



Appendix C

Drawdown Calculations

Premier Gateway Proposed SWM Facility Drawdown Time

Facility	Location	Drainage Area (ha)	Percent Imperviousness	Required Erosion Volume		Discharge		Drawdown Time (hr)
				Unitary Storage (m ³ /imp.ha)	Storage Volume (m ³)	Unitary Discharge (m ³ /s/ha)	Discharge (m ³ /s)	
668	West Branch & Hornby Tributary	5.84	82	250	1197	0.0007	0.004	81
671	West Branch & Hornby Tributary	3.05	90	250	686	0.0007	0.002	89
672	West Branch Tributary	14.05	90	250	3161	0.0007	0.010	89
676	West Branch Tributary	34.39	77	250	6620	0.0007	0.024	76
646	East Branch Tributary	22.59	71	250	4010	0.0007	0.016	70
675	East Branch Tributary	4.20	90	250	945	0.0007	0.003	89
678	East Branch Tributary	26.93	40	250	2693	0.0007	0.019	40
677	East Branch Tributary	4.47	90	250	1006	0.0007	0.003	89
679	West Branch & Hornby Tributary	18.23	65	250	2962	0.0007	0.013	64
681	West Branch & Hornby Tributary	13.63	92	250	3135	0.0007	0.010	91
680	West Branch & Hornby Tributary	6.44	90	250	1449	0.0007	0.005	89
682	West Branch & Hornby Tributary	34.44	87	250	7491	0.0007	0.024	86
683	West Branch & Hornby Tributary	31.91	90	250	7180	0.0007	0.022	89