

Appendix H
HEC-RAS Model Data

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HEC-RAS Plan: PrelimNov2011 Profile: 100YR-12HR (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
TribC	5418	100YR-12HR	180.30	728.18	730.34	730.34	730.58	0.012070	5.14	63.33	128.09	0.82
TribC	5349	100YR-12HR	180.30	727.89	729.78	729.46	729.81	0.003660	2.33	126.26	196.34	0.43
TribC	5202	100YR-12HR	180.30	727.39	729.27	728.99	729.30	0.003290	2.20	145.84	260.65	0.41
TribC	5089	100YR-12HR	180.30	727.15	729.10	728.89	729.14	0.003913	2.87	132.71	247.51	0.46
TribC	5035	100YR-12HR	180.30	726.93	728.94	728.79	729.01	0.004986	3.28	116.61	247.65	0.52
TribC	4776	100YR-12HR	180.30	725.87	728.67	728.12	728.71	0.001128	2.07	159.52	165.90	0.27
TribC	4604	100YR-12HR	180.30	725.19	728.61	727.71	728.62	0.000407	1.50	245.49	226.91	0.17
TribC	4261	100YR-12HR	266.60	723.80	728.43		728.46	0.000535	1.82	247.64	231.54	0.20
TribC	4042	100YR-12HR	266.60	722.92	728.26	726.37	728.32	0.000630	2.39	248.25	378.74	0.22
TribC	3993	Culvert										
TribC	3955	100YR-12HR	266.60	722.80	725.33	725.33	726.35	0.014412	8.14	32.74	394.22	1.00
TribC	3680	100YR-12HR	266.60	721.50	725.15	723.60	725.18	0.000418	1.68	273.05	411.50	0.18
TribC	3550	100YR-12HR	266.60	720.89	725.14	723.09	725.15	0.000104	0.93	569.65	437.22	0.09
TribC	3459	100YR-12HR	266.60	720.46	725.13	722.58	725.14	0.000077	0.87	597.78	412.51	0.08
TribC	3429	Culvert										
TribC	3385	100YR-12HR	266.60	718.96	725.14	721.12	725.14	0.000006	0.29	1676.15	642.62	0.02
TribC	2997	100YR-12HR	345.30	718.37	725.14	721.47	725.14	0.000004	0.25	2511.84	843.89	0.02
TribC	2666	100YR-12HR	345.30	717.78	725.14	720.98	725.14	0.000003	0.23	2657.04	779.47	0.02
TribC	2375	100YR-12HR	110.20	717.26	725.14	719.53	725.14	0.000000	0.05	4474.61	1605.91	0.00
TribC	2333	Culvert										
TribC	2295	100YR-12HR	110.20	717.50	725.14		725.14	0.000000	0.06	4352.16	1095.32	0.00
TribC	1968	100YR-12HR	110.20	716.04	725.12	718.16	725.13	0.000052	0.84	139.27	381.09	0.06
TribC	1814	Culvert										
TribC	1764	100YR-12HR	110.20	715.14	717.26	717.09	717.59	0.015706	4.59	24.75	127.45	0.79
TribC	1720	100YR-12HR	110.20	714.75	716.82		716.89	0.005907	2.73	84.91	135.46	0.48
TribC	1530	100YR-12HR	110.20	712.83	715.95	715.07	716.13	0.003385	3.43	39.54	52.21	0.45
TribC	1495	Culvert										
TribC	1335	100YR-12HR	110.20	712.03	714.43		714.52	0.002734	2.50	47.84	70.82	0.40
TribC	1059	100YR-12HR	110.20	710.90	712.85	712.71	713.05	0.013655	3.65	32.65	63.15	0.73
TribC	730	100YR-12HR	139.40	709.56	711.88		711.93	0.001653	2.16	108.49	147.91	0.32
TribC	502	100YR-12HR	139.40	708.63	711.81	710.55	711.82	0.000209	0.90	251.44	268.14	0.12
TribC	468	Culvert										
TribC	421	100YR-12HR	139.40	705.94	709.56	707.40	709.62	0.000446	1.96	71.24	284.70	0.19
MainDS_03	2622	100YR-12HR	2789.00	697.44	707.98	707.02	708.32	0.001687	5.72	855.04	1315.73	0.38
MainDS_03	2071	100YR-12HR	2789.00	696.58	707.28	706.39	707.46	0.001123	4.63	1312.27	1405.76	0.31
MainDS_03	1632	100YR-12HR	2789.00	695.89	706.73	705.82	706.90	0.001010	4.43	1396.58	1719.90	0.30
MainDS_03	1054	100YR-12HR	3080.10	695.00	705.98	705.32	706.21	0.001333	5.16	1352.53	1088.33	0.34
MainDS_03	557	100YR-12HR	3080.10	693.56	705.54		705.71	0.000958	4.43	1639.14	941.31	0.29
MainDS_03	35	100YR-12HR	3080.10	692.05	704.46	700.91	704.91	0.002104	6.36	1000.37	726.23	0.41



SSA MASTER PLAN - FLOODPLAINS REPORT
APPENDIX H-1 (CONT.)
ROCK CREEK HEC-RAS MODEL DATA

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Black Walnut Cre	Reach-3	18759		Bridge									
Black Walnut Cre	Reach-3	18711	100-year	1822.00	707.96	716.77	714.09	717.25	0.002411	6.20	386.02	362.52	0.39
Black Walnut Cre	Reach-3	18662	100-year	1822.00	707.06	716.83		717.03	0.001141	4.87	726.49	411.07	0.30
Black Walnut Cre	Reach-3	18162	100-year	1822.00	706.38	716.47		716.60	0.000625	3.86	893.08	469.45	0.23
Black Walnut Cre	Reach-3	17860	100-year	1822.00	706.37	716.40	712.82	716.44	0.000310	2.75	1481.40	976.38	0.16
Black Walnut Cre	Reach-3	17650	100-year	1822.00	706.35	715.24	712.81	716.06	0.003125	7.99	299.02	746.71	0.50
Black Walnut Cre	Reach-3	17586		Bridge									
Black Walnut Cre	Reach-3	17530	100-year	1890.00	706.39	714.66	713.27	715.38	0.003769	7.90	316.94	680.21	0.53
Black Walnut Cre	Reach-3	17162	100-year	1890.00	705.19	714.74	713.80	714.76	0.000226	2.20	2082.84	1181.92	0.13
Black Walnut Cre	Reach-3	17014	100-year	1890.00	704.98	714.71	713.27	714.73	0.000191	1.99	2118.85	1033.13	0.12
Black Walnut Cre	Reach-3	16952		Bridge									
Black Walnut Cre	Reach-3	16905	100-year	1890.00	705.01	714.66	710.99	714.69	0.000249	2.39	1916.91	1210.63	0.14
Black Walnut Cre	Reach-3	16662	100-year	1890.00	704.16	714.58		714.63	0.000268	2.59	1746.21	989.25	0.15
Black Walnut Cre	Reach-3	16162	100-year	1890.00	704.55	714.23		714.39	0.000872	4.43	896.27	515.34	0.27
Black Walnut Cre	Reach-3	15662	100-year	1880.20	703.15	713.57		713.86	0.001259	5.50	662.33	337.78	0.32
Black Walnut Cre	Reach-3	15162	100-year	1880.20	703.09	712.62	709.92	713.09	0.001858	6.39	547.14	420.36	0.39
Black Walnut Cre	Reach-3	14662	100-year	1880.20	702.72	711.87		712.18	0.001604	5.67	677.96	462.61	0.35
Black Walnut Cre	Reach-3	14256	100-year	1877.20	700.65	711.57	706.92	711.71	0.000630	4.11	1063.77	674.77	0.23
Black Walnut Cre	Reach-3	14211		Bridge									
Black Walnut Cre	Reach-3	14178	100-year	1877.20	699.82	711.54	707.37	711.61	0.000381	3.33	1315.07	596.90	0.18
Black Walnut Cre	Reach-3	13662	100-year	1877.20	700.02	711.20		711.34	0.000607	4.13	976.70	491.15	0.23
Black Walnut Cre	Reach-3	13162	100-year	1877.20	699.18	710.98		711.07	0.000429	3.59	1117.30	472.65	0.19
Black Walnut Cre	Reach-3	12662	100-year	1892.70	698.39	710.63		710.80	0.000648	4.49	901.25	452.81	0.24
Black Walnut Cre	Reach-3	12162	100-year	1892.70	698.74	709.92		710.33	0.001340	6.15	555.35	275.54	0.34
Black Walnut Cre	Reach-3	11662	100-year	1892.70	697.04	708.85	705.26	709.49	0.002001	7.59	418.71	271.02	0.41
Black Walnut Cre	Reach-3	11162	100-year	1892.70	696.27	707.74	703.83	708.48	0.002019	7.53	324.14	127.19	0.41
Black Walnut Cre	Reach-3	10662	100-year	1892.70	695.24	707.18		707.56	0.001338	6.33	554.67	306.45	0.33
Black Walnut Cre	Reach-3	10162	100-year	1892.70	695.12	706.41		706.85	0.001477	6.40	510.80	276.47	0.35
Black Walnut Cre	Reach-3	9662	100-year	1892.70	694.44	705.15		705.88	0.002530	8.03	347.78	143.69	0.45
Black Walnut Cre	Reach-3	9162	100-year	1907.60	693.44	704.57		704.88	0.001278	5.81	687.09	375.92	0.32
Black Walnut Cre	Reach-3	8662	100-year	1907.60	692.71	704.13		704.34	0.000823	4.80	778.25	383.71	0.26
Black Walnut Cre	Reach-3	8162	100-year	1907.60	692.51	703.60		703.87	0.001057	5.42	741.03	404.09	0.30
Black Walnut Cre	Reach-3	7662	100-year	1907.60	692.05	703.40		703.48	0.000467	3.60	1363.16	863.38	0.20
Black Walnut Cre	Reach-3	7290	100-year	1907.60	692.11	703.06	702.21	703.22	0.000863	4.77	1071.69	799.64	0.27
Black Walnut Cre	Reach-3	7251		Culvert									
Black Walnut Cre	Reach-3	7198	100-year	1907.60	692.63	702.05	699.37	702.20	0.000971	4.68	1006.67	715.99	0.27
Black Walnut Cre	Reach-3	6680	100-year	1907.60	690.58	701.27	697.03	701.60	0.001123	5.62	746.64	678.71	0.30
Black Walnut Cre	Reach-4	6000	100-year	1909.40	689.23	700.05		700.61	0.001889	7.14	426.98	215.01	0.38
Black Walnut Cre	Reach-4	5500	100-year	1896.90	688.70	699.51		699.83	0.001084	5.48	714.07	629.17	0.29
Black Walnut Cre	Reach-4	5000	100-year	1896.90	688.15	699.24		699.37	0.000640	4.18	1247.74	1028.31	0.22
Black Walnut Cre	Reach-4	4500	100-year	1896.90	687.62	698.82		698.99	0.000871	4.82	948.94	718.03	0.25
Black Walnut Cre	Reach-4	4000	100-year	1896.90	687.25	698.21		698.52	0.000978	5.32	805.14	770.00	0.28
Black Walnut Cre	Reach-4	3500	100-year	1896.90	687.58	697.84		698.04	0.000818	4.65	950.85	840.86	0.26
Black Walnut Cre	Reach-4	2956	100-year	2053.70	686.79	697.00		697.42	0.001461	6.21	673.48	562.61	0.34
Black Walnut Cre	Reach-4	2500	100-year	2053.70	685.85	696.72		696.89	0.000722	4.54	1107.62	772.54	0.24
Black Walnut Cre	Reach-4	1830	100-year	2053.70	685.39	696.48		696.53	0.000345	3.06	1676.28	917.22	0.16
Black Walnut Cre	Reach-4	1500	100-year	2053.70	685.47	696.30		696.40	0.000485	3.68	1208.52	557.97	0.20
Black Walnut Cre	Reach-4	1000	100-year	2191.80	684.89	693.52	692.56	695.56	0.007378	12.21	219.77	110.35	0.74
Black Walnut Cre	Reach-4	417	100-year	2191.80	683.44	690.69	689.40	691.76	0.005005	9.16	286.22	61.71	0.60



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SSA MASTER PLAN - FLOODPLAINS REPORT
APPENDIX H-2 (CONT.)
BLACK WALNUT CREEK HEC-RAS MODEL DATA

HEC-RAS Plan: SBR Final Profile: 100-year (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
SBR Trib1	Reach-1	4519	100-year	426.30	717.99	724.69	722.19	724.82	0.001093	3.57	238.66	284.18	0.27
SBR Trib1	Reach-1	3222	100-year	426.30	716.53	723.32	721.18	723.43	0.001102	3.50	212.27	136.59	0.26
SBR Trib1	Reach-1	2500	100-year	441.80	715.23	722.06	720.28	722.27	0.002492	4.95	150.92	147.02	0.35
SBR Trib1	Reach-1	2000	100-year	441.80	715.29	721.28	719.97	721.35	0.001299	3.37	285.01	288.35	0.27
SBR Trib1	Reach-1	1500	100-year	441.80	714.45	720.63	719.08	720.68	0.000818	2.75	344.59	328.48	0.21
SBR Trib1	Reach-1	954	100-year	441.80	713.57	719.14	717.84	719.62	0.006825	6.06	91.98	69.74	0.49
SBR Trib1	Reach-1	889											
			Culvert										
SBR Trib1	Reach-1	864	100-year	441.80	713.42	718.89	717.69	719.42	0.007555	6.29	85.78	60.28	0.52
SBR Trib1	Reach-1	733	100-year	441.80	712.02	716.28	716.28	717.55	0.025012	9.33	50.45	20.26	0.89



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SSA MASTER PLAN - FLOODPLAINS REPORT
APPENDIX H-3 (CONT.)
SOUTH BRANCH ROCK CREEK HEC-RAS MODEL DATA

HEC-RAS Plan: Multiple River: Exline Slough Reach: Reach-1 Profile: 100-year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	8250	100-year	155.50	734.22	735.52	735.52	735.69	0.010661	3.58	58.86	191.24	0.66
Reach-1	8000	100-year	155.50	730.74	732.76	732.76	733.02	0.010607	4.32	47.49	112.83	0.69
Reach-1	7750	100-year	155.50	728.72	730.17	730.03	730.36	0.009053	3.57	51.50	112.81	0.62
Reach-1	7500	100-year	155.50	727.22	728.54		728.64	0.005377	2.54	68.59	107.94	0.47
Reach-1	7250	100-year	155.50	725.65	727.10		727.22	0.006077	2.86	65.02	186.07	0.51
Reach-1	7002	100-year	155.50	724.44	725.69		725.75	0.005675	1.84	88.50	215.10	0.44
Reach-1	6750	100-year	155.50	722.93	724.88		724.92	0.002088	1.45	106.96	134.82	0.29
Reach-1	6376	100-year	500.10	718.99	723.26	723.11	723.51	0.004966	5.17	176.57	271.74	0.53
Reach-1	6351		Culvert									
Reach-1	6331	100-year	500.10	718.16	721.87	721.29	721.97	0.003167	2.69	212.77	213.36	0.39
Reach-1	6250	100-year	500.10	719.13	721.74		721.78	0.001099	1.69	333.76	332.05	0.24
Reach-1	6000	100-year	500.10	718.92	721.48		721.52	0.001048	1.67	346.88	338.47	0.23
Reach-1	5750	100-year	543.80	718.04	721.07		721.15	0.002054	2.35	260.91	305.36	0.32
Reach-1	5500	100-year	543.80	717.84	720.37		720.45	0.003898	2.43	262.26	396.52	0.41
Reach-1	5250	100-year	543.80	717.93	719.61		719.66	0.002529	2.07	359.79	580.41	0.34
Reach-1	5000	100-year	543.80	717.38	718.78		718.84	0.004500	2.31	303.71	550.89	0.43
Reach-1	4750	100-year	543.80	716.44	718.12		718.16	0.002057	1.81	413.75	648.55	0.30
Reach-1	4500	100-year	543.80	715.84	717.60	717.24	717.63	0.002001	1.67	411.47	615.26	0.29



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SSA MASTER PLAN - FLOODPLAINS REPORT
APPENDIX H-4
EXLINE SLOUGH HEC-RAS MODEL DATA

HEC-RAS Plan: 100Year c Profile: 100-year (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Plum Creek	Reach-5	7000	100-year	750.70	714.88	721.80		721.83	0.002201	1.75	626.12	205.08	0.12
Plum Creek	Reach-5	6500	100-year	750.70	714.08	721.62		721.69	0.003376	2.29	413.56	158.29	0.16
Plum Creek	Reach-5	6000	100-year	750.70	712.20	721.53		721.56	0.00147	1.47	515.15	102.36	0.10
Plum Creek	Reach-5	5730	100-year	750.70	711.84	721.54		721.54	0.00025	0.80	1321.85	301.74	0.06
Plum Creek	Reach-6	5641	100-year	1061.60	708.79	721.48	712.74	721.53	0.00115	1.89	565.17	146.82	0.10
Plum Creek	Reach-6	5571			Culvert								
Plum Creek	Reach-6	5495	100-year	1061.60	708.30	714.97	712.75	715.30	0.002391	4.58	235.84	102.01	0.40
Plum Creek	Reach-6	4791	100-year	1061.60	709.87	714.41		714.44	0.00548	2.00	919.22	668.23	0.18
Plum Creek	Reach-6	4250	100-year	1186.10	708.39	713.78		713.93	0.001730	4.37	677.78	515.83	0.35
Plum Creek	Reach-6	3750	100-year	1186.10	708.00	712.97		713.09	0.001596	3.53	579.60	357.43	0.32
Plum Creek	Reach-6	3250	100-year	1186.10	706.84	711.78		712.06	0.002615	4.40	297.22	124.87	0.41
Plum Creek	Reach-6	2750	100-year	1186.10	706.28	711.18		711.25	0.00962	2.81	592.05	280.04	0.25
Plum Creek	Reach-6	2250	100-year	1186.10	705.74	710.51		710.63	0.001664	3.48	534.70	468.50	0.33
Plum Creek	Reach-6	1750	100-year	1186.10	705.94	710.25		710.26	0.00361	1.61	1137.14	668.19	0.15
Plum Creek	Reach-6	1250	100-year	1186.10	704.52	710.06		710.09	0.00340	1.76	928.02	385.36	0.15
Plum Creek	Reach-6	750	100-year	1186.10	703.86	709.00		709.60	0.005199	6.36	229.38	119.97	0.58
Plum Creek	Reach-6	250	100-year	1186.10	702.61	707.35	705.97	707.54	0.003003	4.74	452.83	162.29	0.42



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SSA MASTER PLAN - FLOODPLAINS REPORT
APPENDIX H-5 (CONT.)
PLUM CREEK HEC-RAS MODEL DATA