

Appendix E

Manning's n Sensitivity Analysis

Table E1 - 1:100 Year Calculated Water Surface Elevations and Manning's n Sensitivity Analysis

River Station	Q Total (m ³ /s)	Calculated 1:100 Year Water Surface Elev. (m)	Calculated 1:100 Year Water Surface Elev. Manning's n Increased by 1.5 (m)	Calculated 1:100 Year Water Surface Elev. Manning's n Increased by 2.0 (m)
3011	6180	76.09	76.93	77.70
3010	6180	76.07	76.90	77.68
3009	6180	75.90	76.77	77.56
3008	6180	75.25	76.17	76.99
3007	6180	74.95	75.76	76.51
3006.2	6180	75.01	75.78	76.52
3006.15	Bridge			
3006.1	6180	74.98	75.77	76.48
3006	6180	74.83	75.67	76.40
3005	6180	74.49	75.28	75.97
3004	6180	74.36	74.94	75.50
3003	6180	74.22	74.69	75.16
3002	6180	73.89	74.11	74.36
3001	6180	73.72	73.72	73.72

Table E2 - 1:100 Year Calculated Water Surface Elevations and Manning's n Sensitivity Analysis

River Station	Q Total (m ³ /s)	Calculated 1:100 Year Water Surface Elev. (m)	Calculated 1:100 Year Water Surface Elev. Manning's n Increased by 1.5 (m)	Calculated 1:100 Year Water Surface Elev. Manning's n Increased by 2.0 (m)
2059	6180	61.28	61.79	62.35
2058	6180	61.27	61.74	62.27
2057	6180	61.25	61.71	62.22
2056	6180	61.23	61.67	62.17
2055	6180	61.21	61.64	62.13
2054	6180	61.17	61.58	62.05
2053	6180	61.09	61.46	61.89
2052	6180	61.08	61.43	61.85
2051	6180	61.06	61.40	61.79
2050	6180	61.05	61.36	61.72
2049	6180	61.05	61.34	61.69
2048	6180	61.02	61.28	61.59
2047	6180	60.97	61.20	61.49
2046	6180	60.94	61.14	61.38
2045	6180	60.92	61.09	61.30
2044	6180	60.78	60.91	61.07
2043	6180	60.84	60.95	61.09
2042	6180	60.84	60.94	61.07
2041	6180	60.83	60.92	61.04
2040	6180	60.82	60.90	61.01
2039	6180	60.81	60.89	60.99
2038	6180	60.81	60.88	60.98
2037	6180	60.81	60.88	60.97
2036	6180	60.80	60.86	60.95
2035	6180	60.79	60.85	60.93
2034	6180	60.79	60.83	60.90
2033	6180	60.78	60.83	60.89
2032	6180	60.78	60.82	60.88
2031	6180	60.78	60.82	60.88
2030	6180	60.78	60.82	60.88
2029	6180	60.78	60.82	60.87
2028	6180	60.78	60.81	60.86
2027	6180	60.78	60.81	60.85
2026	6180	60.77	60.80	60.84
2025	6180	60.77	60.79	60.83
2024	6180	60.77	60.79	60.81
2023	6180	60.76	60.78	60.80
2022	6180	60.76	60.77	60.79
2021	6180	60.75	60.76	60.77
2020	6180	60.75	60.76	60.76
2019	6180	60.75	60.75	60.75

Figure E1 – Manning’s n Sensitivity Analysis 1:100 Year Water Surface for Sections 3011 to 3001

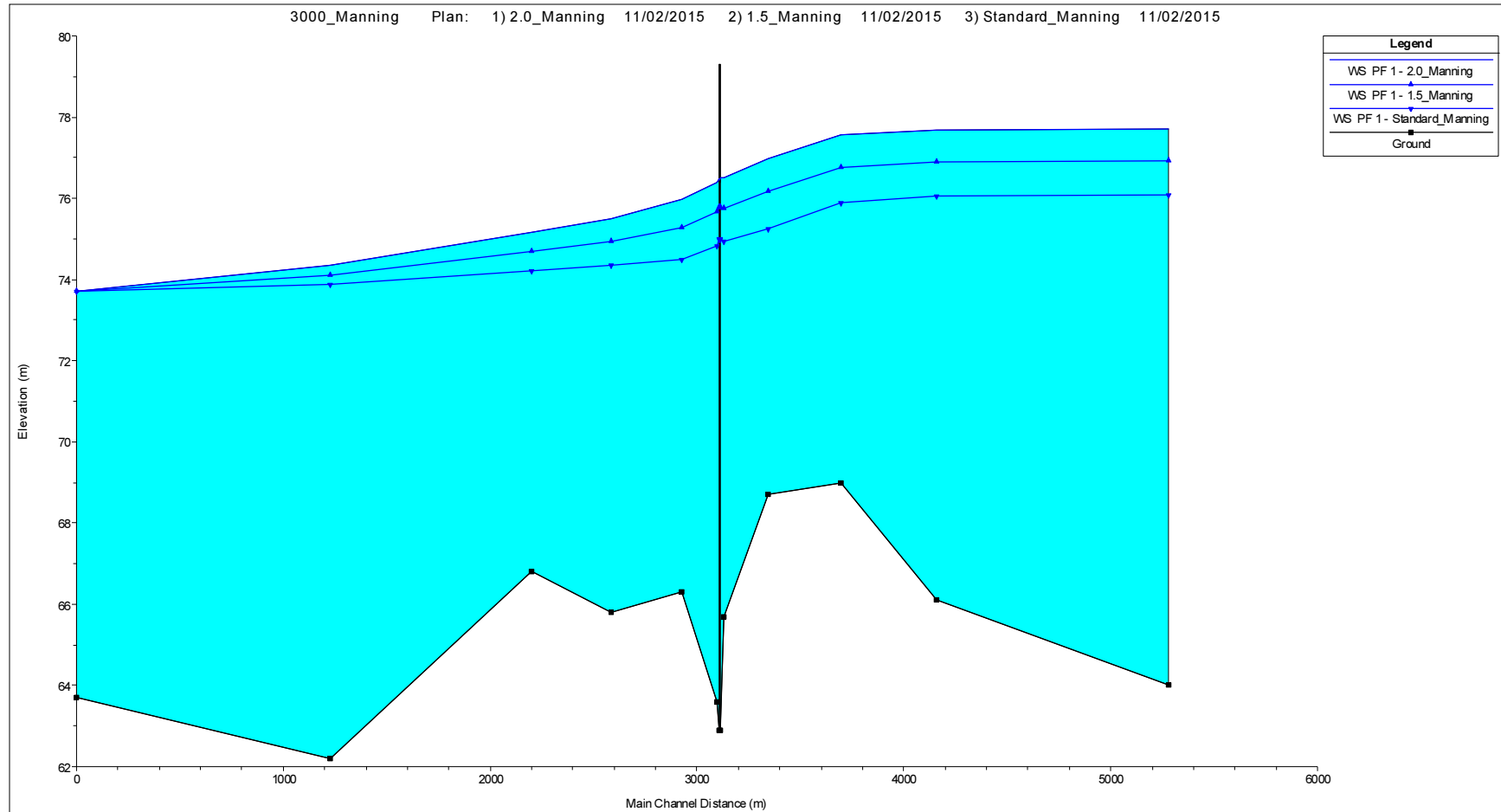


Figure E2 – Manning’s n Sensitivity Analysis 1:100 Year Water Surface for Sections 2059 to 2019

