubbing	lump sum	1	\$ 36,465	\$ 36,465	
	Mud Mat	each	3	\$ 9,724	\$ 29,172	
	Creek Diversion Pumping	lump sum	1	\$ 60,775	\$ 60,775	
	Check Dams	each	20	\$ 3,039	\$ 60,775	
	Sediment Trap	each	2	\$ 6,078	\$ 12,155	
				Sub Total	\$ 279,323	\$ 321,222
Culvert	14 Mile - CN Spur Line (8.5 x 4.0)	Length (m)	17	\$ 32,800	\$ 557,600	\$ 641,240
				Sub Total	\$ 557,600	\$ 641,240
Miscellaneous	Landscaping Section A-A ¹ - Imported Topsoil and Seed	Area (m ²)	2436	\$ 34	\$ 82,907	
	Landscaping Section C-C ¹ - Imported Topsoil and Seed	Area (m ²)	13440	\$ 34	\$ 457,419	
	Landscaping Section D-D ¹ - Imported Topsoil and Seed	Area (m ²)	11760	\$ 34	\$ 400,242	
	Mobilization and Access	lump sum	1	\$ 60,775	\$ 60,775	
	Dewatering A-A	lump sum	1	\$ 18,233	\$ 18,233	
	Dewatering C-C	lump sum	1	\$ 182,326	\$ 182,326	
	Dewatering D-D	lump sum	1	\$ 182,326	\$ 182,326	
				Sub Total	\$ 1,384,228	\$ 1,591,862
				Total	\$ 4,341,410	\$ 4,992,622

Fourteen Mile Creek Flow Diversion to Bronte Creek						
	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
Pipe Diversion	Microtunnelling, including pipe (2.1 m diameter)	Length (m)	920	\$ 11,547	\$ 10,623,525	
	Microtunnelling, including pipe (2.25 m diameter)	Length (m)	200	\$ 11,547	\$ 2,309,462	
	Open cut, including pipe (1.2 m x 2.4 m box)	Length (m)	10	\$ 4,254	\$ 42,543	
	Jacking Pit and Shaft - 33 m deep	lump sum	1	\$ 3,008,378	\$ 3,008,378	
	Jacking Pit and Shaft - 21 m deep	lump sum	1	\$ 1,914,422	\$ 1,914,422	
	Jacking Pit and Shaft - 11.5 m deep	lump sum	1	\$ 1,048,374	\$ 1,048,374	
	Cast-in-place MH - 33m deep	lump sum	1	\$ 275,768	\$ 275,768	
	Cast-in-place MH - 21 m deep	lump sum	1	\$ 175,489	\$ 175,489	
	Cast-in-place MH - 11.5 m deep	lump sum	1	\$ 96,101	\$ 96,101	
	Inlet Headwall	each	1	\$ 24,310	\$ 24,310	
	Outlet Headwall	each	1	\$ 6,078	\$ 6,078	
				Sub Total	\$ 19,524,449	\$ 22,453,116
Erosion and Sedimentation Controls	Silt Fence	Length (m)	80	\$ 24	\$ 1,945	
	Clearing and Grubbing	lump sum	1	\$ 5,470	\$ 5,470	
	Mud Mat	each	1	\$ 11,820	\$ 11,820	
	Creek Diversion Pumping	lump sum	1	\$ 2,431	\$ 2,431	
				Sub Total	\$ 21,665	\$ 24,915
Miscellaneous	Mobilization and Access	lump sum	1	\$ 303,877	\$ 303,877	
	Landscaping - Imported Top Soil and Seed	Area (m ²)	1	\$ 41	\$ 41	
	Dewatering	lump sum	1	\$ 121,551	\$ 121,551	
				Sub Total	\$ 425,469	\$ 489,289
				Total	\$ 19,971,583	\$ 22,967,320
Notes: 1 - Section number for Creek Works (ref. Appendix C)				Grand Total	\$ 23,755,393	\$ 27,318,702

Culvert Upgrades						
Culverts (New Sizing)	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
	McCraney - Lakeshore (14.64 x 3.96)	Length (m)	24	\$ 70,499	\$ 1,687,402	\$ 1,940,513
	CNR (9.0 x 2.4)	Length (m)	15	\$ 1,215,506	\$ 18,232,594	\$ 20,967,483
				Sub-Total	\$ 19,919,996	\$ 22,907,995
				Grand Total	\$ 19,919,996	\$ 22,907,995
Notes: Costs include supply & installation						

South of Pinegrove					
Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (\$)
Fill	Volume (m ³)	451	\$ 35	\$ 15,788	\$ 18,156
Landscaping	Area (m ²)	501	\$ 28	\$ 14,034	\$ 16,139
Tree Removal	E.A.	17	\$ 400	\$ 6,835	\$ 7,860
Fence removal	Linear foot(ft.)	411	\$ 15	\$ 6,165	\$ 7,089
Fence reinstatement	Linear foot(ft.)	452	\$ 60	\$ 27,125	\$ 31,194
Sub Total			\$ 69,946	\$ 80,437	
West of Glen Oak Drive					
Fill	Volume (m ³)	1173	\$ 35	\$ 41,063	\$ 47,222
Landscaping	Area (m ²)	1984	\$ 28	\$ 55,563	\$ 63,898
Tree Removal	E.A.	68	\$ 400	\$ 27,060	\$ 31,119
Fence removal	Linear foot(ft.)	1627	\$ 15	\$ 24,408	\$ 28,069
Fence reinstatement	Linear foot(ft.)	1790	\$ 60	\$ 107,396	\$ 123,505
Sub Total			\$ 255,490	\$ 293,813	
East of Glen Oak Drive					
Fill	Volume (m ³)	600	\$ 35	\$ 20,987	\$ 24,135
Landscaping	Area (m ²)	1014	\$ 28	\$ 28,381	\$ 32,638
Tree Removal	E.A.	35	\$ 400	\$ 13,822	\$ 15,895
Fence removal	Linear foot(ft.)	831	\$ 15	\$ 12,467	\$ 14,337
Fence reinstatement	Linear foot(ft.)	914	\$ 60	\$ 54,856	\$ 63,084
Sub Total			\$ 130,513	\$ 150,089	
South of Speers Road					
Fill	Volume (m ³)	5506	\$ 35	\$ 192,723	\$ 221,631
Landscaping	Area (m ²)	2786	\$ 28	\$ 78,019	\$ 89,722
Tree Removal	E.A.	95	\$ 400	\$ 37,996	\$ 43,696
Fence removal	Linear foot(ft.)	2285	\$ 15	\$ 34,273	\$ 39,414
Fence reinstatement	Linear foot(ft.)	2513	\$ 60	\$ 150,800	\$ 173,420
Sub Total			\$ 493,811	\$ 567,883	
South of Bridge					
Fill	Volume (m ³)	2913	\$ 35	\$ 101,942	\$ 117,234
Landscaping	Area (m ²)	1704	\$ 28	\$ 47,701	\$ 54,856
Tree Removal	E.A.	58	\$ 400	\$ 23,231	\$ 26,716
Fence removal	Linear foot(ft.)	1397	\$ 15	\$ 20,954	\$ 24,097
Fence reinstatement	Linear foot(ft.)	1537	\$ 60	\$ 92,199	\$ 106,029
Sub Total			\$ 286,027	\$ 328,931	
South of Warminster					
Fill	Volume (m ³)	1057	\$ 35	\$ 36,996	\$ 42,545
Landscaping	Area (m ²)	807	\$ 28	\$ 22,602	\$ 25,992
Tree Removal	E.A.	28	\$ 400	\$ 11,007	\$ 12,658
Fence removal	Linear foot(ft.)	662	\$ 15	\$ 9,929	\$ 11,418
Fence reinstatement	Linear foot(ft.)	728	\$ 60	\$ 43,686	\$ 50,239
Sub Total			\$ 124,219	\$ 142,851	
Grand Total			\$ 1,360,005	\$ 1,564,006	

Table 4.1 – Recommended Alternative Preliminary Cost Summary		
Recommended Alternative	Total Cost (\$M)	With Contingency (\$M)
Fourteen Mile Creek Flow Diversion to Bronte Creek	\$ 19.97	\$ 22.97
Taplow Creek Flow Diversion to Fourteen Mile Creek/Spur Line Culvert Upgrade	\$ 4.34	\$ 4.99
Langtry Park Off-line Storage Tank	\$ 26.85	\$ 30.88
Culvert Upgrades along Fourteen Mile Creek	\$ 19.92	\$ 22.91
On-line Storage	\$ 2.43	\$ 2.80
Berming and Landscaping at Glen Oaks and Main Branch	\$ 1.36	\$ 1.56
Total	\$ 74.87	\$ 86.11

Table 5.1 – Estimated Total Cost (with Contingency) and Flood Risk Benefits (Reduced and Removed Risk - Scenarios 1, 2, 3)				
Scenario	Cost	Storm Event	Properties	Buildings
Scenario 1 – Combined (full alternatives), including Taplow Creek to Fourteen Mile diversion channel, Fourteen Mile Creek Flow Diversion to Bronte Creek, culvert upgrades, Langtry Park Storage Tank, and Berming/Landscaping Upgrades	\$ 86.11	10-Year	92	11
		100-Year	110	39
		Regional	176	157
Scenario 2 – Taplow Creek to Fourteen Mile Creek Diversion channel, culvert upgrades, On-Line Structure, and Berming/Landscaping Upgrades	\$ 29.46	10-Year	9	10
		100-Year	109	42
		Regional	176	166
Scenario 3 – Langtry Park Storage Tank only, with culvert upgrades, and no diversion channel	\$ 53.79	10-Year	101	9
		100-Year	131	56
		Regional	116	70

Table 5.2 – Unitary Costs per Relieved Building by Scenario			
Scenario	Cost (\$M)	Total Regional Storm Buildings Relieved	Cost per Building (\$k)
Scenario 1	\$ 86.11	333	259
Scenario 2	\$ 29.46	342	86
Scenario 3	\$ 53.79	186	289

APPENDIX

I-2 2023 Costing

Langtry Storage Tank						
PIPES	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
	Inlet Pipe though Box Culvert (1.2 x 2.4 m)	Length (m)	210	\$ 4,254	\$ 893,397	
	Outlet Pipe (0.6 m diam.)	Length (m)	60	\$ 486	\$ 29,172	
	Inlet Headwall (OPSD 804.040)	N/A	1	\$ 24,310	\$ 24,310	
	Outlet Headwall (OPSD 804.040)	N/A	1	\$ 6,078	\$ 6,078	
				Sub-Total	\$ 952,957	\$ 1,095,900
TANK	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	
	Tank Excavation	Volume (m ³)	95000	\$ 43	\$ 4,041,558	
	Base Material	Tonne (t)	12540	\$ 30	\$ 381,061	
	Concrete Bottom (pour-in-place)	Volume (m ³)	5700	\$ 486	\$ 2,771,354	
	Exterior Walls (rebar & concrete)	Volume (m ³)	984	\$ 1,945	\$ 1,913,207	
	Interior Walls (rebar & concrete)	Volume (m ³)	984	\$ 1,945	\$ 1,913,207	
	Precast Top	Volume (m ³)	5700	\$ 2,431	\$ 13,856,771	
	Pumps	Unit	2	\$ 91,163	\$ 182,326	
Access Port	Unit	2	\$ 18,233	\$ 36,465		
				Sub-Total	\$ 25,095,950	\$ 28,860,342
Erosion and Sedimentation Controls	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	
	Sediment Fence	Length (m)	1070	\$ 24	\$ 26,012	
	Mud Mat	lump sum	1	\$ 9,724	\$ 9,724	
	Creek Diversion Pumping	lump sum	1	\$ 6,078	\$ 6,078	
	Check Dams	Unit	5	\$ 3,039	\$ 15,194	
	Sediment Trap	Unit	1	\$ 6,078	\$ 6,078	
	Clearing & Grubbing	lump sum	1	\$ 16,409	\$ 16,409	
				Sub-Total	\$ 79,494	\$ 91,418
MISCELLANEOUS	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	
	Storm Outlet to be Removed	Unit	1	\$ 6,078	\$ 6,078	
	Mobilization	Unit	1	\$ 24,310	\$ 24,310	
	Dewatering	Unit	1	\$ 12,155	\$ 12,155	
	Landscaping (Seeding)	Area (m ²)	20080	\$ 34	\$ 683,406	
				Sub-Total	\$ 725,949	\$ 834,841
				Grand Total	\$ 26,854,350	\$ 30,882,502
Notes: Unit costs include supply & installation						

Taplow Creek Flow Diversion to Fourteen Mile Creek						
	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
Excavation	Based on Section A-A ¹	Volume (m ³)	5551	\$ 43	\$ 236,161	
	Based on Section C-C ¹	Volume (m ³)	30398	\$ 43	\$ 1,293,197	
	Based on Section D-D ¹	Volume (m ³)	8764	\$ 43	\$ 372,844	
Grading	Based on Section D-D ¹	Volume (m ³)	8970	\$ 24	\$ 218,057	
				Sub Total	\$ 2,120,259	\$ 2,438,297
Erosion and Sedimentation Controls	Silt Fence	Length (m)	3290	\$ 24	\$ 79,980	
	Clearing and Grubbing	lump sum	1	\$ 36,465	\$ 36,465	
	Mud Mat	each	3	\$ 9,724	\$ 29,172	
	Creek Diversion Pumping	lump sum	1	\$ 60,775	\$ 60,775	
	Check Dams	each	20	\$ 3,039	\$ 60,775	
	Sediment Trap	each	2	\$ 6,078	\$ 12,155	
				Sub Total	\$ 279,323	\$ 321,222
Culvert	14 Mile - CN Spur Line (8.5 x 4.0)	Length (m)	17	\$ 32,800	\$ 557,600	\$ 641,240
				Sub Total	\$ 557,600	\$ 641,240
Miscellaneous	Landscaping Section A-A ¹ - Imported Topsoil and Seed	Area (m ²)	2436	\$ 34	\$ 82,907	
	Landscaping Section C-C ¹ - Imported Topsoil and Seed	Area (m ²)	13440	\$ 34	\$ 457,419	
	Landscaping Section D-D ¹ - Imported Topsoil and Seed	Area (m ²)	11760	\$ 34	\$ 400,242	
	Mobilization and Access	lump sum	1	\$ 60,775	\$ 60,775	
	Dewatering A-A	lump sum	1	\$ 18,233	\$ 18,233	
	Dewatering C-C	lump sum	1	\$ 182,326	\$ 182,326	
	Dewatering D-D	lump sum	1	\$ 182,326	\$ 182,326	
				Sub Total	\$ 1,384,228	\$ 1,591,862
				Total	\$ 4,341,410	\$ 4,992,622

Fourteen Mile Creek Flow Diversion to Bronte Creek						
	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
Pipe Diversion	Microtunnelling, including pipe (2.1 m diameter)	Length (m)	920	\$ 11,547	\$ 10,623,525	
	Microtunnelling, including pipe (2.25 m diameter)	Length (m)	200	\$ 11,547	\$ 2,309,462	
	Open cut, including pipe (1.2 m x 2.4 m box)	Length (m)	10	\$ 4,254	\$ 42,543	
	Jacking Pit and Shaft - 33 m deep	lump sum	1	\$ 3,008,378	\$ 3,008,378	
	Jacking Pit and Shaft - 21 m deep	lump sum	1	\$ 1,914,422	\$ 1,914,422	
	Jacking Pit and Shaft - 11.5 m deep	lump sum	1	\$ 1,048,374	\$ 1,048,374	
	Cast-in-place MH - 33m deep	lump sum	1	\$ 275,768	\$ 275,768	
	Cast-in-place MH - 21 m deep	lump sum	1	\$ 175,489	\$ 175,489	
	Cast-in-place MH - 11.5 m deep	lump sum	1	\$ 96,101	\$ 96,101	
	Inlet Headwall	each	1	\$ 24,310	\$ 24,310	
	Outlet Headwall	each	1	\$ 6,078	\$ 6,078	
				Sub Total	\$ 19,524,449	\$ 22,453,116
Erosion and Sedimentation Controls	Silt Fence	Length (m)	80	\$ 24	\$ 1,945	
	Clearing and Grubbing	lump sum	1	\$ 5,470	\$ 5,470	
	Mud Mat	each	1	\$ 11,820	\$ 11,820	
	Creek Diversion Pumping	lump sum	1	\$ 2,431	\$ 2,431	
				Sub Total	\$ 21,665	\$ 24,915
Miscellaneous	Mobilization and Access	lump sum	1	\$ 303,877	\$ 303,877	
	Landscaping - Imported Top Soil and Seed	Area (m ²)	1	\$ 41	\$ 41	
	Dewatering	lump sum	1	\$ 121,551	\$ 121,551	
				Sub Total	\$ 425,469	\$ 489,289
				Total	\$ 19,971,583	\$ 22,967,320
Notes: 1 - Section number for Creek Works (ref. Appendix C)				Grand Total	\$ 23,755,393	\$ 27,318,702

Culvert Upgrades						
Culverts (New Sizing)	Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (%15)
	McCraney - Lakeshore (14.64 x 3.96)	Length (m)	24	\$ 70,499	\$ 1,687,402	\$ 1,940,513
	CNR (9.0 x 2.4)	Length (m)	15	\$ 1,215,506	\$ 18,232,594	\$ 20,967,483
				Sub-Total	\$ 19,919,996	\$ 22,907,995
				Grand Total	\$ 19,919,996	\$ 22,907,995
Notes: Costs include supply & installation						

South of Pinegrove					
Item	Unit of Measure	Estimated Quantity	Unit Cost (\$)	Total Cost (\$)	With Contingency (\$)
Fill	Volume (m ³)	451	\$ 43	\$ 19,190	\$ 23,988
Landscaping	Area (m ²)	501	\$ 34	\$ 17,058	\$ 21,322
Tree Removal	E.A.	17	\$ 400	\$ 6,835	\$ 7,860
Fence removal	Linear foot(ft.)	411	\$ 15	\$ 6,165	\$ 7,089
Fence reinstatement	Linear foot(ft.)	452	\$ 60	\$ 27,125	\$ 31,194
Sub Total			\$ 76,372	\$	87,828
North of Rebecca Street					
Fill	Volume (m ³)	547	\$ 43	\$ 23,288	\$ 29,110
Landscaping	Area (m ²)	1028	\$ 34	\$ 34,987	\$ 43,734
Tree Removal	E.A.	35	\$ 400	\$ 14,018	\$ 16,121
Fence removal	Linear foot(ft.)	843	\$ 15	\$ 12,644	\$ 14,541
Fence reinstatement	Linear foot(ft.)	927	\$ 60	\$ 55,635	\$ 63,981
Sub Total			\$ 140,573	\$	161,659
South of Speers Road					
Fill	Volume (m ³)	3140	\$ 43	\$ 133,586	\$ 166,983
Landscaping	Area (m ²)	2791	\$ 34	\$ 94,995	\$ 118,744
Tree Removal	E.A.	95	\$ 400	\$ 38,061	\$ 43,770
Fill	Volume (m3)	2289	\$ 15	\$ 34,331	\$ 39,481
Landscaping	Area (m2)	2518	\$ 60	\$ 151,058	\$ 173,716
Sub Total			\$ 452,031	\$	519,836
South of Bridge					
Fill	Volume (m ³)	2696	\$ 43	\$ 114,674	\$ 143,342
Landscaping	Area (m ²)	2396	\$ 34	\$ 81,546	\$ 101,932
Tree Removal	E.A.	82	\$ 400	\$ 32,673	\$ 37,574
Fill	Volume (m3)	1965	\$ 15	\$ 29,471	\$ 33,891
Landscaping	Area (m2)	2161	\$ 60	\$ 129,672	\$ 149,122
Sub Total			\$ 388,035	\$	446,240
South of Rebecca Street					
Fill	Volume (m ³)	1305	\$ 43	\$ 55,518	\$ 69,398
Landscaping	Area (m ²)	1160	\$ 34	\$ 39,480	\$ 49,350
Tree Removal	E.A.	40	\$ 400	\$ 15,818	\$ 18,191
Fill	Volume (m3)	951	\$ 15	\$ 14,268	\$ 16,408
Landscaping	Area (m2)	1046	\$ 60	\$ 62,779	\$ 72,196
Sub Total			\$ 187,863	\$	216,043
Grand Total					
			\$ 1,244,875	\$	1,556,094