

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
CC01	1	2.13	19.8	665	32	1.5	100% Gl	BC	237	5	34.8%	19.8%	15.0%	4.3
CC01	2	1.98	17.6	600	33	2.7	100% Gl	BC	237	5	34.0%	17.6%	16.4%	4.2
CC01	3	2.50	17.6	757	33	1.7	100% Gl	BC	237	5	34.0%	17.6%	16.4%	4.2
CC01	4	2.32	0.0	493	47	3.7	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
CC01	5	1.98	1.6	582	34	0.7	100% Gl	BC	237	5	8.0%	1.6%	6.4%	4.7
CC01	6	2.95	13.6	867	34	2.6	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
CC01	7	3.82	12.0	636	60	3.6	100% Gl	BC	237	5	21.5%	12.0%	9.5%	4.6
CC01	8	2.41	14.4	669	36	1.4	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
CC01	9	3.97	15.2	1134	35	2.2	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC01	10	4.35	12.0	1359	32	4.4	100% Gl	BC	237	5	21.5%	12.0%	9.5%	4.6
CC01	11	7.59	6.0	1686	45	1.5	100% Gl	BC	237	5	16.3%	6.0%	10.3%	4.6
CC01	12	0.46	15.2	230	20	0.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC01	13	1.67	15.2	491	34	3.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC01	14	0.83	40.4	244	34	4.0	100% Gl	BC	237	5	53.8%	40.4%	13.4%	4.1
CC01	15	1.17	13.6	344	34	0.9	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
CC01	16	1.64	15.2	455	36	0.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC01	17	2.92	0.4	1042	28	1.4	50% Gl 50% Bg	B	146	5	5.8%	0.4%	5.4%	4.8
CC01	18	0.76	72.0	447	17	2.0	90% Gl 10% Bg	BC	237	5	86.0%	72.0%	14.0%	3.0
CC01	19	0.67	72.0	352	19	0.7	60% Gl 40% Bg	B	146	5	86.0%	72.0%	14.0%	3.0
CC01	20	0.93	80.0	489	19	1.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
CC01	21	3.24	50.0	720	45	1.1	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
CC01	22	1.72	15.2	1011	17	1.2	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC01	23	1.38	15.2	445	31	4.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC02	1	1.31	11.2	524	25	0.5	60% LI 40% Gl	BC	237	5	20.0%	11.2%	8.8%	4.6
CC02	2	1.03	15.2	490	21	2.9	80% LI 20% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC02	3	0.26	29.6	200	13	0.7	100% Gl	BC	237	5	42.5%	29.6%	12.9%	4.3
CC02	4	1.59	14.4	454	35	2.6	70% LI 30% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
CC02	5	0.64	15.2	400	16	1.2	50% LI 50% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC02	6	3.51	14.4	1350	26	1.3	10% LI 90% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
CC02	7	0.33	15.2	194	17	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
CC02	8	5.21	17.6	1929	27	0.6	70% Gl 30% M	B	146	5	35.0%	17.6%	17.4%	4.2
CC02	9	1.74	14.4	497	35	2.9	95% Gl 5% LI	BC	237	5	26.0%	14.4%	11.6%	4.5
CC02	10	2.06	13.6	447	46	0.6	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
CC02	11	0.09	49.6	69	13	3.1	100% Gl	BC	237	5	62.0%	49.6%	12.4%	4.0
CC02	12	2.36	10.0	715	33	1.1	100% Gl	BC	237	5	17.8%	10.0%	7.8%	4.7
CC02	13	2.20	8.4	785	28	2.5	100% Gl	BC	237	5	14.8%	8.4%	6.4%	4.7
CC02	14	1.15	11.2	348	33	1.0	100% Gl	BC	237	5	20.0%	11.2%	8.8%	4.6
CC02	15	2.74	5.6	1370	20	0.3	100% Gl	BC	237	5	15.5%	5.6%	9.9%	4.6
CC02	16	0.67	20.0	372	18	2.9	100% Gl	BC	237	5	30.5%	20.0%	10.5%	4.5
CC02	17	0.89	24.8	254	35	0.3	100% Gl	BC	237	5	33.5%	24.8%	8.7%	4.5
CC02	18	0.38	56.0	380	10	0.5	100% Gl	BC	237	5	68.0%	56.0%	12.0%	3.9
CC02	19	0.29	42.4	181	16	3.8	100% Gl	BC	237	5	54.5%	42.4%	12.1%	4.2
ER01	1	5.92	22.8	1057	56	0.4	100% Bg	AB	144	11	34.0%	22.8%	11.2%	9.6
ER01	2	1.23	50.0	227	54	1.8	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
ER01	3	1.08	15.2	270	40	1.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	4	1.74	15.2	435	40	0.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	5	2.42	15.2	605	40	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	6	0.42	15.2	131	32	0.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	7	0.75	50.0	125	60	0.6	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
ER01	8	0.86	15.2	245	35	0.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	9	0.50	15.2	131	38	1.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	10	1.74	15.2	543	32	0.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	11	0.45	15.2	95	47	5.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	12	2.31	15.2	491	47	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	13	0.31	15.2	96	32	0.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
ER01	14	1.36	50.0	194	70	0.6	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
ER01	15	1.02	45.8	309	33	2.2	100% Bg	AB	144	11	60.5%	45.8%	14.7%	8.3
ER01	16	4.69	50.0	721	65	0.6	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
ER01	17	0.32	36.8	118	27	1.8	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
ER01	18	0.75	40.4	163	46	0.9	100% Bg	AB	144	11	54.5%	40.4%	14.1%	8.6
ER01	19	0.64	56.0	172	37	0.7	100% Bg	AB	144	11	71.0%	56.0%	15.0%	7.6
ER01	20	5.31	10.0	531	100	0.1	100% Bg	AB	144	11	65.0%	10.0%	55.0%	4.9
ER01	21	0.21	32.0	210	10	0.5	100% Bg	AB	144	11	41.0%	32.0%	9.0%	9.7
HC01	1	6.22	15.2	1269	49	3.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	2	2.27	15.2	504	45	4.2	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	3	1.20	15.2	173	69	7.1	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	4	2.49	10.4	415	60	4.2	100% Gl	BC	237	5	18.5%	10.4%	8.1%	4.6
HC01	5	2.50	15.2	500	50	6.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	6	1.32	15.2	197	67	6.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	7	0.70	15.2	159	44	0.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	8	0.52	15.2	70	74	10.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	9	0.66	15.2	160	41	1.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC01	10	1.14	17.6	156	73	7.8	100% Gl	BC	237	5	27.5%	17.6%	9.9%	4.5
HC01	11	1.39	17.6	217	64	3.3	100% Gl	BC	237	5	27.5%	17.6%	9.9%	4.5
HC01	12	3.10	16.4	720	43	3.9	60% Bg, 40% Gl	B	146	5	27.5%	16.4%	11.1%	4.5
HC02	1	0.37	37.3	115	32	0.9	100% Gl	BC	237	5	47.0%	37.3%	9.7%	4.4
HC02	2	2.17	50.4	678	32	0.4	100% Gl	BC	237	5	63.5%	50.4%	13.1%	3.9
HC02	3	0.19	43.2	59	32	0.8	100% Gl	BC	237	5	56.0%	43.2%	12.8%	4.1
HC02	4	0.41	29.2	128	32	5.0	100% Gl	BC	237	5	41.8%	29.2%	12.6%	4.3
HC02	5	2.96	14.8	925	32	2.6	100% Gl	BC	237	5	26.8%	14.8%	12.0%	4.4
HC02	6	1.79	15.2	577	31	1.4	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HC02	7	0.78	12.8	243	32	0.6	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
HC02	8	1.26	11.6	393	32	1.4	100% Gl	BC	237	5	20.8%	11.6%	9.2%	4.6
HC02	9	0.87	13.6	263	33	0.5	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
HC02	10	0.94	12.4	293	32	0.8	100% Gl	BC	237	5	22.3%	12.4%	9.9%	4.6
HC02	11	1.49	13.6	465	32	1.0	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
HC02	12	2.15	12.4	651	33	0.3	100% Gl	BC	237	5	22.3%	12.4%	9.9%	4.6
HC02	13	0.84	11.6	262	32	0.6	100% Gl	BC	237	5	20.8%	11.6%	9.2%	4.6
HC02	14	0.92	12.0	270	34	1.1	100% Gl	BC	237	5	21.5%	12.0%	9.5%	4.6
HC02	15	1.60	13.2	470	34	2.5	100% Gl	BC	237	5	23.8%	13.2%	10.6%	4.5
HC02	16	0.51	14.0	150	34	2.5	100% DI	AB	144	11	25.3%	14.0%	11.3%	9.7
HC02	17	2.36	13.2	715	33	1.1	60% DI 40% Gl	B	146	5	23.8%	13.2%	10.6%	4.5
HC02	18	3.83	14.0	1160	33	3.3	60% Gl 30% DI 10% Bg	AB	144	11	25.3%	14.0%	11.3%	9.7

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
HC02	19	1.52	14.4	460	33	0.1	100% DI	AB	144	11	26.0%	14.4%	11.6%	9.6
HC02	20	0.44	35.2	275	16	1.3	100% GI	BC	237	5	47.0%	35.2%	11.8%	4.3
HC02	21	3.51	14.4	1002	35	0.9	100% GI	BC	237	5	26.0%	14.4%	11.6%	4.5
HC02	22	2.97	14.4	900	33	0.8	100% GI	BC	237	5	26.0%	14.4%	11.6%	4.5
HC02	23	0.40	42.8	160	25	1.1	100% GI	BC	237	5	55.3%	42.8%	12.5%	4.1
HC02	24	0.07	58.4	58	12	1.8	100% GI	BC	237	5	72.5%	58.4%	14.1%	3.6
HC02	25	1.13	45.9	513	22	2.9	100% GI	BC	237	5	59.8%	45.9%	13.9%	4.0
HC02	26	0.34	54.8	170	20	4.8	100% GI	BC	237	5	68.8%	54.8%	14.0%	3.8
HC02	27	0.75	18.0	227	33	5.1	100% Bg	AB	144	11	29.8%	18.0%	11.8%	9.6
HC02	28	0.57	18.0	172	33	2.8	60% DI 40% Bg	AB	144	11	29.8%	18.0%	11.8%	9.6
HC02	29	0.53	40.0	160	33	0.9	100% DI	AB	144	11	50.0%	40.0%	10.0%	9.3
HC02	30	1.48	1.2	462	32	0.3	50% DI 50% Bg	AB	144	11	7.3%	1.2%	6.1%	10.4
HC02	31	2.42	15.2	711	34	1.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HC02	32	2.15	14.4	632	34	3.2	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
HC02	33	0.83	15.2	244	34	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HC02	34	0.30	26.0	88	34	4.5	100% Bg	AB	144	11	38.8%	26.0%	12.8%	9.3
HC02	35	1.00	1.6	333	30	0.8	100% Bg	AB	144	11	8.0%	1.6%	6.4%	10.3
HC02	36	0.44	5.6	440	10	2.1	100% DI	AB	144	11	15.5%	5.6%	9.9%	10.0
HC02	37	1.01	5.2	480	21	2.2	100% Bg	AB	144	11	14.8%	5.2%	9.6%	10.0
HC02	38	3.11	13.6	914	34	0.5	100% GI	BC	237	5	24.5%	13.6%	10.9%	4.5
HC02	39	0.88	11.6	266	33	0.1	100% GI	BC	237	5	20.8%	11.6%	9.2%	4.6
HC03	1	2.24	32.0	1066	21	0.4	100% GI	BC	237	5	54.5%	32.0%	22.5%	3.7
HC03	2	0.80	15.2	258	31	3.1	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
HC03	3	0.13	18.8	76	17	5.3	100% GI	BC	237	5	31.3%	18.8%	12.5%	4.4
HC03	4	1.03	18.8	343	30	2.0	100% GI	BC	237	5	31.3%	18.8%	12.5%	4.4
HC03	5	0.33	36.8	173	19	2.3	100% GI	BC	237	5	50.0%	36.8%	13.2%	4.2
HC03	6	5.16	13.8	1563	33	3.3	100% GI	BC	237	5	24.3%	13.8%	10.5%	4.5
HC03	7	1.81	15.2	583	31	1.5	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
HC03	8	4.36	15.5	1321	33	3.5	70% DI 30% BI	AB	144	11	24.5%	15.5%	9.0%	9.9
HC03	9	1.94	23.3	485	40	1.3	100% BI	AB	144	11	31.3%	23.3%	7.9%	10.0
HC03	10	1.69	12.0	512	33	1.9	100% BI	AB	144	11	21.5%	12.0%	9.5%	9.9
HC03	11	2.51	16.5	627	40	2.8	100% BI	AB	144	11	26.0%	16.5%	9.5%	9.9
HC03	12	1.18	14.0	357	33	0.3	100% BI	AB	144	11	25.3%	14.0%	11.3%	9.7
HC03	13	0.38	18.8	180	21	0.8	100% BI	AB	144	11	31.3%	18.8%	12.5%	9.5
HC03	14	0.13	58.4	56	23	0.7	100% BI	AB	144	11	72.5%	58.4%	14.1%	7.6
HC03	15	0.62	13.6	187	33	1.6	100% BI	AB	144	11	24.5%	13.6%	10.9%	9.7
HC03	16	0.31	21.2	100	31	1.1	100% BI	AB	144	11	32.8%	21.2%	11.6%	9.5
HC03	17	0.12	36.8	75	16	2.2	100% GI	BC	237	5	50.0%	36.8%	13.2%	4.2
HC03	18	0.10	64.0	100	10	0.4	100% GI	BC	237	5	77.0%	64.0%	13.0%	3.6
HC03	19	7.88	8.4	3940	20	3.5	100% GI	BC	237	5	14.8%	8.4%	6.4%	4.7
HC03	20	1.50	2.4	500	30	0.6	100% GI	BC	237	5	9.5%	2.4%	7.1%	4.7
HC04	1	3.59	18.0	897	40	0.6	30% BI 30% Bg 40%	B	146	5	25.3%	18.0%	7.3%	4.6
HC04	2	0.66	13.9	200	33	1.5	100% BI	AB	144	11	22.3%	13.9%	8.4%	10.0
HC04	3	1.20	14.9	363	33	1.0	100% BI	AB	144	11	23.8%	14.9%	8.8%	10.0
HC04	4	5.28	18.0	812	65	1.1	40% Bg 30% GI 30%	B	146	5	26.0%	18.0%	8.0%	4.6
HC04	5	0.62	17.6	182	34	2.6	100% BI	AB	144	11	27.5%	17.6%	9.9%	9.8
HC04	6	1.07	17.6	324	33	0.6	100% BI	AB	144	11	27.5%	17.6%	9.9%	9.8
HC04	7	0.09	38.4	81	11	0.1	100% BI	AB	144	11	50.0%	38.4%	11.6%	9.1
HC04	8	0.34	15.5	79	43	1.5	100% BI	AB	144	11	24.5%	15.5%	9.0%	9.9
HC04	9	0.53	17.6	147	36	1.0	100% BI	AB	144	11	27.5%	17.6%	9.9%	9.8
HC04	10	0.62	17.6	177	35	0.6	100% BI	AB	144	11	27.5%	17.6%	9.9%	9.8
HC04	11	0.91	16.7	325	28	1.6	100% BI	AB	144	11	23.8%	16.7%	7.1%	10.2
HC04	12	2.20	13.2	687	32	0.7	100% BI	AB	144	11	23.8%	13.2%	10.6%	9.8
HC04	13	0.30	15.2	115	26	0.6	100% BI	AB	144	11	27.5%	15.2%	12.3%	9.5
HC04	14	2.79	14.0	734	38	0.3	100% GI	BC	237	5	25.3%	14.0%	11.3%	4.5
HC04	15	3.91	14.0	1221	32	0.8	100% GI	BC	237	5	25.3%	14.0%	11.3%	4.5
HC04	16	0.46	15.2	153	30	1.0	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
HC04	17	2.26	17.6	904	25	0.9	100% GI	BC	237	5	27.5%	17.6%	9.9%	4.5
HC04	18	0.26	21.1	173	15	0.1	100% GI	BC	237	5	31.3%	21.1%	10.2%	4.5
HC04	19	1.30	12.0	361	36	1.5	100% GI	BC	237	5	21.5%	12.0%	9.5%	4.6
HC04	20	0.56	12.0	169	33	2.4	100% GI	BC	237	5	21.5%	12.0%	9.5%	4.6
HC04	21	0.15	17.2	75	20	1.2	100% GI	BC	237	5	28.3%	17.2%	11.1%	4.5
HC04	22	0.23	19.2	104	22	0.8	100% GI	BC	237	5	29.0%	19.2%	9.8%	4.5
HC04	23	0.56	17.6	329	17	2.4	100% GI	BC	237	5	26.0%	17.6%	8.4%	4.6
HC04	24	0.13	14.4	40	32	5.0	100% GI	BC	237	5	26.0%	14.4%	11.6%	4.5
HC04	25	0.78	13.6	236	33	1.5	40% GI 60% BI	B	146	5	24.5%	13.6%	10.9%	4.5
HC04	26	0.74	12.8	194	38	0.1	100% BI	AB	144	11	23.0%	12.8%	10.2%	9.8
HC04	27	0.36	10.8	109	33	1.4	100% GI	BC	237	5	19.3%	10.8%	8.5%	4.6
HC04	28	0.73	15.2	192	38	1.4	10% GI 90% BI	AB	144	11	27.5%	15.2%	12.3%	9.5
HC04	29	3.62	13.6	1096	33	1.1	50% GI 50% BI	B	146	5	24.5%	13.6%	10.9%	4.5
HC04	30	1.94	14.0	554	35	1.5	50% GI 50% BI	B	146	5	25.3%	14.0%	11.3%	4.5
HC04	31	0.48	28.0	200	24	0.6	100% BI	AB	144	11	39.5%	28.0%	11.5%	9.4
HC04	32	0.34	15.2	97	35	0.8	100% BI	AB	144	11	27.5%	15.2%	12.3%	9.5
HC04	33	1.13	13.6	452	25	0.7	100% BI	AB	144	11	24.5%	13.6%	10.9%	9.7
HC04	34	1.55	5.6	620	25	0.6	100% BI	AB	144	11	15.5%	5.6%	9.9%	10.0
HC04	35	0.49	13.6	122	40	1.2	100% BI	AB	144	11	24.5%	13.6%	10.9%	9.7
HC04	36	2.93	32.5	1085	27	2.4	70% GI 30% BI	B	146	5	44.0%	32.5%	11.5%	4.3
HC05	1	5.99	12.0	1711	35	3.8	70% GI 30% BI	B	146	5	21.5%	12.0%	9.5%	4.6
HC05	2	3.23	12.4	769	42	3.2	50% GI 50% BI	B	146	5	22.3%	12.4%	9.9%	4.6
HC05	3	0.11	76.0	110	10	2.7	100% BI	AB	144	11	90.5%	76.0%	14.5%	5.0
HC05	4	0.49	11.2	175	28	1.1	100% BI	AB	144	11	20.0%	11.2%	8.8%	10.0
HC05	5	0.92	15.0	224	41	0.5	100% BI	AB	144	11	29.8%	15.0%	14.8%	9.3
HC05	6	0.42	16.8	140	30	1.6	100% BI	AB	144	11	27.5%	16.8%	10.7%	9.7
HC05	7	0.73	13.2	208	35	1.4	100% BI	AB	144	11	23.8%	13.2%	10.6%	9.8
HC05	8	2.20	13.6	628	35	0.9	100% BI	AB	144	11	24.5%	13.6%	10.9%	9.7
HC05	9	0.27	13.2	108	25	0.1	100% BI	AB	144	11	23.8%	13.2%	10.6%	9.8
HC05	10	0.35	17.6	250	14	1.4	100% BI	AB	144	11	29.0%	17.6%	11.4%	9.6
HC05	11	3.17	5.2	1509	21	1.5	100% BI	AB	144	11	14.8%	5.2%	9.6%	10.0
HC06	1	0.32	15.2	160	20	0.5	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
HC06	2	0.65	14.8	216	30	0.3	100% GI	BC	237	5	26.8%	14.8%	12.0%	4.4
HC06	3	1.49	0.0	175	85	0.6	100% GI	BC	237	5	5.0%	0.0%	5.0%	4.8
HC06	4	1.11	0.4	584	19	0.1	100% GI	BC	237	5	5.8%	0.4%	5.4%	4.8
HC06	5	0.35	10.8	109	32	1.1	100% GI	BC	237	5	22.3%	10.8%	11.5%	4.5

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
HC06	6	1.57	12.8	402	39	2.7	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
HC06	7	0.40	11.2	117	34	5.9	50% Gl 50% Bl	B	146	5	23.0%	11.2%	11.8%	4.5
HC06	8	4.15	14.4	1383	30	2.9	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
HC06	9	2.61	13.0	1044	25	3.2	100% Gl	BC	237	5	23.3%	13.0%	10.3%	4.5
HC06	10	2.40	12.8	705	34	2.9	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
HC06	11	0.22	17.6	157	14	0.6	50% Gl 50% Bl	B	146	5	29.0%	17.6%	11.4%	4.4
HC06	12	0.20	24.8	133	15	0.7	50% Gl 50% Bl	B	146	5	36.5%	24.8%	11.7%	4.4
HC06	13	0.28	51.2	93	30	3.7	100% Bl	AB	144	11	65.0%	51.2%	13.8%	8.2
HC06	14	1.81	23.0	786	23	0.4	100% Bl	AB	144	11	47.8%	23.0%	24.8%	7.8
HC06	15	0.12	80.0	120	10	0.3	100% Bl	AB	144	11	95.0%	80.0%	15.0%	3.5
HC06	16	0.28	67.0	121	23	1.1	100% Bl	AB	144	11	83.8%	67.0%	16.8%	5.9
HC06	17	1.54	22.0	550	28	0.4	100% Bl	AB	144	11	45.5%	22.0%	23.5%	8.0
HC06	18	2.66	55.4	1209	22	0.4	100% Bl	AB	144	11	68.8%	55.4%	13.4%	8.0
HC06	19	0.03	80.0	30	10	2.5	100% Bl	AB	144	11	95.0%	80.0%	15.0%	3.5
HC06	20	0.21	80.0	210	10	0.4	100% Bl	AB	144	11	95.0%	80.0%	15.0%	3.5
HC06	21	1.27	67.0	317	40	0.1	100% Bl	AB	144	11	81.5%	67.0%	14.5%	6.6
HC06	22	0.06	80.0	60	10	1.6	100% Bl	AB	144	11	95.0%	80.0%	15.0%	3.5
HC06	23	1.50	70.0	357	42	0.4	100% Bl	AB	144	11	84.5%	70.0%	14.5%	6.2
HC06	24	0.12	80.0	120	10	0.9	100% Bl	AB	144	11	95.0%	80.0%	15.0%	3.5
HC06	25	3.35	17.6	1046	32	3.8	50% Gl 50% Bl	B	146	5	29.0%	17.6%	11.4%	4.4
HC06	26	2.64	25.6	880	30	0.5	100% Bl	AB	144	11	35.0%	25.6%	9.4%	9.7
HC06	27	0.16	76.0	160	10	0.6	100% Bl	AB	144	11	90.5%	76.0%	14.5%	5.0
HC06	28	0.20	80.0	50	40	0.5	100% Bl	AB	144	11	95.0%	80.0%	15.0%	3.5
HC06	29	1.24	8.0	364	34	0.6	50% Bl 50% M	B	146	5	14.0%	8.0%	6.0%	4.7
HC06	30	0.33	48.0	100	33	1.5	100% Muck	B	146	5	59.0%	48.0%	11.0%	4.2
HC06	31	1.81	1.6	754	24	1.8	100% Bl	AB	144	11	8.0%	1.6%	6.4%	10.3
HC06	32	1.35	5.2	421	32	0.4	100% Bl	AB	144	11	14.8%	5.2%	9.6%	10.0
HC07	1	3.02	14.0	915	33	0.2	100% Bl	AB	144	11	25.3%	14.0%	11.3%	9.7
HC07	2	1.15	12.8	396	29	0.5	100% Bl	AB	144	11	23.0%	12.8%	10.2%	9.8
HC07	3	0.37	14.4	246	15	0.6	100% Bl	AB	144	11	26.0%	14.4%	11.6%	9.6
HC07	4	0.34	14.0	100	34	0.8	100% Bl	AB	144	11	25.3%	14.0%	11.3%	9.7
HC07	5	0.29	12.8	85	34	0.1	100% Bl	AB	144	11	23.0%	12.8%	10.2%	9.8
HC07	6	2.06	13.8	515	40	0.3	100% Bl	AB	144	11	25.0%	13.8%	11.1%	9.7
HC07	7	0.38	13.2	95	40	1.0	100% Bl	AB	144	11	23.8%	13.2%	10.6%	9.8
HC07	8	0.19	14.6	47	40	0.1	100% Bl	AB	144	11	26.5%	14.6%	11.8%	9.6
HC07	9	0.25	5.6	92	27	3.3	100% Bl	AB	144	11	12.5%	5.6%	6.9%	10.3
HC08	1	0.69	17.2	222	31	0.7	100% Gil	B	146	5	28.3%	17.2%	11.1%	4.5
HC08	2	2.32	18.8	644	36	0.5	40% Gil 60% Bg	B	146	5	31.3%	18.8%	12.5%	4.4
HC08	3	2.00	15.2	588	34	0.4	20% Gil 80% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HC08	4	0.69	11.6	143	48	0.6	100% Gil	B	146	5	20.8%	11.6%	9.2%	4.6
HC08	5	0.65	15.2	191	34	1.1	100% Gil	B	146	5	29.0%	15.2%	13.8%	4.3
HC08	6	1.18	14.0	310	38	1.0	100% Gil	B	146	5	25.3%	14.0%	11.3%	4.5
HC08	7	0.55	14.0	134	41	1.4	100% Gil	B	146	5	25.3%	14.0%	11.3%	4.5
HC08	8	0.41	57.6	215	19	0.4	100% Gil	B	146	5	71.0%	57.6%	13.4%	3.7
HC08	9	1.78	17.6	508	35	0.5	100% Gil	B	146	5	34.0%	17.6%	16.4%	4.2
HC08	10	1.32	1.6	660	20	1.4	100% Gil	B	146	5	8.0%	1.6%	6.4%	4.7
HC09	1	0.95	20.0	237	40	0.3	40% Db 60% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
HC09	2	1.03	14.0	302	34	1.0	100% Bg	AB	144	11	20.8%	14.0%	6.8%	10.2
HC09	3	0.97	15.2	269	36	0.6	100% Bg	AB	144	11	24.5%	15.2%	9.3%	9.9
HC09	4	2.54	11.2	819	31	0.9	30% Bg 70% Db	AB	144	11	20.0%	11.2%	8.8%	10.0
HC09	5	2.60	12.4	702	37	1.3	100% Db	AB	144	11	22.3%	12.4%	9.9%	9.9
HC09	6	1.23	12.0	341	36	0.7	50% Db 50% Bg	AB	144	11	21.5%	12.0%	9.5%	9.9
HC09	7	0.48	8.0	266	18	0.3	100% Bg	AB	144	11	20.0%	8.0%	12.0%	9.7
HC10	1	4.47	12.3	1064	42	1.7	50% Dl 50% Db	AB	144	11	20.0%	12.3%	7.7%	10.1
HC10	2	2.53	28.3	527	48	1.3	50% Dl 50% Db	AB	144	11	39.5%	28.3%	11.2%	9.4
HC10	3	1.86	26.9	422	44	0.4	90% Db 10% Bg	AB	144	11	37.3%	26.9%	10.3%	9.6
HC10	4	1.84	15.5	418	44	2.8	100% Db	AB	144	11	24.5%	15.5%	9.0%	9.9
HC10	5	2.41	14.2	535	45	0.5	90% Db 10% Bg	AB	144	11	22.7%	14.2%	8.5%	10.0
HC10	6	1.33	12.4	369	36	0.6	100% Bg	AB	144	11	22.3%	12.4%	9.9%	9.9
HC10	7	1.71	16.5	488	35	1.2	100% Db	AB	144	11	26.0%	16.5%	9.5%	9.9
HC10	8	1.19	14.9	476	25	3.7	100% Db	AB	144	11	23.8%	14.9%	8.8%	10.0
HC10	9	1.39	12.2	315	44	1.1	50% Db 50% Bg	AB	144	11	22.0%	12.2%	9.7%	9.9
HC10	10	0.28	14.9	93	30	1.9	100% Db	AB	144	11	23.8%	14.9%	8.8%	10.0
HC10	11	0.27	19.5	158	17	2.1	100% Db	AB	144	11	29.0%	19.5%	9.5%	9.8
HC10	12	0.90	2.4	428	21	0.7	100% Bg	AB	144	11	9.5%	2.4%	7.1%	10.3
HC10	13	0.59	16.0	131	45	0.8	100% Db	AB	144	11	25.3%	16.0%	9.3%	9.9
HC10	14	0.46	16.3	115	40	2.1	100% Db	AB	144	11	25.7%	16.3%	9.4%	9.9
HC10	15	0.40	16.5	160	25	1.6	100% Db	AB	144	11	26.0%	16.5%	9.5%	9.9
HD01	1	2.79	17.3	558	50	1.5	100% Gl	BC	237	5	20.0%	17.3%	2.7%	4.9
HD01	2	2.05	23.6	394	52	0.7	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
HD01	3	1.10	23.6	200	55	1.1	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
HD01	4	0.65	58.4	216	30	0.7	100% Gl	BC	237	5	72.5%	58.4%	14.1%	3.6
HD01	5	0.57	36.8	150	38	1.1	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
HD01	6	0.37	50.0	112	33	3.7	100% Gl	BC	237	5	65.0%	50.0%	15.0%	3.8
HD02	1	0.81	20.0	245	33	0.6	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
HD02	2	1.14	21.2	207	55	0.9	50% Gl 50% Bg	B	146	5	34.5%	21.2%	13.3%	4.3
HD02	3	0.75	20.0	277	27	3.1	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
HD02	4	0.58	30.0	156	37	1.3	50% Gl 50% Bg	B	146	5	38.8%	30.0%	8.8%	4.5
HD02	5	3.10	20.0	939	33	0.8	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
HD02	6	5.15	19.4	1716	30	3.9	100% Gl	BC	237	5	27.5%	19.4%	8.1%	4.6
HD02	7	0.71	36.8	394	18	5.1	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
HD02	8	0.77	42.4	452	17	5.2	100% Gl	BC	237	5	50.0%	42.4%	7.6%	4.5
HD02	9	3.75	31.3	1250	30	1.9	100% Gl	BC	237	5	37.3%	31.3%	6.0%	4.7
HD02	10	0.81	40.0	385	21	2.5	20% Gl 80% Bg	AB	144	11	50.0%	40.0%	10.0%	9.3
HD02	11	2.41	47.0	334	72	2.5	70% Gl 30% Bg	B	146	5	59.0%	47.0%	12.0%	4.1
HD02	12	0.51	40.0	425	12	0.8	50% Bg 50% Fs	AB	144	11	50.0%	40.0%	10.0%	9.3
HD02	13	2.86	38.3	1588	18	0.6	10% Gl 10% Bg 80%	AB	144	11	45.5%	38.3%	7.2%	9.8
HD02	14	11.86	26.9	3825	31	1.9	100% Gl	BC	237	5	32.0%	26.9%	5.1%	4.7
HD02	15	0.98	11.9	288	34	1.5	100% Gl	BC	237	5	17.0%	11.9%	5.1%	4.8
HD02	16	3.25	20.0	1083	30	2.0	60% Gl 40% Fs	B	146	5	25.3%	20.0%	5.2%	4.7
HD02	17	1.31	23.6	436	30	3.7	80% Gl 20% Fs	B	146	5	27.5%	23.6%	3.9%	4.8
HD02	18	3.20	21.9	969	33	2.6	50% Gl 50% Fs	B	146	5	26.0%	21.9%	4.1%	4.8
HD02	19	1.12	23.6	311	36	0.8	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
HD02	20	2.55	23.6	772	33	0.4	100% Fs	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	21	1.09	23.6	545	20	2.1	100% Fs	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	22	1.10	23.6	354	31	1.5	100% Fs	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	23	4.75	8.0	791	60	1.2	100% Fs	AB	144	11	14.0%	8.0%	6.0%	10.3
HD02	24	2.56	10.6	581	44	0.9	100% Fs	AB	144	11	16.3%	10.6%	5.7%	10.4
HD02	25	2.64	23.6	880	30	0.9	100% Fs	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	26	1.23	40.0	384	32	0.9	100% Fs	AB	144	11	50.0%	40.0%	10.0%	9.3
HD02	27	0.73	40.0	228	32	0.8	100% Fs	AB	144	11	50.0%	40.0%	10.0%	9.3
HD02	28	1.16	40.0	828	14	0.6	100% Fs	AB	144	11	50.0%	40.0%	10.0%	9.3
HD02	29	7.41	15.0	435	170	0.6	100% Fs	AB	144	11	30.0%	15.0%	15.0%	9.2
HD02	30	1.86	20.3	600	31	0.8	100% Fs	AB	144	11	26.0%	20.3%	5.7%	10.3
HD02	31	1.46	40.0	339	43	1.3	100% Fs	AB	144	11	50.0%	40.0%	10.0%	9.3
HD02	32	2.66	15.2	648	41	0.6	80% Gl 20% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	33	8.27	7.2	1621	51	1.9	100%Gl	BC	237	5	15.5%	7.2%	8.3%	4.6
HD02	34	1.42	15.2	373	38	5.4	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	35	7.80	15.2	1950	40	3.5	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	36	4.71	5.3	1272	37	3.3	100%Gl	BC	237	5	11.0%	5.3%	5.7%	4.8
HD02	37	1.22	23.6	338	36	2.1	60% Gl 40% Fs	B	146	5	27.5%	23.6%	3.9%	4.8
HD02	38	11.36	15.3	3917	29	3.0	100%Gl	BC	237	5	26.0%	15.3%	10.7%	4.5
HD02	39	4.07	8.0	969	42	0.8	100%Gl	BC	237	5	17.0%	8.0%	9.0%	4.6
HD02	40	1.67	15.2	463	36	0.9	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	41	2.53	21.3	744	34	1.1	100%Gl	BC	237	5	29.8%	21.3%	8.5%	4.6
HD02	42	2.17	23.6	723	30	1.9	50% Gl 50% Fs	B	146	5	27.5%	23.6%	3.9%	4.8
HD02	43	0.92	50.0	164	56	1.4	100%Gl	BC	237	5	65.0%	50.0%	15.0%	3.8
HD02	44	1.58	12.0	246	64	1.4	100%Gl	BC	237	5	21.5%	12.0%	9.5%	4.6
HD02	45	5.76	15.5	1645	35	2.4	100%Gl	BC	237	5	27.8%	15.5%	12.3%	4.4
HD02	46	1.67	19.4	556	30	0.7	100%Gl	BC	237	5	32.0%	19.4%	12.6%	4.4
HD02	47	2.04	15.2	497	41	1.0	60% Gl 40% Fs	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	48	12.09	14.4	2948	41	4.8	50% Gl 50% Bg	B	146	5	26.0%	14.4%	11.6%	4.5
HD02	49	6.32	15.2	1708	37	0.6	10% Fs 20% GL 70% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	50	4.71	17.6	1121	42	4.6	50% Gl 50% Bg	B	146	5	27.5%	17.6%	9.9%	4.5
HD02	51	2.12	14.4	572	37	5.7	100%Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
HD02	52	1.14	15.2	380	30	3.3	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	53	0.91	15.2	293	31	1.1	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	54	1.92	12.8	304	63	0.6	100%Gl	BC	237	5	24.8%	12.8%	12.0%	4.4
HD02	55	2.40	4.0	252	95	0.9	100%Gl	BC	237	5	9.5%	4.0%	5.5%	4.8
HD02	56	1.98	15.2	582	34	5.5	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	57	0.46	15.2	170	27	2.8	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	58	0.60	13.6	222	27	5.0	100%Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
HD02	59	1.75	12.8	564	31	4.1	100%Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
HD02	60	0.81	15.2	231	35	1.3	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	61	2.66	15.2	831	32	3.6	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	62	13.51	15.9	3002	45	2.0	100%Gl	BC	237	5	28.5%	15.9%	12.6%	4.4
HD02	63	6.11	15.2	1651	37	1.1	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	64	4.36	8.4	822	53	0.6	20% Gl 80% Bg	B	146	5	19.5%	8.4%	11.1%	4.5
HD02	65	4.57	17.6	1235	37	4.7	80% Gl 20% Bg	B	146	5	27.5%	17.6%	9.9%	4.5
HD02	66	1.50	17.6	405	37	0.3	100% Bg	AB	144	11	27.5%	17.6%	9.9%	9.8
HD02	67	1.09	15.2	294	37	0.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD02	68	2.16	23.6	304	71	3.4	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	69	1.09	9.6	151	72	4.8	100% Bg	AB	144	11	17.0%	9.6%	7.4%	10.2
HD02	70	1.11	14.4	336	33	4.3	50% Gl 50% Bg	B	146	5	26.0%	14.4%	11.6%	4.5
HD02	71	1.78	0.4	809	22	1.1	100% Bg	AB	144	11	5.8%	0.4%	5.4%	10.5
HD02	72	1.17	19.4	292	40	0.7	100% Bg	AB	144	11	27.5%	19.4%	8.1%	10.0
HD02	73	3.41	20.0	974	35	2.2	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
HD02	74	8.72	23.6	2180	40	3.5	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	75	1.67	23.6	439	38	0.5	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	76	2.19	80.0	251	87	0.8	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
HD02	77	2.66	26.0	682	39	0.4	100% Bg	AB	144	11	38.8%	26.0%	12.8%	9.3
HD02	78	1.68	16.2	480	35	1.7	100% Bg	AB	144	11	23.8%	16.2%	7.5%	10.1
HD02	79	6.74	29.9	1821	37	1.7	100% Bg	AB	144	11	43.3%	29.9%	13.4%	9.1
HD02	80	1.19	15.2	371	32	0.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD02	81	0.81	15.2	324	25	2.0	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD02	82	3.26	14.4	1051	31	0.9	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
HD02	83	1.16	6.8	116	100	0.7	100% Bg	AB	144	11	14.8%	6.8%	8.0%	10.1
HD02	84	0.48	15.2	129	37	0.7	50% Gl 50% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	85	1.51	8.0	251	60	5.5	100%Gl	BC	237	5	14.0%	8.0%	6.0%	4.7
HD02	86	0.86	36.8	252	34	2.7	100%Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
HD02	87	2.99	14.0	854	35	0.9	100%Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
HD02	88	0.93	15.2	211	44	3.4	100%Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD02	89	2.88	38.0	240	120	0.3	60% Gl 40% Bg	B	146	5	50.0%	38.0%	12.0%	4.2
HD02	90	1.08	15.2	300	36	0.3	60% Gl 40% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	91	1.30	11.6	250	52	1.6	100%Gl	BC	237	5	23.8%	11.6%	12.2%	4.5
HD02	92	1.90	72.0	158	120	1.9	100%Gl	BC	237	5	86.0%	72.0%	14.0%	3.0
HD02	93	3.66	80.0	228	160	0.6	100%Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
HD02	94	1.28	65.6	228	56	0.7	100% Bg	AB	144	11	80.0%	65.6%	14.4%	6.8
HD02	95	1.58	80.0	385	41	0.7	60% Gl 40% Bg	B	146	5	95.0%	80.0%	15.0%	2.0
HD02	96	1.26	14.0	406	31	0.9	100%Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
HD02	97	2.06	8.0	219	94	0.9	60% Gl 40% Bg	B	146	5	14.0%	8.0%	6.0%	4.7
HD02	98	4.37	17.0	291	150	0.5	100% Bg	AB	144	11	29.0%	17.0%	12.0%	9.6
HD02	99	0.54	15.2	142	38	1.0	50% Gl 50% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	100	0.64	15.2	177	36	1.3	50% Gl 50% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD02	101	2.16	23.6	540	40	0.7	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
HD02	102	0.44	15.2	110	40	1.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD02	103	0.75	15.2	187	40	1.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD02	104	2.22	8.4	462	48	0.6	100% Bg	AB	144	11	17.8%	8.4%	9.4%	10.0
HD02	105	1.23	15.2	307	40	0.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD02	106	1.21	15.2	295	41	0.9	50% Gl 50% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD03	1	2.77	15.2	692	40	2.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	2	1.14	15.2	345	33	2.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	3	1.17	15.2	377	31	3.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	4	1.98	15.2	495	40	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	5	1.48	15.2	435	34	2.4	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	6	6.48	4.4	648	100	1.3	100% Gl	BC	237	5	10.3%	4.4%	5.9%	4.8

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
HD03	7	1.28	15.2	441	29	1.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	8	0.73	15.2	173	42	5.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	9	1.51	15.2	359	42	2.1	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD03	10	1.35	21.0	675	20	3.3	100% Gl	BC	237	5	43.3%	21.0%	22.3%	3.9
HD04	1	2.28	11.6	616	37	1.6	100% Gl	BC	237	5	20.8%	11.6%	9.2%	4.6
HD04	2	1.61	8.0	805	20	2.8	100% Gl	BC	237	5	14.0%	8.0%	6.0%	4.7
HD04	3	1.93	20.0	772	25	0.4	100% Gl	BC	237	5	50.0%	20.0%	30.0%	3.5
HD04	4	2.08	15.2	520	40	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD04	5	1.66	15.2	638	26	0.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD04	6	1.96	13.6	384	51	4.1	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
HD04	7	1.66	26.0	664	25	0.4	100% Gl	BC	237	5	54.5%	26.0%	28.5%	3.5
HD05	1	1.10	15.2	323	34	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
HD05	2	1.34	14.4	372	36	0.3	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
HD05	3	2.45	14.4	700	35	0.5	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
HD05	4	0.40	18.8	235	17	1.2	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
HD05	5	0.52	18.0	200	26	0.8	100% Gl	BC	237	5	29.8%	18.0%	11.8%	4.4
HD05	6	0.57	18.8	154	37	0.6	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
HD05	7	0.48	10.4	154	31	0.1	100% Gl	BC	237	5	21.5%	10.4%	11.1%	4.5
HD05	8	0.96	14.0	436	22	0.5	100% Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
HD05	9	3.43	9.2	1039	33	0.4	100% Gl	BC	237	5	16.3%	9.2%	7.1%	4.7
HD05	10	1.24	14.4	375	33	0.6	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
HD05	11	2.54	35.3	1587	16	0.6	100% Gl	BC	237	5	50.8%	35.3%	15.5%	4.0
HD05	12	1.39	14.0	631	22	0.7	100% Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
HD05	13	0.63	26.0	262	24	0.6	100% Gl	BC	237	5	54.5%	26.0%	28.5%	3.5
HD05	14	2.68	34.4	893	30	0.4	100% Gl	BC	237	5	52.3%	34.4%	17.9%	3.9
HD05	15	1.32	26.0	733	18	0.5	100% Gl	BC	237	5	54.5%	26.0%	28.5%	3.5
HD05	16	0.73	44.0	214	34	0.7	100% Gl	BC	237	5	68.0%	44.0%	24.0%	3.3
HD05	17	2.90	26.0	906	32	1.1	100% Gl	BC	237	5	54.5%	26.0%	28.5%	3.5
HD05	18	1.13	14.8	332	34	0.8	100% Gl	BC	237	5	26.8%	14.8%	12.0%	4.4
HD06	1	3.01	30.6	885	34	3.7	100% Gl	BC	237	5	51.2%	30.6%	20.6%	3.8
HD06	2	3.68	20.0	968	38	1.9	90% Gl 10% Fs	BC	237	5	27.5%	20.0%	7.5%	4.6
HD06	3	0.69	36.8	431	16	2.3	100% Fs	AB	144	11	50.0%	36.8%	13.2%	8.9
HD06	4	3.83	10.4	1235	31	1.9	60% Gl 40% Fs	B	146	5	18.5%	10.4%	8.1%	4.6
HD06	5	1.15	8.8	370	31	0.5	50% Gl 50% Bg	B	146	5	15.5%	8.8%	6.7%	4.7
HD06	6	1.84	11.6	593	31	2.1	100% Fs	BC	237	5	23.8%	11.6%	12.2%	4.5
HD06	7	0.74	29.6	493	15	1.9	100% Bg	AB	144	11	42.5%	29.6%	12.9%	9.2
HD06	8	3.69	9.4	1190	31	1.2	40% Gl 60% Bg	B	146	5	17.9%	9.4%	8.5%	4.6
HD06	9	0.68	36.8	377	18	5.8	70% Bg 30% Gl	B	146	5	50.0%	36.8%	13.2%	4.2
HD06	10	5.12	1.2	2694	19	6.3	100% Bg	AB	144	11	7.3%	1.2%	6.1%	10.4
HD06	11	1.21	15.2	345	35	4.3	30% Gl 70% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
HD06	12	2.22	15.2	616	36	2.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
HD06	13	0.49	18.8	163	30	2.0	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
HD06	14	0.30	22.4	142	21	1.1	100% Fs	AB	144	11	35.0%	22.4%	12.6%	9.4
HD06	15	0.24	18.8	133	18	1.5	100% Fs	AB	144	11	31.3%	18.8%	12.5%	9.5
HD06	16	0.32	56.0	168	19	5.8	50% Gl 50% Fs	B	146	5	68.0%	56.0%	12.0%	3.9
HD06	17	1.20	14.4	387	31	3.0	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
HD06	18	6.09	0.0	1791	34	4.1	100% Fs	AB	144	11	5.0%	0.0%	5.0%	10.5
LS01	1	0.84	9.7	350	24	3.3	100% Bg	AB	144	11	15.5%	9.7%	5.8%	10.4
LS01	2	1.19	23.6	247	48	1.7	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS01	3	0.51	23.6	170	30	1.2	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS01	4	0.89	23.6	269	33	2.3	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS01	5	3.03	23.6	550	55	2.9	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS01	6	1.18	23.6	226	52	4.4	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS01	7	1.58	36.1	752	21	4.2	100% Bg	AB	144	11	42.5%	36.1%	6.4%	10.0
LS01	8	3.12	15.2	742	42	4.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	1	1.28	10.0	284	45	0.4	100% LI	BC	237	5	65.0%	10.0%	55.0%	2.6
LS02	2	2.75	7.0	171	160	0.5	100% LI	BC	237	5	47.0%	7.0%	40.0%	3.3
LS02	3	1.06	10.0	235	45	1.1	45% Fs 55% LI	B	146	5	65.0%	10.0%	55.0%	2.6
LS02	4	5.05	7.0	271	186	1.0	42% Fs 58% LI	B	146	5	47.0%	7.0%	40.0%	3.3
LS02	5	1.49	10.0	78	190	0.7	100% Fs	AB	144	11	65.0%	10.0%	55.0%	4.9
LS02	6	0.75	1.5	166	45	1.1	100% Fs	AB	144	11	14.0%	1.5%	12.5%	9.7
LS02	7	0.40	17.3	173	23	0.8	45% Bg 55% Fs	AB	144	11	20.0%	17.3%	2.7%	10.7
LS02	8	0.57	6.6	103	55	0.8	30% Bg 70% Fs	AB	144	11	20.0%	6.6%	13.4%	9.6
LS02	9	1.47	6.6	267	55	0.7	30% Bg 70% Fs	AB	144	11	20.0%	6.6%	13.4%	9.6
LS02	10	1.32	7.2	264	50	1.0	28% Gl 42% Fs 29%	B	146	5	20.8%	7.2%	13.6%	4.4
LS02	11	9.14	17.8	2611	35	2.2	100% Bg	AB	144	11	23.0%	17.8%	5.2%	10.4
LS02	12	0.62	5.0	167	37	0.8	100% Gl	BC	237	5	35.0%	5.0%	30.0%	3.7
LS02	13	0.58	15.2	116	50	1.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	14	0.53	15.2	106	50	0.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	15	0.56	15.2	112	50	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	16	0.73	29.6	331	22	1.9	100% Bg	AB	144	11	42.5%	29.6%	12.9%	9.2
LS02	17	1.18	22.4	368	32	4.2	100% Bg	AB	144	11	35.0%	22.4%	12.6%	9.4
LS02	18	1.63	51.2	326	50	1.5	100% Bg	AB	144	11	65.0%	51.2%	13.8%	8.2
LS02	19	1.10	15.2	275	40	5.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	20	0.57	36.8	247	23	2.2	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
LS02	21	0.83	15.2	207	40	2.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	22	0.73	15.2	197	37	1.7	50% Bg 50% Gl	B	146	5	27.5%	15.2%	12.3%	4.4
LS02	23	0.65	56.0	144	45	1.3	100% Gl	BC	237	5	68.0%	56.0%	12.0%	3.9
LS02	24	0.67	20.0	159	42	0.7	100% Gl	BC	237	5	30.5%	20.0%	10.5%	4.5
LS02	25	1.51	8.8	53	280	3.0	40% Gl 60% Bg	B	146	5	15.5%	8.8%	6.7%	4.7
LS02	26	0.63	32.0	161	39	0.4	30% M 70% Gl	B	146	5	41.0%	32.0%	9.0%	4.5
LS02	27	0.39	32.0	118	33	0.6	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
LS02	28	2.97	16.0	106	280	0.5	40% Gl 60% Bg	B	146	5	23.0%	16.0%	7.0%	4.7
LS02	29	8.16	0.0	291	280	0.5	60% Gl 40% Bg	B	146	5	5.0%	0.0%	5.0%	4.8
LS02	30	0.69	32.0	176	39	1.0	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
LS02	31	0.44	32.0	112	39	0.6	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
LS02	32	0.68	8.0	59	115	1.2	100% Fs	AB	144	11	14.0%	8.0%	6.0%	10.3
LS02	33	1.71	41.0	148	115	0.9	100% Fs	AB	144	11	54.2%	41.0%	13.2%	8.8
LS02	34	0.72	11.4	62	115	0.9	100% Fs	AB	144	11	21.7%	11.4%	10.3%	9.8
LS02	35	4.26	4.0	182	234	1.3	100% Fs	AB	144	11	9.5%	4.0%	5.5%	10.4
LS02	36	4.66	37.5	199	234	0.6	35% Gl 65% Fs	B	146	5	50.0%	37.5%	12.5%	4.2
LS02	37	1.05	10.0	91	115	1.1	50% Gl 50% Fs	B	146	5	65.0%	10.0%	55.0%	2.6
LS02	38	1.28	54.5	150	85	0.3	100% Gl	BC	237	5	69.5%	54.5%	15.0%	3.7

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS02	39	2.91	10.0	194	150	0.4	100% Fs	AB	144	11	65.0%	10.0%	55.0%	4.9
LS02	40	3.58	10.0	198	180	3.2	100% Fs	AB	144	11	65.0%	10.0%	55.0%	4.9
LS02	41	5.16	10.0	271	190	0.8	50% Gl 50% Fs	B	146	5	65.0%	10.0%	55.0%	2.6
LS02	42	0.49	16.0	77	63	0.9	90% M 10% Gl	B	146	5	23.0%	16.0%	7.0%	4.7
LS02	43	0.23	80.0	230	10	0.4	75% Gl 25% M	BC	237	5	95.0%	80.0%	15.0%	2.0
LS02	44	2.24	17.0	266	84	1.5	60% M 40% Gl	B	146	5	68.0%	17.0%	51.0%	2.5
LS02	45	3.59	13.5	178	201	0.8	15% Gl 85% M	B	146	5	66.5%	13.5%	53.0%	2.5
LS02	46	2.89	13.5	143	201	0.5	100% M	B	146	5	66.5%	13.5%	53.0%	2.5
LS02	47	2.73	13.5	135	201	1.1	10% Gl 90% M	B	146	5	66.5%	13.5%	53.0%	2.5
LS02	48	2.39	13.5	118	201	0.6	20% Gl 80% M	B	146	5	66.5%	13.5%	53.0%	2.5
LS02	49	1.53	13.5	139	110	0.8	100% M	B	146	5	66.5%	13.5%	53.0%	2.5
LS02	50	2.86	11.5	142	201	0.8	50% Gl 50% M	B	146	5	54.5%	11.5%	43.0%	3.1
LS02	51	4.52	61.3	224	201	0.2	60% M 40% Gl	B	146	5	77.0%	61.3%	15.7%	3.4
LS02	52	1.21	40.0	366	33	0.6	100% Gl	BC	237	5	50.0%	40.0%	10.0%	4.3
LS02	53	2.80	8.0	227	123	0.6	100% Gl	BC	237	5	14.0%	8.0%	6.0%	4.7
LS02	54	0.97	0.0	80	121	0.6	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS02	55	0.53	32.0	182	29	0.5	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
LS02	56	0.51	12.0	69	73	0.5	100% Gl	BC	237	5	18.5%	12.0%	6.5%	4.7
LS02	57	0.37	32.0	39	94	0.5	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
LS02	58	1.62	20.0	133	121	0.4	50% Gl 50% M	B	146	5	50.0%	20.0%	30.0%	3.5
LS02	59	1.92	4.0	179	107	0.9	60% M 40% Gl	B	146	5	9.5%	4.0%	5.5%	4.8
LS02	60	1.74	0.0	108	161	0.6	100% M	B	146	5	5.0%	0.0%	5.0%	4.8
LS02	61	1.95	33.0	114	170	0.8	70% M 30% Gl	B	146	5	44.0%	33.0%	11.0%	4.3
LS02	62	1.79	4.5	105	170	2.7	40% M 60% Gl	B	146	5	12.5%	4.5%	8.0%	4.7
LS02	63	3.48	55.0	183	190	0.8	100% M	B	146	5	68.0%	55.0%	13.0%	3.8
LS02	64	4.65	29.3	442	105	5.2	20% Fs 80% Gl	B	146	5	38.0%	29.3%	8.7%	4.5
LS02	65	7.41	27.5	2179	34	1.0	100% Gl	BC	237	5	32.0%	27.5%	4.5%	4.8
LS02	66	2.49	23.6	565	44	0.9	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
LS02	67	5.97	23.6	1456	41	1.1	90% Gl 10% Fs	BC	237	5	27.5%	23.6%	3.9%	4.8
LS02	68	3.17	35.0	205	154	0.9	90% Fs 10% Gl	AB	144	11	47.0%	35.0%	12.0%	9.2
LS02	69	0.76	0.0	82	92	1.5	100% Fs	AB	144	11	5.0%	0.0%	5.0%	10.5
LS02	70	10.09	4.0	1146	88	1.3	60% Gl 40% M	B	146	5	9.5%	4.0%	5.5%	4.8
LS02	71	2.61	8.0	228	114	0.3	100% M	B	146	5	53.0%	8.0%	45.0%	3.0
LS02	72	2.37	34.7	175	135	1.3	100% M	B	146	5	44.0%	34.7%	9.3%	4.4
LS02	73	0.90	40.0	57	156	0.6	100% M	B	146	5	50.0%	40.0%	10.0%	4.3
LS02	74	0.58	48.0	95	61	0.7	50% M 50% Gl	B	146	5	59.0%	48.0%	11.0%	4.2
LS02	75	1.99	15.2	497	40	0.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS02	76	0.68	56.0	75	90	0.7	50% M 50% Gl	B	146	5	68.0%	56.0%	12.0%	3.9
LS02	77	0.48	40.0	80	60	0.5	100% M	B	146	5	50.0%	40.0%	10.0%	4.3
LS02	78	0.85	36.8	207	41	0.8	100% M	B	146	5	50.0%	36.8%	13.2%	4.2
LS02	79	0.40	40.0	133	30	0.7	100% M	B	146	5	50.0%	40.0%	10.0%	4.3
LS02	80	1.04	20.0	335	31	0.4	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	81	1.49	20.0	496	30	0.4	100% M	B	146	5	27.5%	20.0%	7.5%	4.6
LS02	82	0.54	46.7	145	37	0.5	100% M	B	146	5	57.5%	46.7%	10.8%	4.2
LS02	83	1.46	20.0	470	31	0.2	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	84	0.44	20.0	78	56	0.5	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	85	3.49	21.8	872	40	5.3	100% Gl	BC	237	5	27.5%	21.8%	5.7%	4.7
LS02	86	0.74	11.2	185	40	0.8	50% M 50% Gl	B	146	5	20.0%	11.2%	8.8%	4.6
LS02	87	0.45	20.0	150	30	0.6	100% M	B	146	5	27.5%	20.0%	7.5%	4.6
LS02	88	3.87	20.0	1334	29	3.4	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	89	3.10	15.2	794	39	0.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS02	90	1.09	20.0	340	32	0.3	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	91	6.03	15.2	1507	40	0.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS02	92	1.58	20.0	493	32	0.3	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	93	2.14	20.0	535	40	1.3	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	94	3.97	18.7	992	40	1.8	100% Gl	BC	237	5	26.0%	18.7%	7.3%	4.6
LS02	95	0.81	5.8	162	50	1.1	100% Gl	BC	237	5	14.0%	5.8%	8.2%	4.7
LS02	96	0.64	21.2	457	14	5.1	100% Gl	BC	237	5	34.5%	21.2%	13.3%	4.3
LS02	97	2.78	20.0	992	28	3.2	50% M 50% Bg	B	146	5	27.5%	20.0%	7.5%	4.6
LS02	98	1.57	20.0	506	31	0.3	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	99	2.65	15.2	509	52	1.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS02	100	1.34	20.0	335	40	0.3	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	101	2.02	20.0	492	41	0.7	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS02	102	1.53	18.8	493	31	0.8	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
LS02	103	2.13	22.4	710	30	1.2	100% Gl	BC	237	5	35.0%	22.4%	12.6%	4.4
LS02	104	2.46	17.6	793	31	0.5	80% Gl 20% Bg	B	146	5	27.5%	17.6%	9.9%	4.5
LS02	105	0.73	15.2	235	31	0.9	80% Bg 20% Gl	B	146	5	27.5%	15.2%	12.3%	4.4
LS02	106	1.53	20.0	225	68	0.3	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
LS02	107	2.07	18.0	188	110	0.4	100% Bg	AB	144	11	28.5%	18.0%	10.5%	9.7
LS02	108	1.72	15.2	537	32	3.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	109	4.92	15.2	1537	32	1.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS02	110	1.21	11.6	242	50	0.8	100% Bg	AB	144	11	23.8%	11.6%	12.2%	9.6
LS02	111	2.59	11.6	719	36	0.4	100% Bg	AB	144	11	29.0%	11.6%	17.4%	9.0
LS02	112	1.36	5.0	906	15	1.3	50% Fs 50% LI	B	146	5	35.0%	5.0%	30.0%	3.7
LS02	113	1.52	5.0	1013	15	1.3	50% Fs 50% LI	B	146	5	35.0%	5.0%	30.0%	3.7
LS02	114	1.10	0.0	118	93	0.5	100% LI	BC	237	5	5.0%	0.0%	5.0%	4.8
LS02	115	9.14	0.0	415	220	0.4	30% LI 70% Fs	B	146	5	5.0%	0.0%	5.0%	4.8
LS03	1	0.82	15.2	170	48	3.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS03	2	0.70	8.0	132	53	1.4	100% Bg	AB	144	11	20.0%	8.0%	12.0%	9.7
LS03	3	1.00	8.0	188	53	2.5	100% Bg	AB	144	11	20.0%	8.0%	12.0%	9.7
LS03	4	0.70	40.0	132	53	2.1	100% Bg	AB	144	11	50.0%	40.0%	10.0%	9.3
LS03	5	4.26	15.2	1217	35	1.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS03	6	1.06	15.2	176	60	2.0	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS03	7	1.42	15.2	346	41	1.9	50% Gl 50% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
LS03	8	0.71	44.0	177	40	2.4	50% Gl 50% Bg	B	146	5	57.5%	44.0%	13.5%	4.0
LS03	9	6.81	4.0	544	125	2.2	20% Bg 80% Gl	B	146	5	9.5%	4.0%	5.5%	4.8
LS03	10	2.28	47.5	232	98	1.7	100% Gl	BC	237	5	62.0%	47.5%	14.5%	3.9
LS03	11	1.98	8.0	353	56	0.9	100% Gl	BC	237	5	14.0%	8.0%	6.0%	4.7
LS03	12	0.42	60.0	70	60	2.3	100% Gl	BC	237	5	72.5%	60.0%	12.5%	3.8
LS03	13	1.05	15.2	218	48	0.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	14	2.11	15.2	527	40	0.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	15	0.73	44.0	292	25	3.1	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
LS03	16	0.65	8.0	180	36	1.3	50% Bg 50% Gl	B	146	5	20.0%	8.0%	12.0%	4.5

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS03	17	2.80	11.6	636	44	3.3	20% Gl 80% Bg	AB	144	11	23.8%	11.6%	12.2%	9.6
LS03	18	4.61	8.4	606	76	0.4	100% Gl	BC	237	5	14.8%	8.4%	6.4%	4.7
LS03	19	0.56	8.0	215	26	1.0	100% Gl	BC	237	5	20.0%	8.0%	12.0%	4.5
LS03	20	6.08	5.2	579	105	0.5	100% Gl	BC	237	5	11.8%	5.2%	6.6%	4.7
LS03	21	2.54	15.2	577	44	0.4	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	22	1.41	15.2	440	32	2.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	23	0.93	18.8	226	41	1.6	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
LS03	24	0.85	18.8	257	33	1.8	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
LS03	25	0.26	50.0	55	47	1.7	100% Gl	BC	237	5	65.0%	50.0%	15.0%	3.8
LS03	26	0.75	8.0	96	78	1.8	100% Gl	BC	237	5	14.0%	8.0%	6.0%	4.7
LS03	27	2.50	20.0	625	40	0.3	100% Gl	BC	237	5	50.0%	20.0%	30.0%	3.5
LS03	28	0.30	80.0	250	12	0.7	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
LS03	29	1.52	8.0	370	41	0.3	100% Gl	BC	237	5	20.0%	8.0%	12.0%	4.5
LS03	30	0.76	18.8	200	38	0.7	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
LS03	31	0.47	15.2	138	34	3.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	32	0.95	8.0	351	27	2.4	100% Gl	BC	237	5	20.0%	8.0%	12.0%	4.5
LS03	33	0.64	15.2	200	32	2.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	34	3.13	8.0	763	41	0.4	100% Gl	BC	237	5	20.0%	8.0%	12.0%	4.5
LS03	35	0.56	38.7	280	20	0.9	100% Gl	BC	237	5	48.5%	38.7%	9.8%	4.4
LS03	36	0.95	18.8	202	47	0.4	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
LS03	37	1.62	33.9	462	35	3.4	100% Gl	BC	237	5	47.0%	33.9%	13.1%	4.2
LS03	38	0.34	33.2	125	27	2.8	100% Gl	BC	237	5	46.3%	33.2%	13.1%	4.2
LS03	39	1.82	50.0	173	105	1.3	100% Gl	BC	237	5	65.0%	50.0%	15.0%	3.8
LS03	40	1.12	25.0	224	50	0.9	100% Gl	BC	237	5	35.0%	25.0%	10.0%	4.5
LS03	41	4.49	18.6	1020	44	1.0	100% Gl	BC	237	5	30.5%	18.6%	11.9%	4.4
LS03	42	1.82	20.0	423	43	1.0	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS03	43	1.58	15.2	493	32	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	44	1.18	23.1	357	33	0.4	100% Gl	BC	237	5	34.3%	23.1%	11.2%	4.4
LS03	45	2.74	17.6	856	32	3.3	100% Gl	BC	237	5	27.5%	17.6%	9.9%	4.5
LS03	46	1.18	14.4	368	32	1.3	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
LS03	47	1.00	14.4	312	32	0.4	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
LS03	48	1.16	15.2	374	31	4.4	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	49	1.15	21.5	338	34	6.4	100% Gl	BC	237	5	34.3%	21.5%	12.8%	4.4
LS03	50	1.71	39.6	534	32	0.5	100% Gl	BC	237	5	53.0%	39.6%	13.4%	4.1
LS03	51	0.81	15.2	253	32	1.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	52	1.42	25.4	473	30	1.7	100% Gl	BC	237	5	53.0%	25.4%	27.6%	3.5
LS03	53	1.64	14.0	512	32	1.4	100% Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
LS03	54	3.86	14.4	1043	37	1.0	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
LS03	55	1.08	15.2	337	32	1.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	56	2.05	15.0	292	70	0.3	100% Gl	BC	237	5	30.0%	15.0%	15.0%	4.3
LS03	57	1.39	15.2	421	33	6.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	58	0.73	36.8	270	27	0.3	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
LS03	59	2.46	17.8	768	32	4.0	100% Gl	BC	237	5	29.0%	17.8%	11.2%	4.5
LS03	60	0.38	42.0	316	12	1.9	100% Gl	BC	237	5	53.8%	42.0%	11.8%	4.2
LS03	61	1.58	15.2	493	32	0.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	62	2.09	13.6	674	31	0.7	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
LS03	63	0.98	15.2	316	31	0.3	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	64	0.98	15.2	337	29	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	65	0.85	16.0	274	31	0.0	100% Gl	BC	237	5	26.0%	16.0%	10.0%	4.5
LS03	66	1.20	40.6	300	40	0.3	100% Gl	BC	237	5	53.8%	40.6%	13.2%	4.1
LS03	67	3.28	12.4	1426	23	0.5	100% Gl	BC	237	5	22.3%	12.4%	9.9%	4.6
LS03	68	0.94	13.6	284	33	5.2	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
LS03	69	3.49	12.8	1090	32	5.8	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
LS03	70	0.57	36.8	211	27	2.2	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
LS03	71	0.76	15.2	281	27	4.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	72	1.40	10.8	437	32	0.8	100% Gl	BC	237	5	19.3%	10.8%	8.5%	4.6
LS03	73	0.99	15.2	300	33	3.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	74	4.50	15.2	1406	32	3.2	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	75	6.80	19.1	1942	35	2.2	100% Gl	BC	237	5	29.8%	19.1%	10.7%	4.5
LS03	76	1.72	15.2	637	27	1.4	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	77	0.95	26.0	263	36	1.4	100% Gl	BC	237	5	38.8%	26.0%	12.8%	4.3
LS03	78	1.99	15.2	568	35	1.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	79	1.13	26.4	513	22	1.7	100% Gl	BC	237	5	36.5%	26.4%	10.1%	4.5
LS03	80	6.89	20.8	2087	33	1.0	50% Gl 50% Bg	B	146	5	35.8%	20.8%	15.0%	4.2
LS03	81	2.28	26.4	584	39	4.2	100% Bg	AB	144	11	38.8%	26.4%	12.4%	9.3
LS03	82	1.37	26.2	360	38	1.9	90% Gl 10% Bg	BC	237	5	35.8%	26.2%	9.6%	4.5
LS03	83	1.38	15.2	300	46	2.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS03	84	1.89	15.2	590	32	3.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS03	85	1.39	15.2	421	33	3.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS03	86	0.93	13.6	310	30	3.6	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
LS03	87	1.54	15.2	481	32	0.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS03	88	1.73	16.5	508	34	1.2	100% Gl	BC	237	5	26.0%	16.5%	9.5%	4.5
LS03	89	0.47	44.0	213	22	2.3	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
LS03	90	2.93	10.8	837	35	0.3	100% Gl	BC	237	5	18.5%	10.8%	7.7%	4.7
LS03	91	0.24	40.0	109	22	0.6	100% Gl	BC	237	5	50.0%	40.0%	10.0%	4.3
LS03	92	0.37	68.0	86	43	1.0	100% Gl	BC	237	5	81.5%	68.0%	13.5%	3.3
LS04	1	3.87	19.2	1138	34	2.1	100% Gl	BC	237	5	29.0%	19.2%	9.8%	4.5
LS04	2	2.45	60.0	510	48	3.7	50% Gl 50% Bg	B	146	5	72.5%	60.0%	12.5%	3.8
LS04	3	2.20	51.0	314	70	4.4	100% Bg	AB	144	11	65.0%	51.0%	14.0%	8.1
LS04	4	1.48	15.2	477	31	2.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	5	1.29	20.4	645	20	1.8	100% Bg	AB	144	11	30.5%	20.4%	10.1%	9.7
LS04	6	1.90	15.2	542	35	2.0	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	7	1.26	15.2	393	32	2.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	8	1.24	15.2	375	33	2.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	9	0.25	44.0	208	12	5.3	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
LS04	10	0.36	15.2	200	18	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	11	1.63	41.3	493	33	0.9	100% Bg	AB	144	11	54.8%	41.3%	13.5%	8.7
LS04	12	0.42	17.6	280	15	0.6	100% Bg	AB	144	11	29.0%	17.6%	11.4%	9.6
LS04	13	2.01	14.4	591	34	0.2	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
LS04	14	1.95	15.2	573	34	0.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	15	0.94	6.6	361	26	0.5	100% Bg	AB	144	11	14.3%	6.6%	7.7%	10.2
LS04	16	1.16	15.2	61	26	2.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS04	17	0.55	15.2	211	26	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS04	18	0.71	1.6	273	26	0.2	100% Bg	AB	144	11	8.0%	1.6%	6.4%	10.3
LS04	19	0.27	32.0	135	20	2.5	100% Bg	AB	144	11	41.0%	32.0%	9.0%	9.7
LS04	20	0.51	18.8	204	25	0.3	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
LS04	21	1.04	40.4	346	30	0.6	100% Bg	AB	144	11	54.5%	40.4%	14.1%	8.6
LS04	22	1.92	48.0	400	48	0.1	100% Bg	AB	144	11	62.0%	48.0%	14.0%	8.3
LS04	23	1.56	48.0	312	50	0.5	100% Bg	AB	144	11	62.0%	48.0%	14.0%	8.3
LS04	24	2.05	48.0	554	37	1.4	100% Bg	AB	144	11	62.0%	48.0%	14.0%	8.3
LS04	25	0.52	56.0	216	24	1.8	100% Bg	AB	144	11	71.0%	56.0%	15.0%	7.6
LS04	26	0.66	77.0	286	23	2.1	100% Bg	AB	144	11	92.0%	77.0%	15.0%	4.5
LS04	27	0.13	80.0	130	10	3.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS04	28	0.27	64.0	225	12	0.8	100% Bg	AB	144	11	77.0%	64.0%	13.0%	7.4
LS04	29	0.13	80.0	50	26	2.5	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS04	30	0.17	68.0	43	39	2.5	100% Bg	AB	144	11	83.0%	68.0%	15.0%	6.3
LS04	31	0.48	33.2	171	28	3.1	100% Bg	AB	144	11	46.3%	33.2%	13.1%	9.0
LS04	32	2.07	18.2	627	33	0.3	100% Bg	AB	144	11	29.8%	18.2%	11.6%	9.6
LS05	1	0.53	60.4	126	42	1.3	100% Gl	BC	237	5	72.9%	60.4%	12.5%	3.7
LS05	2	1.13	58.8	226	50	0.8	100% Gl	BC	237	5	71.1%	58.8%	12.3%	3.8
LS05	3	0.40	62.0	121	33	1.3	100% Gl	BC	237	5	74.8%	62.0%	12.8%	3.7
LS05	4	3.85	17.6	916	42	0.4	100% Gl	BC	237	5	27.5%	17.6%	9.9%	4.5
LS05	5	3.05	47.5	327	93	0.6	30% Gil 70% Gl	B	146	5	62.0%	47.5%	14.5%	3.9
LS05	6	1.68	45.5	266	63	0.7	50% Gil 50% Gl	B	146	5	59.0%	45.5%	13.5%	4.0
LS05	7	2.02	18.7	429	47	0.5	40% Gil 60% Gl	B	146	5	22.3%	18.7%	3.5%	4.8
LS05	8	2.12	23.6	557	38	0.8	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
LS05	9	2.46	21.0	745	33	0.8	100% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
LS05	10	2.03	20.0	597	34	0.4	95% Bg 5% Gl	AB	144	11	27.5%	20.0%	7.5%	10.1
LS05	11	2.55	17.0	472	54	1.2	100% Gl	BC	237	5	34.3%	17.0%	17.3%	4.2
LS05	12	1.52	22.0	281	54	0.8	100% Gl	BC	237	5	33.5%	22.0%	11.5%	4.4
LS05	13	3.27	21.9	681	48	0.2	40% Gil 60% Gl	B	146	5	26.0%	21.9%	4.1%	4.8
LS05	14	0.86	5.2	179	48	0.6	40% Gil 60% Gl	B	146	5	9.5%	5.2%	4.3%	4.8
LS05	15	4.89	21.0	1018	48	1.0	100% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
LS05	16	2.51	23.6	643	39	2.4	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
LS05	17	2.46	15.2	630	39	0.3	30% Gil 70% Gl	B	146	5	27.5%	15.2%	12.3%	4.4
LS05	18	0.75	15.2	300	25	1.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
LS05	19	2.31	19.4	513	45	1.3	30% Gil 70% Gl	B	146	5	27.5%	19.4%	8.1%	4.6
LS05	20	2.33	23.6	613	38	1.4	50% Gil 50% Gl	B	146	5	27.5%	23.6%	3.9%	4.8
LS05	21	0.81	11.6	245	33	0.8	40% Gil 60% Gl	B	146	5	23.8%	11.6%	12.2%	4.5
LS05	22	0.94	43.3	313	30	0.6	100% Gl	BC	237	5	53.8%	43.3%	10.4%	4.3
LS05	23	0.63	38.0	165	38	2.5	100% Gl	BC	237	5	46.3%	38.0%	8.3%	4.5
LS05	24	1.40	20.0	350	40	0.5	90% Gl 10% Dbl	BC	237	5	27.5%	20.0%	7.5%	4.6
LS05	25	0.38	20.0	122	31	2.9	100% Dbl	AB	144	11	27.5%	20.0%	7.5%	10.1
LS05	26	1.48	14.7	477	31	0.8	50% Dbl 50% Bg	AB	144	11	21.5%	14.7%	6.8%	10.2
LS05	27	1.43	23.6	420	34	0.7	90% Dbl 10% Gl	AB	144	11	27.5%	23.6%	3.9%	10.5
LS05	28	2.00	23.6	500	40	0.6	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
LS05	29	1.93	8.8	371	52	2.8	100% Gil	B	146	5	15.5%	8.8%	6.7%	4.7
LS05	30	2.72	23.6	680	40	1.6	30% Gil 70% Gl	B	146	5	27.5%	23.6%	3.9%	4.8
LS05	31	1.64	15.2	512	32	0.8	100% Gil	B	146	5	27.5%	15.2%	12.3%	4.4
LS05	32	0.79	29.6	232	34	0.4	100% Gil	B	146	5	42.5%	29.6%	12.9%	4.3
LS05	33	5.66	56.0	943	60	1.9	70% Gil 30% Gl	B	146	5	71.0%	56.0%	15.0%	3.6
LS05	34	0.87	72.0	543	16	2.0	50% Gil 50% Gl	B	146	5	86.0%	72.0%	14.0%	3.0
LS05	35	1.23	56.0	768	16	0.4	70% Bg 30% Gil	B	146	5	68.0%	56.0%	12.0%	3.9
LS05	36	9.66	45.5	1207	80	0.9	60% Bg 30% Gl 10%	AB	144	11	57.5%	45.5%	12.0%	8.8
LS05	37	0.52	64.0	325	16	0.3	60% Bg 40% Gl	B	146	5	77.0%	64.0%	13.0%	3.6
LS05	38	0.67	72.0	418	16	1.0	90% Gl 10% Db	BC	237	5	86.0%	72.0%	14.0%	3.0
LS05	39	4.72	12.0	2360	20	0.5	90% Db 10% Gl	AB	144	11	23.0%	12.0%	11.0%	9.8
LS05	40	4.88	0.0	750	65	0.6	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	41	3.99	0.0	798	50	0.3	20% Db 80% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	42	4.67	0.0	667	70	5.0	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	43	0.73	80.0	486	15	0.3	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
LS05	44	0.70	72.0	437	16	0.7	20% Db 80% Gl	BC	237	5	86.0%	72.0%	14.0%	3.0
LS05	45	0.35	80.0	269	13	1.3	100% Db	AB	144	11	95.0%	80.0%	15.0%	3.5
LS05	46	1.35	72.0	225	60	1.8	60% Db 40% Gl	B	146	5	86.0%	72.0%	14.0%	3.0
LS05	47	2.61	72.0	652	40	0.4	20% Db 80% Gl	BC	237	5	86.0%	72.0%	14.0%	3.0
LS05	48	4.34	76.0	657	66	0.2	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
LS05	49	1.40	31.0	636	22	0.8	100% Gl	BC	237	5	47.8%	31.0%	16.8%	4.0
LS05	50	0.28	80.0	215	13	0.5	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
LS05	51	3.28	4.4	328	100	3.0	100% Gl	BC	237	5	10.3%	4.4%	5.9%	4.8
LS05	52	0.91	55.3	165	55	0.8	100% Gl	BC	237	5	67.3%	55.3%	11.9%	3.9
LS05	53	0.85	76.0	154	55	0.0	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
LS05	54	1.33	38.3	665	20	2.7	100% Gl	BC	237	5	50.9%	38.3%	12.6%	4.2
LS05	55	2.50	16.0	641	39	0.7	100% Gl	BC	237	5	23.0%	16.0%	7.0%	4.7
LS05	56	0.22	57.1	100	22	4.5	100% Gl	BC	237	5	70.1%	57.1%	13.0%	3.8
LS05	57	2.29	80.0	327	70	0.2	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
LS05	58	2.27	12.8	613	37	0.2	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
LS05	59	0.45	32.0	145	31	0.5	100% Gl	BC	237	5	44.0%	32.0%	12.0%	4.3
LS05	60	0.58	17.6	152	38	0.6	100% Gl	BC	237	5	29.0%	17.6%	11.4%	4.4
LS05	61	0.34	18.8	161	21	0.8	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
LS05	62	2.01	45.7	648	31	1.8	20% Dl 80% Gl	BC	237	5	58.3%	45.7%	12.6%	4.1
LS05	63	1.50	41.0	306	49	0.6	100% Gl	BC	237	5	53.0%	41.0%	12.0%	4.2
LS05	64	1.11	32.0	370	30	1.5	60% Dl 40% Gl	AB	144	11	41.0%	32.0%	9.0%	9.7
LS05	65	3.14	25.0	373	84	0.9	100% Gl	BC	237	5	33.5%	25.0%	8.5%	4.5
LS05	66	0.89	69.2	145	61	4.8	100% Gl	BC	237	5	83.8%	69.2%	14.6%	3.1
LS05	67	0.52	15.5	152	34	4.8	100% Gl	BC	237	5	23.0%	15.5%	7.5%	4.6
LS05	68	4.73	0.0	675	70	1.3	15% Bg 85% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	69	7.29	35.5	857	85	0.7	90% Bg 10% Gl	AB	144	11	47.0%	35.5%	11.5%	9.2
LS05	70	1.52	80.0	1085	14	0.9	50% Bg 50% Gl	B	146	5	95.0%	80.0%	15.0%	2.0
LS05	71	0.96	80.0	685	14	1.1	50% Bg 50% Gl	B	146	5	95.0%	80.0%	15.0%	2.0
LS05	72	5.93	54.5	885	67	0.4	8% Bg 35% Gl 34% L	BC	237	5	68.0%	54.5%	13.5%	3.8
LS05	73	2.58	43.0	505	51	0.3	100% Bg	AB	144	11	56.0%	43.0%	13.0%	8.7
LS05	74	11.04	47.0	1472	75	1.2	90% Bg 10% Gil	AB	144	11	59.0%	47.0%	12.0%	8.7
LS05	75	10.38	0.0	1038	100	2.2	70% Bg 20% Gil 10%	AB	144	11	5.0%	0.0%	5.0%	10.5
LS05	76	0.45	76.0	450	10	0.2	100% Bg	AB	144	11	90.5%	76.0%	14.5%	5.0
LS05	77	0.48	80.0	436	11	0.4	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS05	78	3.33	0.0	594	56	0.4	50% Bg 50% Gl	B	146	5	5.0%	0.0%	5.0%	4.8

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS05	79	7.59	0.0	759	100	1.0	50% Bg 50% Gl	B	146	5	5.0%	0.0%	5.0%	4.8
LS05	80	1.59	28.5	212	75	0.4	100% Bg	AB	144	11	38.0%	28.5%	9.5%	9.7
LS05	81	2.29	0.0	381	60	1.1	60% Db 40% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS05	82	3.75	25.0	797	47	1.3	50% Bg 50% Gl	B	146	5	43.3%	25.0%	18.3%	4.0
LS05	83	0.79	15.2	246	32	4.7	100% Gl	BC	237	5	24.5%	15.2%	9.3%	4.6
LS05	84	1.25	62.0	186	67	0.9	70% LI 30% Gl	BC	237	5	77.0%	62.0%	15.0%	3.4
LS05	85	0.94	50.5	167	56	1.0	100% LI	BC	237	5	63.5%	50.5%	13.0%	3.9
LS05	86	0.70	60.0	350	20	1.1	50% LI 50% Gl	BC	237	5	72.5%	60.0%	12.5%	3.8
LS05	87	2.32	18.0	301	77	0.3	90% Db 10%Gl	AB	144	11	26.0%	18.0%	8.0%	10.0
LS05	88	0.50	4.0	113	44	2.1	100% Db	AB	144	11	9.5%	4.0%	5.5%	10.4
LS05	89	1.31	10.0	131	100	2.0	100% Db	AB	144	11	17.8%	10.0%	7.8%	10.1
LS05	90	0.96	24.8	184	52	2.7	100% Gl	BC	237	5	36.5%	24.8%	11.7%	4.4
LS05	91	7.47	0.0	747	100	1.4	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	92	0.70	17.6	175	40	4.8	100% Bg	AB	144	11	29.0%	17.6%	11.4%	9.6
LS05	93	7.11	0.0	711	100	0.6	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	94	1.02	40.0	161	63	1.6	100% Gl	BC	237	5	50.0%	40.0%	10.0%	4.3
LS05	95	2.52	47.0	219	115	1.7	100% Gl	BC	237	5	59.0%	47.0%	12.0%	4.1
LS05	96	2.09	34.5	181	115	1.4	100% Gl	BC	237	5	45.5%	34.5%	11.0%	4.3
LS05	97	1.01	46.0	87	115	1.5	100% Gl	BC	237	5	57.5%	46.0%	11.5%	4.1
LS05	98	2.11	5.0	314	67	1.1	70% Bg 30% Gl	B	146	5	11.0%	5.0%	6.0%	4.7
LS05	99	0.54	80.0	300	18	1.1	50% Bg 50% Gl	B	146	5	95.0%	80.0%	15.0%	2.0
LS05	100	0.70	39.7	162	43	1.2	100% Bg	AB	144	11	50.8%	39.7%	11.0%	9.2
LS05	101	2.91	16.7	427	68	0.4	100% Bg	AB	144	11	23.8%	16.7%	7.1%	10.2
LS05	102	0.73	18.0	178	41	1.5	100% Bg	AB	144	11	25.3%	18.0%	7.3%	10.1
LS05	103	1.45	16.0	278	52	0.3	100% Bg	AB	144	11	23.0%	16.0%	7.0%	10.2
LS05	104	1.57	20.3	253	62	0.1	100% Bg	AB	144	11	29.8%	20.3%	9.5%	9.8
LS05	105	4.34	20.5	986	44	0.1	100% Bg	AB	144	11	29.0%	20.5%	8.5%	9.9
LS05	106	2.07	18.7	350	59	0.1	100% Bg	AB	144	11	27.5%	18.7%	8.8%	9.9
LS05	107	1.60	47.5	320	50	2.9	100% Bg	AB	144	11	59.0%	47.5%	11.5%	8.8
LS05	108	7.79	25.1	973	80	1.0	100% Bg	AB	144	11	33.5%	25.1%	8.4%	9.9
LS05	109	4.48	22.0	1723	26	0.4	80% Bg 20% Gl	B	146	5	45.5%	22.0%	23.5%	3.8
LS05	110	6.22	5.0	622	100	0.4	80% Bg 20% Gl	B	146	5	11.0%	5.0%	6.0%	4.7
LS05	111	2.12	22.0	757	28	0.7	100% Gl	BC	237	5	50.0%	22.0%	28.0%	3.6
LS05	112	0.99	23.0	198	50	0.7	100% Gl	BC	237	5	32.0%	23.0%	9.0%	4.5
LS05	113	2.79	25.0	1116	25	1.9	100% Gl	BC	237	5	52.3%	25.0%	27.3%	3.5
LS05	114	0.45	16.8	70	64	3.8	100% Gl	BC	237	5	27.5%	16.8%	10.7%	4.5
LS05	115	0.57	76.0	407	14	3.0	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
LS05	116	0.28	76.0	200	14	0.5	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
LS05	117	0.85	76.0	653	13	1.0	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
LS05	118	14.06	80.0	1171	120	0.2	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
LS05	119	3.87	22.0	1935	20	1.4	100% Gl	BC	237	5	45.5%	22.0%	23.5%	3.8
LS05	120	2.62	0.0	262	100	0.8	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
LS05	121	0.86	12.0	156	55	2.8	100% Bg	AB	144	11	21.5%	12.0%	9.5%	9.9
LS05	122	6.84	23.0	2442	28	1.2	100% Bg	AB	144	11	47.8%	23.0%	24.8%	7.8
LS05	123	0.38	12.8	88	43	2.0	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
LS05	124	1.26	15.2	381	33	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS05	125	4.52	20.0	1506	30	0.5	100% Bg	AB	144	11	45.5%	20.0%	25.5%	7.8
LS05	126	0.54	72.0	415	13	0.5	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
LS05	127	2.26	21.0	982	23	0.5	100% Bg	AB	144	11	47.8%	21.0%	26.8%	7.6
LS05	128	3.16	23.0	1264	25	1.6	90% Gl 10% Bg	BC	237	5	47.8%	23.0%	24.8%	3.7
LS05	129	1.05	32.5	169	62	0.9	100% Bg	AB	144	11	42.5%	32.5%	10.0%	9.5
LS05	130	0.90	13.6	692	13	1.5	60% Gl 40% Bg	B	146	5	24.5%	13.6%	10.9%	4.5
LS05	131	0.71	32.0	177	40	0.5	100% Gl	BC	237	5	44.0%	32.0%	12.0%	4.3
LS05	132	1.37	18.0	456	30	5.2	100% Gl	BC	237	5	36.5%	18.0%	18.5%	4.1
LS05	133	0.53	72.0	407	13	5.1	100% Gl	BC	237	5	86.0%	72.0%	14.0%	3.0
LS05	134	1.98	72.0	271	73	0.3	100% Gl	BC	237	5	86.0%	72.0%	14.0%	3.0
LS05	135	7.35	4.0	816	90	0.6	100% Bg	AB	144	11	41.0%	4.0%	37.0%	7.1
LS05	136	3.57	4.0	396	90	0.5	70% Gl 30% DI	B	146	5	41.0%	4.0%	37.0%	3.5
LS05	137	4.22	4.0	468	90	3.1	100% DI	AB	144	11	41.0%	4.0%	37.0%	7.1
LS05	138	0.77	48.0	285	27	1.5	100% DI	AB	144	11	59.0%	48.0%	11.0%	8.9
LS05	139	0.78	16.0	111	70	2.2	100% DI	AB	144	11	23.0%	16.0%	7.0%	10.2
LS05	140	0.48	42.0	133	36	0.4	100% Gl	BC	237	5	53.8%	42.0%	11.8%	4.2
LS05	141	5.88	10.8	1130	52	0.6	100% Bg	AB	144	11	22.3%	10.8%	11.5%	9.7
LS05	142	1.48	23.6	448	33	1.6	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
LS05	143	4.19	9.1	517	81	1.8	100% DI	AB	144	11	17.0%	9.1%	7.9%	10.1
LS05	144	2.46	21.0	768	32	3.3	100% DI	AB	144	11	25.3%	21.0%	4.3%	10.5
LS05	145	0.13	17.3	39	33	0.1	100% Gl	BC	237	5	20.0%	17.3%	2.7%	4.9
LS05	146	1.08	22.7	317	34	0.4	30% DI 70% Gl	B	146	5	26.8%	22.7%	4.0%	4.8
LS05	147	0.53	22.7	147	36	1.3	100% DI	AB	144	11	26.8%	22.7%	4.0%	10.5
LS05	148	1.98	21.0	495	40	1.0	80% Bg 20% DI	AB	144	11	25.3%	21.0%	4.3%	10.5
LS05	149	1.81	0.4	489	37	0.4	100% Bg	AB	144	11	5.8%	0.4%	5.4%	10.5
LS05	150	1.39	21.0	408	34	1.5	100% DI	AB	144	11	25.3%	21.0%	4.3%	10.5
LS05	151	0.92	15.3	262	35	8.1	100% DI	AB	144	11	19.3%	15.3%	4.0%	10.5
LS05	152	1.87	15.8	505	37	2.9	90% Bg 10% DI	AB	144	11	20.8%	15.8%	5.0%	10.4
LS05	153	0.80	21.0	307	26	3.8	100% DI	AB	144	11	25.3%	21.0%	4.3%	10.5
LS05	154	0.72	20.1	189	38	0.6	100% DI	AB	144	11	24.5%	20.1%	4.4%	10.5
LS05	155	4.29	27.3	1340	32	1.3	100% Bg	AB	144	11	32.8%	27.3%	5.5%	10.2
LS05	156	3.95	26.7	1067	37	1.0	100% Bg	AB	144	11	31.3%	26.7%	4.5%	10.4
LS05	157	0.52	29.9	152	34	0.7	100% Bg	AB	144	11	35.0%	29.9%	5.1%	10.3
LS05	158	6.86	17.5	1143	60	0.1	100% Bg	AB	144	11	22.3%	17.5%	4.7%	10.4
LS05	159	0.45	33.0	136	33	0.6	100% Bg	AB	144	11	38.8%	33.0%	5.8%	10.1
LS05	160	1.05	39.0	187	56	0.6	100% Bg	AB	144	11	50.0%	39.0%	11.0%	9.2
LS05	161	1.19	20.1	360	33	0.4	100% Bg	AB	144	11	24.5%	20.1%	4.4%	10.5
LS05	162	0.95	23.6	306	31	1.6	50% Bg 50% Gl	B	146	5	27.5%	23.6%	3.9%	4.8
LS05	163	3.08	22.7	832	37	0.1	100% Bg	AB	144	11	26.8%	22.7%	4.0%	10.5
LS05	164	4.87	21.9	1316	37	0.3	100% Bg	AB	144	11	26.0%	21.9%	4.1%	10.5
LS05	165	0.73	33.0	208	35	1.2	100% Bg	AB	144	11	38.8%	33.0%	5.8%	10.1
LS05	166	3.28	22.7	841	39	0.6	100% Bg	AB	144	11	26.8%	22.7%	4.0%	10.5
LS05	167	0.72	65.0	116	62	1.5	100% Bg	AB	144	11	80.0%	65.0%	15.0%	6.7
LS05	168	0.62	36.8	167	37	1.5	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
LS05	169	2.03	0.0	213	95	1.3	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.4
LS05	170	0.75	26.7	227	33	0.7	100% Bg	AB	144	11	31.3%	26.7%	4.5%	10.5
LS05	171	1.07	15.2	243	44	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS05	172	0.57	26.0	172	33	2.5	100% Bg	AB	144	11	38.8%	26.0%	12.8%	9.3
LS05	173	0.75	23.6	214	35	0.8	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS05	174	1.82	23.6	371	49	0.0	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS05	175	1.64	23.6	328	50	0.9	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
LS05	176	0.77	23.6	213	36	0.5	50% Bg 50% DI	AB	144	11	27.5%	23.6%	3.9%	10.5
LS05	177	0.36	42.4	102	35	3.8	90% DI 10% Bg	AB	144	11	50.0%	42.4%	7.6%	9.7
LS05	178	1.04	27.8	305	34	0.4	100% DI	AB	144	11	34.3%	27.8%	6.5%	10.1
LS05	179	0.64	23.6	206	31	1.0	100% DI	AB	144	11	27.5%	23.6%	3.9%	10.5
LS05	180	2.71	22.0	1003	27	2.7	100% DI	AB	144	11	31.3%	22.0%	9.3%	9.8
LS05	181	0.34	47.0	200	17	1.1	100% Bg	AB	144	11	54.5%	47.0%	7.5%	9.6
LS05	182	0.76	21.0	447	17	3.9	100% Bg	AB	144	11	25.3%	21.0%	4.3%	10.5
LS05	183	3.14	25.3	1162	27	0.4	100% Bg	AB	144	11	32.0%	25.3%	6.7%	10.1
LS05	184	2.63	48.0	292	90	1.4	90% Bg 10% Db	AB	144	11	59.0%	48.0%	11.0%	8.9
LS05	185	0.46	64.0	164	28	0.8	40% GI 60% LI	B	146	5	77.0%	64.0%	13.0%	3.6
LS05	186	0.48	72.0	171	28	1.6	100% Db	AB	144	11	86.0%	72.0%	14.0%	6.0
LS05	187	3.40	0.8	566	60	1.7	80% DI 20% GI	AB	144	11	6.5%	0.8%	5.7%	10.4
LS06	1	2.06	38.0	312	66	0.4	100% Bg	AB	144	11	50.0%	38.0%	12.0%	9.1
LS06	2	1.08	14.9	270	40	2.5	100% GI	BC	237	5	20.0%	14.9%	5.1%	4.8
LS06	3	2.10	21.7	677	31	2.2	50% GI 50% Bg	B	146	5	29.0%	21.7%	7.3%	4.6
LS06	4	3.37	18.4	717	47	0.6	100% GI	BC	237	5	23.0%	18.4%	4.6%	4.8
LS06	5	0.52	15.8	133	39	0.8	100% GI	BC	237	5	20.8%	15.8%	5.0%	4.8
LS06	6	0.42	33.0	135	31	1.7	100% GI	BC	237	5	38.8%	33.0%	5.8%	4.7
LS06	7	2.48	19.3	751	33	0.6	100% GI	BC	237	5	23.8%	19.3%	4.5%	4.8
LS06	8	7.71	21.9	2267	34	4.4	100% GI	BC	237	5	26.0%	21.9%	4.1%	4.8
LS06	9	1.17	23.6	354	33	0.3	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	10	3.25	23.6	984	33	1.2	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	11	0.82	23.6	273	30	2.2	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	12	0.67	23.6	257	26	0.6	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	13	1.22	23.6	508	24	1.8	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	14	1.75	23.6	406	43	0.4	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	15	1.50	23.6	441	34	1.3	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	16	1.70	23.6	500	34	0.8	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	17	3.13	15.8	1009	31	0.3	100% GI	BC	237	5	20.8%	15.8%	5.0%	4.8
LS06	18	3.10	16.6	1000	31	0.7	100% GI	BC	237	5	26.3%	16.6%	9.6%	4.5
LS06	19	6.17	11.5	1990	31	0.8	100% GI	BC	237	5	17.0%	11.5%	5.5%	4.8
LS06	20	2.31	23.6	607	38	1.2	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	21	0.24	23.6	114	21	2.5	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	22	0.67	13.5	181	37	2.1	100% GI	BC	237	5	17.8%	13.5%	4.2%	4.8
LS06	23	0.69	21.0	230	30	2.2	100% GI	BC	237	5	25.3%	21.0%	4.3%	4.8
LS06	24	0.93	20.1	442	21	1.6	100% GI	BC	237	5	24.5%	20.1%	4.4%	4.8
LS06	25	5.43	21.9	1810	30	0.4	65% GI 35% LI	BC	237	5	26.0%	21.9%	4.1%	4.8
LS06	26	2.73	16.7	634	43	1.4	100% GI	BC	237	5	21.5%	16.7%	4.8%	4.8
LS06	27	0.21	67.5	84	25	0.9	100% GI	BC	237	5	80.0%	67.5%	12.5%	3.5
LS06	28	1.00	42.7	400	25	0.6	50% GI 50% LI	BC	237	5	50.0%	42.7%	7.3%	4.5
LS06	29	1.13	24.9	322	35	0.5	50% LI 50% GI	BC	237	5	32.0%	24.9%	7.1%	4.6
LS06	30	2.25	34.4	703	32	3.9	40% LI 60% GI	BC	237	5	40.8%	34.4%	6.3%	4.6
LS06	31	1.45	29.7	659	22	0.4	90% LI 10% GI	BC	237	5	36.5%	29.7%	6.8%	4.6
LS06	32	2.55	23.4	554	46	0.3	100% LI	BC	237	5	27.9%	23.4%	4.5%	4.8
LS06	33	1.36	14.9	680	20	0.2	100% LI	BC	237	5	20.0%	14.9%	5.1%	4.8
LS06	34	1.18	23.6	357	33	0.4	100% LI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	35	2.69	23.6	867	31	0.8	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	36	0.52	23.6	247	21	0.6	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	37	0.76	23.6	281	27	2.9	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	38	0.60	23.6	200	30	4.4	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	39	0.61	23.6	381	16	0.5	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	40	0.41	23.6	205	20	4.3	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	41	2.17	21.9	723	30	0.2	100% LI	BC	237	5	26.0%	21.9%	4.1%	4.8
LS06	42	2.01	13.2	648	31	0.9	100% GI	BC	237	5	18.5%	13.2%	5.3%	4.8
LS06	43	1.04	21.0	335	31	4.1	100% GI	BC	237	5	25.3%	21.0%	4.3%	4.8
LS06	44	1.20	23.6	387	31	1.8	30% LI 70% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	45	0.86	19.5	111	77	2.6	100% GI	BC	237	5	27.5%	19.5%	8.0%	4.6
LS06	46	0.47	3.5	276	17	2.5	100% GI	BC	237	5	8.0%	3.5%	4.5%	4.8
LS06	47	1.46	23.6	417	35	5.2	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	48	1.04	9.7	416	25	0.7	50% GI 50% LI	BC	237	5	15.5%	9.7%	5.8%	4.7
LS06	49	1.48	23.6	411	36	1.7	40% LI 60% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	50	0.71	20.1	308	23	0.6	100% GI	BC	237	5	24.5%	20.1%	4.4%	4.8
LS06	51	1.48	23.6	336	44	1.0	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	52	2.14	20.1	548	39	2.6	100% GI	BC	237	5	24.5%	20.1%	4.4%	4.8
LS06	53	9.48	22.1	2962	32	0.2	100% GI	BC	237	5	29.6%	22.1%	7.5%	4.6
LS06	54	3.88	23.6	994	39	2.3	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	55	2.31	18.4	721	32	2.9	50% GI 50% LI	BC	237	5	23.0%	18.4%	4.6%	4.8
LS06	56	1.97	19.3	358	55	2.8	20% LI 80% GI	BC	237	5	23.8%	19.3%	4.5%	4.8
LS06	57	4.28	23.6	1097	39	4.0	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	58	3.20	14.1	711	45	1.3	100% GI	BC	237	5	19.3%	14.1%	5.2%	4.8
LS06	59	3.01	23.6	912	33	0.2	90% LI 10% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	60	2.70	20.1	843	32	0.8	10% LI 90% GI	BC	237	5	24.5%	20.1%	4.4%	4.8
LS06	61	1.78	20.1	481	37	3.3	100% GI	BC	237	5	24.5%	20.1%	4.4%	4.8
LS06	62	3.10	13.2	968	32	0.3	70% GI 30% M	B	146	5	18.5%	13.2%	5.3%	4.8
LS06	63	4.53	23.6	1258	36	3.1	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	64	1.58	23.6	427	37	2.1	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	65	0.54	23.6	150	36	0.7	100% M	B	146	5	27.5%	23.6%	3.9%	4.8
LS06	66	1.52	23.6	475	32	2.0	100% M	B	146	5	27.5%	23.6%	3.9%	4.8
LS06	67	4.22	12.3	1361	31	0.2	60% LI 40% GI	BC	237	5	17.8%	12.3%	5.4%	4.8
LS06	68	0.40	23.6	181	22	2.1	100% LI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	69	4.10	14.1	1205	34	1.0	70% M 30% GI	B	146	5	19.3%	14.1%	5.2%	4.8
LS06	70	0.72	23.6	218	33	1.5	60% LI 40% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	71	3.83	0.0	425	90	0.9	100% GI	BC	237	5	5.0%	0.0%	5.0%	4.8
LS06	72	3.89	0.0	505	77	5.8	100% GI	BC	237	5	5.0%	0.0%	5.0%	4.8
LS06	73	10.31	22.7	3032	34	0.3	30% Bg 70% GI	B	146	5	28.1%	22.7%	5.4%	4.7
LS06	74	0.51	23.6	268	19	3.4	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	75	2.38	21.9	767	31	1.2	40% LI 60% GI	BC	237	5	26.0%	21.9%	4.1%	4.8
LS06	76	1.79	21.9	577	31	0.2	50% LI 50% GI	BC	237	5	26.0%	21.9%	4.1%	4.8
LS06	77	0.19	23.6	95	20	1.0	100% LI	BC	237	5	27.5%	23.6%	3.9%	4.8

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Pervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS06	78	3.44	21.0	1109	31	1.7	100% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
LS06	79	0.31	44.0	83	37	3.3	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
LS06	80	1.30	40.0	254	51	0.8	100% LI	BC	237	5	50.0%	40.0%	10.0%	4.3
LS06	81	0.96	24.0	369	26	0.5	90% LI 10% Gl	BC	237	5	32.0%	24.0%	8.0%	4.6
LS06	82	0.55	23.6	343	16	2.9	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
LS06	83	0.95	21.9	306	31	1.4	100% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
LS07	1	4.98	28.0	474	105	0.8	100% Bg	AB	144	11	38.0%	28.0%	10.0%	9.6
LS07	2	0.85	0.0	141	60	0.6	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	3	3.17	21.0	932	34	0.2	100% Bg	AB	144	11	25.3%	21.0%	4.3%	10.5
LS07	4	1.55	45.0	344	45	0.4	100% Bg	AB	144	11	59.0%	45.0%	14.0%	8.5
LS07	5	0.85	35.0	197	43	1.4	100% Bg	AB	144	11	47.0%	35.0%	12.0%	9.2
LS07	6	0.56	0.0	186	30	0.5	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	7	0.96	0.0	160	60	0.1	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	8	1.17	0.0	212	55	0.6	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	9	0.82	0.0	174	47	3.5	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	10	1.15	0.0	244	47	3.0	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	11	6.24	26.6	542	115	2.5	100% Bg	AB	144	11	38.8%	26.6%	12.2%	9.3
LS07	12	1.42	0.0	208	68	1.4	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
LS07	13	2.93	18.0	443	66	0.4	100% Bg	AB	144	11	26.0%	18.0%	8.0%	10.0
LS07	14	1.01	4.5	126	80	1.5	100% Bg	AB	144	11	11.8%	4.5%	7.3%	10.2
LS07	15	0.14	32.0	107	13	0.1	100% Gil	B	146	5	41.0%	32.0%	9.0%	4.5
LS07	16	0.44	16.0	115	38	1.4	100% Gil	B	146	5	41.0%	16.0%	25.0%	3.8
LS07	17	2.50	16.0	176	142	3.4	50% Gil 50% Bg	B	146	5	41.0%	16.0%	25.0%	3.8
LS08	1	1.00	10.9	270	37	3.9	100% Bg	AB	144	11	18.1%	10.9%	7.2%	10.2
LS08	2	1.01	13.2	246	41	1.7	50% Gil 50% Bg	B	146	5	23.8%	13.2%	10.6%	4.5
LS08	3	0.09	44.0	69	13	0.1	100% Gil	B	146	5	57.5%	44.0%	13.5%	4.0
LS08	4	3.93	11.7	538	73	3.7	100% Bg	AB	144	11	19.3%	11.7%	7.6%	10.1
LS08	5	0.66	23.7	220	30	0.0	100% Gil	B	146	5	28.3%	23.7%	4.5%	4.8
LS08	6	0.35	28.0	205	17	0.9	100% Bg	AB	144	11	38.0%	28.0%	10.0%	9.6
LS08	7	0.64	26.9	376	17	3.1	90% Bg 10% Gil	AB	144	11	37.4%	26.9%	10.5%	9.6
LS08	8	0.27	20.0	87	31	0.1	50% Gil 50% Bg	B	146	5	27.5%	20.0%	7.5%	4.6
LS08	9	1.43	28.4	461	31	0.5	100% Gil	B	146	5	40.3%	28.4%	11.9%	4.3
LS08	10	0.84	15.2	280	30	4.2	100% Gil	B	146	5	27.5%	15.2%	12.3%	4.4
LS08	11	0.08	58.4	36	22	4.3	100% Gil	B	146	5	72.5%	58.4%	14.1%	3.6
LS08	12	0.77	20.0	248	31	5.9	100% Gil	B	146	5	27.5%	20.0%	7.5%	4.6
LS08	13	0.42	18.8	127	33	1.1	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
LS09	1	1.77	14.8	520	34	2.0	35% LI 65% Gl	BC	237	5	26.8%	14.8%	12.0%	4.4
LS09	2	2.30	14.8	766	30	2.4	50% LI 50% Gl	BC	237	5	26.8%	14.8%	12.0%	4.4
LS09	3	0.21	36.8	70	30	1.2	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
LS09	4	0.15	26.0	42	35	1.1	100% Gl	BC	237	5	38.8%	26.0%	12.8%	4.3
LS09	5	1.53	13.2	382	40	0.2	90% Gl 10% Bg	BC	237	5	23.8%	13.2%	10.6%	4.5
LS09	6	0.88	13.8	352	25	0.4	100% Bg	AB	144	11	25.0%	13.8%	11.1%	9.7
LS09	7	0.42	12.8	175	24	0.0	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
LS09	8	0.57	14.0	247	23	0.6	80% Gl 20% Bg	B	146	5	25.3%	14.0%	11.3%	4.5
LS09	9	0.95	13.2	316	30	0.4	100% Bg	AB	144	11	23.8%	13.2%	10.6%	9.8
LS09	10	3.42	13.2	1036	33	1.5	20% LI 80% Gl	BC	237	5	23.8%	13.2%	10.6%	4.5
LS09	11	1.14	12.4	570	20	0.5	90% Bg 10% Gl	AB	144	11	22.3%	12.4%	9.9%	9.9
LS09	12	4.34	10.8	1009	43	0.8	70% Bg 18% Db 12%	B	146	5	21.1%	10.8%	10.3%	4.5
LS09	13	1.13	10.0	353	32	2.9	100% Bg	AB	144	11	18.4%	10.0%	8.4%	10.1
LS09	14	5.71	20.0	1730	33	0.2	50% Gl 50% LI	BC	237	5	25.3%	20.0%	5.2%	4.7
LS09	15	2.32	17.5	725	32	0.5	10% Db 30% Gl 60%	B	146	5	22.3%	17.5%	4.7%	4.8
LS09	16	0.30	16.0	78	38	0.1	100% Bg	AB	144	11	20.3%	16.0%	4.3%	10.5
LS09	17	2.03	25.1	495	41	1.0	100% Bg	AB	144	11	30.5%	25.1%	5.4%	10.3
LS09	18	0.98	20.1	426	23	0.4	100% Bg	AB	144	11	24.5%	20.1%	4.4%	10.5
LS09	19	1.49	23.7	496	30	0.1	100% Bg	AB	144	11	28.3%	23.7%	4.5%	10.4
LS09	20	1.48	26.6	435	34	1.6	100% Bg	AB	144	11	38.8%	26.6%	12.1%	9.3
LS09	21	1.07	13.2	243	44	0.6	100% Bg	AB	144	11	23.8%	13.2%	10.6%	9.8
LS09	22	1.73	14.2	288	60	0.8	100% Bg	AB	144	11	24.5%	14.2%	10.3%	9.8
LS09	23	2.47	19.3	588	42	2.1	100% Bg	AB	144	11	23.8%	19.3%	4.5%	10.4
LS09	24	0.39	34.2	105	37	0.9	100% Bg	AB	144	11	46.3%	34.2%	12.1%	9.2
LS09	25	3.08	26.2	1026	30	2.1	100% Bg	AB	144	11	38.0%	26.2%	11.8%	9.4
LS09	26	0.68	25.2	178	38	2.4	100% Bg	AB	144	11	37.3%	25.2%	12.1%	9.4
LS09	27	0.90	14.0	214	42	0.9	100% Bg	AB	144	11	25.3%	14.0%	11.3%	9.7
LS09	28	0.53	13.8	189	28	0.5	100% Bg	AB	144	11	25.0%	13.8%	11.1%	9.7
LS09	29	0.53	23.4	196	27	0.3	100% Bg	AB	144	11	35.0%	23.4%	11.6%	9.5
LS09	30	0.99	13.6	235	42	0.1	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
LS09	31	0.88	18.7	251	35	0.7	100% Bg	AB	144	11	26.0%	18.7%	7.3%	10.1
LS09	32	1.21	12.4	318	38	0.1	100% Bg	AB	144	11	22.3%	12.4%	9.9%	9.9
LS09	33	0.56	14.0	169	33	2.0	50% Gl 50% LI	BC	237	5	25.3%	14.0%	11.3%	4.5
LS09	34	0.43	13.2	172	25	1.8	40% Gl 60% Db	BC	237	5	23.8%	13.2%	10.6%	4.5
LS09	35	1.07	15.3	345	31	0.1	100% Bg	AB	144	11	22.3%	15.3%	6.9%	10.2
LS09	36	4.14	17.2	636	65	1.2	100% Bg	AB	144	11	27.2%	17.2%	10.0%	9.8
LS09	37	0.68	15.7	183	37	2.2	100% Bg	AB	144	11	24.8%	15.7%	9.1%	9.9
LS09	38	0.26	14.0	59	44	0.0	100% Bg	AB	144	11	25.3%	14.0%	11.3%	9.7
LS09	39	0.91	12.8	221	41	1.4	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
LS09	40	0.46	27.4	121	38	0.5	100% Bg	AB	144	11	39.5%	27.4%	12.1%	9.3
LS09	41	2.43	15.8	736	33	1.5	100% Bg	AB	144	11	27.5%	15.8%	11.7%	9.6
LS09	42	0.79	4.0	207	38	3.3	100% Bg	AB	144	11	12.5%	4.0%	8.5%	10.1
LS09	43	1.71	15.3	305	56	0.5	100% Bg	AB	144	11	22.3%	15.3%	6.9%	10.2
LS09	44	0.25	12.8	96	26	2.4	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
LS09	45	1.56	0.8	410	38	2.3	100% Bg	AB	144	11	6.5%	0.8%	5.7%	10.4
LS09	46	0.65	11.7	180	36	5.2	100% Bg	AB	144	11	20.9%	11.7%	9.2%	10.0
LS09	47	0.45	3.2	160	28	7.8	100% Bg	AB	144	11	11.0%	3.2%	7.8%	10.2
LS09	48	1.01	6.4	194	52	1.4	95% Bg 5% Gil	AB	144	11	17.0%	6.4%	10.6%	9.9
LS09	49	0.95	17.3	365	26	1.1	100% Gl	BC	237	5	29.0%	17.3%	11.7%	4.4
LS09	50	1.31	22.2	727	18	0.8	95% Bg 5% Gil	AB	144	11	32.8%	22.2%	10.6%	9.6
LS09	51	1.16	13.6	429	27	2.2	100% Gl	AB	144	11	24.5%	13.6%	10.9%	9.7
LS09	52	0.21	2.4	123	17	2.2	100% Gl	AB	144	11	9.5%	2.4%	7.1%	10.3
LS09	53	0.21	33.6	140	15	2.0	100% Gl	AB	144	11	44.0%	33.6%	10.4%	9.4
LS09	54	0.77	21.1	213	36	2.3	50% Bg 50% Gil	B	146	5	28.7%	21.1%	7.6%	4.6
LS09	55	0.39	10.7	102	38	3.3	100% Bg	AB	144	11	17.0%	10.7%	6.3%	10.3
LS09	56	1.81	3.2	402	45	1.6	75% Db 25% Gl	BC	237	5	11.0%	3.2%	7.8%	4.7
LS09	57	5.59	13.6	1863	30	2.4	50% Gl 40% LI	BC	237	5	24.5%	13.6%	10.9%	4.5

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS09	58	1.27	13.2	352	36	1.7	100% Bg	AB	144	11	23.8%	13.2%	10.6%	9.8
LS09	59	1.85	14.2	411	45	1.6	80% Db 20% Gl	BC	237	5	25.7%	14.2%	11.5%	4.5
LS09	60	0.53	16.8	407	13	1.3	100% Bg	AB	144	11	27.5%	16.8%	10.7%	9.7
LS09	61	3.40	15.1	809	42	0.2	30% Bg 70% Gil	B	146	5	19.7%	15.1%	4.6%	4.8
LS09	62	1.19	21.0	396	30	0.5	100% Gil	B	146	5	25.3%	21.0%	4.3%	4.8
LS10	1	3.25	20.1	833	39	3.2	100% Gl	BC	237	5	24.5%	20.1%	4.4%	4.8
LS10	2	0.79	35.5	179	44	4.0	100% Bg	AB	144	11	47.0%	35.5%	11.5%	9.2
LS10	3	1.03	40.5	264	39	1.1	100% Bg	AB	144	11	53.0%	40.5%	12.5%	8.9
LS10	4	0.24	72.0	88	27	3.5	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
LS10	5	0.16	80.0	50	32	2.8	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS10	6	0.14	80.0	50	28	0.9	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS10	7	0.56	12.0	311	18	5.2	100% Gl	BC	237	5	18.5%	12.0%	6.5%	4.7
LS10	8	0.07	24.0	53	13	8.0	100% Gl	BC	237	5	35.0%	24.0%	11.0%	4.4
LS10	9	0.30	38.0	230	13	1.9	100% Gl	BC	237	5	49.3%	38.0%	11.3%	4.3
LS10	10	1.19	12.8	396	30	5.3	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
LS10	11	0.17	43.2	51	33	3.0	100% Gl	BC	237	5	56.0%	43.2%	12.8%	4.1
LS10	12	0.63	40.0	217	29	5.3	100% Gl	BC	237	5	50.0%	40.0%	10.0%	4.3
LS10	13	4.80	12.4	1263	38	1.4	90% Gl 10% Bg	BC	237	5	22.3%	12.4%	9.9%	4.6
LS10	14	0.47	3.2	104	45	3.8	100% Bg	AB	144	11	11.0%	3.2%	7.8%	10.2
LS10	15	0.70	14.0	179	39	1.1	100% Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
LS11	1	5.05	4.7	918	55	1.0	100% DI	AB	144	11	10.3%	4.7%	5.6%	10.4
LS11	2	1.38	11.6	345	40	1.1	100% DI	AB	144	11	18.1%	11.6%	6.5%	10.3
LS11	3	1.65	17.7	412	40	2.4	100% DI	AB	144	11	25.0%	17.7%	7.2%	10.1
LS11	4	0.92	16.0	230	40	0.6	100% DI	AB	144	11	23.0%	16.0%	7.0%	10.2
LS11	5	3.71	13.4	824	45	4.0	100% DI	AB	144	11	24.2%	13.4%	10.8%	9.8
LS11	6	8.14	15.5	2035	40	2.5	100% DI	AB	144	11	24.5%	15.5%	9.0%	9.9
LS11	7	0.59	14.2	131	45	0.8	100% DI	AB	144	11	22.7%	14.2%	8.5%	10.0
LS11	8	0.43	13.3	95	45	1.2	100% DI	AB	144	11	21.5%	13.3%	8.2%	10.1
LS11	9	0.29	16.0	64	45	1.0	100% DI	AB	144	11	25.3%	16.0%	9.3%	9.9
LS11	10	0.93	18.4	442	21	2.9	100% DI	AB	144	11	27.5%	18.4%	9.1%	9.9
LS11	11	4.40	4.4	1375	32	2.7	100% DI	AB	144	11	13.3%	4.4%	8.9%	10.1
LS12	1	4.14	16.4	1118	37	0.8	100% DI	AB	144	11	23.5%	16.4%	7.1%	10.2
LS12	2	2.54	0.4	1104	23	2.9	100% DI	AB	144	11	5.8%	0.4%	5.4%	10.5
LS12	3	1.50	18.7	405	37	3.0	100% DI	AB	144	11	26.0%	18.7%	7.3%	10.1
LS12	4	3.43	19.2	927	37	2.4	100% DI	AB	144	11	38.0%	19.2%	18.8%	8.7
LS12	5	1.40	14.0	318	44	0.8	100% DI	AB	144	11	25.3%	14.0%	11.3%	9.7
LS12	6	2.12	17.1	572	37	0.7	100% DI	AB	144	11	24.2%	17.1%	7.1%	10.1
LS12	7	1.52	18.0	410	37	5.5	100% DI	AB	144	11	25.3%	18.0%	7.3%	10.1
LS12	8	1.98	7.2	341	58	1.5	100% DI	AB	144	11	15.5%	7.2%	8.3%	10.1
LS12	9	0.36	36.7	105	34	0.6	100% DI	AB	144	11	46.3%	36.7%	9.6%	9.5
LS12	10	1.14	14.0	356	32	5.5	100% DI	AB	144	11	25.3%	14.0%	11.3%	9.7
LS12	11	0.38	4.8	152	25	0.6	100% DI	AB	144	11	14.0%	4.8%	9.2%	10.0
LS12	12	0.43	0.0	172	25	1.5	100% DI	AB	144	11	5.0%	0.0%	5.0%	10.5
LS12	13	1.04	36.8	281	37	3.6	100% DI	AB	144	11	50.0%	36.8%	13.2%	8.9
LS13	1	3.31	26.0	662	50	1.2	100% DI	AB	144	11	35.3%	26.0%	9.3%	9.7
LS13	2	1.70	14.4	459	37	0.6	100% DI	AB	144	11	26.0%	14.4%	11.6%	9.6
LS13	3	2.83	17.6	764	37	0.7	60% DI 40% Db	AB	144	11	27.5%	17.6%	9.9%	9.8
LS13	4	0.49	16.5	132	37	0.6	100% DI	AB	144	11	26.0%	16.5%	9.5%	9.9
LS13	5	2.61	15.3	621	42	0.7	100% DI	AB	144	11	24.2%	15.3%	8.9%	9.9
LS13	6	1.45	17.6	467	31	0.5	100% DI	AB	144	11	27.5%	17.6%	9.9%	9.8
LS13	7	1.98	15.5	482	41	0.5	100% DI	AB	144	11	24.5%	15.5%	9.0%	9.9
LS13	8	2.63	16.5	773	34	1.1	100% DI	AB	144	11	26.0%	16.5%	9.5%	9.9
LS13	9	1.96	17.1	560	35	0.6	100% DI	AB	144	11	26.8%	17.1%	9.7%	9.8
LS13	10	1.27	13.9	453	28	0.4	100% DI	AB	144	11	22.7%	13.9%	8.8%	10.0
LS13	11	1.02	12.5	291	35	0.5	100% DI	AB	144	11	20.8%	12.5%	8.3%	10.1
LS13	12	1.90	17.6	500	38	0.8	100% DI	AB	144	11	27.5%	17.6%	9.9%	9.8
LS13	13	1.59	17.1	441	36	0.8	100% DI	AB	144	11	26.8%	17.1%	9.7%	9.8
LS13	14	0.34	24.5	178	19	0.5	100% DI	AB	144	11	35.0%	24.5%	10.5%	9.6
LS13	15	0.75	17.4	208	36	0.0	100% DI	AB	144	11	26.8%	17.4%	9.4%	9.9
LS13	16	1.67	14.0	491	34	0.8	100% DI	AB	144	11	36.5%	14.0%	22.5%	8.4
LS13	17	0.62	22.5	206	30	0.5	100% DI	AB	144	11	32.8%	22.5%	10.3%	9.7
LS13	18	0.47	17.6	127	37	1.2	100% DI	AB	144	11	27.5%	17.6%	9.9%	9.8
LS13	19	0.76	6.4	361	21	0.5	100% DI	AB	144	11	14.0%	6.4%	7.6%	10.2
LS13	20	0.80	1.3	444	18	1.0	100% DI	AB	144	11	6.8%	1.3%	5.5%	10.4
LS14	1	2.29	26.2	545	42	0.6	100% Bg	AB	144	11	37.7%	26.2%	11.5%	9.4
LS14	2	2.20	26.0	709	31	0.7	100% Bg	AB	144	11	37.7%	26.0%	11.7%	9.4
LS14	3	0.52	40.2	226	23	5.8	100% Bg	AB	144	11	53.0%	40.2%	12.8%	8.9
LS14	4	2.40	32.2	727	33	1.7	100% Bg	AB	144	11	44.0%	32.2%	11.8%	9.3
LS14	5	0.26	68.0	89	29	0.1	100% Bg	AB	144	11	81.5%	68.0%	13.5%	6.8
LS14	6	0.37	45.0	123	30	0.1	100% Bg	AB	144	11	59.0%	45.0%	14.0%	8.5
LS14	7	0.65	56.0	325	20	0.3	100% Bg	AB	144	11	68.0%	56.0%	12.0%	8.3
LS14	8	0.36	72.0	200	18	0.7	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
LS14	9	0.38	72.0	190	20	0.1	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
LS14	10	0.48	35.0	266	18	0.2	100% Bg	AB	144	11	47.0%	35.0%	12.0%	9.2
LS14	11	0.54	9.6	216	25	0.7	100% Bg	AB	144	11	17.0%	9.6%	7.4%	10.2
LS14	12	0.22	14.0	110	20	6.7	100% Bg	AB	144	11	22.3%	14.0%	8.3%	10.0
LS14	13	0.55	14.4	203	27	1.6	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
LS14	14	0.55	14.8	183	30	2.1	100% Bg	AB	144	11	26.8%	14.8%	12.0%	9.6
LS14	15	0.65	13.6	180	36	4.2	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
LS14	16	1.17	15.2	307	38	1.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS14	17	2.98	22.8	647	46	1.8	100% Bg	AB	144	11	32.8%	22.8%	10.0%	9.7
LS15	1	0.79	14.4	246	32	1.2	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
LS15	2	0.84	13.6	270	31	3.3	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
LS15	3	0.91	12.8	233	39	3.0	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
LS15	4	3.95	14.4	987	40	5.6	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
LS15	5	1.28	9.2	320	40	0.8	100% Bg	AB	144	11	19.3%	9.2%	10.1%	9.9
LS15	6	1.03	15.2	332	31	7.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS15	7	0.75	15.2	197	38	1.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS15	8	1.38	15.2	445	31	4.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS15	9	0.61	15.2	196	31	0.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS15	10	0.70	20.5	225	31	4.8	100% Bg	AB	144	11	23.8%	20.5%	3.3%	10.6
LS15	11	0.62	19.4	200	31	0.6	100% Bg	AB	144	11	27.5%	19.4%	8.1%	10.0
LS15	12	0.65	53.0	108	60	1.3	100% Bg	AB	144	11	68.0%	53.0%	15.0%	7.8

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
LS16	1	2.20	64.8	440	50	3.0	100% Bg	AB	144	11	78.5%	64.8%	13.7%	7.1
LS16	2	3.04	10.0	304	100	0.4	100% Bg	AB	144	11	65.0%	10.0%	55.0%	4.9
LS16	3	0.18	80.0	180	10	2.0	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS16	4	0.19	80.0	190	10	2.0	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS16	5	0.14	80.0	140	10	2.0	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
LS16	6	2.03	8.0	203	100	6.6	100% Bg	AB	144	11	14.0%	8.0%	6.0%	10.3
LS16	7	0.90	50.0	180	50	0.1	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
LS16	8	1.54	50.0	308	50	0.6	100% Bg	AB	144	11	65.0%	50.0%	15.0%	8.0
LS16	9	1.35	20.0	254	53	0.8	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
LS16	10	0.71	15.3	221	32	1.4	100% Bg	AB	144	11	22.3%	15.3%	6.9%	10.2
LS16	11	0.14	51.2	58	24	0.1	100% Bg	AB	144	11	65.0%	51.2%	13.8%	8.2
LS16	12	0.55	15.2	112	49	1.0	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS16	13	0.61	15.2	184	33	0.6	25% Gil, 75% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS16	14	0.25	22.4	131	19	1.3	100% Gil	B	146	5	35.0%	22.4%	12.6%	4.4
LS17	1	2.43	15.2	675	36	3.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS17	2	2.36	13.6	715	33	4.1	50% Bg, 50% Gl	B	146	5	24.5%	13.6%	10.9%	4.5
LS17	3	0.47	15.2	138	34	8.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS17	4	0.82	12.8	273	30	6.7	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
LS17	5	1.05	9.6	250	42	2.9	100% Bg	AB	144	11	17.0%	9.6%	7.4%	10.2
LS17	6	0.29	15.2	145	20	2.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
LS17	7	0.28	15.2	140	20	2.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW01	1	0.50	20.0	166	30	3.1	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
NW01	2	2.22	11.6	462	48	0.7	50% Fs 50% Bg	AB	144	11	23.8%	11.6%	12.2%	9.6
NW01	3	1.44	17.3	360	40	1.0	100% Bg	AB	144	11	24.5%	17.3%	7.2%	10.1
NW01	4	0.76	32.0	230	33	1.8	100% Bg	AB	144	11	41.0%	32.0%	9.0%	9.7
NW01	5	3.58	20.4	1234	29	0.5	80% Gl 20%Bg	BC	237	5	41.0%	20.4%	20.6%	4.0
NW01	6	0.81	24.0	300	27	3.0	100% Gl	BC	237	5	32.0%	24.0%	8.0%	4.6
NW01	7	2.23	43.0	384	58	1.3	50% Gl 50%Fs	B	146	5	56.0%	43.0%	13.0%	4.1
NW01	8	1.14	41.0	186	61	5.2	50%Gl 50%Fs	B	146	5	53.0%	41.0%	12.0%	4.2
NW01	9	1.34	8.0	206	65	3.0	100%Fs	AB	144	11	14.0%	8.0%	6.0%	10.3
NW01	10	1.14	80.0	152	75	1.1	100%Fs	AB	144	11	95.0%	80.0%	15.0%	3.5
NW01	11	1.08	80.0	145	74	0.8	30%Gl 60%Fs 10% D	AB	144	11	95.0%	80.0%	15.0%	3.5
NW01	12	1.39	20.0	180	77	1.3	100% Gl	BC	237	5	50.0%	20.0%	30.0%	3.5
NW01	13	0.97	31.0	110	88	3.1	50% Gl 50%Db	B	146	5	41.0%	31.0%	10.0%	4.4
NW01	14	0.98	31.0	111	88	5.1	50% Gl 50%Db	B	146	5	41.0%	31.0%	10.0%	4.4
NW01	15	2.28	80.0	209	109	2.4	10% Gl 90%Db	AB	144	11	95.0%	80.0%	15.0%	3.5
NW01	16	0.81	56.0	180	45	3.0	100% Fs	AB	144	11	68.0%	56.0%	12.0%	8.3
NW01	17	5.97	20.0	1925	31	1.4	100% Fs	AB	144	11	25.0%	20.0%	5.0%	10.4
NW01	18	0.96	15.2	300	32	0.9	100% Fs	AB	144	11	27.5%	15.2%	12.3%	9.5
NW01	19	1.82	11.6	587	31	3.0	100% Fs	AB	144	11	23.8%	11.6%	12.2%	9.6
NW01	20	1.59	15.2	481	33	0.7	100% Fs	AB	144	11	27.5%	15.2%	12.3%	9.5
NW01	21	3.95	15.2	1274	31	0.3	50% Fs 50% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW01	22	0.93	20.0	320	29	4.5	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
NW01	23	0.48	20.0	266	18	1.5	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
NW01	24	1.38	20.0	511	27	1.8	50% Fs 50% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
NW01	25	1.30	20.0	481	27	0.6	100% Fs	AB	144	11	27.5%	20.0%	7.5%	10.1
NW01	26	1.62	20.0	600	27	2.2	100% Fs	AB	144	11	27.5%	20.0%	7.5%	10.1
NW01	27	0.52	15.2	400	13	2.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW01	28	0.81	15.2	324	25	1.5	100% Fs	AB	144	11	27.5%	15.2%	12.3%	9.5
NW01	29	1.01	15.2	439	23	2.7	100% Fs	AB	144	11	27.5%	15.2%	12.3%	9.5
NW02	1	8.40	7.5	541	155	1.0	40% LI 60% Gl	BC	237	5	50.0%	7.5%	42.5%	3.2
NW02	2	1.92	31.4	426	45	0.9	100% Gl	BC	237	5	36.5%	31.4%	5.1%	4.7
NW02	3	6.81	21.9	1547	44	1.1	100% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
NW02	4	3.47	21.9	1084	32	1.3	50% LI 50% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
NW02	5	1.60	20.1	363	44	2.9	100% Gl	BC	237	5	24.5%	20.1%	4.4%	4.8
NW02	6	0.88	22.7	275	32	0.5	100% Gl	BC	237	5	26.8%	22.7%	4.0%	4.8
NW02	7	0.61	24.3	122	50	2.1	100% Gl	BC	237	5	32.0%	24.3%	7.7%	4.6
NW02	8	0.97	13.2	255	38	0.6	100% Gl	BC	237	5	18.5%	13.2%	5.3%	4.8
NW02	9	0.99	21.0	291	34	0.3	50% LI 50% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
NW02	10	0.71	18.4	191	37	0.6	100% Gl	BC	237	5	23.0%	18.4%	4.6%	4.8
NW02	11	1.15	21.0	370	31	2.2	100% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
NW02	12	0.79	21.0	232	34	0.4	100% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
NW02	13	0.07	80.0	58	12	2.3	100% LI	BC	237	5	95.0%	80.0%	15.0%	2.0
NW02	14	0.50	66.0	200	25	1.9	100% LI	BC	237	5	89.0%	66.0%	23.0%	2.3
NW02	15	1.68	53.5	103	162	0.6	15% LI 85% Gl	BC	237	5	72.5%	53.5%	19.0%	3.4
NW02	16	0.40	31.4	133	30	1.6	30% Gl 70% LI	BC	237	5	36.5%	31.4%	5.1%	4.7
NW02	17	0.25	38.2	71	35	1.2	100% LI	BC	237	5	45.0%	38.2%	6.8%	4.6
NW02	18	1.14	23.6	215	53	0.8	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
NW02	19	1.26	50.0	98	128	0.6	100% Gl	BC	237	5	59.0%	50.0%	9.0%	4.3
NW02	20	1.05	34.0	84	125	0.8	100% Gl	BC	237	5	41.0%	34.0%	7.0%	4.6
NW02	21	0.58	23.6	175	33	1.9	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
NW02	22	1.63	21.0	525	31	1.3	70% LI 30% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
NW02	23	0.35	16.7	92	38	0.7	20% LI 80% Gl	BC	237	5	21.5%	16.7%	4.8%	4.8
NW02	24	0.33	16.7	66	50	1.3	100% Gl	BC	237	5	21.5%	16.7%	4.8%	4.8
NW02	25	1.19	21.9	360	33	2.6	100% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
NW02	26	0.57	21.0	150	38	1.4	50% LI 50% Gl	BC	237	5	25.3%	21.0%	4.3%	4.8
NW02	27	1.36	18.4	425	32	0.7	90% LI 10% Gl	BC	237	5	23.0%	18.4%	4.6%	4.8
NW02	28	2.70	21.9	794	34	1.3	100% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
NW03	1	3.53	15.2	1008	35	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW03	2	0.82	15.2	256	32	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW03	3	0.54	15.2	158	34	1.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW03	4	2.84	15.2	835	34	0.7	80% Bg 20% Gl	B	146	5	27.5%	15.2%	12.3%	4.4
NW03	5	2.98	15.2	634	47	1.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
NW03	6	1.68	14.4	509	33	0.7	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
NW03	7	1.40	14.4	424	33	0.8	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
NW03	8	0.84	15.2	178	47	1.1	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
NW03	9	0.98	14.4	245	40	1.0	100% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
NW03	10	0.87	7.2	235	37	0.8	100% Bg	AB	144	11	18.5%	7.2%	11.3%	9.8
NW03	11	0.31	7.2	83	37	1.2	100% Bg	AB	144	11	18.5%	7.2%	11.3%	9.8
NW03	12	0.85	15.2	229	37	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
NW04	1	204.35	5.3	6192	330	0.6	35% LI 16% Pal 40%	B	146	5	33.5%	5.3%	28.2%	3.8
NW04	2	164.74	6.0	6864	240	0.5	6% Db 20% Pal 17%	BC	237	5	41.0%	6.0%	35.0%	3.5
NW04	3	132.06	6.5	5282	250	0.4	18% Pal 30% LI 52%	BC	237	5	44.0%	6.5%	37.5%	3.4

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
NW04	4	2.22	10.0	528	42	1.1	100% LI	BC	237	5	95.0%	10.0%	85.0%	1.2
NW04	5	34.34	10.0	1413	243	0.3	41% Fs 8% Cb 26% G	AB	144	11	65.0%	10.0%	55.0%	4.9
NW04	6	1.72	1.0	505	34	1.4	50% GI 50% LI	BC	237	5	14.0%	1.0%	13.0%	4.5
NW04	7	7.74	7.0	614	126	0.2	75% Fs 25% Db	AB	144	11	47.0%	7.0%	40.0%	6.7
NW04	8	2.95	8.0	307	96	1.0	10% Gil 70% Db 20% G	AB	144	11	53.0%	8.0%	45.0%	6.1
NW04	9	3.80	3.0	314	121	0.1	24% Db 76% LI	B	146	5	23.0%	3.0%	20.0%	4.2
NW04	10	5.12	45.0	409	125	0.7	100% GI	BC	237	5	80.0%	45.0%	35.0%	2.5
NW04	11	0.61	80.0	305	20	0.1	50% Db 35% GI 15% G	B	146	5	95.0%	80.0%	15.0%	2.0
NW04	12	0.53	40.0	117	45	0.6	100% Db	AB	144	11	53.0%	40.0%	13.0%	8.8
NW04	13	1.18	40.0	94	125	0.6	100% Fs	AB	144	11	50.0%	40.0%	10.0%	9.3
NW04	14	0.40	80.0	181	22	0.4	100% Fs	AB	144	11	95.0%	80.0%	15.0%	3.5
NW04	15	0.62	64.0	112	55	0.9	60% Db 40% GI	B	146	5	77.0%	64.0%	13.0%	3.6
NW04	16	2.07	80.0	159	130	0.2	100% Fs	AB	144	11	95.0%	80.0%	15.0%	3.5
NW04	17	1.33	64.0	443	30	0.2	100% Fs	AB	144	11	77.0%	64.0%	13.0%	7.4
NW04	18	4.01	72.0	361	111	0.4	50% GI 50% Db	B	146	5	86.0%	72.0%	14.0%	3.0
NW04	19	3.16	0.0	877	36	0.4	100% GI	BC	237	5	5.0%	0.0%	5.0%	4.8
NW04	20	8.71	3.0	837	104	1.8	100% GI	BC	237	5	32.0%	3.0%	29.0%	3.8
NW04	21	3.98	24.0	294	135	0.4	100% Fs	AB	144	11	50.0%	24.0%	26.0%	7.6
NW04	22	0.41	64.0	178	23	0.4	100% Fs	AB	144	11	77.0%	64.0%	13.0%	7.4
NW04	23	0.28	80.0	164	17	0.1	100% Fs	AB	144	11	95.0%	80.0%	15.0%	3.5
NW04	24	1.37	16.0	121	113	0.4	50% Db 50% GI	B	146	5	23.0%	16.0%	7.0%	4.7
NW04	25	6.16	80.0	322	191	0.4	100% Fs	AB	144	11	95.0%	80.0%	15.0%	3.5
NW04	26	0.69	72.0	121	57	1.1	100% Fs	AB	144	11	86.0%	72.0%	14.0%	6.0
NW04	27	4.16	72.0	378	110	0.4	100% Db	AB	144	11	86.0%	72.0%	14.0%	6.0
NW04	28	0.64	72.0	200	32	2.7	50% Db 50% GI	B	146	5	86.0%	72.0%	14.0%	3.0
NW04	29	4.11	22.4	696	59	1.1	100% GI	BC	237	5	27.5%	22.4%	5.1%	4.7
NW04	30	2.21	16.0	147	150	1.0	100% GI	BC	237	5	41.0%	16.0%	25.0%	3.8
NW04	31	6.40	4.0	603	106	1.4	100% GI	B	146	5	41.0%	4.0%	37.0%	3.5
NW04	32	2.13	2.0	193	110	1.4	30% Bg 70% GI	B	146	5	23.0%	2.0%	21.0%	4.1
NW04	33	6.40	20.0	266	240	0.7	100% Bg	AB	144	11	36.5%	20.0%	16.5%	8.9
NW04	34	2.60	5.0	590	44	0.5	100% Bg	AB	144	11	50.0%	5.0%	45.0%	6.3
US01	1	3.77	15.2	414	91	4.1	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
US01	2	1.30	11.6	146	89	1.9	100% GI	BC	237	5	23.8%	11.6%	12.2%	4.5
US01	3	0.86	15.2	191	45	1.0	55% GI, 45% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
US01	4	0.65	15.2	151	43	0.3	60% GI, 40% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
US01	5	0.45	36.8	173	26	0.3	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
US01	6	1.44	13.4	154	93	2.9	100% GI	BC	237	5	25.6%	13.4%	12.2%	4.4
US01	7	4.49	11.2	393	114	1.4	30% GI, 70% Bg	B	146	5	21.9%	11.2%	10.8%	4.5
US01	8	1.54	13.6	202	76	0.7	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
US01	9	0.75	12.8	85	88	2.7	100% GI	BC	237	5	24.9%	12.8%	12.2%	4.4
US01	10	0.86	15.2	209	41	1.2	40% GI, 60% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
US01	11	1.93	13.0	227	85	4.1	100% GI	BC	237	5	25.3%	13.0%	12.2%	4.4
US01	12	3.25	15.9	264	123	1.1	10% GI, 90% Bg	AB	144	11	28.5%	15.9%	12.6%	9.5
US01	13	0.22	44.0	66	33	0.3	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US01	14	3.67	11.0	346	106	0.9	100% Bg	AB	144	11	22.1%	11.0%	11.1%	9.8
US01	15	4.68	22.3	437	107	1.0	100% Bg	AB	144	11	34.3%	22.3%	12.0%	9.5
US01	16	5.05	19.4	376	134	1.6	100% Bg	AB	144	11	32.0%	19.4%	12.6%	9.4
US01	17	1.95	30.1	196	99	10.0	100% GI	BC	237	5	41.5%	30.1%	11.5%	4.3
US01	18	0.87	15.2	185	47	0.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	19	2.70	34.1	219	123	2.1	100% Bg	AB	144	11	47.8%	34.1%	13.7%	8.9
US01	20	2.40	15.2	307	78	4.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	21	0.67	31.6	197	34	4.3	100% Bg	AB	144	11	44.6%	31.6%	13.0%	9.1
US01	22	4.63	54.8	250	185	1.8	100% Bg	AB	144	11	66.6%	54.8%	11.8%	8.4
US01	23	3.29	80.0	319	103	2.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US01	24	0.64	44.0	80	80	0.5	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US01	25	1.84	44.0	207	79	0.6	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US01	26	0.92	44.0	113	81	0.9	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US01	27	1.54	15.2	427	36	2.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	28	1.72	15.2	351	49	6.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	29	1.16	15.2	400	29	3.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	30	0.45	15.2	150	30	1.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	31	1.08	15.3	211	51	0.6	100% Bg	AB	144	11	27.7%	15.3%	12.3%	9.5
US01	32	0.85	13.8	123	69	2.8	100% Bg	AB	144	11	26.0%	13.8%	12.2%	9.6
US01	33	1.06	15.2	278	38	1.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US01	34	3.01	16.4	470	64	2.0	100% Bg	AB	144	11	35.8%	16.4%	19.4%	8.7
US02	1	2.33	46.4	728	32	4.1	100% GI	BC	237	5	60.5%	46.4%	14.1%	3.9
US02	2	5.79	19.4	1754	33	1.1	100% GI	BC	237	5	32.0%	19.4%	12.6%	4.4
US02	3	0.64	65.0	304	21	4.3	100% GI	BC	237	5	80.0%	65.0%	15.0%	3.3
US02	4	1.71	65.0	534	32	3.1	100% GI	BC	237	5	78.5%	65.0%	13.5%	3.5
US02	5	1.50	31.7	535	28	0.9	100% GI	BC	237	5	42.5%	31.7%	10.8%	4.4
US02	6	0.20	80.0	125	16	0.8	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	7	0.14	80.0	93	15	3.1	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	8	0.28	80.0	140	20	1.3	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	9	0.36	80.0	225	16	1.0	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	10	0.28	80.0	73	38	1.6	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	11	1.09	64.0	436	25	1.5	100% GI	BC	237	5	77.0%	64.0%	13.0%	3.6
US02	12	0.51	80.0	182	28	1.4	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	13	1.42	80.0	887	16	2.3	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	14	1.11	80.0	346	32	0.9	50% GI 50% Bg	B	146	5	95.0%	80.0%	15.0%	2.0
US02	15	1.02	80.0	309	33	0.3	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	16	0.44	80.0	133	33	0.1	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	17	1.62	80.0	450	36	0.8	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	18	0.66	80.0	206	32	1.1	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	19	0.60	80.0	187	32	3.3	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	20	0.81	80.0	238	34	2.9	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	21	0.50	80.0	142	35	1.2	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	22	1.11	15.2	336	33	1.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US02	23	0.97	80.0	303	32	3.4	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	24	0.27	80.0	81	33	0.9	100% GI	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	25	0.70	72.0	159	44	1.6	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US02	26	0.13	72.0	86	15	5.2	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US02	27	0.97	72.0	570	17	1.1	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US02	28	0.72	68.0	205	35	4.6	100% Bg	AB	144	11	81.5%	68.0%	13.5%	6.8

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
US02	29	0.35	80.0	85	41	0.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US02	30	0.87	80.0	271	32	0.5	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	31	0.44	80.0	129	34	1.7	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
US02	32	0.08	80.0	61	13	8.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US02	33	0.66	72.0	188	35	3.3	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US02	34	0.08	80.0	44	18	4.3	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US02	35	0.22	65.0	100	22	5.8	100% Bg	AB	144	11	80.0%	65.0%	15.0%	6.7
US02	36	0.16	80.0	88	18	1.8	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US02	37	0.98	27.1	350	28	3.3	100% Bg	AB	144	11	38.0%	27.1%	10.9%	9.5
US03	1	4.23	15.2	983	43	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	2	0.47	15.2	156	30	0.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	3	1.47	15.2	306	48	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	4	1.28	15.2	387	33	0.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	5	0.85	15.2	250	34	1.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	6	0.86	22.4	307	28	2.5	100% Bg	AB	144	11	35.0%	22.4%	12.6%	9.4
US03	7	2.59	20.6	518	50	0.3	80% Gl 20% Bg	B	146	5	33.5%	20.6%	12.9%	4.4
US03	8	1.97	15.2	378	52	1.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	9	7.82	15.2	2369	33	0.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	10	0.78	36.8	288	27	1.9	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
US03	11	1.46	18.8	521	28	0.9	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
US03	12	1.03	15.2	214	48	1.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	13	6.81	15.2	1547	44	2.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	14	7.20	15.2	2000	36	2.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	15	1.02	15.2	309	33	0.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	16	3.01	15.2	668	45	0.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	17	2.34	21.0	425	55	0.2	100% Bg	AB	144	11	34.0%	21.0%	12.9%	9.4
US03	18	5.27	15.2	1225	43	1.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	19	0.45	36.8	150	30	2.6	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
US03	20	0.41	36.8	110	37	2.9	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
US03	21	3.49	15.2	969	36	2.3	90% Bg 10% Gl	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	22	1.99	15.2	485	41	1.7	100% Bg	BC	237	5	27.5%	15.2%	12.3%	4.4
US03	23	1.89	12.7	350	54	1.2	5% Gl 95% Bg	AB	144	11	26.7%	12.7%	14.0%	9.4
US03	24	2.02	11.2	480	42	0.9	50% Gl 50% Bg	B	146	5	24.5%	11.2%	13.4%	4.4
US03	25	0.99	17.6	319	31	3.3	100% Gl	BC	237	5	27.5%	17.6%	9.9%	4.5
US03	26	1.82	20.0	443	41	2.9	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	27	0.39	44.0	125	31	1.2	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
US03	28	1.01	28.3	214	47	3.1	100% Gl	BC	237	5	41.3%	28.3%	13.0%	4.3
US03	29	0.45	38.4	121	37	2.8	100% Gl	BC	237	5	50.0%	38.4%	11.6%	4.2
US03	30	1.25	15.2	337	37	0.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	31	3.95	32.4	1097	36	0.6	100% Bg	AB	144	11	46.1%	32.4%	13.7%	9.0
US03	32	1.20	18.8	333	36	1.7	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
US03	33	1.96	18.8	445	44	1.1	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
US03	34	1.16	15.2	257	45	1.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	35	3.85	11.8	427	90	0.6	100% Bg	AB	144	11	25.4%	11.8%	13.6%	9.5
US03	36	2.00	80.0	243	82	0.5	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US03	37	0.87	18.8	158	55	2.7	100% Bg	AB	144	11	31.3%	18.8%	12.5%	9.5
US03	38	5.11	15.2	1135	45	1.3	80% Gl 20% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
US03	39	1.63	31.2	285	57	1.3	100% Gl	BC	237	5	41.2%	31.2%	10.0%	4.4
US03	40	3.25	0.0	928	35	1.5	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
US03	41	0.49	20.0	98	50	0.9	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	42	0.64	23.6	164	39	1.2	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	43	2.98	23.6	596	50	1.0	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	44	0.56	23.6	127	44	0.7	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	45	3.64	23.6	866	42	1.7	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	46	0.47	23.6	134	35	0.7	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	47	0.67	23.6	191	35	0.6	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	48	0.71	23.6	191	37	4.0	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	49	2.94	26.7	717	41	1.3	100% Gl	BC	237	5	31.3%	26.7%	4.5%	4.8
US03	50	1.85	15.2	272	68	1.1	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US03	51	4.48	24.4	509	88	0.4	100% Gl	BC	237	5	38.7%	24.4%	14.3%	4.2
US03	52	0.85	23.6	193	44	0.9	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	53	1.25	23.6	277	45	0.3	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	54	7.17	15.3	717	100	0.5	100% Gl	BC	237	5	25.5%	15.3%	10.2%	4.5
US03	55	4.73	15.2	965	49	0.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US03	56	0.75	20.0	156	48	0.6	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	57	1.29	23.3	293	44	1.8	100% Bg	AB	144	11	31.3%	23.3%	7.9%	10.0
US03	58	6.95	16.0	1782	39	2.5	80% Bg 20% Gl	B	146	5	28.6%	16.0%	12.6%	4.4
US03	59	0.95	80.0	271	35	4.9	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US03	60	1.74	20.0	511	34	3.8	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
US03	61	2.08	20.0	472	44	4.7	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
US03	62	2.95	23.6	670	44	1.6	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
US03	63	0.55	44.0	166	33	1.8	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US03	64	0.36	44.0	109	33	4.1	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
US03	65	0.82	18.8	292	28	2.4	20% Bg 80% Gl	B	146	5	31.3%	18.8%	12.5%	4.4
US03	66	0.86	20.0	204	42	0.6	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	67	2.56	20.0	544	47	0.4	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	68	0.42	46.7	131	32	0.5	100% Gl	BC	237	5	57.5%	46.7%	10.8%	4.2
US03	69	2.09	23.6	444	47	0.2	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	70	0.91	13.7	202	45	1.3	100% Gl	BC	237	5	20.5%	13.7%	6.7%	4.7
US03	71	1.37	43.5	304	45	0.8	100% Gl	BC	237	5	56.5%	43.5%	12.9%	4.1
US03	72	1.11	15.2	170	65	2.3	30% Bg 70% Gl	B	146	5	27.5%	15.2%	12.3%	4.4
US03	73	0.80	20.0	200	40	1.2	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	74	0.43	46.7	204	21	4.4	100% Gl	BC	237	5	57.5%	46.7%	10.8%	4.2
US03	75	0.93	33.3	206	45	0.8	100% Gl	BC	237	5	42.5%	33.3%	9.2%	4.5
US03	76	3.81	14.3	976	39	2.1	100% Gl	BC	237	5	21.1%	14.3%	6.8%	4.7
US03	77	1.07	20.0	214	50	0.8	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	78	1.42	20.0	338	42	0.6	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	79	1.40	20.0	333	42	0.4	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	80	3.01	23.3	734	41	0.6	100% Gl	BC	237	5	31.3%	23.3%	7.9%	4.6
US03	81	1.85	16.3	440	42	1.9	100% Gl	BC	237	5	21.2%	16.3%	4.9%	4.8
US03	82	1.98	20.0	495	40	0.8	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	83	0.57	66.7	190	30	1.0	100% Gl	BC	237	5	80.0%	66.7%	13.3%	3.4
US03	84	1.00	73.3	166	60	1.5	100% Gl	BC	237	5	87.5%	73.3%	14.2%	2.9

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
US03	85	0.63	12.0	203	31	0.7	100% Gl	BC	237	5	30.0%	12.0%	18.0%	4.2
US03	86	1.77	26.0	442	40	0.8	100% Bg	AB	144	11	30.0%	26.0%	4.0%	10.5
US03	87	1.33	15.2	302	44	0.4	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US03	88	3.43	3.8	686	50	2.2	100% Gl	BC	237	5	12.2%	3.8%	8.4%	4.7
US03	89	1.71	23.6	417	41	1.3	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
US03	90	1.56	15.2	472	33	3.6	10% Gl 90% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	91	2.19	20.0	497	44	2.0	10% Gl 90% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
US03	92	0.84	20.0	175	48	0.6	50% Bg 50% Gl	B	146	5	27.5%	20.0%	7.5%	4.6
US03	93	1.98	18.7	495	40	0.4	70% Gl, 30% Bg	B	146	5	26.0%	18.7%	7.3%	4.6
US03	94	1.12	20.0	207	54	0.4	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	95	0.28	50.0	80	35	0.8	100% Gl	BC	237	5	65.0%	50.0%	15.0%	3.8
US03	96	0.74	18.8	121	61	0.8	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
US03	97	4.74	23.6	1185	40	0.4	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US03	98	1.01	53.3	229	44	1.1	100% Gl	BC	237	5	65.0%	53.3%	11.7%	4.0
US03	99	0.56	26.7	207	27	1.1	100% Gl	BC	237	5	31.3%	26.7%	4.5%	4.8
US03	100	4.08	23.3	1200	34	1.0	100% Gl	BC	237	5	31.3%	23.3%	7.9%	4.6
US03	101	3.27	36.7	628	52	0.8	100% Gl	BC	237	5	46.3%	36.7%	9.6%	4.4
US03	102	1.04	40.0	260	40	0.4	100% Gl	BC	237	5	50.0%	40.0%	10.0%	4.3
US03	103	1.35	18.7	225	60	0.5	100% Gl	BC	237	5	26.0%	18.7%	7.3%	4.6
US03	104	1.63	14.7	291	56	0.4	100% Gl	BC	237	5	21.5%	14.7%	6.8%	4.7
US03	105	2.52	20.0	560	45	0.5	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US03	106	1.22	46.7	271	45	2.5	100% Gl	BC	237	5	57.5%	46.7%	10.8%	4.2
US03	107	1.30	15.2	288	45	2.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US03	108	1.47	33.3	148	99	3.5	100% Gl	BC	237	5	50.0%	33.3%	16.7%	4.0
US03	109	0.88	80.0	102	86	2.3	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
US03	110	1.10	56.7	196	56	0.5	100% Gl	BC	237	5	72.5%	56.7%	15.8%	3.5
US04	1	1.72	23.6	491	35	1.3	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	2	4.32	22.7	1234	35	0.7	100% Gl	BC	237	5	26.8%	22.7%	4.0%	4.8
US04	3	0.66	23.6	194	34	1.3	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	4	1.77	26.9	1041	17	2.0	100% Gl	BC	237	5	32.0%	26.9%	5.1%	4.7
US04	5	0.51	57.0	154	33	1.3	100% Gl	BC	237	5	71.0%	57.0%	14.0%	3.7
US04	6	2.12	23.6	605	35	0.8	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	7	2.92	26.0	834	35	1.4	100% Gl	BC	237	5	35.0%	26.0%	9.0%	4.5
US04	8	2.05	20.6	569	36	1.7	100% Gl	BC	237	5	24.5%	20.6%	3.9%	4.8
US04	9	0.64	20.6	355	18	4.1	100% Gl	BC	237	5	24.5%	20.6%	3.9%	4.8
US04	10	3.05	13.0	1694	18	1.8	100% Gl	BC	237	5	20.0%	13.0%	7.0%	4.7
US04	11	0.89	20.6	261	34	3.8	100% Gl	BC	237	5	24.5%	20.6%	3.9%	4.8
US04	12	2.08	22.2	630	33	0.6	100% Gl	BC	237	5	26.8%	22.2%	4.5%	4.8
US04	13	4.18	14.3	1229	34	1.3	100% Gl	BC	237	5	26.8%	14.3%	12.5%	4.4
US04	14	4.74	29.0	1316	36	0.8	100% Gl	BC	237	5	39.5%	29.0%	10.5%	4.4
US04	15	0.38	44.0	190	20	1.2	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
US04	16	2.24	26.7	722	31	0.9	100% Gl	BC	237	5	31.3%	26.7%	4.5%	4.8
US04	17	2.06	28.7	664	31	2.6	100% Gl	BC	237	5	36.5%	28.7%	7.8%	4.6
US04	18	0.26	48.7	152	17	1.8	100% Gl	BC	237	5	57.5%	48.7%	8.8%	4.3
US04	19	2.94	41.2	980	30	0.8	100% Gl	BC	237	5	55.3%	41.2%	14.1%	4.0
US04	20	0.97	36.8	323	30	0.6	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
US04	21	0.78	31.5	354	22	0.9	100% Gl	BC	237	5	42.5%	31.5%	11.0%	4.4
US04	22	1.55	23.6	500	31	0.9	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	23	0.99	8.0	123	80	1.4	100% Gl	BC	237	5	14.0%	8.0%	6.0%	4.7
US04	24	2.24	20.0	622	36	1.2	100% Gl	BC	237	5	27.5%	20.0%	7.5%	4.6
US04	25	1.40	14.8	411	34	1.6	100% Gl	BC	237	5	26.8%	14.8%	12.0%	4.4
US04	26	1.47	46.7	668	22	1.0	100% Gl	BC	237	5	57.5%	46.7%	10.8%	4.2
US04	27	0.66	2.7	314	21	0.4	100% Gl	BC	237	5	8.0%	2.7%	5.3%	4.8
US04	28	1.47	23.6	459	32	0.7	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	29	2.73	23.6	853	32	0.6	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	30	0.90	23.6	195	46	1.1	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	31	2.02	21.9	505	40	0.8	100% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
US04	32	3.66	23.6	1045	35	1.5	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	33	2.28	23.6	670	34	0.4	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US04	34	0.39	9.7	260	15	2.5	100% Gl	BC	237	5	15.5%	9.7%	5.8%	4.7
US04	35	3.77	49.7	1108	34	2.2	100% Gl	BC	237	5	63.5%	49.7%	13.8%	3.9
US04	36	0.60	23.6	193	31	1.6	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
US05	1	1.64	23.6	512	32	0.1	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
US05	2	3.20	23.6	1032	31	0.2	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
US05	3	5.78	23.2	1651	35	0.1	70% Bg 30% Gl	B	146	5	27.5%	23.2%	4.3%	4.8
US05	4	0.35	3.2	134	26	10.6	100% Bg	AB	144	11	11.0%	3.2%	7.8%	10.2
US05	5	1.49	22.7	480	31	0.4	100% Bg	AB	144	11	26.8%	22.7%	4.0%	10.5
US05	6	0.98	23.6	200	49	0.4	100% Bg	AB	144	11	27.5%	23.6%	3.9%	10.5
US05	7	0.40	3.2	85	47	4.4	100% Bg	AB	144	11	11.0%	3.2%	7.8%	10.2
US05	8	2.12	14.4	441	48	1.0	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
US05	9	0.56	7.6	65	85	1.8	100% Bg	AB	144	11	16.3%	7.6%	8.7%	10.1
US05	10	0.43	29.9	122	35	0.1	100% Bg	AB	144	11	35.0%	29.9%	5.1%	10.3
US05	11	0.80	10.4	140	57	1.3	100% Bg	AB	144	11	21.5%	10.4%	11.1%	9.8
US05	12	1.49	64.0	465	32	2.4	100% Gl	BC	237	5	77.0%	64.0%	13.0%	3.6
US05	13	0.21	4.0	110	19	2.0	100% Gl	BC	237	5	12.5%	4.0%	8.5%	4.6
US05	14	0.25	32.0	178	14	3.7	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
US05	15	0.82	15.2	292	28	1.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US05	16	0.21	20.0	56	37	0.1	50% Gl 50% Bg	B	146	5	27.5%	20.0%	7.5%	4.6
US05	17	0.65	20.0	180	36	0.1	50% Gl 50% Bg	B	146	5	27.5%	20.0%	7.5%	4.6
US05	18	1.00	15.2	357	28	2.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US05	19	0.72	20.0	225	32	0.1	50% Gl 50% Bg	B	146	5	27.5%	20.0%	7.5%	4.6
US05	20	0.33	20.0	132	25	0.8	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
US05	21	0.32	15.2	114	28	0.6	50% Gl 50% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
US05	22	0.15	15.2	88	17	0.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US06	1	0.84	6.4	270	31	1.5	100% Gl	BC	237	5	14.0%	6.4%	7.6%	4.7
US06	2	0.30	12.0	200	15	0.6	100% Gl	BC	237	5	21.5%	12.0%	9.5%	4.6
US06	3	0.28	12.8	140	20	1.9	100% Gl	BC	237	5	23.0%	12.8%	10.2%	4.5
US06	4	0.28	16.8	200	14	0.6	100% Gl	BC	237	5	24.5%	16.8%	7.7%	4.6
US06	5	0.46	5.2	209	22	0.8	100% Gl	BC	237	5	11.8%	5.2%	6.6%	4.7
US06	6	0.49	6.8	196	25	2.5	100% Gl	BC	237	5	14.8%	6.8%	8.0%	4.7
US06	7	0.31	15.6	129	24	8.1	100% Gl	BC	237	5	25.3%	15.6%	9.7%	4.5
US06	8	0.04	16.0	33	12	13.3	50% Bg 50% Gl	B	146	5	23.0%	16.0%	7.0%	4.7
US06	9	0.70	6.4	179	39	9.0	100% Gl	BC	237	5	14.0%	6.4%	7.6%	4.7

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
US06	10	0.08	12.8	33	24	6.8	100% Bg	AB	144	11	20.0%	12.8%	7.2%	10.2
US06	11	0.88	5.2	293	30	8.6	100% Gl	BC	237	5	11.8%	5.2%	6.6%	4.7
US06	12	0.56	3.2	140	40	3.4	100% Bg	AB	144	11	11.0%	3.2%	7.8%	10.2
US06	13	0.07	56.0	46	15	8.2	100% Bg	AB	144	11	68.0%	56.0%	12.0%	8.3
US06	14	0.06	56.0	40	15	5.8	100% Bg	AB	144	11	68.0%	56.0%	12.0%	8.3
US06	15	0.13	44.0	72	18	3.2	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US06	16	0.14	16.0	48	29	4.0	100% Bg	AB	144	11	26.0%	16.0%	10.0%	9.8
US06	17	0.19	2.8	52	36	2.4	100% Bg	AB	144	11	10.3%	2.8%	7.5%	10.2
US06	18	0.93	11.2	310	30	0.3	100% Gl	BC	237	5	20.0%	11.2%	8.8%	4.6
US06	19	0.15	15.6	93	16	10.0	100% Gl	BC	237	5	25.3%	15.6%	9.7%	4.5
US06	20	0.46	7.5	92	50	8.0	100% Gl	BC	237	5	17.5%	7.5%	10.0%	4.6
US06	21	0.05	64.0	38	13	11.8	100% Gl	BC	237	5	77.0%	64.0%	13.0%	3.6
US06	22	0.07	64.0	53	13	8.0	100% Gl	BC	237	5	77.0%	64.0%	13.0%	3.6
US06	23	2.90	11.2	580	50	0.5	100% Gl	BC	237	5	20.0%	11.2%	8.8%	4.6
US06	24	0.04	64.0	33	12	16.2	100% Gl	BC	237	5	77.0%	64.0%	13.0%	3.6
US06	25	0.52	5.6	185	28	8.3	100% Gl	BC	237	5	12.5%	5.6%	6.9%	4.7
US06	26	1.00	6.0	166	60	6.4	100% Gl	BC	237	5	13.3%	6.0%	7.3%	4.7
US06	27	0.92	6.4	230	40	3.8	100% Gl	BC	237	5	14.0%	6.4%	7.6%	4.7
US06	28	0.91	14.0	146	62	1.8	50% Bg 50% Gl	B	146	5	22.3%	14.0%	8.3%	4.6
US06	29	1.08	15.6	327	33	0.7	100% Bg	AB	144	11	25.3%	15.6%	9.7%	9.9
US06	30	0.66	13.6	286	23	0.3	50% Bg 50% Gl	B	146	5	24.5%	13.6%	10.9%	4.5
US06	31	0.49	10.7	132	37	11.2	100% Gl	BC	237	5	17.8%	10.7%	7.1%	4.7
US06	32	4.26	6.0	852	50	1.7	100% Gl	BC	237	5	13.3%	6.0%	7.3%	4.7
US06	33	1.45	8.0	362	40	5.4	100% Gl	BC	237	5	17.0%	8.0%	9.0%	4.6
US06	34	0.17	7.7	68	25	14.4	100% Gl	BC	237	5	14.8%	7.7%	7.0%	4.7
US06	35	0.45	5.6	100	45	0.1	100% Gl	BC	237	5	12.5%	5.6%	6.9%	4.7
US06	36	0.77	7.6	213	36	0.1	100% Gl	BC	237	5	15.1%	7.6%	7.5%	4.7
US06	37	0.45	16.4	150	30	0.8	100% Gl	BC	237	5	26.8%	16.4%	10.4%	4.5
US06	38	2.07	8.4	414	50	3.1	95% Gl 5% Bg	BC	237	5	17.8%	8.4%	9.4%	4.6
US06	39	0.78	28.9	134	58	0.7	50% Bg 50% Gl	B	146	5	38.0%	28.9%	9.1%	4.5
US06	40	0.08	14.1	29	27	7.5	100% Bg	AB	144	11	23.8%	14.1%	9.6%	9.9
US06	41	0.39	12.8	156	25	0.9	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
US06	42	1.36	24.8	247	55	3.0	100% Gl	BC	237	5	36.5%	24.8%	11.7%	4.4
US06	43	0.93	13.2	310	30	3.2	100% Gl	BC	237	5	23.8%	13.2%	10.6%	4.5
US06	44	0.83	23.2	276	30	7.6	100% Gl	BC	237	5	33.5%	23.2%	10.3%	4.5
US06	45	1.23	16.8	424	29	1.4	95% Gl 5% Bg	BC	237	5	27.5%	16.8%	10.7%	4.5
US06	46	0.41	24.4	136	30	4.6	100% Bg	AB	144	11	35.8%	24.4%	11.4%	9.5
US06	47	0.64	8.8	193	33	0.1	100% Bg	AB	144	11	18.5%	8.8%	9.7%	9.9
US06	48	0.42	14.0	233	18	9.9	100% Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
US06	49	0.22	12.8	61	36	0.1	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
US06	50	0.13	58.4	65	20	1.3	100% Bg	AB	144	11	72.5%	58.4%	14.1%	7.6
US06	51	0.35	17.6	116	30	1.9	100% Bg	AB	144	11	29.0%	17.6%	11.4%	9.6
US06	52	0.67	13.6	279	24	1.8	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
US06	53	0.61	14.0	160	38	0.6	100% Bg	AB	144	11	25.3%	14.0%	11.3%	9.7
US07	1	0.79	15.2	158	50	0.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	2	0.83	18.8	259	32	0.5	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
US07	3	0.99	36.8	243	16	0.4	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
US07	4	0.27	15.2	158	17	2.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	5	1.24	15.2	620	20	2.5	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	6	0.16	36.8	80	20	5.0	100% Gl	BC	237	5	50.0%	36.8%	13.2%	4.2
US07	7	0.54	13.2	180	30	1.8	100% Gl	BC	237	5	23.8%	13.2%	10.6%	4.5
US07	8	0.34	4.0	130	26	2.7	100% Gl	BC	237	5	12.5%	4.0%	8.5%	4.6
US07	9	0.19	5.2	82	23	3.6	100% Gl	BC	237	5	11.8%	5.2%	6.6%	4.7
US07	10	0.46	18.8	176	26	0.1	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
US07	11	0.68	18.8	309	22	0.1	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
US07	12	1.19	15.2	396	30	0.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	13	0.25	15.2	86	29	0.1	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	14	0.53	26.0	294	18	0.5	100% Gl	BC	237	5	38.8%	26.0%	12.8%	4.3
US07	15	0.85	12.4	283	30	0.5	100% Gl	BC	237	5	22.3%	12.4%	9.9%	4.6
US07	16	0.30	11.6	166	18	2.2	100% Gl	BC	237	5	23.8%	11.6%	12.2%	4.5
US07	17	0.23	11.6	71	32	0.1	100% Gl	BC	237	5	23.8%	11.6%	12.2%	4.5
US07	18	0.68	26.0	226	30	0.6	100% Gl	BC	237	5	38.8%	26.0%	12.8%	4.3
US07	19	0.69	15.2	363	19	1.6	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	20	1.37	13.6	526	26	1.0	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
US07	21	0.21	15.2	116	18	7.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	22	0.37	15.2	246	15	10.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US07	23	0.81	43.0	279	29	3.3	100% Gl	BC	237	5	56.0%	43.0%	13.0%	4.1
US07	24	0.77	26.0	167	46	1.3	100% Gl	BC	237	5	35.0%	26.0%	9.0%	4.5
US07	25	0.53	21.5	135	39	0.7	100% Gl	BC	237	5	30.5%	21.5%	9.0%	4.5
US07	26	0.19	56.0	90	21	0.1	100% Gl	BC	237	5	68.0%	56.0%	12.0%	3.9
US07	27	0.10	32.0	41	24	3.9	100% Gl	BC	237	5	41.0%	32.0%	9.0%	4.5
US07	28	0.55	26.8	305	18	1.3	100% Gl	BC	237	5	36.5%	26.8%	9.7%	4.5
US07	29	0.21	11.6	131	16	1.5	100% Gl	BC	237	5	23.8%	11.6%	12.2%	4.5
US07	30	0.11	80.0	91	12	1.7	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
US07	31	0.86	72.5	268	32	0.7	100% Gl	BC	237	5	87.5%	72.5%	15.0%	2.8
US07	32	0.78	59.0	195	40	2.0	100% Gl	BC	237	5	74.0%	59.0%	15.0%	3.5
US08	1	0.25	39.3	58	43	1.2	100% Bg	AB	144	11	51.5%	39.3%	12.2%	9.0
US08	2	0.34	2.7	109	31	0.1	100% Bg	AB	144	11	8.8%	2.7%	6.1%	10.4
US08	3	1.16	47.0	170	68	1.8	100% Bg	AB	144	11	59.0%	47.0%	12.0%	8.7
US08	4	0.45	15.2	150	30	4.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	5	1.16	15.2	386	30	3.0	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	6	1.05	15.2	276	38	0.3	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	7	0.78	15.2	278	28	0.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	8	0.61	15.2	184	33	3.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	9	0.67	15.2	163	41	7.0	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	10	0.26	17.6	83	31	1.3	100% Bg	AB	144	11	27.5%	17.6%	9.9%	9.8
US08	11	0.24	17.6	80	30	1.1	100% Bg	AB	144	11	27.5%	17.6%	9.9%	9.8
US08	12	0.53	17.6	88	60	1.0	100% Bg	AB	144	11	27.5%	17.6%	9.9%	9.8
US08	13	1.81	9.9	301	60	0.3	100% Bg	AB	144	11	17.8%	9.9%	7.9%	10.1
US08	14	4.04	15.2	1091	37	0.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	15	0.64	15.2	193	33	0.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
US08	16	0.16	15.2	51	31	1.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	17	0.30	15.2	107	28	0.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	18	0.53	15.2	147	36	0.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	19	0.74	15.2	238	31	0.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	20	1.07	8.7	237	45	6.2	100% Bg	AB	144	11	17.0%	8.7%	8.3%	10.1
US08	21	1.03	15.2	332	31	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	22	0.34	13.6	178	19	1.6	100% Bg	AB	144	11	21.5%	13.6%	7.9%	10.1
US08	23	1.93	16.8	482	40	3.4	100% Bg	AB	144	11	27.5%	16.8%	10.7%	9.7
US08	24	0.23	4.0	74	31	6.4	100% Bg	AB	144	11	12.5%	4.0%	8.5%	10.1
US08	25	0.15	4.0	75	20	10.0	100% Bg	AB	144	11	12.5%	4.0%	8.5%	10.1
US08	26	0.41	10.4	82	50	2.3	100% Bg	AB	144	11	21.5%	10.4%	11.1%	9.8
US08	27	0.41	5.0	80	51	1.3	100% Bg	AB	144	11	12.8%	5.0%	7.8%	10.2
US08	28	0.29	0.0	52	55	4.8	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
US08	29	0.89	32.0	112	79	0.6	100% Bg	AB	144	11	41.0%	32.0%	9.0%	9.7
US08	30	0.30	80.0	100	30	0.1	100% Gl	BC	237	5	95.0%	80.0%	15.0%	2.0
US08	31	0.18	80.0	50	36	0.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US08	32	0.38	2.4	95	40	1.0	100% Bg	AB	144	11	9.5%	2.4%	7.1%	10.3
US08	33	0.18	4.0	52	34	1.1	100% Bg	AB	144	11	9.5%	4.0%	5.5%	10.4
US08	34	0.26	17.6	173	15	1.6	100% Bg	AB	144	11	26.0%	17.6%	8.4%	10.0
US08	35	11.02	15.2	2755	40	1.9	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US08	36	1.67	16.5	196	85	3.1	100% Gl	BC	237	5	30.8%	16.5%	14.3%	4.3
US08	37	0.47	15.2	146	32	0.8	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US08	38	0.57	15.2	172	33	0.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
US08	39	1.48	8.0	352	42	1.5	100% Gl	BC	237	5	17.0%	8.0%	9.0%	4.6
US08	40	0.54	13.6	174	31	1.7	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
US08	41	0.72	14.4	218	33	1.2	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
US08	42	0.96	8.8	282	34	0.1	100% Bg	AB	144	11	18.5%	8.8%	9.7%	9.9
US08	43	0.56	15.2	233	24	0.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	44	0.09	40.0	42	21	1.1	100% Bg	AB	144	11	50.0%	40.0%	10.0%	9.3
US08	45	1.84	19.0	252	73	1.3	100% Bg	AB	144	11	28.0%	19.0%	9.0%	9.9
US08	46	0.80	15.2	347	23	1.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	47	0.22	11.6	78	28	0.5	100% Bg	AB	144	11	23.8%	11.6%	12.2%	9.6
US08	48	1.05	30.0	318	33	0.1	100% Bg	AB	144	11	41.0%	30.0%	11.0%	9.4
US08	49	0.49	48.0	57	85	0.1	100% Bg	AB	144	11	62.0%	48.0%	14.0%	8.3
US08	50	0.12	29.6	37	32	0.1	100% Bg	AB	144	11	42.5%	29.6%	12.9%	9.2
US08	51	1.94	15.2	524	37	0.2	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	52	2.44	21.2	610	40	0.4	100% Bg	AB	144	11	32.0%	21.2%	10.8%	9.6
US08	53	0.86	15.2	182	47	2.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	54	1.70	15.2	739	23	1.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	55	1.30	14.4	270	48	2.0	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
US08	56	0.49	14.0	168	29	2.8	100% Bg	AB	144	11	25.3%	14.0%	11.3%	9.7
US08	57	0.08	65.6	47	17	1.6	100% Bg	AB	144	11	80.0%	65.6%	14.4%	6.8
US08	58	0.31	20.4	77	40	1.0	100% Bg	AB	144	11	31.3%	20.4%	10.9%	9.6
US08	59	0.61	13.6	122	50	0.1	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
US08	60	0.13	22.4	108	12	0.6	100% Bg	AB	144	11	35.0%	22.4%	12.6%	9.4
US08	61	0.69	15.2	328	21	0.1	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
US08	62	0.83	0.4	307	27	3.8	100% Bg	AB	144	11	5.8%	0.4%	5.4%	10.5
US08	63	0.52	14.4	346	15	1.0	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
US08	64	0.72	40.0	94	76	6.4	100% Bg	AB	144	11	53.0%	40.0%	13.0%	8.8
US08	65	1.12	12.8	280	40	2.2	100% Bg	AB	144	11	23.0%	12.8%	10.2%	9.8
US08	66	0.53	14.4	203	26	9.8	100% Bg	AB	144	11	26.0%	14.4%	11.6%	9.6
US08	67	0.96	7.3	213	45	2.3	100% Bg	AB	144	11	14.0%	7.3%	6.7%	10.3
US09	1	0.19	80.0	79	24	0.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US09	2	0.97	80.0	146	66	0.1	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US09	3	0.80	72.0	181	44	0.5	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US09	4	0.64	72.0	82	78	0.1	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US09	5	0.50	72.0	64	78	0.6	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US09	6	0.71	72.0	91	78	3.2	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US09	7	0.13	80.0	86	15	0.8	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US09	8	0.89	37.0	78	113	1.7	100% Bg	AB	144	11	71.0%	37.0%	34.0%	5.6
US09	9	1.41	31.0	88	160	1.4	100% Bg	AB	144	11	74.0%	31.0%	43.0%	4.8
US09	10	0.43	80.0	148	29	0.6	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US09	11	1.55	64.0	129	120	0.1	100% Bg	AB	144	11	77.0%	64.0%	13.0%	7.4
US09	12	5.42	25.0	501	108	1.0	100% Bg	AB	144	11	35.0%	25.0%	10.0%	9.7
US09	13	1.07	24.0	382	28	1.2	100% Bg	AB	144	11	39.5%	24.0%	15.5%	9.0
US09	14	2.17	25.0	197	110	1.1	100% Bg	AB	144	11	35.0%	25.0%	10.0%	9.7
US09	15	0.26	0.0	130	20	2.3	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
US09	16	0.74	40.0	142	52	2.3	60% Pal 40% Bg	B	146	5	50.0%	40.0%	10.0%	4.3
US09	17	0.12	80.0	92	13	2.9	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US09	18	0.84	41.0	127	66	3.6	100% Bg	AB	144	11	52.3%	41.0%	11.3%	9.1
US09	19	1.16	4.0	175	66	0.1	100% Bg	AB	144	11	9.5%	4.0%	5.5%	10.4
US09	20	0.41	40.0	136	30	0.1	100% Bg	AB	144	11	50.0%	40.0%	10.0%	9.3
US09	21	7.43	4.0	297	250	0.3	95% Pal 5% Bg	BC	237	5	9.5%	4.0%	5.5%	4.8
US09	22	0.26	0.0	59	44	1.9	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
US09	23	1.19	8.0	143	83	4.6	100% Bg	AB	144	11	14.0%	8.0%	6.0%	10.3
US09	24	1.20	0.0	181	66	0.7	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
US10	1	26.43	0.0	539	490	0.6	100% LI	BC	237	5	5.0%	0.0%	5.0%	4.8
US10	2	3.13	25.0	260	120	0.7	100% LI	BC	237	5	57.5%	25.0%	32.5%	3.3
US10	3	20.93	0.0	436	480	0.6	53% LI 47% M	B	146	5	5.0%	0.0%	5.0%	4.8
US10	4	13.53	50.0	410	330	1.1	80% LI 20%M	BC	237	5	65.0%	50.0%	15.0%	3.8
US10	5	129.77	0.0	1622	800	0.2	60% Gl 10% LI 30% N	BC	237	5	5.0%	0.0%	5.0%	4.8
US10	6	7.52	0.0	417	180	1.5	40% LI 60%M	B	146	5	5.0%	0.0%	5.0%	4.8
US10	7	0.46	80.0	153	30	2.0	100% Bg	AB	144	11	95.0%	80.0%	15.0%	3.5
US10	8	2.15	56.0	233	92	0.9	100% LI	BC	237	5	68.0%	56.0%	12.0%	3.9
US10	9	1.05	32.5	256	41	1.2	80% Bg 10% M 10%	AB	144	11	42.5%	32.5%	10.0%	9.5
US10	10	0.30	64.0	142	21	1.0	100% M	B	146	5	77.0%	64.0%	13.0%	3.6
US10	11	3.10	80.0	166	186	0.6	10% LI 90% M	B	146	5	95.0%	80.0%	15.0%	2.0
US10	12	1.09	64.0	726	15	0.5	50% LI 50% Bg	B	146	5	77.0%	64.0%	13.0%	3.6
US10	13	1.74	46.0	174	100	0.3	100% LI	BC	237	5	59.0%	46.0%	13.0%	4.0
US10	14	0.86	56.0	277	31	2.5	100% Bg	AB	144	11	68.0%	56.0%	12.0%	8.3

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
US10	15	0.36	72.0	225	16	1.8	100% Bg	AB	144	11	86.0%	72.0%	14.0%	6.0
US10	16	1.28	63.5	128	100	0.5	60% Bg 40% LI	B	146	5	78.5%	63.5%	15.0%	3.4
US11	1	7.97	50.0	349	228	1.5	48% Bg 45% LI 7% M	B	146	5	65.0%	50.0%	15.0%	3.8
US11	2	2.19	21.0	730	30	1.3	100% Bg	AB	144	11	25.3%	21.0%	4.3%	10.5
US11	3	0.21	24.1	60	35	0.1	100% Bg	AB	144	11	29.0%	24.1%	4.9%	10.4
US11	4	2.76	26.0	149	185	0.5	95% Bg 5% LI	AB	144	11	32.0%	26.0%	6.0%	10.2
US11	5	2.15	25.3	137	156	0.8	90% Bg 10% M	AB	144	11	32.0%	25.3%	6.7%	10.1
US11	6	0.21	17.2	95	22	0.6	100% Bg	AB	144	11	23.0%	17.2%	5.8%	10.3
US11	7	0.20	21.0	111	18	0.1	100% Bg	AB	144	11	25.3%	21.0%	4.3%	10.5
US11	8	0.49	20.1	188	26	0.1	100% Bg	AB	144	11	24.5%	20.1%	4.4%	10.5
US11	9	0.42	4.8	168	25	0.5	100% Bg	AB	144	11	14.0%	4.8%	9.2%	10.0
US11	10	0.49	18.4	144	34	0.1	100% M	B	146	5	27.5%	18.4%	9.1%	4.6
US11	11	6.20	18.7	1441	43	1.7	100% Bg	AB	144	11	24.5%	18.7%	5.8%	10.3
US11	12	0.54	27.2	168	32	0.1	75% M 25% Bg	B	146	5	36.5%	27.2%	9.3%	4.5
US11	13	2.44	14.6	530	46	2.8	100% Bg	AB	144	11	21.5%	14.6%	6.9%	10.2
US11	14	1.04	18.7	335	31	0.7	40% N 60% Bg	B	146	5	24.5%	18.7%	5.8%	4.7
US11	15	0.15	23.3	48	31	1.3	100% M	B	146	5	31.3%	23.3%	7.9%	4.6
US11	16	0.58	23.3	156	37	0.9	90% M 10% Bg	B	146	5	31.3%	23.3%	7.9%	4.6
US11	17	1.26	0.8	350	36	1.2	90% M 10% Bg	B	146	5	6.5%	0.8%	5.7%	4.8
US11	18	0.60	33.3	333	18	0.5	100% M	B	146	5	42.5%	33.3%	9.2%	4.5
US11	19	0.65	17.3	180	36	1.3	100% Bg	AB	144	11	24.5%	17.3%	7.2%	10.1
US11	20	0.97	16.0	269	36	1.7	40% M 60% Bg	B	146	5	23.0%	16.0%	7.0%	4.7
US11	21	0.56	17.3	180	31	1.6	100% M	B	146	5	24.5%	17.3%	7.2%	4.7
US11	22	0.40	16.7	97	41	0.1	100% M	B	146	5	23.8%	16.7%	7.1%	4.7
US11	23	0.74	18.7	176	42	0.1	95% M 5% Bg	B	146	5	26.0%	18.7%	7.3%	4.6
US11	24	0.31	18.0	91	34	0.1	100% Bg	AB	144	11	25.3%	18.0%	7.3%	10.1
US11	25	0.89	23.3	247	36	0.5	100% Bg	AB	144	11	31.3%	23.3%	7.9%	10.0
US11	26	0.75	17.3	187	40	1.8	100% Bg	AB	144	11	24.5%	17.3%	7.2%	10.1
US11	27	0.39	9.3	156	25	3.0	10% N 90% Bg	AB	144	11	15.5%	9.3%	6.2%	10.3
US11	28	0.40	24.0	250	16	2.1	100% Bg	AB	144	11	32.0%	24.0%	8.0%	9.9
US11	29	1.01	14.7	480	21	1.5	100% Bg	AB	144	11	21.5%	14.7%	6.8%	10.2
US11	30	0.84	11.3	365	23	0.7	100% Bg	AB	144	11	17.8%	11.3%	6.4%	10.3
US11	31	0.30	22.7	130	23	0.7	100% Bg	AB	144	11	30.5%	22.7%	7.8%	10.0
US11	32	0.07	46.7	46	15	0.1	100% Bg	AB	144	11	57.5%	46.7%	10.8%	9.0
US11	33	0.30	36.0	88	34	0.7	100% Bg	AB	144	11	45.5%	36.0%	9.5%	9.5
US11	34	10.38	0.0	451	230	0.6	50% Bg 50% M	B	146	5	5.0%	0.0%	5.0%	4.8
US11	35	0.31	0.0	72	43	3.7	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
US11	36	1.27	0.0	94	135	0.6	100% Bg	AB	144	11	5.0%	0.0%	5.0%	10.5
US11	37	1.37	8.0	76	180	4.7	100% Bg	AB	144	11	14.0%	8.0%	6.0%	10.3
US11	38	4.86	15.0	237	205	1.8	100% Bg	AB	144	11	23.0%	15.0%	8.0%	10.1
US11	39	0.98	35.0	153	64	0.3	100% Bg	AB	144	11	47.0%	35.0%	12.0%	9.2
US11	40	0.73	11.2	178	41	7.0	100% Bg	AB	144	11	20.0%	11.2%	8.8%	10.0
US11	41	1.86	17.3	581	32	3.6	100% Bg	AB	144	11	24.5%	17.3%	7.2%	10.1
US11	42	0.47	5.0	82	57	1.0	100% Bg	AB	144	11	11.0%	5.0%	6.0%	10.4
US11	43	0.61	18.5	156	39	3.8	100% Bg	AB	144	11	29.0%	18.5%	10.5%	9.7
US11	44	0.28	35.0	127	22	4.4	100% Bg	AB	144	11	47.0%	35.0%	12.0%	9.2
US11	45	3.40	44.0	208	163	1.9	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US11	46	0.15	19.4	75	20	0.1	100% Bg	AB	144	11	31.3%	19.4%	11.9%	9.5
US11	47	0.17	44.0	77	22	0.1	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
US11	48	1.83	49.4	244	75	0.1	100% Bg	AB	144	11	64.3%	49.4%	14.9%	8.1
US11	49	1.74	43.1	280	62	0.1	100% Bg	AB	144	11	57.5%	43.1%	14.4%	8.5
US11	50	1.72	43.1	121	141	0.1	100% Bg	AB	144	11	57.5%	43.1%	14.4%	8.5
US11	51	0.87	65.0	150	58	1.2	100% Bg	AB	144	11	80.0%	65.0%	15.0%	6.7
US11	52	1.14	46.0	97	117	4.1	100% Bg	AB	144	11	59.0%	46.0%	13.0%	8.6
US11	53	2.03	50.0	197	103	0.8	85% Bg 15% M	AB	144	11	65.0%	50.0%	15.0%	8.0
WW01	1	6.15	23.6	1576	39	4.8	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
WW01	2	5.66	23.3	1010	56	7.0	100% GI	BC	237	5	29.0%	23.3%	5.8%	4.7
WW01	3	4.40	23.6	1023	43	7.5	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
WW01	4	8.10	23.6	1928	42	7.2	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
WW01	5	0.82	23.6	160	51	4.2	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
WW01	6	1.23	37.2	512	24	1.8	85% GI, 15% Pal	BC	237	5	47.8%	37.2%	10.6%	4.3
WW01	7	0.68	23.6	138	49	1.7	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
WW01	8	0.68	23.6	194	35	5.1	100% GI	BC	237	5	27.5%	23.6%	3.9%	4.8
WW01	9	3.36	41.3	730	46	1.2	20% Bg, 40% Pal, 40%	BC	237	5	47.8%	41.3%	6.5%	4.6
WW02	1	0.49	13.6	196	25	3.8	100% GI	BC	237	5	24.5%	13.6%	10.9%	4.5
WW02	2	1.33	14.0	443	30	1.2	100% GI	BC	237	5	25.3%	14.0%	11.3%	4.5
WW02	3	1.73	13.6	540	32	1.8	70% GI 30% M	B	146	5	24.5%	13.6%	10.9%	4.5
WW02	4	1.72	13.2	505	34	2.1	100% GI	BC	237	5	23.8%	13.2%	10.6%	4.5
WW02	5	0.82	15.2	241	34	0.8	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
WW02	6	0.92	14.4	262	35	0.8	100% GI	BC	237	5	26.0%	14.4%	11.6%	4.5
WW02	7	1.35	14.4	385	35	0.3	100% GI	BC	237	5	26.0%	14.4%	11.6%	4.5
WW02	8	0.28	15.2	87	32	3.0	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
WW02	9	0.53	15.2	176	30	2.3	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
WW02	10	0.38	15.2	140	27	1.6	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
WW02	11	0.61	15.2	174	35	1.8	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
WW02	12	0.61	15.2	225	27	4.1	100% GI	BC	237	5	27.5%	15.2%	12.3%	4.4
WW02	13	1.32	14.4	377	35	2.8	100% GI	BC	237	5	26.0%	14.4%	11.6%	4.5
WW02	14	0.23	13.6	92	25	2.5	100% M	B	146	5	24.5%	13.6%	10.9%	4.5
WW02	15	0.63	15.2	165	38	1.3	100% M	B	146	5	27.5%	15.2%	12.3%	4.4
WW02	16	0.34	13.6	100	34	0.8	100% GI	BC	237	5	24.5%	13.6%	10.9%	4.5
WW02	17	0.61	13.2	196	31	0.6	100% GI	BC	237	5	23.8%	13.2%	10.6%	4.5
WW02	18	0.62	14.4	177	35	0.6	100% M	B	146	5	26.0%	14.4%	11.6%	4.5
WW02	19	0.13	51.2	68	19	1.3	100% M	B	146	5	65.0%	51.2%	13.8%	3.9
WW02	20	0.40	13.6	108	37	0.7	100% GI	BC	237	5	24.5%	13.6%	10.9%	4.5
WW02	21	3.22	17.2	920	35	0.4	40% Pal, 45% M 5%	B	146	5	30.0%	17.2%	12.8%	4.4
WW03	1	2.13	26.0	560	38	4.5	100% GI	BC	237	5	38.8%	26.0%	12.8%	4.3
WW03	2	2.80	11.2	651	43	5.8	100% GI	BC	237	5	20.0%	11.2%	8.8%	4.6
WW03	3	1.43	11.2	386	37	5.8	100% GI	BC	237	5	20.0%	11.2%	8.8%	4.6
WW03	4	2.16	17.6	617	35	0.3	100% Pal	BC	237	5	29.0%	17.6%	11.4%	4.4
WW03	5	0.55	15.2	220	25	0.9	50% M 50% Pal	B	146	5	27.5%	15.2%	12.3%	4.4
WW03	6	2.98	8.0	372	80	0.5	100% Pal	BC	237	5	14.0%	8.0%	6.0%	4.7
WW03	7	0.51	15.2	124	41	0.6	100% Pal	BC	237	5	24.5%	15.2%	9.3%	4.6
WW03	8	0.78	15.2	210	37	1.3	100% GI	BC	237	5	24.5%	15.2%	9.3%	4.6

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
WW03	9	1.08	16.4	308	35	0.4	100% Gl	BC	237	5	26.8%	16.4%	10.4%	4.5
WW03	10	0.91	18.0	211	43	0.5	40% Pal 60% Gl	BC	237	5	31.0%	18.0%	13.0%	4.4
WW03	11	0.62	12.6	140	44	3.5	100% Gl	BC	237	5	23.3%	12.6%	10.7%	4.5
WW03	12	1.11	15.2	246	45	4.4	30% M 25% Pal 45%	B	146	5	27.5%	15.2%	12.3%	4.4
WW03	13	0.62	15.2	137	45	0.9	100% M	B	146	5	27.5%	15.2%	12.3%	4.4
WW03	14	0.80	13.6	228	35	0.9	100% M	B	146	5	24.5%	13.6%	10.9%	4.5
WW03	15	1.57	10.4	224	70	0.8	100% M	B	146	5	18.5%	10.4%	8.1%	4.6
WW03	16	0.57	26.0	190	30	1.7	100% Pal	BC	237	5	54.5%	26.0%	28.5%	3.5
WW03	17	1.25	24.2	416	30	0.6	100% Pal	BC	237	5	50.0%	24.2%	25.8%	3.6
WW03	18	0.84	21.2	280	30	0.6	80% Pal 20% M	B	146	5	42.5%	21.2%	21.3%	3.9
WW03	19	0.27	15.2	180	15	1.5	100% Pal	BC	237	5	27.5%	15.2%	12.3%	4.4
WW03	20	0.33	15.2	220	15	0.6	40% M 60% Pal	B	146	5	27.5%	15.2%	12.3%	4.4
WW03	21	2.92	9.2	1216	24	0.3	10% M 90% Pal	B	146	5	16.3%	9.2%	7.1%	4.7
WW03	22	1.92	15.2	548	35	0.8	100% Gl	BC	237	5	29.0%	15.2%	13.8%	4.3
WW03	23	0.63	14.4	233	27	2.5	40% Pal, 60% Gl	BC	237	5	26.0%	14.4%	11.6%	4.5
WW03	24	0.45	9.6	125	36	1.3	100% Pal	BC	237	5	17.0%	9.6%	7.4%	4.7
WW03	25	1.02	8.8	283	36	0.5	100% Pal	BC	237	5	15.5%	8.8%	6.7%	4.7
WW03	26	1.17	13.0	220	53	1.0	100% Gl	BC	237	5	25.3%	13.0%	12.3%	4.4
WW03	27	0.20	20.6	86	23	1.5	100% Gl	BC	237	5	41.0%	20.6%	20.4%	4.0
WW03	28	0.14	15.2	77	18	1.7	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
WW03	29	0.08	18.8	47	17	1.7	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
WW03	30	0.82	10.4	256	32	0.5	80% Gl 20% Pal	BC	237	5	18.5%	10.4%	8.1%	4.6
WW03	31	2.35	11.6	758	31	0.3	30% Gl 70% Pal	BC	237	5	21.5%	11.6%	9.9%	4.6
WW03	32	3.80	10.4	1085	35	0.3	80% Pal 20% Gl	BC	237	5	18.5%	10.4%	8.1%	4.6
WW03	33	2.72	8.0	312	87	1.8	30% M 70% Pal	B	146	5	14.0%	8.0%	6.0%	4.7
WW04	1	5.14	23.6	1285	40	5.2	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW04	2	3.85	23.6	1040	37	1.1	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW04	3	0.95	23.6	263	36	0.6	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW04	4	0.48	23.6	129	37	0.8	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW05	1	0.62	18.4	200	31	1.5	100% Gl	BC	237	5	23.0%	18.4%	4.6%	4.8
WW05	2	8.45	19.3	1877	45	2.2	100% Gl	BC	237	5	23.8%	19.3%	4.5%	4.8
WW05	3	1.29	17.5	348	37	2.0	100% Gl	BC	237	5	22.3%	17.5%	4.7%	4.8
WW05	4	2.27	43.3	206	110	0.9	100% Gl	BC	237	5	50.0%	43.3%	6.7%	4.5
WW05	5	0.93	36.6	101	92	0.9	100% Gl	BC	237	5	42.5%	36.6%	5.9%	4.6
WW05	6	0.22	30.5	23	92	2.3	100% Gl	BC	237	5	36.5%	30.5%	6.0%	4.7
WW05	7	0.95	47.0	103	92	1.4	100% Gl	BC	237	5	54.5%	47.0%	7.5%	4.4
WW05	8	0.86	14.7	245	35	0.4	100% Gl	BC	237	5	17.8%	14.7%	3.0%	4.9
WW05	9	1.76	50.0	113	155	3.1	100% Gl	BC	237	5	65.0%	50.0%	15.0%	3.8
WW05	10	1.62	44.0	121	133	3.6	100% Gl	BC	237	5	56.0%	44.0%	12.0%	4.1
WW05	11	0.34	72.0	170	20	2.6	100% Gl	BC	237	5	86.0%	72.0%	14.0%	3.0
WW05	12	2.16	19.1	540	40	1.0	30% Gl, 70% Pal	BC	237	5	23.6%	19.1%	4.5%	4.8
WW05	13	17.47	6.5	727	240	0.6	90% Gl 10% LI	BC	237	5	44.0%	6.5%	37.5%	3.4
WW05	14	0.19	76.0	95	20	1.2	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
WW05	15	4.10	4.0	405	101	0.5	100% Gl	BC	237	5	9.5%	4.0%	5.5%	4.8
WW05	16	0.52	49.7	185	28	2.0	60% Gl, 40% Pal	BC	237	5	60.5%	49.7%	10.8%	4.1
WW05	17	1.48	0.0	155	95	3.1	100% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
WW05	18	4.23	1.0	253	167	3.6	100% Gl	BC	237	5	14.0%	1.0%	13.0%	4.5
WW05	19	0.82	21.9	248	33	0.7	95% Pal 5% Gl	BC	237	5	26.0%	21.9%	4.1%	4.8
WW05	20	1.30	15.4	448	29	0.5	70% Pal 30% gl	BC	237	5	38.8%	15.4%	23.4%	3.9
WW05	21	0.31	36.3	140	22	1.2	100% Pal	BC	237	5	44.8%	36.3%	8.4%	4.5
WW05	22	0.06	48.0	46	13	2.3	100% Gl	BC	237	5	59.0%	48.0%	11.0%	4.2
WW05	23	0.23	16.4	230	10	1.3	100% Gl	BC	237	5	26.8%	16.4%	10.4%	4.5
WW05	24	0.08	17.6	72	11	1.7	100% Gl	BC	237	5	29.0%	17.6%	11.4%	4.4
WW05	25	1.14	15.2	316	36	1.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
WW05	26	1.50	13.6	416	36	1.3	100% Gl	BC	237	5	24.5%	13.6%	10.9%	4.5
WW05	27	0.13	15.2	61	21	3.0	100% Gl	BC	237	5	27.5%	15.2%	12.3%	4.4
WW05	28	0.08	44.0	40	20	1.9	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
WW05	29	0.12	14.0	63	19	2.4	100% Gl	BC	237	5	25.3%	14.0%	11.3%	4.5
WW05	30	0.27	11.0	122	22	2.5	100% Gl	BC	237	5	21.5%	11.0%	10.5%	4.5
WW05	31	0.57	1.6	300	19	3.8	100% Gl	BC	237	5	8.0%	1.6%	6.4%	4.7
WW05	32	3.18	23.6	908	35	3.4	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW05	33	1.06	44.5	79	133	2.2	100% Gl	BC	237	5	56.0%	44.5%	11.5%	4.2
WW05	34	0.70	12.0	194	36	1.1	100% Gl	BC	237	5	21.5%	12.0%	9.5%	4.6
WW05	35	0.37	64.0	308	12	1.3	100% Gl	BC	237	5	77.0%	64.0%	13.0%	3.6
WW05	36	2.30	14.1	547	42	0.7	100% Gl	BC	237	5	19.3%	14.1%	5.2%	4.8
WW05	37	1.23	23.6	341	36	1.9	100% Pal	BC	237	5	27.5%	23.6%	3.9%	4.8
WW05	38	1.98	37.9	600	33	5.0	65% Pal 25% Gl	BC	237	5	44.0%	37.9%	6.1%	4.6
WW05	39	0.48	23.6	145	33	1.7	100% Pal	BC	237	5	27.5%	23.6%	3.9%	4.8
WW05	40	0.37	18.9	132	28	1.7	100% Pal	BC	237	5	24.5%	18.9%	5.6%	4.7
WW05	41	0.18	42.4	150	12	1.9	100% Pal	BC	237	5	50.0%	42.4%	7.6%	4.5
WW05	42	0.49	18.4	140	35	1.0	100% Pal	BC	237	5	23.0%	18.4%	4.6%	4.8
WW05	43	3.60	10.3	1285	28	0.5	70% Pal 30% Gl	BC	237	5	15.5%	10.3%	5.1%	4.8
WW05	44	3.54	23.6	983	36	3.5	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW05	45	2.35	23.6	573	41	6.3	100% Gl	BC	237	5	27.5%	23.6%	3.9%	4.8
WW05	46	1.58	17.5	464	34	1.2	60% Gl 40% Pal	BC	237	5	22.3%	17.5%	4.7%	4.8
WW05	47	0.62	13.2	140	44	0.9	100% Pal	BC	237	5	18.5%	13.2%	5.3%	4.8
WW05	48	7.72	9.2	1544	50	0.3	75% Gl 25% Pal	BC	237	5	16.6%	9.2%	7.4%	4.7
WW05	49	3.13	31.4	823	38	0.4	80% Gl 20% Pal	BC	237	5	37.3%	31.4%	5.9%	4.7
WW05	50	1.46	33.0	417	35	5.7	100% Gl	BC	237	5	38.8%	33.0%	5.8%	4.7
WW05	51	0.45	76.0	160	28	0.6	100% Gl	BC	237	5	90.5%	76.0%	14.5%	2.6
WW05	52	2.02	23.6	240	84	1.2	100% Gl	BC	237	5	29.8%	23.6%	6.2%	4.7
WW05	53	2.50	57.7	204	122	0.6	100% Gl	BC	237	5	71.0%	57.7%	13.3%	3.7
WW05	54	1.61	59.3	135	119	0.9	100% Gl	BC	237	5	72.5%	59.3%	13.2%	3.7
WW05	55	2.55	43.7	212	120	2.3	100% Gl	BC	237	5	53.0%	43.7%	9.3%	3.9
WW05	56	1.25	55.7	111	112	2.3	100% Gl	BC	237	5	68.0%	55.7%	12.3%	3.3
WW05	57	1.16	47.2	122	95	2.3	100% Gl	BC	237	5	56.8%	47.2%	9.6%	4.3
WW05	58	3.92	48.8	266	147	3.2	100% Gl	BC	237	5	58.3%	48.8%	9.4%	4.3
WW05	59	0.49	56.0	104	47	2.3	100% Gl	BC	237	5	68.0%	56.0%	12.0%	3.9
WW05	60	1.15	42.0	132	87	1.1	100% Gl	BC	237	5	53.0%	42.0%	11.0%	4.2
WW06	1	0.85	80.0	850	10	1.0	35% Col 35% LI 30%	B	146	5	95.0%	80.0%	15.0%	2.0
WW06	2	0.17	80.0	170	10	1.2	100% LI	BC	237	5	95.0%	80.0%	15.0%	2.0
WW06	3	14.00	16.0	933	150	0.7	30% Gl 30% LI	BC	237	5	62.0%	16.0%	46.0%	2.8
WW06	4	0.49	10.0	376	13	0.8	100% Gl	BC	237	5	95.0%	10.0%	85.0%	1.2

TABLE J1: HYDROLOGIC MODELLING PARAMETERS

Network	Sub-catchment	Area (ha)	Direct Connect Imperv (%)	Width (m)	Length (m)	Average Slope (%)	Soil Types	Average SCS Soil Class	Pervious Suction Head (mm)	Pervious Saturated Hydraulic Conductivity (mm/hr)	Total Imperv. (%)	Direct Connect Imperv (%)	Percent Impervious Not Directly Connected	Overall Saturated Hydraulic Conductivity (mm/hr)
WW06	5	2.17	9.0	310	70	1.0	70% Gl 30% LI	BC	237	5	59.0%	9.0%	50.0%	2.8
WW06	6	13.27	9.5	520	255	0.7	80% LI 15%Col 5% G	BC	237	5	23.0%	9.5%	13.5%	4.4
WW06	7	11.80	0.0	347	340	0.4	40% Col 45% LI 15%	B	146	5	5.0%	0.0%	5.0%	4.8
WW06	8	2.89	23.7	321	90	1.6	100% Gl	BC	237	5	34.3%	23.7%	10.6%	4.4
WW06	9	10.36	30.0	460	225	1.9	90% Gl 10% Col	BC	237	5	41.0%	30.0%	11.0%	4.4
WW06	10	10.70	8.0	465	230	2.5	80% Gl 20% LI	BC	237	5	53.0%	8.0%	45.0%	3.0
WW06	11	12.95	3.0	513	252	2.5	75% Gl 25% LI	BC	237	5	23.0%	3.0%	20.0%	4.2
WW06	12	3.51	50.0	151	231	0.3	95% Gl 5% LI	BC	237	5	65.0%	50.0%	15.0%	3.8
WW06	13	2.04	53.0	115	177	0.7	80% LI 20% Gl	BC	237	5	68.0%	53.0%	15.0%	3.7
WW06	14	1.34	43.0	141	95	0.8	20% LI 80% Gl	BC	237	5	54.5%	43.0%	11.5%	4.2
WW06	15	1.68	45.0	82	204	0.5	100% Gl	BC	237	5	59.0%	45.0%	14.0%	4.0
WW06	16	2.79	40.5	136	204	1.4	100% Gl	BC	237	5	53.0%	40.5%	12.5%	4.2
WW06	17	5.26	25.0	284	185	0.2	70% LI 20% Gl 10% C	BC	237	5	57.5%	25.0%	32.5%	3.3
WW06	18	4.25	30.0	287	148	0.4	90% Col 10% Gl	B	146	5	68.0%	30.0%	38.0%	2.8
WW06	19	15.32	13.5	620	247	0.2	100% Gl	BC	237	5	47.0%	13.5%	33.5%	3.5
WW06	20	2.59	21.2	249	104	2.1	100% Gl	BC	237	5	42.5%	21.2%	21.3%	3.9
WW06	21	4.89	5.2	479	102	2.4	100% Gl	BC	237	5	23.0%	5.2%	17.8%	4.2
WW06	22	2.71	6.0	258	105	2.8	100% Gl	BC	237	5	13.3%	6.0%	7.3%	4.7
WW06	23	3.93	48.0	190	206	0.5	90% Gl 10% Col	BC	237	5	62.0%	48.0%	14.0%	3.9
WW06	24	15.76	11.5	768	205	1.6	50% Col 50% Gl	B	146	5	35.0%	11.5%	23.5%	3.9
WW06	25	0.42	10.0	323	13	1.4	100% Gl	BC	237	5	95.0%	10.0%	85.0%	1.2
WW06	26	0.10	10.0	76	13	0.7	100% Col	B	146	5	95.0%	10.0%	85.0%	1.2
WW06	27	0.06	10.0	46	13	1.1	100% Col	B	146	5	95.0%	10.0%	85.0%	1.2
WW06	28	0.09	10.0	69	13	3.1	100% Col	B	146	5	95.0%	10.0%	85.0%	1.2
WW06	29	21.53	4.0	500	430	1.5	85% LI 10% Col 5%G	BC	237	5	9.5%	4.0%	5.5%	4.8
WW06	30	31.03	0.0	576	538	1.1	90% LI 10% Gl	BC	237	5	5.0%	0.0%	5.0%	4.8
WW06	31	9.66	9.0	785	123	0.5	100% LI	BC	237	5	59.0%	9.0%	50.0%	2.8
WW06	32	4.08	6.5	582	70	0.7	100% LI	BC	237	5	44.0%	6.5%	37.5%	3.4
WW06	33	15.03	9.0	844	178	1.2	50% Col 25% Gl 25%	B	146	5	59.0%	9.0%	50.0%	2.8
WW06	34	5.13	8.5	684	75	0.6	90% Col 10% LI	B	146	5	56.0%	8.5%	47.5%	2.9
WW06	35	0.96	0.0	685	14	1.1	50% Col 50% Gl	B	146	5	5.0%	0.0%	5.0%	4.8
WW06	36	3.20	28.0	450	71	0.5	100% LI	BC	237	5	56.0%	28.0%	28.0%	3.4
WW07	1	1.26	15.2	393	32	3.1	75% Gl 25% Bg	B	146	5	27.5%	15.2%	12.3%	4.4
WW07	2	0.17	15.2	77	22	1.5	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	3	1.29	15.2	348	37	0.3	90% Gl 10% Bg	BC	237	5	27.5%	15.2%	12.3%	4.4
WW07	4	0.47	15.2	123	38	0.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	5	1.59	15.2	467	34	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	6	1.40	15.2	636	22	0.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	7	1.23	15.2	361	34	0.6	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	8	1.42	15.2	525	27	0.4	60% Bg 40% Gl	B	146	5	27.5%	15.2%	12.3%	4.4
WW07	9	2.16	19.2	553	39	0.3	100% Bg	AB	144	11	29.0%	19.2%	9.8%	9.8
WW07	10	1.63	18.4	479	34	0.8	100% Bg	AB	144	11	26.8%	18.4%	8.4%	10.0
WW07	11	0.06	8.0	37	16	1.5	100% Bg	AB	144	11	20.0%	8.0%	12.0%	9.7
WW07	12	0.36	15.2	102	35	0.9	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	13	0.22	15.2	66	33	1.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	14	0.63	15.2	190	33	1.4	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	15	0.98	15.2	362	27	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	16	0.87	8.0	348	25	0.5	100% Bg	AB	144	11	14.0%	8.0%	6.0%	10.3
WW07	17	0.36	15.2	150	24	0.7	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW07	18	0.34	15.2	106	32	0.8	100% Bg	AB	144	11	27.5%	15.2%	12.3%	9.5
WW08	1	0.20	44.0	117	17	3.8	100% Gl	BC	237	5	57.5%	44.0%	13.5%	4.0
WW08	2	0.88	18.8	258	34	3.9	100% Gl	BC	237	5	31.3%	18.8%	12.5%	4.4
WW08	3	0.42	26.0	120	35	0.8	100% Gl	BC	237	5	38.8%	26.0%	12.8%	4.3
WW08	4	3.21	29.6	917	35	1.3	60% Gl 40% Bg	B	146	5	42.5%	29.6%	12.9%	4.3
WW08	5	2.03	15.2	580	35	0.5	95% Gl 5% Bg	BC	237	5	27.5%	15.2%	12.3%	4.4
WW08	6	0.70	44.0	437	16	0.4	100% Bg	AB	144	11	57.5%	44.0%	13.5%	8.6
WW08	7	0.27	22.4	150	18	0.6	100% Bg	AB	144	11	35.0%	22.4%	12.6%	9.4
WW08	8	0.78	33.2	210	37	2.2	100% Bg	AB	144	11	46.3%	33.2%	13.1%	9.0
WW08	9	3.01	0.8	1584	19	1.8	100% Bg	AB	144	11	6.5%	0.8%	5.7%	10.4
WW08	10	0.81	20.0	135	60	0.5	100% Bg	AB	144	11	27.5%	20.0%	7.5%	10.1
WW08	11	0.76	53.9	152	50	1.4	100% Bg	AB	144	11	68.8%	53.9%	14.9%	7.8
WW08	12	1.05	13.6	318	33	0.5	100% Bg	AB	144	11	24.5%	13.6%	10.9%	9.7
WW08	13	2.43	14.0	736	33	1.1	100% Bg	AB	144	11	25.3%	14.0%	11.3%	9.7
WW08	14	0.68	36.8	206	33	0.5	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
WW08	15	0.40	36.8	121	33	0.8	100% Bg	AB	144	11	50.0%	36.8%	13.2%	8.9
WW08	16	1.76	26.0	475	37	0.5	100% Bg	AB	144	11	38.8%	26.0%	12.8%	9.3
WW08	17	0.87	33.2	263	33	0.4	100% Bg	AB	144	11	46.3%	33.2%	13.1%	9.0

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
CC01	1	2.13		0.65		0.20		0.15				1.00	0.35	0.20	All green	90	0.40
CC01	2	1.98		0.80		0.10		0.10				1.00	0.34	0.18	All green	90	0.40
CC01	3	2.50		0.80		0.10		0.10				1.00	0.34	0.18	All green	90	0.40
CC01	4	2.32				1.00						1.00	0.95	0.60	All green	90	0.40
CC01	5	1.98	0.20			0.80						1.00	0.08	0.02	All green	90	0.40
CC01	6	2.95	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
CC01	7	3.82	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
CC01	8	2.41	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
CC01	9	3.97	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC01	10	4.35	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
CC01	11	7.59	0.75			0.25						1.00	0.16	0.06	All green	90	0.40
CC01	12	0.46	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC01	13	1.67	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC01	14	0.83	0.55					0.45				1.00	0.54	0.40	All green	90	0.40
CC01	15	1.17	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
CC01	16	1.64	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC01	17	2.92	0.05			0.95						1.00	0.06	0.00	All green	90	0.40
CC01	18	0.76				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
CC01	19	0.67				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
CC01	20	0.93						1.00				1.00	0.95	0.80	All green	90	0.40
CC01	21	3.24						1.00				1.00	0.85	0.50	No info	90	0.40
CC01	22	1.72	0.90					1.00		1.00		1.00	0.28	0.15	All green	90	0.40
CC01	23	1.38	0.90					1.00				1.00	0.28	0.15	All green	90	0.40
CC02	1	1.31	0.40			0.50		0.10				1.00	0.20	0.11	All green	90	0.40
CC02	2	1.03	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC02	3	0.26	0.70					0.30				1.00	0.43	0.30	All green	90	0.40
CC02	4	1.59	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
CC02	5	0.64	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC02	6	3.51	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
CC02	7	0.33	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
CC02	8	5.21	0.20		0.40	0.30		0.10				1.00	0.35	0.18	All green	90	0.40
CC02	9	1.74	0.80			0.10		0.10				1.00	0.28	0.14	All green	90	0.40
CC02	10	2.06	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
CC02	11	0.09	0.20			0.20		0.60				1.00	0.62	0.50	All green	90	0.40
CC02	12	2.36	0.25			0.65		0.10				1.00	0.18	0.10	All green	90	0.40
CC02	13	2.20	0.05			0.85		0.10				1.00	0.15	0.08	All green	90	0.40
CC02	14	1.15	0.40			0.50		0.10				1.00	0.20	0.11	All green	90	0.40
CC02	15	2.74	0.70			0.30		0.30				1.00	0.16	0.06	All green	90	0.40
CC02	16	0.67	0.50			0.30		0.20				1.00	0.31	0.20	All green	90	0.40
CC02	17	0.89	0.10			0.60		0.30				1.00	0.34	0.25	All green	90	0.40
CC02	18	0.38				0.30		0.70				1.00	0.68	0.56	All green	90	0.40
CC02	19	0.29	0.30			0.20		0.50				1.00	0.55	0.42	All green	90	0.40
ER01	1	5.92	0.55			0.22		0.22				1.00	0.34	0.22	Assumed green	90	0.40
ER01	2	1.23								1.00		1.00	0.65	0.50	All green	90	0.40
ER01	3	1.08	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
ER01	4	1.74	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
ER01	5	2.42	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
ER01	6	0.42	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
ER01	7	0.75						0.70		1.00		1.00	0.65	0.50	No info	90	0.40
ER01	8	0.86	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
ER01	9	0.50	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
ER01	10	1.74	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
ER01	11	0.45						0.10				1.00	0.28	0.15	No info	90	0.40
ER01	12	2.31	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
ER01	13	0.31	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
ER01	14	1.36								1.00		1.00	0.65	0.50	All green	90	0.40
ER01	15	1.02	0.10					0.90				1.00	0.61	0.46	All green	90	0.40
ER01	16	4.69								1.00		1.00	0.65	0.50	All green	90	0.40
ER01	17	0.32	0.60					0.40				1.00	0.50	0.37	All green	90	0.40
ER01	18	0.75	0.30					0.10		0.60		1.00	0.55	0.40	All green	90	0.40
ER01	19	0.64						0.20		0.80		1.00	0.71	0.56	All green	90	0.40
ER01	20	5.31										1.00	0.65	0.10	No info	90	0.40
ER01	21	0.21				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
HC01	1	6.22	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	2	2.27	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	3	1.20	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	4	2.49	0.30			0.60		0.10				1.00	0.19	0.10	No info	90	0.40
HC01	5	2.50	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	6	1.32	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	7	0.70	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	8	0.52	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	9	0.66	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC01	10	1.14	0.90					0.10				1.00	0.28	0.18	Assumed blue	70	0.53
HC01	11	1.39	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
HC01	12	3.10	0.90					0.10				1.00	0.28	0.16	Half green half blue	80	0.47
HC02	1	0.37	0.40			0.20		0.40				1.00	0.47	0.37	Assumed yellow	50	0.67
HC02	2	2.17	0.30			0.10		0.60				1.00	0.64	0.50	All green	90	0.40
HC02	3	0.19	0.40			0.10		0.50				1.00	0.56	0.43	All green	90	0.40
HC02	4	0.41	0.65			0.05		0.30				1.00	0.42	0.29	All green	90	0.40
HC02	5	2.96	0.85			0.05		0.10				1.00	0.27	0.15	All green	90	0.40
HC02	6	1.79	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC02	7	0.78	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HC02	8	1.26	0.45			0.45		0.10				1.00	0.21	0.12	All green	90	0.40
HC02	9	0.87	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC02	10	0.94	0.55			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
HC02	11	1.49	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC02	12	2.15	0.55			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
HC02	13	0.84	0.45			0.45		0.10				1.00	0.21	0.12	All green	90	0.40
HC02	14	0.92	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
HC02	15	1.60	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
HC02	16	0.51	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC02	17	2.36	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
HC02	18	3.83	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC02	19	1.52	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HC02	20	0.44	0.40			0.20		0.40				1.00	0.47	0.35	All green	90	0.40
HC02	21	3.51	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HC02	22	2.97	0.80														

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
HC04	3	1.20	0.65			0.25		0.10				1.00	0.24	0.15	All blue	70	0.53
HC04	4	5.28				0.70		0.10		0.20		1.00	0.26	0.18	No info	90	0.40
HC04	5	0.62	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
HC04	6	1.07	0.65					0.10				1.00	0.28	0.18	All blue	70	0.53
HC04	7	0.09	0.60			0.40		0.10				1.00	0.50	0.38	All blue	70	0.53
HC04	8	0.34	0.70			0.20		0.10				1.00	0.25	0.15	All blue	70	0.53
HC04	9	0.53	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
HC04	10	0.62	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
HC04	11	0.91	0.65			0.25		0.10				1.00	0.24	0.17	All yellow	50	0.67
HC04	12	2.49	0.65			0.25		0.10				1.00	0.24	0.15	All green	90	0.40
HC04	13	0.30	0.90					0.10				1.00	0.28	0.15	Assumed green	90	0.40
HC04	14	2.79	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	15	3.91	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	16	0.46	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC04	17	2.25	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
HC04	18	0.26	0.85					0.15				1.00	0.31	0.21	All blue	70	0.53
HC04	19	1.30	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
HC04	20	0.56	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
HC04	21	0.15	0.65			0.20		0.15				1.00	0.28	0.17	All green	90	0.40
HC04	22	0.23	0.40			0.40		0.20				1.00	0.29	0.19	All green	90	0.40
HC04	23	0.56				0.50		0.20				1.00	0.26	0.18	All green	90	0.40
HC04	24	0.13	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HC04	25	0.78	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	26	0.74	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HC04	27	0.36	0.35			0.55		0.10				1.00	0.19	0.11	All green	90	0.40
HC04	28	0.73	0.90			0.20		0.10				1.00	0.28	0.15	All green	90	0.40
HC04	29	3.62	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	30	1.94	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	31	0.48	0.50			0.20		0.30				1.00	0.40	0.28	All green	90	0.40
HC04	32	0.34	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC04	33	1.13	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	34	1.55	0.70			0.30		0.10				1.00	0.16	0.06	No info	90	0.40
HC04	35	0.49	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC04	36	2.93				0.35				0.65		1.00	0.44	0.33	All green	90	0.40
HC05	1	5.99	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
HC05	2	3.23	0.55			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
HC05	3	0.11				0.05		0.05				1.00	0.91	0.76	All green	90	0.40
HC05	4	0.49	0.40			0.50		0.10				1.00	0.20	0.11	All green	90	0.40
HC05	5	0.92			0.35	0.55		0.10				1.00	0.30	0.15	All green	90	0.40
HC05	6	0.42	0.60			0.25		0.15				1.00	0.28	0.17	All green	90	0.40
HC05	7	0.73	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
HC05	8	2.20	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HC05	9	0.27	0.65			0.20		0.10				1.00	0.24	0.13	All green	90	0.40
HC05	10	0.35	0.70			0.15		0.15				1.00	0.29	0.18	All green	90	0.40
HC05	11	3.17	0.65			0.35		0.10				1.00	0.15	0.05	All green	90	0.40
HC05	1	0.32	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HC06	2	0.65	0.85			0.05		0.10				1.00	0.27	0.15	All green	90	0.40
HC06	3	1.49				1.00		0.05				1.00	0.05	0.00	All green	90	0.40
HC06	4	1.11	0.05			0.95		0.10				1.00	0.06	0.00	All green	90	0.40
HC06	5	0.35	0.85			0.10		0.05				1.00	0.22	0.11	No info	90	0.40
HC06	6	1.57	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HC06	7	0.40	0.90			0.05		0.05				1.00	0.23	0.11	All green	90	0.40
HC06	8	4.15				0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HC06	9	2.61	0.62			0.28		0.10				1.00	0.23	0.13	All green	90	0.40
HC06	10	2.40	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HC06	11	0.22	0.70			0.15		0.15				1.00	0.29	0.18	All green	90	0.40
HC06	12	0.20	0.60			0.15		0.25				1.00	0.37	0.25	All green	90	0.40
HC06	13	0.28	0.40			0.60		0.10				1.00	0.65	0.51	All green	90	0.40
HC06	14	1.61			0.75	0.15		0.10				1.00	0.48	0.33	No info	90	0.40
HC06	15	0.12				1.00						1.00	0.95	0.80	All green	90	0.40
HC06	16	0.28			0.15	0.05		0.80				1.00	0.84	0.67	All green	90	0.40
HC06	17	1.54			0.70	0.20		0.10				1.00	0.46	0.22	All green	90	0.40
HC06	18	2.66	0.05			0.15		0.50		0.30		1.00	0.69	0.55	All green	90	0.40
HC06	19	0.03				1.00		1.00				1.00	0.95	0.80	No info	90	0.40
HC06	20	0.21				1.00		1.00				1.00	0.95	0.80	All green	90	0.40
HC06	21	1.27				0.05		0.65		0.30		1.00	0.82	0.67	All green	90	0.40
HC06	22	0.06				1.00		1.00				1.00	0.95	0.80	No info	90	0.40
HC06	23	1.50				0.05		0.75		0.20		1.00	0.85	0.70	All green	90	0.40
HC06	24	0.12				1.00		1.00				1.00	0.95	0.80	All green	90	0.40
HC06	25	3.25	0.70			0.15		0.15				1.00	0.29	0.18	All green	90	0.40
HC06	26	2.64	0.20			0.50		0.30				1.00	0.35	0.26	All green	90	0.40
HC06	27	0.16				0.05		0.95				1.00	0.91	0.76	All green	90	0.40
HC06	28	0.20				1.00		1.00				1.00	0.95	0.80	All green	90	0.40
HC06	29	1.24				0.90		0.10				1.00	0.14	0.08	All green	90	0.40
HC06	30	0.33				0.40		0.60				1.00	0.59	0.48	All green	90	0.40
HC06	31	1.81	0.20			0.80		0.10				1.00	0.08	0.02	All green	90	0.40
HC06	32	1.35	0.65			0.35		0.10				1.00	0.15	0.05	All green	90	0.40
HC07	1	3.02	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC07	2	1.15	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HC07	3	0.37	0.80			0.10		0.10				1.00	0.26	0.14	No info	90	0.40
HC07	4	0.34	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC07	5	0.29	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HC07	6	2.06	0.73			0.17		0.10				1.00	0.25	0.14	All green	90	0.40
HC07	7	0.38	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
HC07	8	0.19	0.83			0.07		0.10				1.00	0.26	0.15	All green	90	0.40
HC07	9	0.25	0.20			0.75		0.05				1.00	0.13	0.06	No info	90	0.40
HC08	1	0.69	0.65			0.20		0.15				1.00	0.28	0.17	All green	90	0.40
HC08	2	2.32	0.85			0.15		0.15				1.00	0.31	0.19	All green	90	0.40
HC08	3	2.00	0.90			0.10		0.10				1.00	0.28	0.15	All green	90	0.40
HC08	4	0.69	0.45			0.45		0.10				1.00	0.21	0.12	All green	90	0.40
HC08	5	0.65	0.50	0.60		0.30		0.10				1.00	0.29	0.15	All green	90	0.40
HC08	6	1.19	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HC08	7	0.55	0.75			0.10		0.10				1.00	0.25	0.14	All green	90	0.40
HC08	8	0.41	0.20			0.10		0.70				1.00	0.71	0.58	All green	90	0.40
HC08	9	1.78	1.00	0.80		0.10		0.10				1.00	0.34	0.18	All green	90	0.40

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
HD02	13	2.86			0.70	0.20		0.10				1.00	0.46	0.38	All red	20	0.87
HD02	14	11.86	0.80					0.10		0.10		1.00	0.32	0.27	Assumed red	20	0.87
HD02	15	0.98	0.40			0.50						1.00	0.17	0.12	All red	20	0.87
HD02	16	3.25	0.55			0.30		0.10		0.05		1.00	0.25	0.20	All red	20	0.87
HD02	17	1.31	0.50					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	18	3.20	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
HD02	19	1.12	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	20	2.55	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	21	1.09	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	22	1.10	0.90					0.10				1.00	0.28	0.24	Assumed red	20	0.87
HD02	23	4.75				0.90		0.10				1.00	0.14	0.08	All yellow	50	0.67
HD02	24	2.56	0.15			0.75		0.10				1.00	0.16	0.11	All red	20	0.87
HD02	25	2.64	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	26	1.23	0.80					0.40				1.00	0.50	0.40	Assumed yellow	50	0.67
HD02	27	0.73	0.90					0.40				1.00	0.50	0.40	All yellow	50	0.67
HD02	28	1.16	0.60					0.40				1.00	0.50	0.40	All yellow	50	0.67
HD02	29	7.41					1.00					1.00	0.30	0.15	All red	20	0.87
HD02	30	1.86	0.80			0.10		0.10				1.00	0.26	0.20	Half red, half yellow	35	0.77
HD02	31	1.46	0.60			0.40		0.10				1.00	0.50	0.40	All yellow	50	0.67
HD02	32	2.86	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	33	6.27	0.40			0.55		0.05				1.00	0.16	0.07	All green	90	0.40
HD02	34	1.42	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	35	7.80	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	36	4.71	0.40			0.60						1.00	0.11	0.05	Assumed yellow	50	0.67
HD02	37	1.22	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	38	11.36	0.90			0.25		0.10		0.05		1.00	0.28	0.15	All green	90	0.40
HD02	39	4.07	0.50			0.45		0.05				1.00	0.17	0.08	All green	90	0.40
HD02	40	1.67	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	41	2.53	0.85					0.10		0.05		1.00	0.30	0.21	Half red Half green	55	0.63
HD02	42	2.17	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	43	0.92								1.00		1.00	0.85	0.50	No info	90	0.40
HD02	44	1.58	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
HD02	45	5.76	0.75			0.05	0.10	0.10				1.00	0.28	0.16	All green	90	0.40
HD02	46	1.67	0.80					0.10		0.10		1.00	0.32	0.19	All green	90	0.40
HD02	47	2.04	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	48	12.09	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HD02	49	6.32	0.90			0.10		0.10				1.00	0.28	0.15	All green	90	0.40
HD02	50	4.71	0.50					0.10				1.00	0.28	0.18	Half green, half yellow	70	0.53
HD02	51	2.12	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HD02	52	1.14	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	53	0.91	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	54	1.92	0.90				0.03	0.07				1.00	0.25	0.13	All green	90	0.40
HD02	55	2.40				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
HD02	56	1.98	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	57	0.46	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	58	0.60	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
HD02	59	1.75	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
HD02	60	0.81	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	61	2.66	0.50					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	62	13.51	0.80				0.10	0.10				1.00	0.29	0.16	All green	90	0.40
HD02	63	6.11	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	64	4.36	0.30			0.30	0.40					1.00	0.20	0.08	All green	90	0.40
HD02	65	4.57	0.90					0.10				1.00	0.28	0.18	Half green, Half yellow	70	0.53
HD02	66	1.50	0.90					0.10				1.00	0.28	0.18	Half green, Half yellow	70	0.53
HD02	67	1.09	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	68	2.16	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	69	1.09	0.20			0.70		0.10				1.00	0.17	0.10	All green	90	0.40
HD02	70	1.11	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HD02	71	1.78	0.95			0.95						1.00	0.96	0.80	No info	90	0.40
HD02	72	1.17	0.50					0.10				1.00	0.28	0.19	Half red, half green	55	0.63
HD02	73	3.41	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
HD02	74	8.72	0.90					0.10				1.00	0.28	0.24	Assumed red	20	0.87
HD02	75	1.67	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	76	2.19						1.00				1.00	0.95	0.80	All green	90	0.40
HD02	77	2.68						0.25				1.00	0.38	0.26	All green	90	0.40
HD02	78	1.68	0.75			0.25		0.10				1.00	0.24	0.16	Half red, half green	55	0.63
HD02	79	6.74	0.55					0.10		0.35		1.00	0.43	0.30	Assumed green	90	0.40
HD02	80	1.19	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
HD02	81	0.81	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
HD02	82	3.26	0.90				0.10	0.10				1.00	0.26	0.14	All green	90	0.40
HD02	83	1.16	0.35			0.60		0.05				1.00	0.15	0.07	All green	90	0.40
HD02	84	0.48	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	85	1.51				0.90		0.10				1.00	0.14	0.08	All green	90	0.40
HD02	86	0.86	0.60					0.40				1.00	0.50	0.37	All green	90	0.40
HD02	87	2.99	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HD02	88	0.93	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	89	2.88				0.30		0.10		0.60		1.00	0.50	0.38	All green	90	0.40
HD02	90	1.08	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	91	1.30	0.95					0.05				1.00	0.24	0.12	All green	90	0.40
HD02	92	1.90				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
HD02	93	3.66				1.00		1.00				1.00	0.95	0.80	All green	90	0.40
HD02	94	1.28	0.20					0.80				1.00	0.80	0.66	No info	90	0.40
HD02	95	1.58						1.00				1.00	0.95	0.80	All green	90	0.40
HD02	96	1.26	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
HD02	97	2.06				0.90		0.10				1.00	0.14	0.08	No info	90	0.40
HD02	98	4.37				0.30	0.60	0.10				1.00	0.29	0.17	All green	90	0.40
HD02	99	0.54	0.90					0.10				1.00	0.28	0.15	Assumed green	90	0.40
HD02	100	0.64	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	101	2.16	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
HD02	102	0.44	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	103	0.75	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	104	2.22	0.90			0.40		0.05				1.00	0.18	0.08	All green	90	0.40
HD02	105	1.23	0.50					0.10				1.00	0.28	0.15	All green	90	0.40
HD02	106	1.21	0.90					0.10				1.00	0.28	0.15	Assumed green	90	0.40
HD03	1	2.77	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
HD03	2	1.14	0.90					0.10				1.00	0.28	0.15	All green	90	

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses
HD06	8	3.69	0.38			0.54		0.08				1.00	0.18	0.09	All green	90	0.40
HD06	9	0.68	0.60					0.40				1.00	0.50	0.37	No info	90	0.40
HD06	10	5.12	0.15			0.85						1.00	0.07	0.01	No info	90	0.40
HD06	11	1.21	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
HD06	12	2.22	0.50					0.10				1.00	0.28	0.15	All green	90	0.40
HD06	13	0.49	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
HD06	14	0.30	0.80					0.20				1.00	0.35	0.22	All green	90	0.40
HD06	15	0.24	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
HD06	16	0.32				0.30		0.70				1.00	0.88	0.56	No info	90	0.40
HD06	17	1.20	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
HD06	18	6.09				1.00						1.00	0.05	0.00	All yellow	50	0.67
LS01	1	0.84	0.10			0.80						1.00	0.16	0.10	All red	20	0.87
LS01	2	1.19	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS01	3	0.51	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS01	4	0.89	0.90					0.10				1.00	0.22	0.24	All red	20	0.87
LS01	5	3.03	0.50					0.10				1.00	0.28	0.24	All red	20	0.87
LS01	6	1.18	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS01	7	1.58	0.70					0.30				1.00	0.43	0.36	All red	20	0.87
LS01	8	3.12	0.90					0.10				1.00	0.28	0.15	All red	20	0.87
LS02	1	1.28										1.00	0.65	0.10	Assumed green	90	0.40
LS02	2	2.75				0.30						0.70	1.00	0.47	No info	90	0.40
LS02	3	1.06										1.00	0.65	0.10	All green	90	0.40
LS02	4	5.05				0.30						0.70	1.00	0.47	No info	90	0.40
LS02	5	1.49										1.00	0.65	0.10	No info	90	0.40
LS02	6	0.75				0.85						0.15	1.00	0.14	All green	90	0.40
LS02	7	0.40	1.00									1.00	0.20	0.17	All red	20	0.87
LS02	8	0.57	0.40			0.45						0.15	1.00	0.20	Half red, half green	55	0.63
LS02	9	1.47	0.40			0.45						0.15	1.00	0.20	Half red, half green	55	0.63
LS02	10	1.32	0.45			0.40						0.15	1.00	0.21	Half red, half green	55	0.63
LS02	11	9.14	0.90			0.05		0.05				1.00	0.23	0.18	Half red, half yellow	35	0.77
LS02	12	0.62	0.90			0.50					0.50	1.00	0.35	0.05	All green	90	0.40
LS02	13	0.58						0.10				1.00	0.28	0.15	All green	90	0.40
LS02	14	0.53	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS02	15	0.56	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS02	16	0.73	0.70					0.30				1.00	0.43	0.30	All green	90	0.40
LS02	17	1.18	0.80					0.20				1.00	0.35	0.22	All green	90	0.40
LS02	18	1.63	0.40			0.60						1.00	0.65	0.51	All green	90	0.40
LS02	19	1.10	0.50					0.10				1.00	0.28	0.15	All green	90	0.40
LS02	20	0.57	0.60					0.40				1.00	0.50	0.37	No info	90	0.40
LS02	21	0.83	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS02	22	0.73	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS02	23	0.65				0.30						1.00	0.68	0.56	All green	90	0.40
LS02	24	0.67	0.50					0.20				1.00	0.31	0.20	All green	90	0.40
LS02	25	1.51	0.10			0.80						1.00	0.16	0.09	All green	90	0.40
LS02	26	0.63				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
LS02	27	0.39				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
LS02	28	2.97				0.80		0.20				1.00	0.23	0.16	No info	90	0.40
LS02	29	8.16				1.00						1.00	0.95	0.80	No info	90	0.40
LS02	30	0.69				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
LS02	31	0.44				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
LS02	32	0.68				0.90		0.10				1.00	0.14	0.08	No info	90	0.40
LS02	33	1.17				0.18			0.82			1.00	0.54	0.41	No info	90	0.40
LS02	34	0.72	0.55			0.31			0.14			1.00	0.22	0.11	No info	90	0.40
LS02	35	4.26				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
LS02	36	4.66				0.25				0.75		1.00	0.50	0.38	No info	90	0.40
LS02	37	1.05									1.00	0.65	0.10	No info	90	0.40	
LS02	38	1.28						0.15		0.85		1.00	0.70	0.55	No info	90	0.40
LS02	39	2.91										1.00	0.65	0.10	No info	90	0.40
LS02	40	3.58										1.00	0.65	0.10	No info	90	0.40
LS02	41	5.16										1.00	0.65	0.10	No info	90	0.40
LS02	42	0.49				0.80		0.20				1.00	0.23	0.16	No info	90	0.40
LS02	43	0.23						1.00				1.00	0.95	0.80	No info	90	0.40
LS02	44	2.24						0.10			0.90	1.00	0.68	0.17	No info	90	0.40
LS02	45	3.59						0.05			0.95	1.00	0.67	0.14	No info	90	0.40
LS02	46	2.89						0.05			0.95	1.00	0.67	0.14	No info	90	0.40
LS02	47	2.73						0.05			0.95	1.00	0.67	0.14	No info	90	0.40
LS02	48	2.39						0.05			0.95	1.00	0.67	0.14	No info	90	0.40
LS02	49	1.53						0.05			0.95	1.00	0.67	0.14	No info	90	0.40
LS02	50	2.86				0.20		0.05			0.75	1.00	0.55	0.12	No info	90	0.40
LS02	51	4.52			0.40			0.60				1.00	0.77	0.61	All yellow	50	0.67
LS02	52	1.21				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
LS02	53	2.80				0.90		0.10				1.00	0.14	0.08	All green	90	0.40
LS02	54	0.97				1.00						1.00	0.05	0.00	All green	90	0.40
LS02	55	0.53				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
LS02	56	0.51				0.85		0.15				1.00	0.19	0.12	All green	90	0.40
LS02	57	0.37				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
LS02	58	1.62			1.00							1.00	0.50	0.20	No info	90	0.40
LS02	59	1.92				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
LS02	60	1.74				1.00						1.00	0.05	0.00	No info	90	0.40
LS02	61	1.95				0.40		0.10		0.50		1.00	0.44	0.33	No info	90	0.40
LS02	62	1.79				0.70	0.30					1.00	0.13	0.05	All yellow	50	0.67
LS02	63	3.48				0.20		0.50		0.30		1.00	0.68	0.55	All yellow	50	0.67
LS02	64	4.65	0.40			0.30		0.30				1.00	0.38	0.29	All yellow	50	0.67
LS02	65	7.41	0.75		0.15			0.10				1.00	0.32	0.28	All red	20	0.87
LS02	66	2.49	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS02	67	5.97	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS02	68	3.17				0.30				0.70		1.00	0.47	0.35	No info	90	0.40
LS02	69	0.76				1.00						1.00	0.05	0.00	No info	90	0.40
LS02	70	10.09				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
LS02	71	2.61				0.20					0.80	1.00	0.53	0.08	No info	90	0.40
LS02	72	2.37	0.20			0.40		0.40				1.00	0.44	0.35	All yellow	50	0.67
LS02	73	0.90				0.90		0.50				1.00	0.50	0.40	No info	90	0.40
LS02	74	0.58				0.40		0.60				1.00	0.59	0.48	All green	90	0.40
LS02	75	1.99	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS02	76	0.68				0.30		0.70				1.00	0.68	0.56	No info	90	0.40
LS02	77	0.48				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
LS02	78	0.85	0.60			0.40		0.40				1.00	0.50	0.37	No info	90	0.40
LS02	79	0.40	0.60			0.40		0.40				1.00	0.50	0.40	All yellow	50	0.67
LS02	80	1.0															

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
LS03	3	1.00	1.00									1.00	0.20	0.08	All green	90	0.40
LS03	4	0.70				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
LS03	5	4.26	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	6	1.06	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	7	1.42	0.50					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	8	0.71	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
LS03	9	6.81				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
LS03	10	2.28				0.05		0.90		0.95		1.00	0.62	0.48	No info	90	0.40
LS03	11	1.98						0.10				1.00	0.14	0.08	No info	90	0.40
LS03	12	0.42						0.25				1.00	0.53	0.60	All green	90	0.40
LS03	13	1.05	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	14	2.11	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	15	0.73	0.50					0.50				1.00	0.58	0.44	No info	90	0.40
LS03	16	0.65	1.00									1.00	0.20	0.08	No info	90	0.40
LS03	17	2.80	0.95					0.05				1.00	0.24	0.12	All green	90	0.40
LS03	18	4.61	0.05			0.85		0.10				1.00	0.15	0.08	All green	90	0.40
LS03	19	0.56	1.00									1.00	0.20	0.08	No info	90	0.40
LS03	20	6.08	0.15			0.80		0.05				1.00	0.12	0.05	All green	90	0.40
LS03	21	2.54	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	22	1.41	0.90					0.15				1.00	0.28	0.15	All green	90	0.40
LS03	23	0.93	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
LS03	24	0.85	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
LS03	25	0.26										1.00	0.65	0.50	All green	90	0.40
LS03	26	0.75				0.90		0.10		1.00		1.00	0.14	0.08	No info	90	0.40
LS03	27	2.50			1.00							1.00	0.50	0.20	No info	90	0.40
LS03	28	0.30						1.00				1.00	0.95	0.80	No info	90	0.40
LS03	29	1.52	1.00									1.00	0.20	0.08	All green	90	0.40
LS03	30	0.76	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
LS03	31	0.47	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	32	0.95	1.00									1.00	0.20	0.08	All green	90	0.40
LS03	33	0.64	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	34	3.13	1.00									1.00	0.20	0.08	All green	90	0.40
LS03	35	0.56	0.50			0.10		0.40				1.00	0.49	0.39	All yellow	50	0.67
LS03	36	0.95	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
LS03	37	1.62	0.64					0.36				1.00	0.47	0.34	No info	90	0.40
LS03	38	0.34	0.65					0.35				1.00	0.46	0.33	No info	90	0.40
LS03	39	1.82								1.00		1.00	0.65	0.50	All green	90	0.40
LS03	40	1.12				0.50				0.50		1.00	0.35	0.25	All green	90	0.40
LS03	41	4.49	0.70			0.10		0.10		0.10		1.00	0.31	0.19	All green	90	0.40
LS03	42	1.82	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
LS03	43	1.58	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	44	1.18	0.45			0.25		0.15		0.15		1.00	0.34	0.23	All green	90	0.40
LS03	45	2.74						0.10				1.00	0.28	0.18	Half green, half yellow	70	0.40
LS03	46	1.18	0.80			0.10		0.10				1.00	0.26	0.14	Assumed green	90	0.40
LS03	47	1.00	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
LS03	48	1.16	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	49	1.15	0.75					0.10		0.15		1.00	0.34	0.22	All green	90	0.40
LS03	50	1.71	0.20			0.10		0.60				1.00	0.53	0.40	All green	90	0.40
LS03	51	0.81	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	52	1.42	0.05		0.85			0.10				1.00	0.53	0.25	All green	90	0.40
LS03	53	1.64	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
LS03	54	3.86	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
LS03	55	1.08	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS03	56	2.05					1.00					1.00	0.30	0.15	No info	90	0.40
LS03	57	1.39	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS03	58	0.73	0.60					0.40				1.00	0.50	0.37	All green	90	0.40
LS03	59	2.46	0.60			0.20		0.10		0.10		1.00	0.29	0.18	All green	90	0.40
LS03	60	0.38	0.25			0.25		0.50				1.00	0.54	0.42	No info	90	0.40
LS03	61	1.58	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	62	2.09	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS03	63	0.98	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS03	64	0.98	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	65	0.85	0.50			0.35		0.15				1.00	0.26	0.16	No info	90	0.40
LS03	66	1.20	0.45			0.05		0.40		0.10		1.00	0.54	0.41	All green	90	0.40
LS03	67	3.28	0.65			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
LS03	68	0.94	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS03	69	3.49	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS03	70	0.57	0.60			0.40		0.10				1.00	0.50	0.37	All green	90	0.40
LS03	71	0.76	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	72	1.40	0.35			0.55		0.10				1.00	0.19	0.11	All green	90	0.40
LS03	73	0.99	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	74	4.50	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	75	6.80	0.45			0.30		0.10		0.15		1.00	0.30	0.19	All green	90	0.40
LS03	76	1.72	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS03	77	0.95	0.75					0.25				1.00	0.39	0.26	All green	90	0.40
LS03	78	1.99						0.10				1.00	0.28	0.15	No info	90	0.40
LS03	79	1.13	0.30			0.40		0.30				1.00	0.37	0.26	All green	90	0.40
LS03	80	6.89	0.60		0.15	0.05		0.10		0.10		1.00	0.36	0.21	All green	90	0.40
LS03	81	2.28	0.55			0.10		0.15		0.20		1.00	0.39	0.26	All green	90	0.40
LS03	82	1.37	0.15			0.50		0.25		0.10		1.00	0.36	0.26	All green	90	0.40
LS03	83	1.38	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	84	1.89	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS03	85	1.39	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	86	0.93	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS03	87	1.54	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS03	88	1.73	0.60			0.10		0.10				1.00	0.26	0.17	All blue	70	0.53
LS03	89	0.47	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
LS03	90	2.93	0.30			0.60		0.10				1.00	0.19	0.11	Half blue, half green	80	0.47
LS03	91	0.24				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
LS03	92	0.37				0.15		0.85				1.00	0.82	0.68	All green	90	0.40
LS04	1	3.87	0.40			0.40		0.20				1.00	0.29	0.19	All green	90	0.40
LS04	2	2.45				0.25		0.75				1.00	0.73	0.60	All yellow	50	0.40
LS04	3	2.20	0.10			0.10		0.20		0.70		1.00	0.65	0.51	All green	90	0.40
LS04	4	1.48	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
LS04	5	1.29	0.30			0.40		0.10		0.20		1.00	0.31	0.20	All green	90	0.40
LS04	6	1.90	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS04	7	1.26	0.90														

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential (land uses)
LS05	15	4.89	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
LS05	16	2.51	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	17	2.46	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS05	18	0.75	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS05	19	2.31	0.50					0.10				1.00	0.28	0.19	Hall green hall red	55	0.63
LS05	20	2.33	0.90					0.10				1.00	0.28	0.24	Assumed red	20	0.87
LS05	21	0.81	0.95					0.05				1.00	0.24	0.12	Assumed green	90	0.40
LS05	22	0.94	0.25			0.25		0.50				1.00	0.54	0.43	All yellow	50	0.67
LS05	23	0.63	0.65					0.35				1.00	0.46	0.38	Hall yellow hall red	35	0.77
LS05	24	1.01	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
LS05	25	0.38	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
LS05	26	1.48	0.50			0.40		0.10				1.00	0.22	0.15	All yellow	50	0.67
LS05	27	1.43	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	28	2.00	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	29	1.93	0.10			0.80		0.10				1.00	0.35	0.09	No info	90	0.40
LS05	30	2.72	0.90					0.10				1.00	0.28	0.24	Assumed red	20	0.87
LS05	31	1.64	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS05	32	0.79	0.70					0.30				1.00	0.43	0.30	No info	90	0.40
LS05	33	5.66						0.20		0.80		1.00	0.71	0.56	No info	90	0.40
LS05	34	0.97				0.10		0.90				1.00	0.86	0.72	No info	90	0.40
LS05	35	1.23				0.30		0.70				1.00	0.68	0.56	No info	90	0.40
LS05	36	9.66				0.30		0.35		0.35		1.00	0.58	0.46	All yellow	50	0.67
LS05	37	0.52				0.20		0.80				1.00	0.77	0.64	No info	90	0.40
LS05	38	0.67				0.10		0.90				1.00	0.86	0.72	No info	90	0.40
LS05	39	4.72			0.20	0.70		0.10				1.00	0.23	0.12	No info	90	0.40
LS05	40	4.88				1.00		0.05				1.00	0.95	0.80	No info	90	0.40
LS05	41	3.99				1.00		0.05				1.00	0.05	0.00	No info	90	0.40
LS05	42	4.67				1.00						1.00	0.05	0.00	No info	90	0.40
LS05	43	0.73						1.00				1.00	0.95	0.80	All green	90	0.40
LS05	44	0.70				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
LS05	45	0.35						1.00				1.00	0.95	0.80	All green	90	0.40
LS05	46	1.35				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
LS05	47	2.61				0.10		0.90				1.00	0.86	0.72	No info	90	0.40
LS05	48	4.34				0.05		0.95				1.00	0.91	0.76	No info	90	0.40
LS05	49	1.40			0.35	0.35		0.30				1.00	0.48	0.31	No info	90	0.40
LS05	50	0.28						1.00				1.00	0.95	0.80	Assumed green	90	0.40
LS05	51	3.28	0.05			0.90		0.05				1.00	0.10	0.04	No info	90	0.40
LS05	52	0.91	0.25			0.10		0.65				1.00	0.67	0.55	All yellow	50	0.67
LS05	53	0.85				0.05		0.95				1.00	0.91	0.76	All yellow	50	0.67
LS05	54	1.33	0.12		0.38	0.20		0.30				1.00	0.51	0.38	All yellow	50	0.67
LS05	55	2.50	0.60			0.30		0.10				1.00	0.23	0.16	All yellow	50	0.67
LS05	56	0.22	0.14			0.16		1.00				1.00	0.70	0.57	All green	90	0.40
LS05	57	2.29				1.00		0.05				1.00	0.95	0.80	All green	90	0.40
LS05	58	2.27	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS05	59	0.45	0.50			0.15		0.35				1.00	0.44	0.32	All green	90	0.40
LS05	60	0.58	0.70			0.15		0.15				1.00	0.29	0.18	All green	90	0.40
LS05	61	0.34	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
LS05	62	2.01	0.15			0.20		0.50		0.25		1.00	0.58	0.46	All green	90	0.40
LS05	63	1.50				0.30		0.20		0.50		1.00	0.53	0.41	All green	90	0.40
LS05	64	1.11				0.60		0.40				1.00	0.41	0.32	No info	90	0.40
LS05	65	3.14				0.65		0.25		0.10		1.00	0.34	0.25	All red	20	0.87
LS05	66	0.89	0.15					0.85				1.00	0.84	0.69	All green	90	0.40
LS05	67	0.52				0.75		0.10		0.15		1.00	0.23	0.16	No info	90	0.40
LS05	68	4.73				1.00		0.05				1.00	0.05	0.00	No info	90	0.40
LS05	69	7.29				0.35		0.10		0.55		1.00	0.47	0.36	No info	90	0.40
LS05	70	1.52						1.00				1.00	0.95	0.80	No info	90	0.40
LS05	71	0.96						1.00				1.00	0.95	0.80	No info	90	0.40
LS05	72	5.93				0.15		0.40		0.45		1.00	0.68	0.55	No info	90	0.40
LS05	73	2.58				0.20		0.10		0.70		1.00	0.66	0.43	No info	90	0.40
LS05	74	11.04				0.30		0.40		0.30		1.00	0.59	0.47	No info	90	0.40
LS05	75	10.38				1.00		0.05				1.00	0.05	0.00	No info	90	0.40
LS05	76	0.45				0.05		0.95				1.00	0.91	0.76	No info	90	0.40
LS05	77	0.48						1.00				1.00	0.95	0.80	No info	90	0.40
LS05	78	3.33				1.00		0.05				1.00	0.95	0.80	No info	90	0.40
LS05	79	7.59				1.00		0.05				1.00	0.95	0.80	No info	90	0.40
LS05	80	1.59				0.55		0.20		0.25		1.00	0.38	0.29	No info	90	0.40
LS05	81	2.29				1.00		0.05				1.00	0.95	0.80	No info	90	0.40
LS05	82	3.75			0.45	0.35		0.20				1.00	0.43	0.25	No info	90	0.40
LS05	83	0.79	0.40			0.45		0.15				1.00	0.25	0.15	No info	90	0.40
LS05	84	1.25				0.40		0.40		0.60		1.00	0.77	0.62	No info	90	0.40
LS05	85	0.94				0.20		0.35		0.45		1.00	0.64	0.51	No info	90	0.40
LS05	86	0.70				0.25		0.75				1.00	0.73	0.60	No info	90	0.40
LS05	87	2.32				0.70		0.10		0.20		1.00	0.26	0.18	No info	90	0.40
LS05	88	0.50				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
LS05	89	1.31	0.25			0.65		0.18				1.00	0.18	0.00	All green	90	0.40
LS05	90	0.96	0.60			0.15		0.25				1.00	0.37	0.25	All green	90	0.40
LS05	91	7.47				1.00		0.15				1.00	0.05	0.00	No info	90	0.40
LS05	92	0.70	0.70			0.15		0.15				1.00	0.29	0.18	All green	90	0.40
LS05	93	7.11				1.00		0.05				1.00	0.05	0.00	All green	90	0.40
LS05	94	1.02				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
LS05	95	2.52				0.30		0.40		0.30		1.00	0.59	0.47	All green	90	0.40
LS05	96	2.09				0.40		0.15		0.45		1.00	0.46	0.35	All green	90	0.40
LS05	97	1.01				0.35		0.45		0.20		1.00	0.58	0.46	All green	90	0.40
LS05	98	2.11				0.90		0.10		0.10		1.00	0.11	0.05	All green	90	0.40
LS05	99	0.54						1.00				1.00	0.95	0.80	All green	90	0.40
LS05	100	0.70	0.35			0.20		0.45				1.00	0.51	0.40	All blue	70	0.53
LS05	101	2.91	0.65			0.25		0.10				1.00	0.24	0.17	All yellow	50	0.67
LS05	102	0.73	0.75			0.15		0.10				1.00	0.25	0.18	All yellow	50	0.67
LS05	103	1.45	0.60			0.30		0.10				1.00	0.23	0.16	All yellow	50	0.67
LS05	104	1.57	0.45			0.30		0.10		0.15		1.00	0.30	0.20	All blue	70	0.53
LS05	105	4.34				0.65		0.10		0.25		1.00	0.29	0.21	No info	90	0.40
LS05	106	2.07	0.30			0.45		0.10		0.15		1.00	0.28	0.19	All blue	70	0.53
LS05	107	1.60				0.35		0.50		0.15		1.00	0.59	0.48	No info	90	0.40
LS05	108	7.79	0.10			0.60		0.30				1.00	0.34	0.25	All blue	70	0.53
LS05	109	4.48			0.70	0.20		0.10				1.00	0.46	0.22	All green	90	0.40
LS05	110	6.22				0.90		0.10		0.10		1.0					

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
LS05	151	0.92	0.65			0.30		0.05				1.00	0.19	0.15	All red	20	0.87
LS05	152	1.87	0.45			0.45		0.10				1.00	0.21	0.16	All red	20	0.87
LS05	153	0.80	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
LS05	154	0.72	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
LS05	155	4.29	0.65			0.15		0.20				1.00	0.33	0.27	All red	20	0.87
LS05	156	3.95	0.85					0.15				1.00	0.31	0.27	All red	20	0.87
LS05	157	0.52	0.80					0.20				1.00	0.35	0.30	All red	20	0.87
LS05	158	6.86	0.55			0.35		0.10				1.00	0.22	0.18	All red	20	0.87
LS05	159	0.45	0.75					0.25				1.00	0.39	0.33	All red	20	0.87
LS05	160	1.92						0.30		0.30		1.00	0.28	0.28	No info	90	0.40
LS05	161	1.19	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
LS05	162	0.95	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	163	3.08	0.85			0.05		0.10				1.00	0.27	0.23	All red	20	0.87
LS05	164	4.87	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
LS05	165	0.73	0.75					0.25				1.00	0.39	0.33	All red	20	0.87
LS05	166	3.28	0.65			0.05		0.10				1.00	0.27	0.23	All red	20	0.87
LS05	167	0.72						0.50		0.50		1.00	0.80	0.65	All red	20	0.87
LS05	168	0.62	0.60					0.40				1.00	0.50	0.37	No info	90	0.40
LS05	169	2.03				1.00						1.00	0.05	0.00	No info	90	0.40
LS05	170	0.75	0.85					0.15				1.00	0.31	0.27	All red	20	0.87
LS05	171	1.07	0.90		0.90			0.10				1.00	0.28	0.15	No info	90	0.40
LS05	172	0.57	0.75					0.25				1.00	0.39	0.26	No info	90	0.40
LS05	173	0.75	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	174	1.82	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	175	1.64	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	176	0.77	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	177	0.36	0.60					0.40				1.00	0.50	0.42	All red	20	0.87
LS05	178	1.04	0.45			0.30		0.25				1.00	0.34	0.28	All red	20	0.87
LS05	179	0.64	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
LS05	180	2.71	0.25			0.50		0.25				1.00	0.31	0.22	Assumed green	90	0.40
LS05	181	0.34			0.90			0.10				1.00	0.55	0.47	All red	20	0.87
LS05	182	0.76	0.75					0.15				1.00	0.25	0.21	All red	20	0.87
LS05	183	3.14			0.40			0.50				1.00	0.32	0.25	All red	20	0.87
LS05	184	2.63				0.40		0.60				1.00	0.59	0.48	No info	90	0.40
LS05	185	0.46				0.20		0.80				1.00	0.77	0.64	All green	90	0.40
LS05	186	0.48	0.55			0.10		0.90				1.00	0.86	0.72	All green	90	0.40
LS05	187	3.40	0.10					0.90				1.00	0.97	0.91	No info	90	0.40
LS06	1	2.06				0.30		0.10				1.00	0.50	0.38	All green	90	0.40
LS06	2	1.08	0.40			0.50		0.10		0.60		1.00	0.20	0.15	All red	20	0.87
LS06	3	2.10	0.10			0.65		0.25				1.00	0.29	0.22	All red	20	0.87
LS06	4	3.37	0.60			0.30		0.10				1.00	0.23	0.18	All red	20	0.87
LS06	5	0.52	0.45			0.45		0.10				1.00	0.21	0.16	All red	20	0.87
LS06	6	0.42	0.75					0.25				1.00	0.39	0.33	All red	20	0.87
LS06	7	2.48	0.65			0.25		0.10				1.00	0.24	0.19	All red	20	0.87
LS06	8	7.71	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
LS06	9	1.17	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	10	3.25	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	11	0.82	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	12	0.67	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	13	1.22	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	14	1.75	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	15	1.50	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	16	1.70	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	17	3.13	0.45			0.45		0.10				1.00	0.21	0.16	All red	20	0.87
LS06	18	3.10	0.15			0.35	0.40	0.10				1.00	0.26	0.17	All red	20	0.87
LS06	19	6.17	0.20			0.70		0.10				1.00	0.17	0.11	All red	20	0.87
LS06	20	2.31	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	21	0.24	0.90			0.10		0.28				1.00	0.28	0.24	All red	20	0.87
LS06	22	0.67	0.65			0.40		0.05				1.00	0.18	0.14	All red	20	0.87
LS06	23	0.69	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
LS06	24	0.93	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
LS06	25	5.43	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
LS06	26	2.73	0.50			0.40		0.10				1.00	0.22	0.17	All red	20	0.87
LS06	27	0.21	0.20			0.80		0.80				1.00	0.80	0.67	All red	20	0.87
LS06	28	1.00			0.80	0.10		0.50				1.00	0.50	0.43	All red	20	0.87
LS06	29	1.13	0.40			0.30		0.10		0.20		1.00	0.32	0.25	All red	20	0.87
LS06	30	2.25		0.35	0.40	0.15		0.10				1.00	0.41	0.34	All red	20	0.87
LS06	31	1.45	0.70		0.50	0.40		0.10				1.00	0.37	0.30	All red	20	0.87
LS06	32	2.55	0.70		0.08	0.12		0.10				1.00	0.28	0.23	All red	20	0.87
LS06	33	1.36	0.40			0.50		0.10				1.00	0.20	0.15	All red	20	0.87
LS06	34	1.18	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	35	2.69	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	36	0.52	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	37	0.76	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	38	0.80	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	39	0.61	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	40	0.41	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	41	2.17	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
LS06	42	2.01	0.30			0.60		0.10				1.00	0.19	0.13	All red	20	0.87
LS06	43	1.04	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
LS06	44	1.20	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	45	0.86				0.70		0.15		0.15		1.00	0.28	0.20	All red	20	0.87
LS06	46	0.47	0.20			0.80		0.10				1.00	0.08	0.03	Assumed red	20	0.87
LS06	47	1.46	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	48	1.04	0.10			0.80		0.10				1.00	0.16	0.10	All red	20	0.87
LS06	49	1.48	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	50	0.71	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
LS06	51	1.48	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	52	2.14	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
LS06	53	9.48	0.20			0.50		0.12		0.18		1.00	0.30	0.22	All red	20	0.87
LS06	54	3.88	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	55	2.31	0.90			0.30		0.10				1.00	0.23	0.18	All red	20	0.87
LS06	56	1.97	0.65			0.25		0.10				1.00	0.24	0.19	All red	20	0.87
LS06	57	4.28	0.90			0.10		0.10				1.00	0.28	0.24	All red	20	0.87
LS06	58	3.20	0.35	</													

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
LS07	17	2.50			0.80	0.20						1.00	0.41	0.16	All green	90	0.40
LS08	1	1.00	0.27			0.63		0.10				1.00	0.18	0.11	Half yellow half green	70	0.53
LS08	2	1.01	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
LS08	3	0.09	0.50			0.50		0.10				1.00	0.58	0.44	No info	90	0.40
LS08	4	3.93	0.15			0.70		0.10		0.05		1.00	0.19	0.12	Assumed green	90	0.40
LS08	5	0.66	0.77			0.10		0.13				1.00	0.28	0.24	Assumed red	20	0.87
LS08	6	0.35				0.50		0.10		0.40		1.00	0.38	0.28	No info	90	0.40
LS08	7	0.64	0.36			0.34		0.30				1.00	0.37	0.27	Assumed green	90	0.40
LS08	8	0.27	0.90			0.10		0.10				1.00	0.28	0.20	All yellow	50	0.67
LS08	9	1.43	0.65			0.15		0.30				1.00	0.42	0.28	Assumed green	90	0.40
LS08	10	0.84	0.90					0.10				1.00	0.28	0.15	All yellow	90	0.40
LS08	11	0.08	0.30					0.70				1.00	0.73	0.58	Assumed green	90	0.40
LS08	12	0.77	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
LS08	13	0.42	0.85					0.15				1.00	0.31	0.19	No info	90	0.40
LS09	1	1.77	0.85					0.05				1.00	0.27	0.15	Assumed green	90	0.40
LS09	2	2.30	0.85			0.05		0.10				1.00	0.27	0.15	All green	90	0.40
LS09	3	0.21	0.60					0.40				1.00	0.50	0.37	All green	90	0.40
LS09	4	0.15	0.75					0.25				1.00	0.39	0.26	All green	90	0.40
LS09	5	1.53	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
LS09	6	0.88	0.73			0.17		0.10				1.00	0.25	0.14	All green	90	0.40
LS09	7	0.42	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS09	8	0.57	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
LS09	9	0.95	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
LS09	10	3.42	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
LS09	11	1.14	0.55			0.35		0.10				1.00	0.22	0.12	No info	90	0.40
LS09	12	4.34	0.65			0.28		0.07				1.00	0.21	0.11	No info	90	0.40
LS09	13	1.13	0.35			0.56		0.09				1.00	0.18	0.10	All green	90	0.40
LS09	14	5.71	0.55			0.30		0.10		0.05		1.00	0.25	0.20	All red	20	0.87
LS09	15	2.32	0.55			0.35		0.10				1.00	0.22	0.18	All red	20	0.87
LS09	16	0.30	0.60			0.33		0.07				1.00	0.20	0.16	All red	20	0.87
LS09	17	2.03	0.62			0.20		0.18				1.00	0.31	0.25	All red	20	0.87
LS09	18	0.98	0.70			0.10		0.10				1.00	0.25	0.20	All red	20	0.87
LS09	19	1.49	0.77			0.10		0.13				1.00	0.28	0.24	All red	20	0.87
LS09	20	1.48	0.63			0.10		0.27				1.00	0.39	0.27	All green	90	0.40
LS09	21	1.07	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
LS09	22	1.73	0.58			0.30		0.12				1.00	0.25	0.14	All green	90	0.40
LS09	23	2.47	0.65			0.25		0.10				1.00	0.24	0.19	All red	20	0.87
LS09	24	0.39	0.47			0.15		0.38				1.00	0.46	0.34	Assumed green	90	0.40
LS09	25	3.09	0.56			0.15		0.24		0.05		1.00	0.38	0.26	All green	90	0.40
LS09	26	0.68	0.65			0.10		0.25				1.00	0.37	0.25	All green	90	0.40
LS09	27	0.90	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
LS09	28	0.53	0.73			0.17		0.10				1.00	0.25	0.14	No info	90	0.40
LS09	29	0.53	0.62			0.15		0.23				1.00	0.35	0.25	No info	90	0.40
LS09	30	0.99	0.70			0.20		0.10				1.00	0.25	0.14	No info	90	0.40
LS09	31	0.88	0.80			0.10		0.10				1.00	0.26	0.19	All yellow	50	0.67
LS09	32	1.21	0.55			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
LS09	33	0.56	0.75			0.15		0.10				1.00	0.25	0.14	No info	90	0.40
LS09	34	0.43	0.65			0.25		0.10				1.00	0.24	0.13	No info	90	0.40
LS09	35	1.07	0.55			0.35		0.10				1.00	0.22	0.15	All yellow	50	0.67
LS09	36	4.14	0.40			0.38		0.10				1.00	0.27	0.17	Assumed green	90	0.40
LS09	37	0.68	0.72			0.18		0.10		0.12		1.00	0.25	0.16	All blue	70	0.53
LS09	38	0.26	0.75			0.15		0.10				1.00	0.25	0.14	No info	90	0.40
LS09	39	0.91	0.60			0.10		0.30				1.00	0.23	0.13	No info	90	0.40
LS09	40	0.46	0.62			0.10		0.28				1.00	0.40	0.27	No info	90	0.40
LS09	41	2.43	0.78			0.10		0.12				1.00	0.28	0.16	All green	90	0.40
LS09	42	0.79	0.50			0.50		0.10				1.00	0.13	0.04	All green	90	0.40
LS09	43	1.71	0.55			0.35		0.10				1.00	0.22	0.15	All yellow	50	0.67
LS09	44	0.25	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS09	45	1.56	0.50			0.50		0.50				1.00	0.97	0.81	No info	90	0.40
LS09	46	0.65	0.46			0.44		0.10				1.00	0.21	0.12	Assumed green	90	0.40
LS09	47	0.45	0.40			0.60		0.10				1.00	0.11	0.03	All green	90	0.40
LS09	48	1.01	0.80			0.20		0.14				1.00	0.17	0.06	Assumed green	90	0.40
LS09	49	0.95	0.76			0.10		0.10				1.00	0.29	0.17	No info	90	0.40
LS09	50	1.31	0.47			0.30		0.23				1.00	0.53	0.22	All green	90	0.40
LS09	51	1.16	0.40			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS09	52	0.21	0.30			0.70		0.10				1.00	0.10	0.02	No info	90	0.40
LS09	53	0.21	0.20			0.40		0.40				1.00	0.44	0.34	No info	90	0.40
LS09	54	0.77	0.20			0.57		0.23				1.00	0.29	0.21	Assumed yellow	50	0.67
LS09	55	0.39	0.80			0.20		0.20				1.00	0.17	0.11	All yellow	50	0.67
LS09	56	1.81	0.40			0.60		0.10				1.00	0.11	0.03	No info	90	0.40
LS09	57	5.59	0.70			0.20		0.10				1.00	0.25	0.14	No info	90	0.40
LS09	58	1.27	0.65			0.25		0.10				1.00	0.24	0.13	No info	90	0.40
LS09	59	1.85	0.78			0.12		0.10				1.00	0.26	0.14	No info	90	0.40
LS09	60	0.53	0.60			0.25		0.15				1.00	0.28	0.17	No info	90	0.40
LS09	61	3.40	0.50			0.42		0.08				1.00	0.20	0.20	All red	20	0.87
LS09	62	1.19	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
LS10	1	3.25	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
LS10	2	0.79	0.20			0.35		0.10		0.55		1.00	0.47	0.36	All green	90	0.40
LS10	3	1.03				0.25		0.10		0.65		1.00	0.53	0.41	All green	90	0.40
LS10	4	0.24	0.40			0.10		0.90				1.00	0.86	0.72	All green	90	0.40
LS10	5	0.16	0.63			0.10		1.00				1.00	0.95	0.80	No info	90	0.40
LS10	6	0.14						1.00				1.00	0.95	0.80	No info	90	0.40
LS10	7	0.56				0.85		0.15				1.00	0.19	0.12	All green	90	0.40
LS10	8	0.07	0.50			0.25		0.25				1.00	0.35	0.24	All green	90	0.40
LS10	9	0.30	0.25			0.30		0.45				1.00	0.49	0.38	All green	90	0.40
LS10	10	1.19	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS10	11	0.17	0.40			0.10		0.50				1.00	0.56	0.43	All green	90	0.40
LS10	12	0.63				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
LS10	13	4.80	0.55			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
LS10	14	0.47	0.40			0.60		0.10				1.00	0.11	0.03	All green	90	0.40
LS10	15	0.70	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
LS11	1	5.05	0.77			0.03		0.80				1.00	0.10	0.05	All yellow	50	0.67
LS11	2	1.38	0.45			0.48		0.07				1.00	0.18	0.12	All yellow	50	0.67
LS11	3	1.65	0.73			0.17		0.10				1.00	0.25	0.18	Assumed yellow	50	0.67
LS11																	

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
LS14	2	2.20	0.44			0.20		0.15		0.21		1.00	0.38	0.26	All green	90	0.40
LS14	3	0.52	0.40			0.10		0.40		0.10		1.00	0.53	0.40	All green	90	0.40
LS14	4	2.40	0.40			0.20		0.30		0.10		1.00	0.44	0.32	All green	90	0.40
LS14	5	0.26				0.15		0.85				1.00	0.82	0.68	All green	90	0.40
LS14	6	0.37				0.10				0.90		1.00	0.59	0.45	All green	90	0.40
LS14	7	0.65				0.30		0.70				1.00	0.68	0.56	All green	90	0.40
LS14	8	0.36				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
LS14	9	0.38				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
LS14	10	0.48				0.30				0.70		1.00	0.47	0.35	All green	90	0.40
LS14	11	0.54	0.20			0.15		0.10				1.00	0.17	0.10	All green	90	0.40
LS14	12	0.22	0.25			0.60		0.15				1.00	0.22	0.14	All green	90	0.40
LS14	13	0.55	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
LS14	14	0.55	0.85			0.05		0.10				1.00	0.27	0.15	All green	90	0.40
LS14	15	0.65	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS14	16	1.17	0.90			0.70		0.10				1.00	0.28	0.15	All green	90	0.40
LS14	17	2.98	0.35			0.40		0.25				1.00	0.33	0.23	All green	90	0.40
LS15	1	0.79	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
LS15	2	0.84	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS15	3	0.91	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS15	4	3.95	0.80			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
LS15	5	1.28	0.65			0.30		0.05				1.00	0.19	0.09	All green	90	0.40
LS15	6	1.03	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS15	7	0.75	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS15	8	1.38	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS15	9	0.61	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS15	10	0.70	0.95					0.05				1.00	0.24	0.20	All red	90	0.40
LS15	11	0.62	0.90					0.10				1.00	0.28	0.19	Half red, half green	55	0.63
LS15	12	0.65						0.10				1.00	0.68	0.53	All green	90	0.40
LS16	1	2.20	0.10			0.10		0.80			0.90	1.00	0.79	0.65	All green	90	0.40
LS16	2	3.04									1.00	1.00	0.65	0.10	All green	90	0.40
LS16	3	0.18						1.00				1.00	0.95	0.80	All green	90	0.40
LS16	4	0.19						1.00				1.00	0.95	0.80	All green	90	0.40
LS16	5	0.14						1.00				1.00	0.95	0.80	All green	90	0.40
LS16	6	2.03				0.90		0.10				1.00	0.14	0.08	All green	90	0.40
LS16	7	0.90									1.00	1.00	0.65	0.50	All green	90	0.40
LS16	8	1.54									1.00	1.00	0.65	0.50	All green	90	0.40
LS16	9	1.35	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
LS16	10	0.71	0.55			0.35		0.10				1.00	0.22	0.15	All yellow	50	0.67
LS16	11	0.14	0.40					0.60				1.00	0.65	0.51	All green	90	0.40
LS16	12	0.55	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS16	13	0.61	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS16	14	0.25	0.80					0.20				1.00	0.35	0.22	All green	90	0.40
LS17	1	2.43	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS17	2	2.36	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
LS17	3	0.47	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS17	4	0.82	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
LS17	5	1.05	0.20			0.70		0.10				1.00	0.17	0.10	All green	90	0.40
LS17	6	0.29	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
LS17	7	0.28	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW01	1	0.50	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
NW01	2	2.22	0.95					0.05				1.00	0.24	0.12	Assumed green	90	0.40
NW01	3	1.44	0.70			0.20		0.10				1.00	0.25	0.17	Assumed yellow	50	0.67
NW01	4	0.76				0.60		0.40				1.00	0.41	0.32	All yellow	50	0.67
NW01	5	3.58	0.30		0.50	0.10		0.10				1.00	0.41	0.20	All green	90	0.40
NW01	6	0.81				0.70		0.30				1.00	0.32	0.24	All green	90	0.40
NW01	7	2.23				0.20		0.10		0.70		1.00	0.56	0.43	All green	90	0.40
NW01	8	1.14				0.30		0.20		0.50		1.00	0.53	0.41	All green	90	0.40
NW01	9	1.34				0.90		0.10				1.00	0.14	0.08	All green	90	0.40
NW01	10	1.14						1.00				1.00	0.95	0.80	All green	90	0.40
NW01	11	1.08						1.00				1.00	0.95	0.80	All green	90	0.40
NW01	12	1.39			1.00							1.00	0.50	0.20	No info	90	0.40
NW01	13	0.97				0.50		0.20			0.30	1.00	0.41	0.31	No info	90	0.40
NW01	14	0.98				0.50		0.20			0.30	1.00	0.41	0.31	No info	90	0.40
NW01	15	2.28						1.00				1.00	0.95	0.80	No info	90	0.40
NW01	16	0.81						0.30				1.00	0.88	0.66	All green	90	0.40
NW01	17	5.97	0.65			0.20	0.05	0.10				1.00	0.25	0.20	Assumed red	20	0.87
NW01	18	0.96	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW01	19	1.82	0.95					0.05				1.00	0.24	0.12	All green	90	0.40
NW01	20	1.59	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW01	21	3.95	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW01	22	0.93	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
NW01	23	0.43	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
NW01	24	1.38	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
NW01	25	1.30	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
NW01	26	1.62	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
NW01	27	0.52	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW01	28	0.81	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW01	29	1.01	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
NW02	1	8.40				0.25					0.75	1.00	0.50	0.08	No info	90	0.40
NW02	2	1.92		0.90				0.10				1.00	0.37	0.31	All red	20	0.87
NW02	3	6.81	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
NW02	4	3.47	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
NW02	5	1.60	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
NW02	6	0.88	0.85			0.05		0.10				1.00	0.27	0.23	All red	20	0.87
NW02	7	0.61				0.65		0.25				1.00	0.32	0.24	All red	20	0.87
NW02	8	0.97	0.30		0.10			0.60				1.00	0.19	0.13	All red	20	0.87
NW02	9	0.99	0.75					0.15				1.00	0.25	0.21	All red	20	0.87
NW02	10	0.71	0.60					0.30				1.00	0.23	0.18	All red	20	0.87
NW02	11	1.15	0.75					0.15				1.00	0.25	0.21	All red	20	0.87
NW02	12	0.79	0.75					0.15				1.00	0.25	0.21	All red	20	0.87
NW02	13	0.07						1.00				1.00	0.95	0.80	No info	90	0.40
NW02	14	0.50						0.90			0.20	1.00	0.89	0.68	All red	20	0.87
NW02	15	1.68				0.20		0.65			0.15	1.00	0.73	0.54	No info	90	0.40
NW02	16	0.40		0.90				0.10				1.00	0.37	0.31	All red	20	0.87
NW02	17	0.25		0.70				0.05				1.00	0.45	0.38	All red	20	0.87
NW02	18	1.14	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
NW02	19	1.26				0.60		0.10				1.00	0.59	0.50	All red		

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
NW04	19	3.16				1.00						1.00	0.05	0.00	No info	90	0.40
NW04	20	8.71				0.70			0.30			1.00	0.32	0.03	No info	90	0.40
NW04	21	3.98			0.80	0.10		0.10				1.00	0.50	0.24	No info	90	0.40
NW04	22	0.41				0.20		0.80				1.00	0.77	0.64	No info	90	0.40
NW04	23	0.28						1.00				1.00	0.95	0.80	All red	20	0.87
NW04	24	1.37				0.80		0.20				1.00	0.23	0.16	No info	90	0.40
NW04	25	6.16						1.00				1.00	0.95	0.80	No info	90	0.40
NW04	26	0.69				0.10		0.90				1.00	0.86	0.72	All yellow	50	0.67
NW04	27	4.16				0.10		0.90				1.00	0.86	0.72	No info	90	0.40
NW04	28	0.64						0.90				1.00	0.86	0.72	All yellow	50	0.67
NW04	29	4.11	0.60			0.25		0.15				1.00	0.28	0.22	All red	20	0.87
NW04	30	2.21			0.80	0.20			0.40			1.00	0.41	0.16	No info	90	0.40
NW04	31	6.40				0.60			0.20			1.00	0.41	0.04	No info	90	0.40
NW04	32	2.13				0.80						1.00	0.23	0.02	No info	90	0.40
NW04	33	6.40			0.40	0.45		0.15				1.00	0.37	0.20	All green	90	0.40
NW04	34	2.60				0.50			0.50			1.00	0.50	0.05	All green	90	0.40
US01	1	3.77	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	2	1.30	0.95					0.05				1.00	0.24	0.12	All green	90	0.40
US01	3	0.86	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	4	0.65	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	5	0.45	0.90					0.40				1.00	0.50	0.37	All green	90	0.40
US01	6	1.44	0.93					0.08				1.00	0.26	0.13	All green	90	0.40
US01	7	4.49	0.73			0.20		0.07				1.00	0.22	0.11	All green	90	0.40
US01	8	1.54	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
US01	9	0.75	0.93					0.07				1.00	0.25	0.13	All green	90	0.40
US01	10	0.86	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	11	1.93	0.93					0.07				1.00	0.25	0.13	All green	90	0.40
US01	12	3.25	0.80				0.10					1.00	0.29	0.16	All green	90	0.40
US01	13	0.22	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US01	14	3.67	0.78			0.16		0.06				1.00	0.22	0.11	All green	90	0.40
US01	15	4.68	0.58			0.13		0.10		0.19		1.00	0.34	0.22	All green	90	0.40
US01	16	5.05	0.80					0.10		0.10		1.00	0.32	0.19	All green	90	0.40
US01	17	1.95	0.17			0.30		0.08		0.45		1.00	0.42	0.30	All green	90	0.40
US01	18	0.87	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	19	2.70	0.45					0.10		0.45		1.00	0.48	0.34	All green	90	0.40
US01	20	2.40	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	21	0.67	0.67					0.33				1.00	0.45	0.32	All green	90	0.40
US01	22	4.63				0.32		0.68				1.00	0.67	0.55	All green	90	0.40
US01	23	3.29						1.00				1.00	0.95	0.80	All green	90	0.40
US01	24	0.64	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US01	25	1.64	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US01	26	0.92	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US01	27	1.54	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	28	1.72	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	29	1.16	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	30	0.45	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	31	1.08	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	32	0.85	0.90					0.08				1.00	0.28	0.14	All green	90	0.40
US01	33	1.06	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US01	34	3.01	0.55		0.40			0.05				1.00	0.36	0.16	All green	90	0.40
US02	1	2.33	0.30					0.30		0.40		1.00	0.61	0.46	All green	90	0.40
US02	2	5.79	0.80					0.10		0.10		1.00	0.32	0.19	Assumed green	90	0.40
US02	3	0.64						0.50		0.80		1.00	0.80	0.65	All green	90	0.40
US02	4	1.71				0.15		0.75		0.10		1.00	0.79	0.65	All green	90	0.40
US02	5	1.50	0.50					1.00		0.50		1.00	0.43	0.32	All yellow	50	0.67
US02	6	0.20						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	7	0.14						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	8	0.28						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	9	0.36						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	10	0.28						1.00				1.00	0.95	0.80	No info	90	0.40
US02	11	1.09				0.20		0.80				1.00	0.77	0.64	Assumed yellow	50	0.67
US02	12	0.51						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	13	1.42						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	14	1.11						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	15	1.02						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	16	0.44						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	17	1.62						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	18	0.66						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	19	0.60						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	20	0.81						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	21	0.50						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	22	1.11	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US02	23	0.97						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	24	0.27						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	25	0.70				0.10		0.90				1.00	0.86	0.72	Assumed yellow	50	0.67
US02	26	0.13				0.10		0.90				1.00	0.86	0.72	Assumed yellow	50	0.67
US02	27	0.97				0.10		0.90				1.00	0.86	0.72	All yellow	50	0.67
US02	28	0.72				0.15		0.85				1.00	0.82	0.68	All yellow	50	0.67
US02	29	0.35						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	30	0.87						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	31	0.44						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	32	0.08						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	33	0.66				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
US02	34	0.08						1.00				1.00	0.95	0.80	All yellow	50	0.67
US02	35	0.22						0.50		0.50		1.00	0.80	0.65	All green	90	0.40
US02	36	0.16						1.00				1.00	0.95	0.80	Assumed yellow	50	0.67
US02	37	0.98	0.20			0.35		0.10		0.35		1.00	0.38	0.27	All green	90	0.40
US03	1	4.23	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	2	0.47	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	3	1.47	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	4	1.28	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	5	0.85	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	6	0.86	0.80					0.20				1.00	0.35	0.22	All green	90	0.40
US03	7	2.59	0.70							0.30		1.00	0.34	0.21	All green	90	0.40
US03	8	1.97	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	9	7.82	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	10	0.78	0.60			0.40		0.10				1.00	0.50	0.37	All green	90	0.40
US03	11	1.46	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
US																	

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
US03	50	1.85	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
US03	51	4.48	0.12		0.17		0.61	0.10				1.00	0.39	0.24	All yellow	50	0.67
US03	52	0.85	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US03	53	1.25	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US03	54	7.17	0.10			0.40	0.40	0.10				1.00	0.26	0.15	All yellow	50	0.67
US03	55	4.73	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	56	0.75	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	57	1.29	0.85					0.15				1.00	0.31	0.23	Assumed yellow	50	0.67
US03	58	6.95	0.81					1.00		0.19		1.00	0.29	0.16	All green	90	0.40
US03	59	0.95						0.10				1.00	0.25	0.90	All green	90	0.40
US03	60	1.74	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	61	2.08	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	62	2.95	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US03	63	0.55	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US03	64	0.36	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US03	65	0.82	0.85					0.15				1.00	0.31	0.19	Assumed green	90	0.40
US03	66	0.86	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	67	2.56	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	68	0.42	0.50					0.50				1.00	0.58	0.47	Assumed yellow	50	0.67
US03	69	2.08	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US03	70	0.91	0.43					0.10				1.00	0.20	0.14	All yellow	50	0.67
US03	71	1.37	0.25			0.47		0.09		0.66		1.00	0.56	0.44	All yellow	50	0.67
US03	72	1.11	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	73	0.80	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	74	0.43	0.50					0.50				1.00	0.58	0.47	All yellow	50	0.67
US03	75	0.93	0.30					0.30				1.00	0.43	0.33	All yellow	50	0.67
US03	76	3.81	0.47			0.43		0.10				1.00	0.21	0.14	All yellow	50	0.67
US03	77	1.07	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	78	1.42	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	79	1.40	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	80	3.01	0.85					0.15				1.00	0.31	0.23	All yellow	50	0.67
US03	81	1.85	0.48				0.42	0.10				1.00	0.21	0.16	All red	20	0.87
US03	82	1.98	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	83	0.57	0.20					0.80				1.00	0.80	0.67	Assumed yellow	50	0.67
US03	84	1.00	0.10					0.90				1.00	0.88	0.73	All yellow	50	0.67
US03	85	0.63		1.00				0.30				1.00	0.30	0.12	No info	90	0.40
US03	86	1.77		1.00				0.30				1.00	0.30	0.28	All red	20	0.87
US03	87	1.33	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
US03	88	3.43	0.48			0.52		0.10				1.00	0.12	0.04	Assumed green	90	0.40
US03	89	1.71	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US03	90	1.56	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US03	91	2.19	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	92	0.84	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	93	1.98	0.80			0.10		0.10				1.00	0.26	0.19	All yellow	50	0.67
US03	94	1.12	0.90					0.10				1.00	0.28	0.20	Assumed yellow	50	0.67
US03	95	0.28						0.15		1.00		1.00	0.65	0.50	All yellow	50	0.67
US03	96	0.74	0.85					0.15				1.00	0.31	0.19	No info	90	0.40
US03	97	4.74	0.70					0.60				1.00	0.28	0.24	Assumed red	20	0.87
US03	98	1.01	0.40					0.60				1.00	0.65	0.53	Assumed yellow	50	0.67
US03	99	0.56	0.85					0.15				1.00	0.31	0.27	Assumed red	20	0.87
US03	100	4.08	0.85					0.15				1.00	0.31	0.23	Assumed yellow	50	0.67
US03	101	3.27	0.65					0.35				1.00	0.46	0.37	All yellow	50	0.67
US03	102	1.04	0.60					0.40				1.00	0.50	0.40	All yellow	50	0.67
US03	103	1.35	0.50			0.35		0.15				1.00	0.26	0.19	All yellow	50	0.67
US03	104	1.63	0.50			0.40		0.10				1.00	0.22	0.15	All yellow	50	0.67
US03	105	2.52	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US03	106	1.22	0.50					0.50				1.00	0.58	0.47	Assumed yellow	50	0.67
US03	107	1.30	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
US03	108	1.47			1.00			0.10				1.00	0.30	0.23	All yellow	50	0.67
US03	109	0.88						1.00				1.00	0.95	0.80	All yellow	50	0.67
US03	110	1.10			0.50			0.50				1.00	0.73	0.57	All yellow	50	0.67
US04	1	1.72	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US04	2	4.32	0.85			0.05		0.10				1.00	0.27	0.23	All red	20	0.87
US04	3	0.66	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US04	4	1.77	0.80					0.10		0.10		1.00	0.32	0.27	Assumed red	20	0.87
US04	5	0.51				0.10		0.40		0.50		1.00	0.71	0.57	All yellow	50	0.67
US04	6	2.12	0.90					0.10				1.00	0.28	0.24	Assumed red	20	0.87
US04	7	2.92	0.60			0.10		0.10		0.20		1.00	0.35	0.26	All yellow	50	0.67
US04	8	2.05	0.90					0.10		0.10		1.00	0.25	0.21	All red	20	0.87
US04	9	0.64	0.90					0.10				1.00	0.25	0.21	All red	20	0.87
US04	10	3.05	0.60			0.30		0.10				1.00	0.20	0.13	All yellow	50	0.67
US04	11	0.89	0.90					0.10		0.10		1.00	0.25	0.21	All red	20	0.87
US04	12	2.08	0.85					0.15		0.15		1.00	0.27	0.22	All red	20	0.87
US04	13	4.18	0.85					0.10		0.30		1.00	0.27	0.14	All green	90	0.40
US04	14	4.74	0.20		0.10	0.30		0.10		0.40		1.00	0.40	0.28	Assumed yellow	50	0.67
US04	15	0.38	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US04	16	2.24	0.85					0.15				1.00	0.31	0.27	Assumed red	20	0.87
US04	17	2.06	0.70					0.10		0.20		1.00	0.37	0.29	Half red, half yellow	35	0.77
US04	18	0.26	0.50					0.50				1.00	0.58	0.49	All red	20	0.87
US04	19	2.94	0.15			0.05		0.10		0.80		1.00	0.55	0.41	All green	90	0.40
US04	20	0.97	0.40					0.40				1.00	0.50	0.37	No info	90	0.40
US04	21	0.78	0.70					0.30				1.00	0.43	0.31	Half green, half yellow	70	0.53
US04	22	1.55	0.90					0.10				1.00	0.28	0.24	Assumed red	20	0.87
US04	23	0.99				0.90		0.10				1.00	0.14	0.08	Assumed green	90	0.40
US04	24	2.24	0.90					0.10				1.00	0.28	0.20	All yellow	50	0.67
US04	25	1.40	0.85			0.05		0.10				1.00	0.27	0.15	All green	90	0.40
US04	26	1.47	0.50					0.50				1.00	0.58	0.47	All yellow	50	0.67
US04	27	0.66	0.20			0.80		0.10				1.00	0.08	0.03	All yellow	50	0.67
US04	28	1.47	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US04	29	2.73	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US04	30	0.90	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US04	31	2.02	0.90			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
US04	32	3.66	0.50					0.10				1.00	0.28	0.24	Assumed red	20	0.87
US04	33	2.28	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
US04	34	0.39	0.10			0.80		0.10				1.00	0.16	0.10	All red	20	0.87
US04	35	3.77	0.10					0.10		0.80		1.00	0.64	0.50	Assumed red	20	

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
US06	18	0.93	0.40			0.50		0.10				1.00	0.20	0.11	All green	90	0.40
US06	19	0.15	0.45			0.40		0.15				1.00	0.25	0.16	All green	90	0.40
US06	20	0.46				0.50	0.50					1.00	0.18	0.08	All green	90	0.40
US06	21	0.05				0.20		0.80				1.00	0.77	0.64	All green	90	0.40
US06	22	0.07				0.20		0.80				1.00	0.77	0.64	All green	90	0.40
US06	23	2.90	0.40			0.50		0.10				1.00	0.20	0.11	Assumed Green	90	0.40
US06	24	0.04				0.20		0.80				1.00	0.77	0.64	All green	90	0.40
US06	25	0.52	0.20			0.75		0.05				1.00	0.13	0.06	No info	90	0.40
US06	26	1.00	0.25			0.70		0.05				1.00	0.13	0.06	No info	90	0.40
US06	27	0.92	0.30			0.65		0.05				1.00	0.28	0.06	All green	90	0.40
US06	28	0.91	0.25			0.60		0.15				1.00	0.22	0.14	All green	90	0.40
US06	29	1.08	0.45			0.40		0.15				1.00	0.25	0.16	All green	90	0.40
US06	30	0.66	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
US06	31	0.49	0.25			0.65		0.10				1.00	0.18	0.11	All blue	70	0.53
US06	32	4.23	0.25			0.70		0.05				1.00	0.13	0.06	All green	90	0.40
US06	33	1.45	0.50			0.45		0.05				1.00	0.17	0.08	Assumed green	90	0.40
US06	34	0.17	0.35			0.60		0.05				1.00	0.15	0.08	All blue	70	0.53
US06	35	0.45	0.20			0.75		0.05				1.00	0.13	0.06	All green	90	0.40
US06	36	0.77	0.25			0.68		0.07				1.00	0.15	0.08	All green	90	0.40
US06	37	0.45	0.55			0.30		0.15				1.00	0.27	0.16	All green	90	0.40
US06	38	2.07				0.40		0.05				1.00	0.18	0.08	No info	90	0.40
US06	39	0.78	0.10			0.55		0.35				1.00	0.38	0.29	Half blue Half green	80	0.47
US06	40	0.08	0.95					0.05				1.00	0.24	0.14	No info	70	0.53
US06	41	0.39	0.60			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
US06	42	1.36	0.60			0.15		0.25				1.00	0.37	0.25	All green	90	0.40
US06	43	0.93				0.25		0.10				1.00	0.24	0.13	All green	90	0.40
US06	44	0.83	0.40			0.35		0.25				1.00	0.34	0.23	All green	90	0.40
US06	45	1.23	0.60			0.25		0.15				1.00	0.28	0.17	All green	90	0.40
US06	46	0.41	0.55			0.20		0.25				1.00	0.36	0.24	No info	90	0.40
US06	47	0.64	0.60			0.35		0.05				1.00	0.19	0.09	All green	90	0.40
US06	48	0.42	0.75			0.15		0.10				1.00	0.25	0.14	No info	90	0.40
US06	49	0.22	0.90			0.30		0.10				1.00	0.23	0.13	All green	90	0.40
US06	50	0.13	0.30					0.70				1.00	0.73	0.58	All green	90	0.40
US06	51	0.35	0.70			0.15		0.15				1.00	0.29	0.18	Assumed green	90	0.40
US06	52	0.67	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
US06	53	0.61	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
US07	1	0.79	0.90			0.10		0.10				1.00	0.28	0.15	All green	90	0.40
US07	2	0.83	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
US07	3	0.39	0.60			0.40		0.40				1.00	0.50	0.37	All green	90	0.40
US07	4	0.27	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US07	5	1.24	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US07	6	0.16	0.90					0.40				1.00	0.50	0.37	All green	90	0.40
US07	7	0.54	0.65			0.25		0.10				1.00	0.24	0.13	All green	90	0.40
US07	8	0.34	0.50			0.50		0.10				1.00	0.13	0.04	No info	90	0.40
US07	9	0.19	0.15			0.80		0.05				1.00	0.12	0.05	No info	90	0.40
US07	10	0.46	0.85			0.15		0.15				1.00	0.31	0.19	All green	90	0.40
US07	11	0.68	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
US07	12	1.19	0.90			0.10		0.10				1.00	0.28	0.15	All green	90	0.40
US07	13	0.25	0.90			0.10		0.10				1.00	0.28	0.15	All green	90	0.40
US07	14	0.53	0.75			0.25		0.25				1.00	0.39	0.26	All green	90	0.40
US07	15	0.85	0.55			0.35		0.10				1.00	0.22	0.12	All green	90	0.40
US07	16	0.30	0.95					0.05				1.00	0.24	0.12	No info	90	0.40
US07	17	0.23	0.95					0.05				1.00	0.24	0.12	All green	90	0.40
US07	18	0.68	0.75			0.25		0.25				1.00	0.39	0.26	All green	90	0.40
US07	19	0.69	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US07	20	1.37	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
US07	21	0.21	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US07	22	0.37	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US07	23	0.61				0.20		0.10		0.70		1.00	0.56	0.43	All green	90	0.40
US07	24	0.77				0.60		0.20		0.20		1.00	0.35	0.26	All green	90	0.40
US07	25	0.53				0.60		0.05		0.35		1.00	0.31	0.22	All green	90	0.40
US07	26	0.19				0.30		0.70				1.00	0.68	0.56	All green	90	0.40
US07	27	0.10				0.60		0.40				1.00	0.41	0.32	All green	90	0.40
US07	28	0.55	0.10			0.50		0.20		0.20		1.00	0.37	0.27	All green	90	0.40
US07	29	0.21	0.95					0.05				1.00	0.24	0.12	No info	90	0.40
US07	30	0.11						1.00				1.00	0.95	0.80	No info	90	0.40
US07	31	0.86						0.75		0.25		1.00	0.88	0.79	No info	90	0.40
US07	32	0.78						0.30		0.70		1.00	0.74	0.59	No info	90	0.40
US08	1	0.25	0.40			0.05		0.25		0.30		1.00	0.52	0.39	All blue	70	0.53
US08	2	0.34	0.25			0.34		0.35				1.00	0.69	0.53	All blue	70	0.53
US08	3	1.16				0.30		0.40		0.30		1.00	0.59	0.47	All blue	70	0.53
US08	4	0.45	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	5	1.16	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	6	1.05	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	7	0.78	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	8	0.61	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	9	0.67	0.90					0.10				1.00	0.28	0.15	No info	90	0.40
US08	10	0.26	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
US08	11	0.24	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
US08	12	0.53	0.90					0.10				1.00	0.28	0.18	All blue	70	0.53
US08	13	1.81	0.90			0.40		0.05				1.00	0.18	0.10	All blue	70	0.53
US08	14	4.04	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	15	0.64	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	16	0.16	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	17	0.30	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	18	0.53	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	19	0.74	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	20	1.07	0.50			0.45		0.05				1.00	0.17	0.09	Half green half blue	80	0.47
US08	21	1.03	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
US08	22	0.34	0.20			0.65		0.15				1.00	0.22	0.14	All green	90	0.40
US08	23	1.93	0.60			0.25		0.15				1.00	0.28	0.17	All green	90	0.40
US08	24	0.23	0.90			0.50		0.50				1.00	0.13	0.04	No info	90	0.40
US08	25	0.15	0.50			0.50		0.50				1.00	0.13	0.04	All green	90	0.40
US08	26	0.41	0.80			0.15		0.05				1.00	0.22	0.10	All green	90	0.40
US08	27	0.41	0.37			0.60		0.03				1.00	0.13	0.05	All green	90	0.40
US08	28	0.29				1.00											

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
US09	2	0.97						1.00				1.00	0.95	0.80	All green	90	0.40
US09	3	0.80				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
US09	4	0.64				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
US09	5	0.50				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
US09	6	0.71				0.10		0.90				1.00	0.86	0.72	All green	90	0.40
US09	7	0.13						1.00				1.00	0.95	0.80	All green	90	0.40
US09	8	0.89				0.10		0.40			0.50	1.00	0.71	0.37	All green	90	0.40
US09	9	1.41						0.30			0.70	1.00	0.74	0.31	All green	90	0.40
US09	10	0.43						1.00				1.00	0.95	0.80	All green	90	0.40
US09	11	1.55				0.20		0.99				1.00	0.77	0.64	All green	90	0.40
US09	12	5.42				0.50						1.00	0.35	0.25	No info	90	0.40
US09	13	1.07	0.50		0.20	0.10		0.20				1.00	0.40	0.24	All green	90	0.40
US09	14	2.17				0.50						1.00	0.35	0.25	No info	90	0.40
US09	15	0.26				1.00				0.50		1.00	0.65	0.00	No info	90	0.40
US09	16	0.74				0.50		0.50				1.00	0.50	0.40	No info	90	0.40
US09	17	0.12						1.00				1.00	0.95	0.80	No info	90	0.40
US09	18	0.84			0.05	0.45		0.50				1.00	0.52	0.41	No info	90	0.40
US09	19	1.16				0.95		0.05				1.00	0.10	0.04	All green	90	0.40
US09	20	0.41				0.50		0.50				1.00	0.50	0.40	All green	90	0.40
US09	21	7.43				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
US09	22	0.26				1.00						1.00	0.05	0.00	No info	90	0.40
US09	23	1.19				0.90		0.10				1.00	0.14	0.08	No info	90	0.40
US09	24	1.20				1.00						1.00	0.05	0.00	No info	90	0.40
US10	1	26.43				1.00						1.00	0.05	0.00	No info	90	0.40
US10	2	3.13				0.25		0.25			0.50	1.00	0.58	0.25	No info	90	0.40
US10	3	20.93				1.00						1.00	0.95	0.00	No info	90	0.40
US10	4	13.53								1.00		1.00	0.65	0.50	No info	90	0.40
US10	5	129.77				1.00						1.00	0.05	0.00	No info	90	0.40
US10	6	7.52				1.00						1.00	0.05	0.00	No info	90	0.40
US10	7	0.46						1.00				1.00	0.95	0.80	No info	90	0.40
US10	8	2.15				0.30		0.70				1.00	0.68	0.56	All green	90	0.40
US10	9	1.05				0.50		0.25		0.25		1.00	0.43	0.33	All green	90	0.40
US10	10	0.30				0.20		0.80				1.00	0.77	0.64	All green	90	0.40
US10	11	3.10						1.00				1.00	0.95	0.80	No info	90	0.40
US10	12	1.09				0.20		0.80				1.00	0.77	0.64	All green	90	0.40
US10	13	1.74				0.20		0.20			0.60	1.00	0.59	0.46	No info	90	0.40
US10	14	0.86				0.40		0.30				1.00	0.68	0.56	No info	90	0.40
US10	15	0.36				0.10		0.90				1.00	0.86	0.72	No info	90	0.40
US10	16	1.28				1.00		0.45		0.55		1.00	0.79	0.64	No info	90	0.40
US11	1	7.97								1.00		1.00	0.65	0.50	No info	90	0.40
US11	2	2.19	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
US11	3	0.21	0.70			0.15		0.15				1.00	0.29	0.24	All red	20	0.87
US11	4	2.76			0.60	0.40		0.40				1.00	0.32	0.26	All red	20	0.87
US11	5	2.15			0.40	0.50		0.10				1.00	0.32	0.25	All red	20	0.87
US11	6	0.21	0.30			0.55		0.15				1.00	0.23	0.17	All red	20	0.87
US11	7	0.20	0.75			0.15		0.10				1.00	0.25	0.21	All red	20	0.87
US11	8	0.49	0.70			0.20		0.10				1.00	0.25	0.20	All red	20	0.87
US11	9	0.42	0.60			0.40		0.40				1.00	0.14	0.08	No info	90	0.40
US11	10	0.49	0.30			0.50		0.20				1.00	0.28	0.18	All green	90	0.40
US11	11	6.20	0.70			0.20		0.10				1.00	0.25	0.19	Half yellow half red	35	0.77
US11	12	0.54	0.30			0.40		0.30				1.00	0.37	0.27	Half green half yellow	70	0.53
US11	13	2.44	0.25			0.50	0.15	0.10				1.00	0.22	0.15	All red	20	0.87
US11	14	1.04	0.70			0.20		0.10				1.00	0.25	0.19	Half yellow half red	35	0.77
US11	15	0.15	0.85					0.15				1.00	0.31	0.23	All yellow	50	0.67
US11	16	0.58	0.85					0.15				1.00	0.31	0.23	All yellow	50	0.67
US11	17	1.26	0.10			0.90						1.00	0.07	0.01	No info	90	0.40
US11	18	0.60	0.70					0.30				1.00	0.43	0.33	All yellow	50	0.67
US11	19	0.65	0.70			0.20		0.10				1.00	0.25	0.17	All yellow	50	0.67
US11	20	0.97	0.60			0.10		0.10				1.00	0.23	0.16	All yellow	50	0.67
US11	21	0.56	0.70			0.20		0.10				1.00	0.25	0.17	All yellow	50	0.67
US11	22	0.40	0.65			0.25		0.10				1.00	0.24	0.17	All yellow	50	0.67
US11	23	0.74	0.80			0.10		0.10				1.00	0.26	0.19	All yellow	50	0.67
US11	24	0.31	0.75			0.15		0.10				1.00	0.25	0.18	All yellow	50	0.67
US11	25	0.89	0.85			0.15		0.15				1.00	0.31	0.23	All yellow	50	0.67
US11	26	0.75	0.70			0.20		0.10				1.00	0.25	0.17	All yellow	50	0.67
US11	27	0.39	0.10			0.80		0.10				1.00	0.16	0.09	All yellow	50	0.67
US11	28	0.40	0.60			0.20		0.20				1.00	0.32	0.24	All yellow	50	0.67
US11	29	1.01	0.50			0.40		0.10				1.00	0.22	0.15	All yellow	50	0.67
US11	30	0.84	0.55			0.40		0.05				1.00	0.18	0.11	All yellow	50	0.67
US11	31	0.30	0.30			0.30		0.30				1.00	0.31	0.23	All yellow	50	0.67
US11	32	0.07	0.50			0.50		0.50				1.00	0.58	0.47	All yellow	50	0.67
US11	33	0.30	0.30			0.30		0.40				1.00	0.46	0.36	All yellow	50	0.67
US11	34	10.38				1.00						1.00	0.05	0.00	No info	90	0.40
US11	35	0.31				1.00						1.00	0.05	0.00	No info	90	0.40
US11	36	1.27	0.15			1.00						1.00	0.05	0.00	No info	90	0.40
US11	37	1.37				0.90		0.10				1.00	0.14	0.08	No info	90	0.40
US11	38	4.86				0.70				0.30		1.00	0.23	0.15	No info	90	0.40
US11	39	0.98				0.30				0.70		1.00	0.47	0.35	No info	90	0.40
US11	40	0.73	0.40			0.50		0.10				1.00	0.20	0.11	All green	90	0.40
US11	41	1.86	0.70			0.20		0.10				1.00	0.25	0.17	All yellow	50	0.67
US11	42	0.47				0.90				0.10		1.00	0.11	0.06	No info	90	0.40
US11	43	0.61	0.80							0.20		1.00	0.29	0.19	Half green half yellow	70	0.53
US11	44	0.28				0.30		0.70				1.00	0.47	0.35	All green	90	0.40
US11	45	3.40						0.05		0.80		1.00	0.58	0.44	All green	90	0.40
US11	46	0.15	0.55			0.15				0.30		1.00	0.31	0.19	All green	90	0.40
US11	47	0.17	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
US11	48	1.83	0.05					0.05		0.90		1.00	0.64	0.49	All green	90	0.40
US11	49	1.74	0.20					0.05		0.75		1.00	0.58	0.43	All green	90	0.40
US11	50	1.72	0.20					0.05		0.75		1.00	0.58	0.43	All green	90	0.40
US11	51	0.87						0.50		0.50		1.00	0.80	0.65	All green	90	0.40
US11	52	1.14				0.20		0.20		0.60		1.00	0.59	0.46	All green	90	0.40
US11	53	2.03								1.00		1.00	0.65	0.50	All green	90	0.40
WW01	1	6.15	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW01	2	5.64	0.75				0.15	0.10				1.00	0.29	0.23	All red	20	0.87
WW01	3	4.40	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW01	4	7.95	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW01	5	0.81	0.90					0.10				1.00</					

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected to residential land uses)
WW03	15	1.57	0.30					0.10				1.00	0.19	0.10	All green	90	0.40
WW03	16	0.57			0.90	0.60		0.10				1.00	0.55	0.26	All green	90	0.40
WW03	17	1.25	0.15		0.75			0.10				1.00	0.50	0.24	All green	90	0.40
WW03	18	0.84	0.40		0.50			0.10				1.00	0.43	0.21	All green	90	0.40
WW03	19	0.27	0.50					0.10				1.00	0.28	0.15	All green	90	0.40
WW03	20	0.33	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
WW03	21	2.92	0.15			0.75		0.10				1.00	0.16	0.09	No info	90	0.40
WW03	22	1.92	0.40		0.20	0.30		0.10				1.00	0.29	0.15	All green	90	0.40
WW03	23	0.63	0.90			0.10		0.10				1.00	0.26	0.14	All green	90	0.40
WW03	24	0.45	0.20			0.70		0.10				1.00	0.17	0.10	All green	90	0.40
WW03	25	1.02	0.10			0.80		0.10				1.00	0.16	0.09	All green	90	0.40
WW03	26	1.17			0.25	0.65		0.10				1.00	0.25	0.13	All green	90	0.40
WW03	27	0.20	0.45		0.45			0.10				1.00	0.41	0.21	All green	90	0.40
WW03	28	0.14	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
WW03	29	0.08	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
WW03	30	0.82	0.30			0.60		0.10				1.00	0.19	0.10	All green	90	0.40
WW03	31	2.35	0.20		0.10	0.60		0.10				1.00	0.22	0.12	All green	90	0.40
WW03	32	3.80	0.30			0.60		0.10				1.00	0.19	0.10	All green	90	0.40
WW03	33	2.72				0.90		0.10				1.00	0.14	0.08	All green	90	0.40
WW04	1	5.14	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW04	2	3.85	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW04	3	0.95	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW04	4	0.48	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW05	1	0.62	0.60			0.30		0.10				1.00	0.23	0.18	All red	20	0.87
WW05	2	8.45	0.65			0.25		0.10				1.00	0.24	0.19	All red	20	0.87
WW05	3	1.29	0.55			0.35		0.10				1.00	0.22	0.18	All red	20	0.87
WW05	4	2.27			1.00			0.10				1.00	0.50	0.43	All red	20	0.87
WW05	5	0.93	0.40		0.50			0.10				1.00	0.43	0.37	All red	20	0.87
WW05	6	0.22	0.30		0.40	0.20		0.10				1.00	0.37	0.31	All red	20	0.87
WW05	7	0.95			0.90			0.10				1.00	0.55	0.47	All red	20	0.87
WW05	8	0.86	0.85			0.15		0.10				1.00	0.19	0.15	All red	20	0.87
WW05	9	1.76						0.10		1.00		1.00	0.85	0.50	No info	90	0.40
WW05	10	1.62				0.30		0.30		0.40		1.00	0.56	0.44	All red	20	0.87
WW05	11	0.34				0.10		0.90				1.00	0.86	0.72	No info	90	0.40
WW05	12	2.16	0.64			0.26		0.10				1.00	0.24	0.19	All red	20	0.87
WW05	13	17.47				0.35		0.10		0.65		1.00	0.44	0.07	No info	90	0.40
WW05	14	0.19				0.05		0.95				1.00	0.91	0.76	No info	90	0.40
WW05	15	4.10				0.95		0.05				1.00	0.10	0.04	No info	90	0.40
WW05	16	0.52	0.10			0.30		0.60				1.00	0.61	0.50	All red	20	0.87
WW05	17	1.48				1.00		0.40				1.00	0.05	0.00	All red	20	0.87
WW05	18	4.23				0.90		0.10	0.10			1.00	0.14	0.01	No info	90	0.40
WW05	19	0.82	0.80			0.10		0.10				1.00	0.26	0.22	All red	20	0.87
WW05	20	1.30	0.30		0.65	0.05		0.10				1.00	0.39	0.15	All green	90	0.40
WW05	21	0.31	0.25			0.35		0.40				1.00	0.45	0.36	All red	20	0.87
WW05	22	0.06				0.40		0.60				1.00	0.59	0.48	All red	20	0.87
WW05	23	0.23	0.55			0.30		0.15				1.00	0.27	0.16	All green	90	0.40
WW05	24	0.08	0.70			0.15		0.15				1.00	0.29	0.18	All green	90	0.40
WW05	25	1.14				0.10		0.10				1.00	0.28	0.15	No info	90	0.40
WW05	26	1.50	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
WW05	27	0.13	0.90			0.10		0.10				1.00	0.28	0.15	All green	90	0.40
WW05	28	0.08	0.50			0.50		0.10				1.00	0.58	0.44	All green	90	0.40
WW05	29	0.12	0.75			0.15		0.10				1.00	0.25	0.14	No info	90	0.40
WW05	30	0.27	0.68			0.25		0.07				1.00	0.22	0.11	No info	90	0.40
WW05	31	0.57	0.20			0.60		0.10				1.00	0.08	0.02	No info	90	0.40
WW05	32	3.18	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW05	33	1.06				0.35		0.40		0.25		1.00	0.56	0.45	No info	90	0.40
WW05	34	0.70	0.50			0.40		0.10				1.00	0.22	0.12	All green	90	0.40
WW05	35	0.37				0.20		0.80				1.00	0.77	0.64	All red	20	0.87
WW05	36	2.30	0.35			0.55		0.10				1.00	0.19	0.14	All red	20	0.87
WW05	37	1.23	0.50					0.10				1.00	0.28	0.24	All red	20	0.87
WW05	38	1.98	0.35		0.55			0.10				1.00	0.44	0.38	All red	20	0.87
WW05	39	0.48	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW05	40	0.37	0.40			0.45		0.15				1.00	0.25	0.19	All red	20	0.87
WW05	41	0.18	0.60			0.40		0.10				1.00	0.50	0.42	All red	20	0.87
WW05	42	0.49	0.60			0.30		0.10				1.00	0.23	0.18	All red	20	0.87
WW05	43	3.60	0.25			0.67		0.08				1.00	0.15	0.10	All red	20	0.87
WW05	44	3.54	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW05	45	2.35	0.90					0.10				1.00	0.28	0.24	All red	20	0.87
WW05	46	1.58	0.55			0.35		0.10				1.00	0.22	0.18	All red	20	0.87
WW05	47	0.62	0.30			0.60		0.10				1.00	0.19	0.13	All red	20	0.87
WW05	48	1.72	0.27			0.63		0.05		0.05		1.00	0.17	0.09	All red	20	0.87
WW05	49	3.13	0.35		0.40	0.15		0.10				1.00	0.37	0.31	All red	20	0.87
WW05	50	1.46	0.75					0.25				1.00	0.39	0.33	All red	20	0.87
WW05	51	0.45				0.05		0.95				1.00	0.91	0.76	All red	20	0.87
WW05	52	2.02	0.15		0.30	0.45		0.10				1.00	0.30	0.24	All red	20	0.87
WW05	53	2.50	0.10			0.05		0.45		0.40		1.00	0.71	0.58	All red	20	0.87
WW05	54	1.61			0.10	0.10		0.50		0.30		1.00	0.73	0.59	All red	20	0.87
WW05	55	2.55			0.50	0.15		0.15		0.20		1.00	0.53	0.44	All red	20	0.87
WW05	56	1.25	0.10			0.15		0.55		0.20		1.00	0.68	0.56	All red	20	0.87
WW05	57	1.16			0.35	0.25		0.40				1.00	0.57	0.47	All red	20	0.87
WW05	58	3.92			0.55	0.10		0.25		0.10		1.00	0.58	0.49	All red	20	0.87
WW05	59	0.49				0.30		0.70				1.00	0.68	0.56	No info	90	0.40
WW05	60	1.15			0.40	0.40		0.40		0.20		1.00	0.53	0.42	All red	20	0.87
WW06	1	0.85						1.00				1.00	0.95	0.80	No info	90	0.40
WW06	2	0.17						1.00				1.00	0.95	0.80	No info	90	0.40
WW06	3	14.00				0.10		0.10				1.00	0.92	0.76	No info	90	0.40
WW06	4	0.49							1.00			1.00	0.95	0.10	No info	90	0.40
WW06	5	2.17				0.10		0.10				1.00	0.59	0.09	No info	90	0.40
WW06	6	13.27				0.75		0.10				1.00	0.23	0.10	No info	90	0.40
WW06	7	11.80				1.00						1.00	0.05	0.00	No info	90	0.40
WW06	8	2.89	0.15			0.40		0.40		0.45		1.00	0.34	0.24	No info	90	0.40
WW06	9	10.36				0.40		0.10		0.60		1.00	0.41	0.30	No info	90	0.40
WW06	10	10.70				0.20		0.10				1.00	0.53	0.08	No info	90	0.40
WW06	11	12.95				0.70						1.00	0.23	0.03	No info	90	0.40
WW06	12	3.51						0.10		1.00		1.00	0.65	0.50	No info	90	0.40
WW																	

TABLE J2: PERCENTAGE IMPERVIOUSNESS CALCULATIONS

Network	Subcatchment	Area (ha)	Residential Single	Residential Semi	Residential Townhomes	Park or Greenspace	Institutional	Commercial or Roadway	Commercial or roadway with ditching	Industrial or similar	Industrial with ditching	Total	TIMP (ha/ha)	XIMP (ha/ha)	Downspout connection distribution	% Disconn. roof leaders	Portion of Total Impervious Area that is directly connected for residential land uses)
WW07	18	0.34	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
WW08	1	0.20	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
WW08	2	0.88	0.85					0.15				1.00	0.31	0.19	All green	90	0.40
WW08	3	0.42	0.75					0.25				1.00	0.39	0.26	All green	90	0.40
WW08	4	3.21	0.70					0.30				1.00	0.43	0.30	All green	90	0.40
WW08	5	2.03	0.90					0.10				1.00	0.28	0.15	All green	90	0.40
WW08	6	0.70	0.50					0.50				1.00	0.58	0.44	All green	90	0.40
WW08	7	0.27	0.80					0.20				1.00	0.35	0.22	All green	90	0.40
WW08	8	0.78	0.65					0.35				1.00	0.46	0.33	All green	90	0.40
WW08	9	3.01	0.10			0.90						1.00	0.07	0.01	No info	90	0.40
WW08	10	0.81				0.75		0.25				1.00	0.28	0.20	All green	90	0.40
WW08	11	0.76	0.05					0.20		0.75		1.00	0.69	0.54	No info	90	0.40
WW08	12	1.05	0.70			0.20		0.10				1.00	0.25	0.14	All green	90	0.40
WW08	13	2.43	0.75			0.15		0.10				1.00	0.25	0.14	All green	90	0.40
WW08	14	0.68	0.60					0.40				1.00	0.50	0.37	No info	90	0.40
WW08	15	0.40	0.60					0.40				1.00	0.50	0.37	No info	90	0.40
WW08	16	1.76	0.75					0.25				1.00	0.39	0.26	All green	90	0.40
WW08	17	0.87	0.65					0.35				1.00	0.46	0.33	No info	90	0.40

DOWNSPOUT DISCONNECTION MAPPING AND DIRECTLY CONNECTED IMPERVIOUSNESS

Colour Code	% Disconnected downspouts	Average % Value to Use
Green	80-100	90
Blue	60-80	70
Yellow	40-60	50
Red	0-40	20

Assumption is that for residential, approximately 1/3 of total imperviousness is taken by driveway, which is all directly connected
This assumes all driveways are positively sloped, which is likely the majority
For the remaining 2/3 of total impervious area, directly connected imperviousness is determined by downspout mapping value
Amount that is not disconnected is considered directly connected impervious.
Assume that all disconnected downspouts discharge to grass and not driveway or other connected pathway
If the mapping has no information available - assume 90%, disconnected since this is the most frequent value in the City

HYDROLOGIC PARAMETER REFERENCES

EPA STORM WATER MANAGEMENT MODEL USER'S MANUAL VERSION 5.0 (TABLE A.2)

A.2 Soil Characteristics

Soil Texture Class	K	Ψ	φ	FC	WP
Sand	4.74	1.93	0.437	0.062	0.024
Loamy Sand	1.18	2.40	0.437	0.105	0.047
Sandy Loam	0.43	4.33	0.453	0.190	0.085
Loam	0.13	3.50	0.463	0.232	0.116
Silt Loam	0.26	6.59	0.501	0.284	0.135
Sandy Clay Loam	0.06	8.56	0.398	0.244	0.130
Clay Loam	0.04	8.27	0.464	0.310	0.187
Silty Clay Loam	0.01	19.93	0.171	0.342	0.219
Sandy Clay	0.02	9.45	0.430	0.321	0.221
Silty Clay	0.02	11.42	0.475	0.371	0.251
Clay	0.01	12.50	0.475	0.378	0.265

K = saturated hydraulic conductivity, in/hr
 Ψ = suction head, in.
 φ = porosity fraction
 FC = field capacity fraction
 WP = wilting point fraction

Source: Rawls, W.J. et al., (1982), *J. Hyd. Engr.*, 109:1316.

EPA STORM WATER MANAGEMENT MODEL USER'S MANUAL VERSION 5.0 (TABLE A.3)

A.3 NRCS Hydrologic Soil Group Definitions

Group	Meaning	Saturated Hydraulic Conductivity (in/hr)
A	Low runoff potential. Soils having high infiltration rates even when thoroughly wetted and consisting chiefly of deep, well to excessively drained sands or gravels.	≥ 0.45
B	Soils having moderate infiltration rates when thoroughly wetted and consisting chiefly of moderately deep to deep, moderately well to well-drained soils with moderately fine to moderately coarse textures. E.g., shallow loess, sandy loam.	0.30 - 0.15
C	Soils having slow infiltration rates when thoroughly wetted and consisting chiefly of soils with a layer that impedes downward movement of water, or soils with moderately fine to fine textures. E.g., clay loams, shallow sandy loam.	0.15 - 0.05
D	High runoff potential. Soils having very slow infiltration rates when thoroughly wetted and consisting chiefly of clay soils with a high swelling potential, soils with a permanent high water table, soils with a clay-pan or clay layer at or near the surface, and shallow soils over nearly impervious material.	0.05 - 0.00

USER'S GUIDE TO SWMM5 (TABLE 20-10)

Soil	Typical IMD for Dry Conditions	Estimated for Normal Conditions
Sand	0.34	0.22
Sandy Loam	0.33	0.21
Silt Loam	0.32	0.21
Loam	0.31	0.20
Sandy Clay Loam	0.26	0.17
Clay Loam	0.24	0.15
Clay	0.21	0.14

USER'S GUIDE TO SWMM5 (TABLE 20-11)

Soil	Typical Values for Suction (inches)
Sand	4
Sandy Loam	8
Silt Loam	12
Loam	8
Clay Loam	10
Clay	7

ASSUMED SCS SOIL CLASSES

Soil Type	Assumed SCS Class
Sand	A
Loamy Sand	AB
Sandy Loam	AB
Loam	B
Silt Loam	BC
Sandy Clay Loam	C
Clay Loam	C
Silty Clay Loam	C
Sandy Clay	C
Silty Clay	C
Clay (or organic)	CD

SOIL TYPES FOUND IN THE CITY OF GUELPH

Soil Code	Soil Name	SCS Class
Bg	Burford Loam	AB
Cof	Colford Fine Sandy Loam	AB
Db	Donnybrook Sandy Loam	AB
Dl	Dumfries loam	AB
Fs	Fox Sandy Loam	AB
Gil	Gilford Loam	B
M	Muck	B
Gl	Guelph Loam	BC
Li	London Loam	BC
Pal	Parkhill Loam	BC

INFILTRATION PARAMETERS USED FOR PCSWMM MODELLING

Soil Class	Using A.2 Using 20-11		Using A.2 Using A.3				
	Suction Head (mm)	Suction Head (mm)	Average Suction Head (mm)	K (mm/hr)	K (mm/hr)	Average K (mm/hr)	Average K using Geometric Mean (mm/hr)
A	49.0	101.6	75	120.4	11.4	66	37.1
AB	85.5	203.2	144	20.4	7.6	11	12.5
B	88.9	203.2	146	3.3	5.7	5	4.3
BC	169.9	304.8	237	6.6	3.8	5	5.0
C	246.0	254.0	250	0.9	2.5	2	1.5
CD	320.0	177.8	249	0.3	1.3	1	0.6