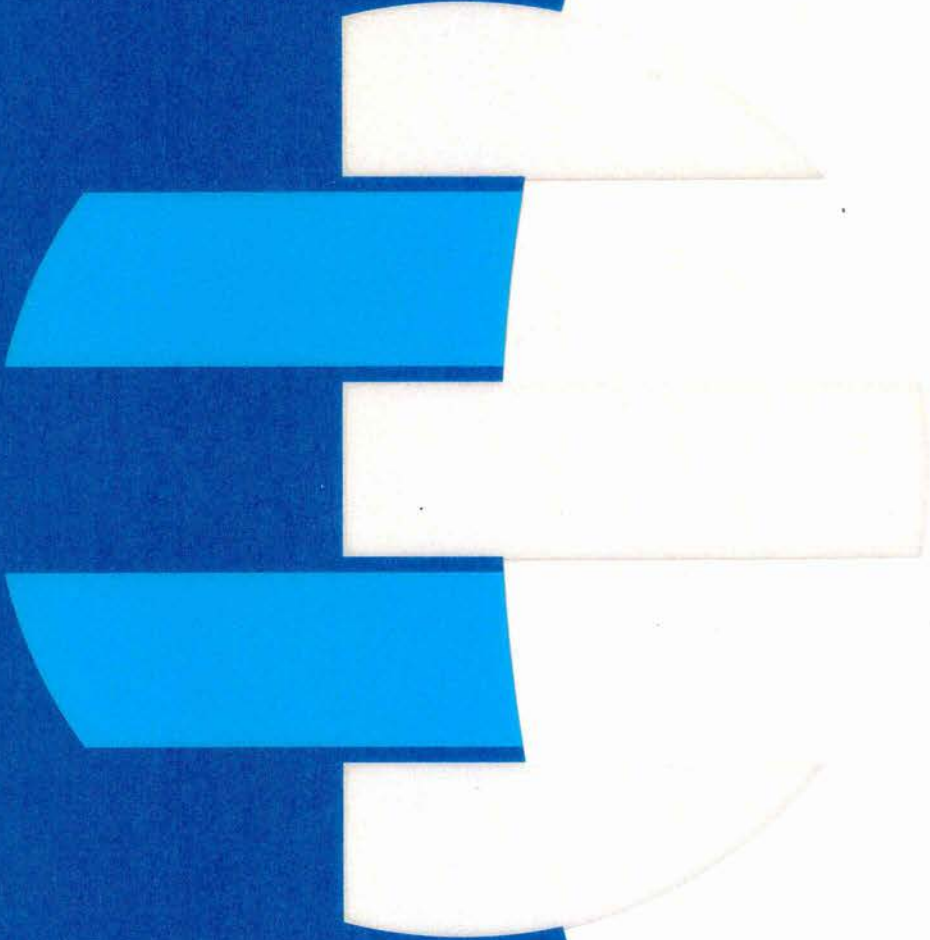




**Duffill Watts**  
Consulting Group



WESTERN BAY OF PLENTY DISTRICT COUNCIL

Omokoroa Structure Plan –  
Review of Flood Hazard Area Mapping

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Rev: 1

**Western Bay of Plenty District Council  
Omokoroa Structure Plan  
Review of Flood Hazard Areas**

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## 1.0 INTRODUCTION

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The Western Bay of Plenty District Council (WBOPDC) recognises an integral part of any development is the stormwater flow and potential flood hazard areas. This report outlines how the flood hazard areas have been determined for the Omokoroa Structure Plan Area. This information is crucial for making informed decisions regarding development on affected sites.

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## 2.0 REGULATORY INFORMATION

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### **Western Bay of Plenty Subdivision and Development Code of Practice – 2001 Edition**

The Subdivision and Development Code of Practice (COP) is in place to

*“maximise efficient use of resources to ensure that any development in the district is to an appropriate long term, cost effective and minimum uniform standard which benefits the community”.*

The COP outlines detailed requirements for the stormwater network. A summary of the main requirements that relate to the Structure Plan Area are as follows:

- The minimum design standard for a primary (piped) stormwater system in the District is a 5-year return period (20% AEP).
- The minimum design standard for stormwater systems to protect important recreation fields and streets without alternative access is a 10-year return period (10% AEP).
- The minimum design standard for stormwater systems to protect residential property, commercial and industrial buildings is a 50-year return period (2% AEP).
- The minimum design of stormwater systems to protect major communal facilities related to supply of electricity, telecommunications, and water and sewage disposal systems and bridges is a 100-year return period (1% AEP).



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### 3.0 MODELING METHODOLOGY AND INPUTS

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The WBOPDC data for the Omokoroa Structure Plan Area was adapted for the construction of a MOUSE (v2005) drainage model of the area. This method of analysis allows accurate representation of existing and future systems and is only limited by the accuracy of the data used.

The maximum development potential of the catchments in this model is based on zoning densities as documented in the Omokoroa Structure Plan. Information on the data inputted into the model is shown in Appendix B.

The annual exceedance probability (AEP) used was 2% (i.e. equivalent to a 50-year return period) to determine potential areas of flooding. The rainfall used in the model is based on a 1 in 50 year nested rainfall event calculated using the rainfall figures in the WBOPDC Code of Practice (2001). The hydrograph of this event is shown in Appendix B.

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### 4.0 ASSUMPTIONS

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The following assumptions were made in this modeling analysis;

- ◆ The development densities will not deviate from the structure plan zoning.
- ◆ The contour information contained on the WBOPDC GIS is accurate.
- ◆ The stormwater asset data information is accurate (e.g. manhole and pipe depths and sizes).
- ◆ Missing data is assumed based on surrounding asset data.

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### 5.0 MODELING OUTPUTS

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Appendices C and D show examples of model outputs used to determine floodable area.

Outputs include information on nodes indicating which areas flood in a 2% AEP (50 year return period) which is used to map the floodable areas. Appendix D shows examples of key cross sections showing the maximum water flow in the theoretical situation.

## APPENDIX A

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### Map of Floodable Areas





**LEGEND**

- Floodable Areas
- 2.4m** Flooding Level
- Omokoroa Community Boundary
- Property Boundaries & Numbers
- Upgraded SW Pipe System
- Existing SW Pipes
- Existing Major Contours

**KEY**

- Archaeological Sites (HPT Approval)
- Stormwater Catchment Boundary

**DRAFT**





## APPENDIX B

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### MOUSE Input Information

## Catchment Information

LOCATION	CATCHMENT ID	AREA (ha)	LENGTH	SLOPE %0	IMPERVIOUS AREA IN % - STEEP	IMPERVIOUS AREA IN % - FLAT	PERVIOUS AREA IN % - SMALL	PERVIOUS AREA IN % - MEDIUM	PERVIOUS AREA IN % - LARGE
RCO3	OM1	78.92	1560	4.42	0.5	0.5	0	99	0
RCO2	OM2	0	0	10	0.5	0.5	0	99	0
STR1	OM3	1.46	270	4.03	0	0	0	100	0
STR2	OM4	4.43	405	5.62	17.5	13.3	0	69.2	0
STR3	OM5	3.48	225	3.82	5	3.8	0	91.2	0
CO0892	OM6	3.58	243	4.94	2.5	1.9	0	95.6	0
CP1251	OM7	0.45	105	8.19	25	19	0	56	0
OMO21	OM8	1.06	120	8.33	25	19	0	56	0
SH0716	OM9	2.72	360	1.94	25	19	0	56	0
OMO22	OM10	1.86	210	3.33	25	19	0	56	0
OMO23	OM11	1.02	180	2	25	19	0	56	0
CI0813	OM12	0.56	174	2.24	25	19	0	56	0
MH1068	OM13	0.47	60	0.5	25	19	0	56	0
MH1070	OM14	0.44	30	1.33	25	19	0	56	0
MH1069	OM15	0.34	96	2.4	25	19	0	56	0
BX0762	OM16	0.68	114	5.35	25	19	0	56	0
STR5	OM17	2.44	297	2.73	1	1	0	98	0
BX0760	OM18	0.48	96	2.19	25	19	0	56	0
STR6	OM19	1.69	219	4.41	1.5	1.5	0	97	0
BX0758	OM20	1.05	180	0.67	25	19	0	56	0
STR7	OM21	3.28	330	3.03	1.5	1.5	0	97	0
CI0818	OM22	7.62	285	3.02	10	7.6	0	82.4	0
OMO24	OM23	0.48	138	5.07	0	70	0	30	0

LOCATION	CATCHMENT ID	AREA (ha)	LENGTH	SLOPE %0	IMPERVIOUS AREA IN % - STEEP	IMPERVIOUS AREA IN % - FLAT	PERVIOUS AREA IN % - SMALL	PERVIOUS AREA IN % - MEDIUM	PERVIOUS AREA IN % - LARGE
CI0811	OM24	0	0	0	0	0	0	100	0
STR9	OM25	2.82	183	2.19	25	19	0	56	0
OMO25	OM26	1.69	183	5.46	25	19	0	56	0
STR10	OM27	1.32	180	6.11	25	19	0	56	0
STR11	OM28	1.48	183	2.73	25	19	0	56	0
STR12	OM29	2.34	252	5.04	25	19	0	56	0
STR13	OM30	4.25	192	2.92	25	19	0	56	0
CO0896	OM31	2.31	186	1.32	25	19	0	56	0
MH1071	OM32	0.56	165	1.82	25	19	0	56	0
MH1073	OM33	1.08	129	1.71	25	19	0	56	0
MH1077	OM34	0.67	66	1.06	25	19	0	56	0
MH1076	OM35	0.28	90	0.56	25	19	0	56	0
MH1075	OM36	0.3	60	0.5	25	19	0	56	0
MH1074	OM37	0.41	123	0.98	25	19	0	56	0
CI0816	OM38	3.81	159	0.77	17	13	0	70	0
STR15	OM39	3.28	240	0.05	6	5	0	89	0
STR16	OM40	1.5	150	0.01	0	0	0	100	0
OMO26	OM41	1.64	195	6.31	25	19	0	56	0
MH1057	OM42	1.38	168	3.63	12.5	9.5	0	78	0
OMO29	OM43	5.07	291	3.57	8	6	0	86	0
OMO30	OM44	1.64	225	5.82	12.5	9.5	0	78	0
MH1061	OM45	2.1	168	5.36	0	0.5	0	99.5	0
MH1065	OM46	2.2	129	4.11	25	19	0	56	0
CO0888	OM47	1.43	153	1.37	25	19	0	56	0
STR18	OM48	5.42	210	0.6	8	6	0	86	0
OMO31	OM49	1.16	228	6.89	25	19	0	56	0
OMO32	OM50	0.9	153	0.2	25	19	0	56	0
OMO33	OM51	1.5	246	7.4	25	19	0	56	0
BX0757	OM52	4.54	303	7.99	25	19	0	56	0

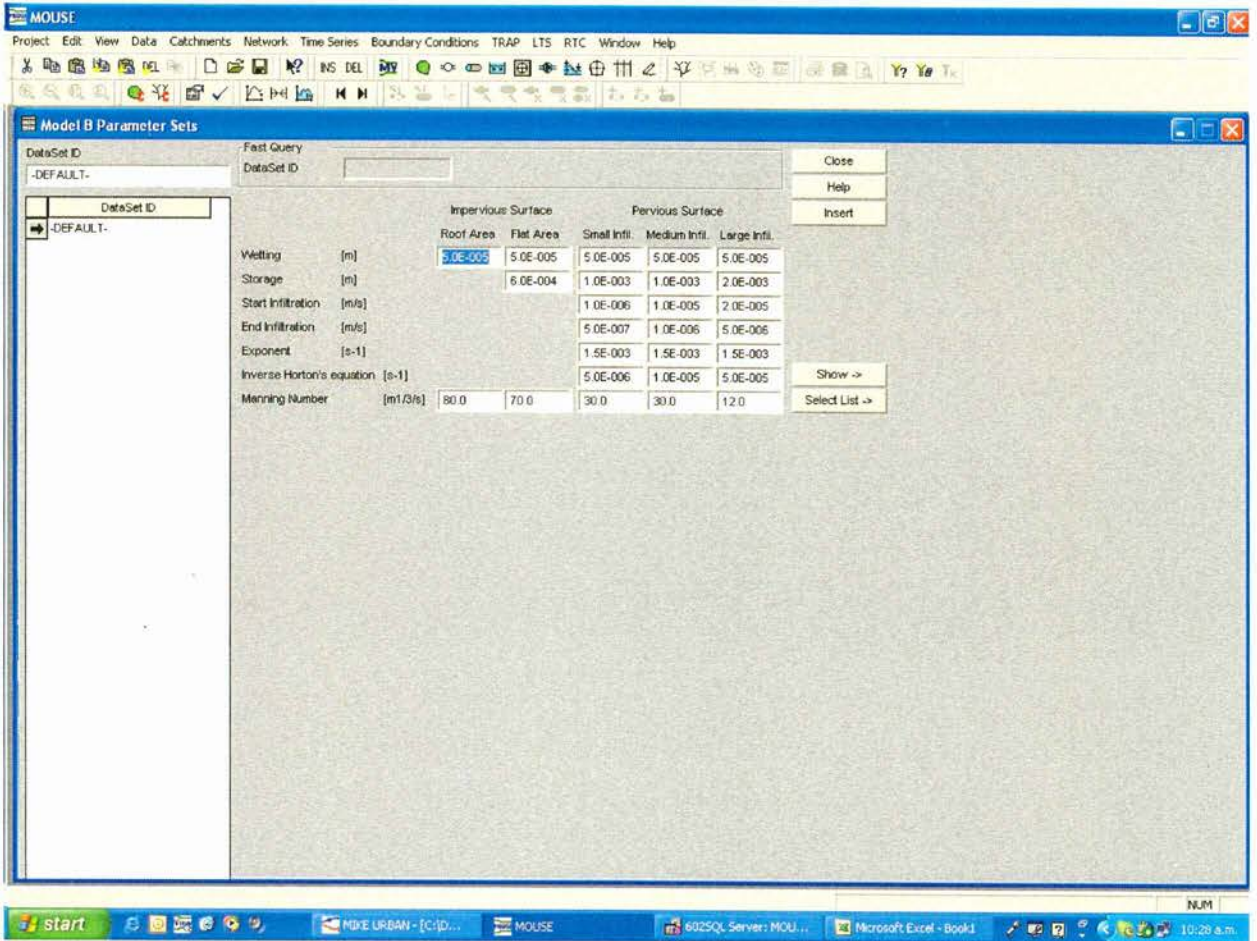


LOCATION	CATCHMENT ID	AREA (ha)	LENGTH	SLOPE %0	IMPERVIOUS AREA IN % - STEEP	IMPERVIOUS AREA IN % - FLAT	PERVIOUS AREA IN % - SMALL	PERVIOUS AREA IN % - MEDIUM	PERVIOUS AREA IN % - LARGE
BX0756	OM53	5.42	165	4.24	25	19	0	56	0
STR31	OM54	2.82	210	5.95	25	19	0	56	0
OMO15	OM55	3.04	315	2.86	0	0	0	100	0
STR21	OM56	0.81	120	7.92	25	19	0	56	0
MH1810	OM57	0.11	69	1.3	25	19	0	56	0
STR22	OM58	2.53	165	0.85	25	19	0	56	0
OMO35	OM59	2.05	300	3.93	25	19	0	56	0
OMO36	OM60	1.36	180	7.22	25	19	0	56	0
OMO37	OM61	0.62	180	5.83	25	19	0	56	0
OMO38	OM62	2.17	246	4.47	25	19	0	56	0
OMO39	OM63	1.42	120	3.33	25	19	0	56	0
STR23	OM64	4.03	210	3.67	25	19	0	56	0
MH1809	OM65	0.17	60	4	25	19	0	56	0
MH1808	OM66	0.51	114	2.63	25	19	0	56	0
OMO16	OM67	0.81	111	0.14	10	8	0	82	0
OMO2	OM68	1.41	204	8.63	25	19	0	56	0
OMO4	OM69	1.01	150	9.87	25	19	0	56	0
OMO50	OM70	0.47	78	17.31	25	19	0	56	0
OMO6	OM71	2.79	153	5.88	30	23	0	47	0
MH1854	OM72	0.27	111	4.95	25	19	0	56	0
CP2502	OM73	0.22	81	4.81	25	19	0	56	0
MH1853	OM74	0.12	63	5.87	25	19	0	56	0
MH2091	OM75	0.58	129	11.94	25	19	0	56	0
CI0810	OM76	1.35	132	7.95	25	19	0	56	0
OMO9	OM77	0.8	180	10.39	25	19	0	56	0
OMO11	OM78	1.75	195	9.23	25	19	0	56	0
PRE1	OM79	0.99	120	4.33	35	25	0	40	0
PRE3	OM80	2.6	210	6.95	25	19	0	56	0
PRE9	OM81	2.27	255	5.69	25	19	0	56	0

LOCATION	CATCHMENT ID	AREA (ha)	LENGTH	SLOPE %0	IMPERVIOUS AREA IN % - STEEP	IMPERVIOUS AREA IN % - FLAT	PERVIOUS AREA IN % - SMALL	PERVIOUS AREA IN % - MEDIUM	PERVIOUS AREA IN % - LARGE
BX0754	OM82	0.65	135	8.81	25	19	0	56	0
CO2781	OM83	0.37	171	6.43	25	19	0	56	0
OMO18	OM84	1.74	138	5.07	30	23	0	47	0
OMO19	OM85	1.29	186	3.23	35	30	0	35	0
PRE5	OM86	2.29	165	3.64	25	19	0	56	0
OMO41	OM87	1.39	273	0.51	25	19	0	56	0
PRE POND	OM88	2.84	270	5.19	25	19	0	56	0
OMO42	OM89	1.53	123	6.02	25	19	0	56	0
OMO43	OM90	1.05	150	8.67	25	19	0	56	0
MH1052	OM91	0.19	90	10.78	25	19	0	56	0
MH1049	OM92	0.3	126	6.07	25	19	0	56	0
MH1047	OM93	0.35	99	3.94	25	19	0	56	0
MH1048	OM94	0.61	60	8.5	25	19	0	56	0
MH1055	OM95	1.57	270	4.37	25	19	0	56	0
MH1054	OM96	0.78	96	5.83	25	19	0	56	0
MH1042	OM97	0.71	123	10.33	25	19	0	56	0
MH1043	OM98	0.73	105	14.48	25	19	0	56	0
MH1044	OM99	0.2	105	3.52	25	19	0	56	0
OMO44	OM100	1.77	261	1.72	25	19	0	56	0
OMO46	OM101	2.79	276	2.07	25	19	0	56	0
OMO47	OM102	0.92	174	3.45	25	19	0	56	0
OMO49	OM103	0.9	135	4.81	25	19	0	56	0



## Model Settings

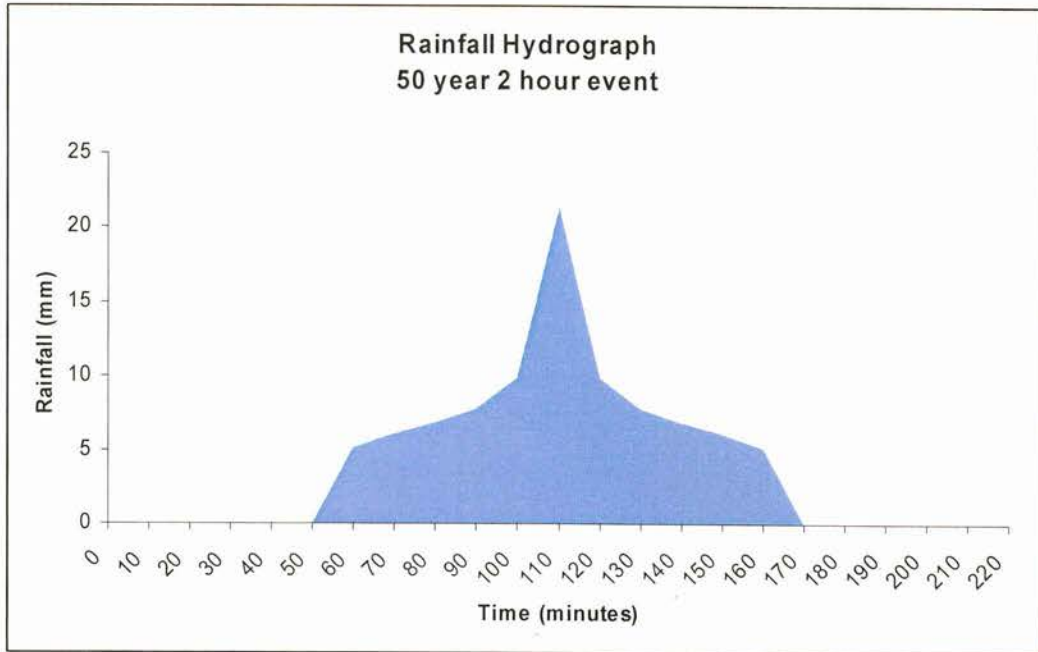


The screenshot shows the MOUSE software interface with the 'Model B Parameter Sets' dialog box open. The dialog box contains a table of parameters for 'Impervious Surface' and 'Pervious Surface'. The 'Impervious Surface' section includes 'Wetting', 'Storage', 'Start Infiltration', 'End Infiltration', 'Exponent', and 'Inverse Horton's equation'. The 'Pervious Surface' section includes 'Small Infil.', 'Medium Infil.', and 'Large Infil.'. The 'Manning Number' is also listed at the bottom.

Parameter	Impervious Surface		Pervious Surface		
	Roof Area	Flat Area	Small Infil.	Medium Infil.	Large Infil.
Wetting [m]	5.0E-005	5.0E-005	5.0E-005	5.0E-005	5.0E-005
Storage [m]		6.0E-004	1.0E-003	1.0E-003	2.0E-003
Start Infiltration [m/s]			1.0E-006	1.0E-005	2.0E-005
End Infiltration [m/s]			5.0E-007	1.0E-006	5.0E-006
Exponent [s-1]			1.5E-003	1.5E-003	1.5E-003
Inverse Horton's equation [s-1]			5.0E-006	1.0E-005	5.0E-005
Manning Number [m <sup>1/3</sup> /s]	80.0	70.0	30.0	30.0	12.0



## Rainfall Hydrograph



## APPENDIX C

---

### MOUSE Output Information – Computation Results

## Extracts from MOUSE HD Computation Engine v2005 Release Version (2005.08.28.1742)

### Input Summary

Number of Manholes:	433
Number of Basins:	8
Number of Outlets:	14
Number of Storage Nodes:	0
Number of Circular Pipes:	326
Number of Rectangular pipes:	2
Number of CRS defined pipes:	113
Number of Pumps:	0
Number of Controlled Pumps:	0
Number of Weirs/Orifices:	80
Number of Controlled Weirs/Gates:	0

### Nodes

Min Invert Level	CO0903	-0.30 m
Max Invert Level	CP1179	33.40 m
Min Ground Level	CO0897	1.00 m
Max Ground Level	MH0991	34.15 m
Min X Coordinate	RCO1	2.7764E06 m
Max X Coordinate	CP1206	2.7789E06 m
Min Y Coordinate	RCO5	6.3897E06 m
Max Y Coordinate	MH1014	6.3916E06 m
Total Manhole Volume		678.3 m3
Total Basin Volume		14300.5 m3



**Links**

Total Circular Volume	2397.2 m <sup>3</sup>
Total CRS Volume	505873.1 m <sup>3</sup>
Total Length	23162.2 m

**Time Step Parameters**

INI file :	C:\Program Files\DHIMOUSE 2005\Bin\DHAPP.INI
Relative change criteria for inflow time series :	0.100
Low flow limit for inflow time series :	0.010
Maximum relative water level change :	0.100
Maximum variation in Cross Section parameters :	0.100
Cross check low depth limit (relative) :	0.040
Cross check level :	1.000
Maximum Courant Number :	20.000

## Continuity Balance

<b>1</b>	<b>Start volume in Pipes, Manholes and Structures</b>		<b>28.9 m3</b>
<b>2</b>	<b>End volume in Pipes, Manholes and Structures</b>		<b>66174.8 m3</b>
<b>3</b>	<b>Total inflow volume</b>		
	3.1 Runoff :	194326.7 m3	
	3.2 Boundary :	0.0 m3	
	3.3 DWF :	0.0 m3	
	3.4 Outlets (inflow) :	0.0 m3	
	3.5 Infiltration :	0.0 m3	
		<b>194326.7 m3</b>	<b>194326.7 m3</b>
			-->
<b>4</b>	<b>Total diverted volume</b>		
	4.1 Weirs :	22935.7 m3	
	4.2 Pumps :	0.0 m3	
	4.3 Spilling nodes :	0.0 m3	
	4.4 Outlets :	106655.4 m3	
		<b>129591.1 m3</b>	<b>129591.1 m3</b>
			-->
<b>5</b>	<b>Water generated in empty parts of the system :</b>		<b>659.0 m3</b>
<b>6</b>	<b>Continuity Balance = (2-1) - (3-4+5) :</b>		<b>751.2 m3</b>
	Continuity Balance max value :	1060.1 m3	
	Continuity Balance min value :	0.0 m3	

## Nodes - Water level

G : Max level exceeds ground level  
 W : Max level exceeds weir crest level  
 C : Max level exceeds critical level

	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
CP1154	30.84	30.84	31.84	-1.00	
CP1155	30.69	30.69	31.82	-1.13	
SH0711	30.63	30.63	32.00	-1.37	
SH0712	30.21	30.21	32.04	-1.83	
SH0713	28.47	28.47	29.88	-1.41	
MH1727	26.98	26.98	28.11	-1.13	
JN0857	22.64	22.64	23.65	-1.01	
CO0088	2.96	2.96	4.75	-1.79	
CP2402	21.99	22.04	23.01	-0.97	
CI0807	1.37	1.39	2.04	-0.65	
MH1030	1.19	1.21	2.21	-1.00	
CO0878	5.20	5.21	5.53	-0.32	
MH1084	4.31	4.31	5.75	-1.44	
CP1206	0.58	0.59	2.21	-1.62	
CO0899	5.72	5.73	6.35	-0.62	
CI0806	5.68	5.68	6.01	-0.33	
MH1031	9.23	9.23	10.82	-1.59	
CP1205	4.53	4.53	5.53	-1.00	
CO0879	0.44	0.45	1.32	-0.87	
CI0815	5.91	5.92	6.56	-0.64	
CP1207	9.54	9.54	10.54	-1.00	
MH1081	15.75	15.75	16.77	-1.02	
CO0870	6.17	6.18	6.92	-0.74	
MH0997	8.63	8.63	14.13	-5.50	
CO0871	6.37	6.38	7.14	-0.76	
MH0996	13.96	13.96	15.87	-1.91	
CP1184	12.84	12.84	13.87	-1.03	
MH0999	9.58	9.58	11.45	-1.87	
CO0876	12.57	12.58	12.90	-0.32	
MH1004	20.17	20.17	21.55	-1.38	
MH0995	18.02	18.02	19.39	-1.37	
CP1183	12.86	12.86	13.86	-1.00	
MH0998	15.69	15.69	17.69	-2.00	
MH1010	16.39	16.39	18.86	-2.47	
CI0805	13.35	13.35	13.72	-0.37	
MH0992	27.97	27.97	29.99	-2.02	
MH1003	21.79	21.79	25.53	-3.74	
MH0994	22.46	22.46	23.61	-1.15	
CP1188	16.32	16.32	17.46	-1.14	
CP1186	16.34	16.34	17.49	-1.15	
MH1000	20.92	20.92	22.17	-1.25	
MH1009	18.86	18.86	21.62	-2.76	
MH0990	29.22	29.22	30.56	-1.34	
CP1182	29.31	29.31	29.92	-0.61	
MH1001	21.92	21.92	24.77	-2.85	



	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
MH0993	28.19	28.19	29.59	-1.40	
CP1187	16.47	16.47	17.47	-1.00	
CP1185	16.48	16.48	17.48	-1.00	
CP1189	20.63	20.67	21.63	-0.96	
MH1008	19.66	19.66	20.77	-1.11	
MH0989	32.26	32.26	33.38	-1.12	
MH0991	32.76	32.76	34.15	-1.39	
CP1181	28.93	28.99	29.93	-0.94	
MH1002	22.14	22.14	24.05	-1.91	
CP1194	20.42	20.42	21.33	-0.91	
CP1196	20.66	20.66	21.17	-0.51	
MH1007	24.48	24.48	25.87	-1.39	
CP1180	33.05	33.05	33.96	-0.91	
MH1012	25.57	25.57	27.77	-2.20	
CP1193	20.43	20.43	21.43	-1.00	
CP1195	20.26	20.32	21.26	-0.94	
CP1179	33.40	33.40	34.01	-0.61	
MH1006	26.05	26.05	27.24	-1.19	
MH1011	31.55	31.55	32.95	-1.40	
MH1005	31.01	31.01	32.41	-1.40	
CP1192	27.49	27.49	28.49	-1.00	
CP1198	31.96	31.96	32.87	-0.91	
CP1191	31.19	31.19	32.19	-1.00	
CP1190	31.17	31.17	32.17	-1.00	
CP1197	31.85	31.89	32.85	-0.96	
OMO46	15.80	18.00	17.30	0.70	G
SH0719	15.00	16.66	16.16	0.50	G
CP1243	14.92	16.21	15.92	0.29	G
CP1244	14.80	15.85	15.93	-0.08	
SH0720	13.95	15.47	16.18	-0.71	
SH0718	17.50	19.09	19.74	-0.65	
OF4	15.53	15.66	16.03	-0.37	
OMO22	13.07	14.88	15.90	-1.02	
SH0716	20.65	22.70	22.65	0.05	G W
OF3	19.10	19.22	19.60	-0.38	
CP1242	18.32	19.09	19.32	-0.23	
OF5	13.08	13.21	13.58	-0.37	
OMO23	12.07	13.76	13.73	0.03	G W
OF2	22.00	22.12	22.50	-0.38	
CP1240	21.45	22.70	22.45	0.25	G
OMO45	21.30	23.43	23.00	0.43	G
CP1241	18.32	19.09	19.32	-0.23	
OF6	10.53	10.67	11.03	-0.36	
CI0813	9.57	11.28	11.10	0.18	G
CP1245	12.73	13.76	13.73	0.03	G
OF1	25.40	25.53	25.90	-0.37	
CP1239	21.42	22.70	22.42	0.28	G
OMO44	24.50	26.04	26.00	0.04	G W
SH0717	17.91	19.09	19.91	-0.82	
MH1068	9.32	10.31	11.13	-0.82	
OF7	6.83	6.97	7.33	-0.36	
CP1246	12.88	13.76	13.88	-0.12	
SH0715	20.95	22.70	22.95	-0.25	
MH1069	6.99	7.89	8.33	-0.44	

	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
CP1252	9.91	10.31	10.91	-0.60	
CI0812	0.76	1.82	2.72	-0.90	
SH0721	12.14	13.76	14.14	-0.38	
MH1070	9.22	10.17	10.58	-0.41	
OMO52	1.20	3.12	3.50	-0.38	
CP1247	7.70	7.89	8.70	-0.81	
CO0891	0.57	1.82	2.59	-0.77	
CO0892	1.02	1.84	1.52	0.32	G
OF8	10.05	10.06	10.50	-0.44	
CP1253	9.30	10.17	10.17	0.00	
CP1255	9.33	10.17	10.19	-0.02	
STR4	0.55	1.82	2.50	-0.68	
CP1250	1.67	2.41	2.39	0.02	G W
OMO21	1.00	2.03	2.00	0.03	G W
STR3	1.77	2.82	2.50	0.32	G
MH1067	1.04	2.07	3.03	-0.96	
OF9	9.50	9.51	10.00	-0.49	
CP1254	9.35	10.17	10.17	0.00	G
CP1256	9.35	10.17	10.17	0.00	G
CI0820	0.39	1.82	2.99	-1.17	
CO0890	1.22	1.82	2.19	-0.37	
CP1249	1.81	2.41	2.38	0.03	G
CP1251	1.58	2.70	2.42	0.28	G
STR2	2.90	3.69	4.00	-0.31	
STR17	11.00	11.01	16.00	-4.99	
OF10	8.72	8.73	9.22	-0.49	
CO0904	0.29	1.75	2.89	-1.14	
CP1248	1.85	2.41	2.38	0.03	G
RCO4	4.75	5.36	13.00	-7.64	
STR1	19.00	19.31	20.75	-1.44	
OF15	8.00	8.17	8.23	-0.06	
MH1071	8.12	8.98	9.32	-0.34	
CI0819	-0.08	1.75	2.47	-0.72	
RCO3	5.00	7.55	13.00	-5.45	
MH1073	6.84	8.17	8.01	0.16	G W
MH1074	6.39	6.96	8.33	-1.37	
CO0895	2.20	2.81	2.79	0.02	G
OF14	8.60	8.61	8.90	-0.29	
MH1072	7.37	8.48	8.46	0.02	G
CP1258	8.16	8.98	9.16	-0.18	
CP1257	8.20	8.98	9.20	-0.22	
CO0903	-0.30	1.78	2.55	-0.77	
MH1078	3.82	4.21	4.92	-0.71	
CP1260	7.00	8.17	7.87	0.30	G
CP1261	6.85	8.17	7.85	0.32	G
MH1075	7.02	7.80	8.96	-1.16	
MH1079	2.24	3.17	3.25	-0.08	
CI0816	0.73	2.14	1.26	0.88	G W
CO0896	2.30	3.01	3.00	0.01	G
CP1259	7.50	8.48	8.22	0.26	G
STR5	0.75	1.78	1.20	0.58	G
MH1076	7.16	8.05	8.56	-0.51	
CP1262	7.78	7.80	8.78	-0.98	
CO0900	0.60	2.13	1.09	1.04	G



	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
OF16	7.92	7.93	8.42	-0.49	
OMO48	3.95	4.28	5.90	-1.62	
STR6	0.75	1.77	1.30	0.47	G
CO0897	0.40	1.78	1.00	0.78	G
CP1264	7.40	8.12	8.38	-0.26	
OF13	8.20	8.21	8.50	-0.29	
CP1263	7.38	8.05	8.39	-0.34	
STR14	0.60	2.13	1.00	1.13	G
STR32	4.00	5.21	6.00	-0.79	
STR7	0.75	1.75	1.20	0.55	G
CO0894	1.88	2.07	2.09	-0.02	
BX0763	0.46	2.12	1.46	0.66	G
MH1077	7.48	8.32	8.29	0.03	G W
STR15	0.60	2.09	1.00	1.09	G
STR13	4.50	5.35	9.00	-3.65	
OF12	2.00	2.19	3.00	-0.81	
STR8	0.75	1.60	1.20	0.40	G
CO0893	2.53	2.78	3.53	-0.75	
BX0761	5.57	5.84	6.79	-0.95	
BX0762	2.90	3.51	3.90	-0.39	
OF11	6.50	6.70	7.00	-0.30	
CP1266	7.60	8.32	8.07	0.25	G
CP1265	7.60	8.32	8.11	0.21	G
STR16	0.58	2.04	1.00	1.04	G
STR11	9.50	11.14	14.00	-2.86	W
STR12	9.00	9.62	11.00	-1.38	
OF69	10.50	11.14	14.00	-2.86	
CI0818	0.75	1.52	1.44	0.08	G W
BX0759	6.70	6.98	7.70	-0.72	
BX0760	5.94	6.38	6.94	-0.56	
STR33	1.60	3.03	3.00	0.03	G W
CI0817	0.56	2.00	1.61	0.39	G W
STR18	1.50	2.09	2.00	0.09	G
STR10	14.00	15.60	20.00	-4.40	W
OMO47	12.00	13.52	13.50	0.02	G W
OF68	15.00	15.59	20.00	-4.41	
CO0902	0.69	1.44	1.69	-0.25	
BX0758	6.79	8.21	7.79	0.42	G
OF24	4.13	4.59	4.63	-0.04	
CO0888	1.96	3.03	2.59	0.44	G
CO0901	0.41	1.98	1.69	0.29	G
STR9	16.00	17.72	24.00	-6.28	
OMO25	19.50	20.16	21.00	-0.84	
OF67	22.00	22.01	26.00	-3.99	
MH1065	3.04	4.83	4.73	0.10	G W
OF23	9.42	9.58	9.92	-0.34	
MH1066	2.38	3.74	4.56	-0.82	
STR28	0.01	1.42	1.00	0.42	G
OMO16	0.15	2.17	1.80	0.37	G
CO0889	21.01	21.64	26.00	-4.36	
MH1064	4.00	5.91	5.59	0.32	G
CP1238	3.42	4.83	4.42	0.41	G
MH1061	8.38	10.04	10.00	0.04	G W
OF22	10.35	10.47	10.85	-0.38	

	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
OF21	11.49	11.64	11.99	-0.35	
STR27	0.03	1.44	1.45	-0.01	
STR OUT	0.00	1.21	1.00	0.21	G
STR24	0.12	2.17	1.87	0.30	G
OMO17	0.10	1.60	1.77	-0.17	
OMO24	23.34	23.55	27.00	-3.45	
CI0811	22.21	24.85	22.54	2.31	G
CP1237	4.74	5.91	5.41	0.50	G
MH1063	5.60	7.34	7.50	-0.16	
MH1060	10.49	11.87	11.99	-0.12	
CP1235	9.00	10.25	9.95	0.30	G
MH1062	6.50	8.40	8.14	0.26	G
CP1233	9.01	10.04	10.01	0.03	G
CP1234	9.20	10.04	9.83	0.21	G
OMO30	9.50	10.94	10.90	0.04	G W
OF20	16.00	16.15	16.50	-0.35	
STR26	0.05	1.60	1.50	0.10	G
STR23	0.30	2.17	1.90	0.27	G
CO1307	0.15	2.17	1.15	1.02	G
STR25	0.08	1.60	1.95	-0.35	
CP1236	4.90	5.91	5.40	0.51	G
MH1059	11.90	13.45	13.19	0.26	G
OMO29	15.10	16.69	16.60	0.09	G W
OF19	19.60	19.70	20.10	-0.40	
STR22	0.60	2.19	2.00	0.19	G
STR34	3.00	4.01	5.00	-0.99	
OF30	4.10	4.11	4.60	-0.49	
MH1808	3.50	4.66	4.94	-0.28	
CP1232	12.25	13.45	12.98	0.47	G
MH1058	15.90	17.45	17.13	0.32	G
MH1057	19.18	20.22	20.18	0.04	G W
OF18	26.10	26.21	26.60	-0.39	
STR21	2.00	2.94	4.00	-1.06	
CO1308	0.98	2.19	1.98	0.21	G
OMO40	3.50	4.06	5.00	-0.94	
OF29	7.00	7.01	7.50	-0.49	
JN0858	3.65	4.66	4.75	-0.09	
MH1809	4.87	6.09	5.87	0.22	G
CP1231	12.50	13.45	12.98	0.47	G
CP1230	16.15	17.37	16.86	0.51	G
CP1228	19.26	20.22	19.94	0.28	G
OMO28	19.70	21.12	21.20	-0.08	
OF17	26.60	26.70	27.10	-0.40	
STR31	3.07	4.34	6.00	-1.66	
OMO15	6.00	6.48	8.00	-1.52	
MH1810	6.57	6.71	7.57	-0.86	
OMO39	6.50	8.05	8.00	0.05	G W
OF35	7.40	7.79	7.90	-0.11	
CP2312	3.69	4.66	4.69	-0.03	
CP2313	3.69	4.66	4.69	-0.03	
CP1229	16.40	17.37	16.89	0.48	G
CP1227	19.40	20.22	19.96	0.26	G
OMO27	24.50	25.41	26.70	-1.29	
OMO26	26.50	28.02	28.00	0.02	G W



	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
STR20	3.20	4.41	6.00	-1.59	
OMO49	8.50	8.91	10.00	-1.09	
CP2314	6.80	6.80	7.57	-0.77	
CP2315	7.00	7.00	7.57	-0.57	
OMO37	10.50	11.42	12.00	-0.58	
OMO38	8.50	10.03	10.00	0.03	G W
OF33	11.40	11.54	11.90	-0.36	
OF34	9.40	9.56	9.90	-0.34	
CO0886	3.28	4.41	6.30	-1.89	
STR19	9.00	9.82	12.00	-2.18	
OMO36	11.50	13.02	13.00	0.02	G W
OMO35	15.00	16.55	16.50	0.05	G W
OF32	12.40	12.49	12.90	-0.41	
OF31	15.90	16.08	16.40	-0.32	
MH1056	6.44	7.99	9.71	-1.72	
OF28	6.00	6.51	9.71	-3.20	
CO0887	10.69	11.46	13.19	-1.73	
BX0756	10.02	11.07	11.02	0.05	G W
CP1226	10.26	10.26	11.26	-1.00	
OF27	14.35	14.79	14.80	-0.01	
BX0757	12.31	14.92	14.90	0.02	G W
OF26	18.67	18.78	19.12	-0.34	
OMO34	17.11	18.03	21.50	-3.47	
OF65	18.80	18.92	19.10	-0.18	
OMO33	20.50	21.04	22.00	-0.96	
OMO32	17.55	19.20	19.20	0.00	G W
OF25	19.00	19.15	19.45	-0.30	
OMO31	18.20	19.53	19.50	0.03	G W
GOLF OUTLET	0.55	0.79	1.20	-0.41	
GOLF POND	0.72	1.18	1.75	-0.57	
PRE8	0.82	1.91	1.75	0.16	G
PRE7	0.99	1.91	2.25	-0.34	
PRE POND	1.20	2.75	2.50	0.25	G W
PRE6	1.28	2.84	2.32	0.52	G
OF51	2.05	2.75	3.05	-0.30	
SWALE3	2.00	2.58	2.50	0.08	G
PRE5	1.33	2.84	2.09	0.75	G W
OMO41	6.20	6.65	7.70	-1.05	
OF49	2.09	2.83	3.09	-0.26	
OF50	7.10	7.11	7.60	-0.49	
SWALE1	1.93	2.41	2.20	0.21	G
PRE4	1.41	2.91	2.15	0.76	G
OMO20	3.00	4.46	4.50	-0.04	
OF45	2.15	2.92	3.15	-0.23	
OF66	4.25	4.39	4.75	-0.36	
SWALE2	0.90	1.64	1.50	0.14	G W
OMO43	3.10	4.44	4.00	0.44	G
PRE3	1.46	2.93	2.42	0.51	G W
OMO19	5.00	6.55	6.50	0.05	G W
OF44	3.75	4.22	4.75	-0.53	
PRE9	1.75	2.87	2.75	0.12	G
OF48	5.90	6.04	6.40	-0.36	
OUTLET1	0.83	1.08	1.00	0.08	G
OMO42	14.00	14.51	14.90	-0.39	

	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
PRE2	1.93	3.79	2.95	0.84	G
OMO18	8.80	10.06	10.00	0.06	G W
PRE1	2.15	4.93	4.75	0.18	G W
OMO14	5.43	5.78	6.43	-0.65	
OF47	9.40	9.54	9.90	-0.36	
CO0873	12.45	12.76	12.78	-0.02	
CO0874	16.98	17.38	17.98	-0.60	
OMO12	4.66	6.87	8.83	-1.96	
OF63	6.80	7.52	8.50	-0.98	
MH1029	13.05	13.38	13.80	-0.42	
BX0754	21.08	21.44	22.08	-0.64	
OMO11	6.18	9.43	9.38	0.05	G W
CO0885	5.30	7.66	8.05	-0.39	
OF64	7.50	8.19	8.05	0.14	G
CI0804	14.36	14.62	14.76	-0.14	
OF46	21.48	21.49	21.98	-0.49	
OF42	8.78	8.91	9.28	-0.37	
OMO10	10.27	10.88	13.00	-2.12	
CI0810	7.19	8.26	9.53	-1.27	
OMO51	6.41	8.30	8.26	0.04	G W
OF43	7.70	8.19	8.16	0.03	G
CO2781	20.40	20.66	22.00	-1.34	
OF37	15.90	15.91	16.40	-0.49	
OF41	15.90	15.91	16.40	-0.49	
OMO9	15.15	15.54	16.50	-0.96	
MH2097	7.33	8.30	9.07	-0.77	
OMO7	7.79	9.74	9.04	0.70	G
OF39	8.44	8.62	8.94	-0.32	
OF40	18.71	18.89	19.21	-0.32	
BX1007	29.80	29.80	30.65	-0.85	
OF38	13.16	13.28	13.66	-0.38	
OMO50	15.00	16.35	16.50	-0.15	
OMO8	15.50	15.54	16.95	-1.41	
MH2096	8.98	9.36	10.76	-1.40	
CP2841	7.91	8.30	8.91	-0.61	
CP2840	7.92	8.30	8.92	-0.62	
OMO6	8.11	10.57	10.50	0.07	G W
MH2091	18.50	19.88	19.84	0.04	G W
CP2919	30.10	30.10	31.00	-0.90	
OMO4	11.83	14.21	14.17	0.04	G W
OF36	15.78	15.93	16.28	-0.35	
OMO5	11.24	13.71	13.76	-0.05	
MH2095	11.06	11.36	12.73	-1.37	
MH1851	27.50	27.85	28.93	-1.08	
MH1855	24.00	24.18	27.78	-3.60	
MH2092	17.90	18.47	19.56	-1.09	
OMO3	12.42	14.33	14.25	0.08	G
OMO2	14.72	16.43	16.38	0.05	G W
MH2094	11.98	12.31	13.98	-1.67	
CP2502	28.09	28.40	29.09	-0.69	
MH1852	27.81	28.65	29.44	-0.79	
MH1853	26.17	26.37	31.49	-5.12	
MH2093	17.10	17.40	19.31	-1.91	
OMO1	15.00	16.43	16.20	0.23	G



	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
OF54	28.50	28.57	29.00	-0.43	
CP2501	28.41	28.41	29.41	-1.00	
MH1854	28.93	29.74	29.73	0.01	G W
OF52	30.89	30.90	31.39	-0.49	
OF55	24.55	24.60	25.04	-0.44	
OF53	29.13	29.23	29.63	-0.40	
MH1047	24.34	24.70	25.14	-0.44	
OF56	19.38	19.51	19.88	-0.37	
MH1048	18.72	20.00	19.98	0.02	G W
CP1219	24.89	24.89	25.89	-1.00	
CP1218	24.68	24.70	25.68	-0.98	
OF58	13.77	13.86	14.27	-0.41	
MH1051	17.72	18.50	18.82	-0.32	
CP1221	19.07	20.00	20.07	-0.07	
CP1220	18.93	20.00	19.93	0.07	G
MH1054	11.79	12.47	14.37	-1.90	
OF57	12.60	13.16	13.10	0.06	G
OF59	3.60	3.64	4.10	-0.46	
MH1050	17.96	18.79	20.09	-1.30	
MH1053	13.94	15.44	15.17	0.27	G
MH1055	12.08	13.20	13.16	0.04	G W
CP1223	13.47	13.47	14.47	-1.00	
CO0884	3.69	4.03	4.10	-0.07	
CP1222	13.63	13.63	14.63	-1.00	
MH1049	18.16	19.24	20.35	-1.11	
CP1225	12.12	13.20	13.09	0.11	G
CP1224	12.25	13.20	12.93	0.27	G
MH1052	18.33	19.33	19.30	0.03	G
MH1912	17.48	17.56	18.95	-1.39	
MH1911	18.57	18.57	20.75	-2.18	
MH1910	19.65	19.65	21.49	-1.84	
MH1909	20.44	20.44	22.38	-1.94	
MH1908	21.09	21.09	23.69	-2.60	
MH1907	22.09	22.12	23.29	-1.17	
CP2662	22.35	22.35	22.95	-0.60	
CP2663	22.39	22.39	22.99	-0.60	
MH1023	29.48	29.48	31.98	-2.50	
MH1024	21.86	21.86	22.99	-1.13	
MH1025	20.14	20.14	23.53	-3.39	
CP1202	22.00	22.00	22.58	-0.58	
CP1203	21.90	21.90	22.60	-0.70	
MH1026	18.56	18.56	19.80	-1.24	
MH1022	20.05	20.06	21.26	-1.20	
MH1028	16.15	16.15	17.68	-1.53	
MH1027	19.81	19.81	21.02	-1.21	
MH1021	22.94	22.94	24.55	-1.61	
MH1018	20.77	20.77	21.88	-1.11	
CO0872	0.74	0.74	1.06	-0.32	
CP1201	25.10	25.10	25.97	-0.87	
CP1200	25.10	25.10	25.99	-0.89	
MH1017	22.54	22.54	23.45	-0.91	
MH1019	26.78	26.78	29.28	-2.50	
MH1015	23.11	23.11	24.18	-1.07	
MH1020	27.13	27.13	29.41	-2.28	



	Minimum (m)	Maximum (m)	Ground Level (m)	Ground Level – Maximum (m)	Note
MH1014	24.20	24.20	25.07	-0.87	
MH1016	25.41	25.41	26.68	-1.27	
MH1013	26.49	26.49	27.22	-0.73	
CP1199	25.76	25.76	26.76	-1.00	
RCO9	0.90	0.91	2.00	-1.09	
RCO2	1.00	1.01	7.00	-5.99	
RCO1	1.75	1.76	7.00	-5.24	
CO0883	1.76	2.13	2.00	0.13	G
MH1046	1.95	2.72	2.76	-0.04	
MH1045	11.80	12.11	13.19	-1.08	
MH1044	13.70	14.25	14.89	-0.64	
OF61	14.77	14.92	15.27	-0.35	
MH1042	16.24	18.62	18.60	0.02	G W
CP1216	14.36	14.80	15.37	-0.57	
CP1217	13.75	14.25	14.75	-0.50	
MH1043	14.44	15.39	15.37	0.02	G W
OF60	18.00	18.11	18.50	-0.39	
OF62	1.50	1.57	2.00	-0.43	
CP1214	17.63	18.61	18.60	0.01	G
CP1215	15.56	15.56	16.56	-1.00	
CP1213	18.07	18.61	19.07	-0.46	
RCO7	21.95	21.95	23.20	-1.25	
RCO8	21.85	21.85	23.00	-1.15	
STR29	20.00	20.01	21.50	-1.49	
RCO6	21.85	21.85	23.00	-1.15	
STR30	18.00	18.01	19.50	-1.49	
RCO5	22.00	22.00	23.50	-1.50	
STR OUT2	2.00	2.00	3.50	-1.50	
CO0875	11.87	11.87	12.87	-1.00	
BX0755	12.76	12.76	13.76	-1.00	
CO0877	0.14	0.14	1.14	-1.00	
CP1204	0.90	0.90	1.90	-1.00	

## Links - Result summary

Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
JN0857I1	JN0857	CP2402	0.013	22.64	0.000	0.491	0.000	0.1
JN0857I2	JN0857	CO0088	0.154	22.64	0.000	0.023	0.000	0.2
MH1727I1	MH1727	JN0857	0.134	26.98	0.000	0.010	0.000	0.2
MH1808I1	MH1808	CO1307	0.239	4.22	0.193	6.745	0.807	570.8
MH1809I1	MH1809	MH1808	0.046	5.98	0.050	5.795	1.086	143.8
CO1308I1	CO1308	MH1810	0.317	6.64	-0.035	4.028	-0.110	-92.5
CP2314I1	CP2314	MH1810	0.066	6.80	0.000	0.629	0.000	0.1
CP2315I1	CP2315	MH1810	0.086	7.00	0.000	0.629	0.000	0.1
JN0858I1	JN0858	MH1808	0.115	4.66	0.010	3.860	0.088	0.1
JN0858I2	CP2312	JN0858	0.028	4.66	0.004	4.487	0.139	0.0
JN0858I3	CP2313	JN0858	0.028	4.66	0.004	4.487	0.139	0.0
MH1855I1	MH1855	MH1853	0.100	26.27	-0.041	0.802	-0.410	-101.8
CP1154I1	CP1154	CP1155	0.054	30.84	0.000	0.013	0.000	0.1
CP1155I1	CP1155	SH0711	0.014	30.69	0.000	0.012	0.000	0.1
SH0711I1	SH0711	SH0712	0.063	30.63	0.000	0.006	0.000	0.1
SH0712I1	SH0712	SH0713	0.116	30.21	0.000	0.007	0.000	0.1
SH0713I1	SH0713	MH1727	0.090	28.47	0.000	0.007	0.000	0.1
CP1179I1	CP1179	CP1180	0.075	33.40	0.000	0.007	0.000	0.1
CP1180I1	CP1180	MH0989	0.095	33.05	0.000	0.007	0.000	0.1
MH0989I1	MH0989	MH0990	0.121	32.26	0.000	0.008	0.000	0.2
MH0990I1	MH0990	MH0992	0.102	29.22	0.000	0.009	0.000	0.2
MH0991I1	MH0991	MH0990	0.043	32.76	0.000	0.007	0.000	0.1
CP1181I1	CP1181	CP1182	0.085	29.31	0.000	0.278	0.000	-0.1
CP1182I1	CP1182	MH0992	0.144	29.31	0.000	0.008	0.000	0.2
MH0992I1	MH0992	MH1004	0.208	27.97	0.000	0.010	0.000	0.3



Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
MH099311	MH0993	MH0994	0.080	28.19	0.000	0.009	0.000	0.1
MH099411	MH0994	MH0995	0.054	22.46	0.000	0.009	0.000	0.1
MH099511	MH0995	MH0996	0.047	18.02	0.000	0.009	0.000	0.1
MH099611	MH0996	MH0997	0.765	13.96	0.000	0.010	0.000	1.1
MH099711	MH0997	CO0870	0.536	8.63	0.000	0.029	0.000	1.1
CP118311	CP1183	CP1184	0.042	12.86	0.000	0.005	0.000	0.1
CP118411	CP1184	MH0997	0.052	12.84	0.000	0.006	0.000	0.1
CP118511	CP1185	CP1186	0.052	16.48	0.000	0.006	0.000	0.1
CP118611	CP1186	MH0998	0.059	16.34	0.000	0.005	0.000	0.1
CP118711	CP1187	CP1188	0.054	16.47	0.000	0.006	0.000	0.1
CP118811	CP1188	MH0998	0.060	16.32	0.000	0.005	0.000	0.1
MH099811	MH0998	MH0999	0.309	15.69	0.000	0.009	0.000	0.4
MH099911	MH0999	CO0871	0.356	9.58	0.000	0.025	0.000	0.8
CP118911	CP1189	MH1000	0.027	20.92	0.000	0.250	0.000	0.0
MH100011	MH1000	MH0998	0.123	20.92	0.000	0.008	0.000	0.1
MH100111	MH1001	MH1003	0.117	21.92	0.000	0.009	0.000	0.5
MH100211	MH1002	MH1001	0.110	22.14	0.000	0.010	0.000	0.5
MH100311	MH1003	MH1004	0.270	21.79	0.000	0.008	0.000	0.5
MH100411	MH1004	MH0996	0.798	20.17	0.000	0.010	0.000	1.0
CP119011	CP1190	MH1005	0.049	31.17	0.000	0.010	0.000	0.1
CP119111	CP1191	MH1005	0.059	31.19	0.000	0.010	0.000	0.1
MH100511	MH1005	MH1006	0.160	31.01	0.000	0.009	0.000	0.2
MH100611	MH1006	MH1012	0.064	26.05	0.000	0.010	0.000	0.3
CP119211	CP1192	MH1006	0.084	27.49	0.000	0.016	0.000	0.1
MH100711	MH1007	MH1008	0.133	24.48	0.000	0.008	0.000	0.2
CP119311	CP1193	CP1194	0.014	20.43	0.000	0.005	0.000	0.0
CP119411	CP1194	MH1008	0.106	20.42	0.000	0.018	0.000	0.1
CP119511	CP1195	CP1196	0.088	20.66	0.000	0.284	0.000	-0.1
CP119611	CP1196	MH1008	0.123	20.66	0.000	0.007	0.000	0.1
MH100811	MH1008	MH1009	0.124	19.66	0.000	0.009	0.000	0.4





Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
MH1009I1	MH1009	MH1010	0.182	18.86	0.000	0.009	0.000	0.4
MH1010I1	MH1010	MH0999	0.240	16.39	0.000	0.009	0.000	0.4
CP1197I1	CP1197	CP1198	0.045	31.96	0.000	0.171	0.000	-0.1
CP1198I1	CP1198	MH1011	0.085	31.96	0.000	0.006	0.000	0.1
MH1011I1	MH1011	MH1012	0.179	31.55	0.000	0.009	0.000	0.2
MH1012I1	MH1012	MH1002	0.426	25.57	0.000	0.010	0.000	0.5
MH1013I1	MH1013	MH1014	0.043	26.49	0.000	0.007	0.000	0.1
MH1014I1	MH1014	MH1015	0.027	24.20	0.000	0.007	0.000	0.0
MH1015I1	MH1015	MH1017	0.063	23.11	0.000	0.009	0.000	0.2
MH1016I1	MH1016	MH1015	0.127	25.41	0.000	0.008	0.000	0.1
CP1199I1	CP1199	MH1016	0.082	25.76	0.000	0.010	0.000	0.1
MH1017I1	MH1017	MH1018	0.083	22.54	0.000	0.009	0.000	0.2
MH1018I1	MH1018	MH1022	0.120	20.77	0.000	0.008	0.000	0.3
MH1019I1	MH1019	MH1018	0.132	26.78	0.000	0.008	0.000	0.2
MH1020I1	MH1020	MH1019	0.010	27.13	0.000	0.005	0.000	0.0
CP1200I1	CP1200	MH1021	0.145	25.10	0.000	0.008	0.000	0.2
CP1201I1	CP1201	MH1021	0.147	25.10	0.000	0.008	0.000	0.2
MH1021I1	MH1021	MH1022	0.117	22.94	0.000	0.010	0.000	0.3
MH1022I1	MH1022	MH1026	0.118	20.05	0.000	0.010	0.000	0.6
MH1023I1	MH1023	MH1024	0.194	29.48	0.000	0.009	0.000	0.2
CP1202I1	CP1202	MH1024	0.036	22.00	0.000	0.005	0.000	0.0
CP1203I1	CP1203	MH1024	0.000	21.90	0.000	0.005		0.0
MH1024I1	MH1024	MH1025	0.097	21.86	0.000	0.010	0.000	0.2
MH1025I1	MH1025	MH1026	0.209	20.14	0.000	0.007	0.000	0.3
MH1026I1	MH1026	MH1028	0.485	18.56	0.000	0.010	0.000	1.0
MH1027I1	MH1027	MH1026	0.072	19.81	0.000	0.006	0.000	0.1
MH1028I1	MH1028	CO0872	0.760	16.15	0.000	0.010	0.000	1.0
CI0804I1	CI0804	MH1029	0.297	14.49	0.116	0.434	0.390	310.5
MH1029I1	MH1029	CO0873	0.231	13.21	0.115	1.020	0.500	310.5
BX0754I1	BX0754	CO0874	0.331	21.26	0.213	1.332	0.643	548.1

Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
BX075511	BX0755	CO0875	0.376	12.76	0.000	0.007	0.000	0.4
CI080511	CI0805	CO0876	0.180	13.35	0.000	0.021	0.000	0.2
CP120411	CP1204	CO0877	0.113	0.90	0.000	0.005	0.000	0.2
CI080611	CI0806	CO0878	0.160	5.68	0.000	0.035	0.000	0.2
CI080711	CI0807	MH1030	0.244	1.38	0.000	0.034	0.001	9.4
CP120611	MH1030	CP1206	1.136	1.20	0.000	0.017	0.000	9.8
CP120511	CP1205	MH1084	0.023	4.53	0.000	0.018	0.000	0.0
CP120612	CP1206	CO0879	1.099	0.59	0.000	0.013	0.000	9.8
CP120711	CP1207	MH1031	0.028	9.54	0.000	0.021	0.000	0.0
MH103111	MH1031	MH1084	0.267	9.23	0.000	0.009	0.000	0.4
CP121311	CP1213	CP1214	0.092	18.61	-0.021	4.376	-0.230	0.1
CP121411	CP1214	MH1042	0.073	18.61	-0.023	5.620	-0.308	0.0
MH104211	MH1042	MH1044	0.149	18.20	0.191	6.534	1.281	586.0
CP121511	CP1215	MH1043	0.234	15.56	0.000	3.182	0.000	0.3
CP121611	MH1043	CP1216	0.084	15.05	0.152	2.035	1.801	567.1
CP121612	CP1216	MH1044	0.210	14.58	0.152	1.492	0.724	567.1
CP121711	CP1217	MH1044	0.067	14.25	-0.001	1.825	-0.018	0.1
MH104411	MH1044	MH1045	0.450	13.97	0.398	0.730	0.883	1321.3
MH104511	MH1045	MH1046	1.146	11.95	0.398	1.596	0.347	1321.4
MH104611	MH1046	CO0883	0.383	2.33	0.398	0.854	1.039	1321.4
CP121811	CP1218	MH1047	0.066	24.70	0.001	1.583	0.010	0.1
CP121911	CP1219	MH1047	0.098	24.89	0.000	1.583	0.000	0.1
MH104711	MH1047	MH1048	0.130	24.52	0.113	5.176	0.875	294.9
CP122011	CP1220	MH1048	0.063	20.00	-0.015	5.709	-0.244	0.1
CP122111	CP1221	MH1048	0.082	20.00	-0.006	5.709	-0.078	0.1
MH104811	MH1048	MH1051	0.230	19.37	0.246	2.506	1.071	777.5
MH104911	MH1049	MH1050	0.112	19.12	0.157	2.566	1.404	413.4
MH105011	MH1050	MH1051	0.156	18.67	0.157	1.899	1.006	413.3
MH105111	MH1051	MH1053	0.426	18.11	0.382	3.208	0.897	1190.6
MH105211	MH1052	MH1049	0.097	19.31	0.062	2.884	0.637	160.9



Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
MH1053I1	MH1053	MH1054	0.305	14.69	0.371	2.004	1.214	1190.3
CP1222I1	CP1222	MH1054	0.128	13.63	0.000	3.021	0.000	0.1
CP1223I1	CP1223	MH1054	0.179	13.47	0.000	3.021	0.000	0.2
MH1054I1	MH1054	CO0884	0.958	12.13	0.881	0.755	0.919	3049.1
CP1224I1	CP1224	MH1055	0.051	13.20	-0.021	4.961	-0.413	0.1
CP1225I1	CP1225	MH1055	0.028	13.20	-0.010	4.961	-0.352	0.0
MH1055I1	MH1055	MH1054	0.179	13.05	0.267	2.145	1.494	1200.3
CI0810I1	CI0810	CO0885	0.506	8.03	0.563	1.399	1.112	1859.1
BX0756I1	BX0756	MH1056	1.137	10.57	1.138	3.438	1.001	4163.1
CP1226I1	CP1226	MH1056	0.270	10.26	0.000	6.875	0.000	0.2
MH1056I1	MH1056	CO0886	1.003	7.29	1.123	1.878	1.119	4161.5
BX0757I1	BX0757	CO0887	1.431	13.61	2.123	1.930	1.484	6661.8
CP1227I1	CP1227	CP1228	0.050	20.22	-0.017	4.259	-0.344	0.1
CP1228I1	CP1228	MH1057	0.034	20.22	-0.043	4.522	-1.279	0.1
MH1057I1	MH1057	MH1058	0.693	19.79	0.611	2.943	0.882	2340.6
CP1229I1	CP1229	CP1230	0.067	17.37	-0.022	5.420	-0.336	0.1
CP1230I1	CP1230	MH1058	0.000	17.40	-0.062	5.563		0.0
MH1058I1	MH1058	OMO29	0.770	17.09	0.551	3.021	0.716	2340.4
CP1231I1	CP1231	CP1232	0.066	13.45	0.035	5.345	0.530	0.1
CP1232I1	CP1232	MH1059	0.024	13.45	0.064	5.485	2.668	0.1
MH1059I1	MH1059	MH1060	1.160	12.81	1.033	2.294	0.890	5317.1
MH1060I1	MH1060	MH1061	1.123	11.18	1.029	1.929	0.917	5317.2
CP1233I1	CP1233	MH1061	0.110	10.04	-0.006	7.367	-0.057	0.1
CP1234I1	CP1234	MH1061	0.109	10.04	-0.018	7.367	-0.164	0.1
CP1235I1	CP1235	MH1061	0.491	10.15	0.251	3.684	0.510	1100.5
MH1061I1	MH1061	MH1062	2.293	9.21	1.539	2.537	0.671	7881.5
MH1062I1	MH1062	MH1063	2.352	7.70	1.518	2.317	0.645	7881.5
MH1063I1	MH1063	MH1064	2.130	6.70	1.515	2.545	0.711	7881.3
CP1236I1	CP1236	CP1237	0.055	5.91	0.035	5.191	0.631	0.0
CP1237I1	CP1237	MH1064	0.014	5.91	0.053	5.192	3.798	0.0



Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
MH1064I1	MH1064	MH1065	2.062	5.31	1.485	2.380	0.720	7880.6
CP1238I1	CP1238	MH1065	0.048	4.83	0.047	6.779	0.983	0.1
MH1065I1	MH1065	MH1066	1.154	4.51	1.381	1.787	1.197	7890.1
MH1066I1	MH1066	CO0888	1.224	3.46	1.381	1.307	1.128	7888.8
CI0811I1	CI0811	CO0889	0.202	23.94	0.287	5.770	1.420	9332.2
CP1239I1	CP1239	SH0715	0.095	22.70	0.019	7.762	0.205	0.8
CP1240I1	CP1240	SH0716	0.124	22.70	-0.037	9.086	-0.296	-1.2
CP1241I1	CP1241	SH0717	0.089	19.09	0.041	5.240	0.459	0.7
CP1242I1	CP1242	SH0718	0.125	19.09	-0.052	7.061	-0.419	-0.7
CP1243I1	CP1243	SH0719	0.375	16.35	-0.530	2.577	-1.415	-2286.6
CP1244I1	CP1244	SH0720	0.296	15.59	0.537	1.511	1.813	2286.6
CP1245I1	CP1246	CP1245	0.054	13.76	-0.007	4.562	-0.133	-0.8
CP1246I1	CP1246	SH0721	0.119	13.76	0.006	7.185	0.050	1.0
CP1247I1	CP1247	MH1069	0.117	7.89	-0.001	3.990	-0.008	0.1
CI0812I1	CI0812	CO0891	3.012	1.82	-0.457	1.188	-0.152	6871.9
CP1248I1	CP1248	CP1249	0.028	2.41	-0.006	2.653	-0.205	0.0
CP1249I1	CP1249	CP1250	0.048	2.41	-0.012	3.186	-0.243	0.1
CP1250I1	CP1250	CP1251	0.024	2.58	-0.058	3.917	-2.435	-44.0
CP1251I1	CP1251	MH1067	0.045	2.46	0.082	3.893	1.810	335.7
MH1067I1	MH1067	CO0892	0.034	1.87	0.082	2.773	2.397	334.3
BX0758I1	BX0758	BX0759	0.089	7.58	0.231	2.641	2.582	862.2
BX0759I1	BX0759	CO0893	0.518	6.84	0.231	0.847	0.445	862.3
BX0760I1	BX0760	BX0761	0.181	6.16	0.151	0.889	0.834	402.8
BX0761I1	BX0761	CO0894	0.194	5.70	0.151	0.926	0.779	402.8
BX0762I1	BX0762	BX0763	0.315	3.21	0.220	5.536	0.697	572.6
BX0763I1	BX0763	CO0897	0.060	1.99	0.116	5.086	1.950	570.2
CP1252I1	CP1252	MH1068	0.106	10.31	-0.001	4.396	-0.008	0.1
MH1068I1	MH1068	MH1069	3.294	9.81	2.028	1.040	0.616	8709.3
MH1069I1	MH1069	OMO52	4.572	7.44	2.274	2.329	0.497	9368.5
CI0813I1	CI0813	MH1068	1.673	10.62	1.878	1.278	1.123	8314.3

Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
MH1070I1	MH1070	MH1069	0.143	9.94	0.139	2.826	0.974	372.7
CP1253I1	CP1253	MH1070	0.052	10.17	0.011	2.996	0.221	0.0
CP1254I1	CP1254	CP1253	0.031	10.17	0.006	3.865	0.187	0.0
CP1255I1	CP1255	MH1070	0.064	10.17	0.011	3.096	0.173	0.0
CP1256I1	CP1256	CP1255	0.020	10.17	0.006	3.739	0.304	0.0
CP1257I1	CP1257	MH1071	0.084	8.98	-0.001	2.850	-0.014	0.1
CP1258I1	CP1258	MH1071	0.028	8.98	-0.001	3.800	-0.043	0.0
MH1071I1	MH1071	MH1072	0.209	8.86	0.155	2.850	0.744	464.3
CP1259I1	CP1259	MH1072	0.036	8.48	-0.011	4.914	-0.316	0.0
MH1072I1	MH1072	MH1073	0.210	8.38	0.142	3.468	0.675	463.9
CP1260I1	CP1260	MH1073	0.055	8.17	-0.022	5.914	-0.395	0.1
CP1261I1	CP1261	MH1073	0.014	8.17	-0.024	5.913	-1.712	0.0
MH1073I1	MH1073	MH1074	0.053	7.92	0.084	4.780	1.565	392.0
MH1073I2	MH1073	MH1078	0.215	7.53	0.236	2.151	1.101	933.5
MH1074I1	MH1074	MH1079	0.683	6.67	0.456	1.956	0.668	1711.6
CP1262I1	CP1262	MH1075	0.121	7.80	0.001	3.473	0.005	0.1
MH1075I1	MH1075	MH1074	0.225	7.64	0.259	1.382	1.150	979.5
CP1263I1	CP1263	MH1076	0.065	8.05	-0.001	3.970	-0.016	0.1
CP1264I1	CP1264	MH1076	0.076	8.08	0.114	1.802	1.487	493.8
MH1076I1	MH1076	MH1075	0.130	7.98	0.168	1.813	1.285	727.6
CP1265I1	CP1265	MH1077	0.048	8.32	-0.013	3.728	-0.269	0.1
CP1266I1	CP1266	MH1077	0.048	8.32	-0.016	3.728	-0.332	0.1
CP1264I2	MH1077	CP1264	0.056	8.28	0.113	2.145	2.041	493.8
MH1078I1	MH1078	CO0896	0.367	4.02	0.236	2.380	0.643	933.4
MH1079I1	MH1079	CO0895	0.187	2.92	0.455	1.305	2.428	1709.6
MH1081I1	MH1081	MH1031	0.305	15.75	0.000	0.008	0.000	0.3
MH1084I1	MH1084	MH1030	0.489	4.31	0.000	0.010	0.000	0.5
CI0815I1	CI0815	CO0899	0.825	5.92	0.000	0.018	0.000	5.8
CI0816I1	CI0816	CO0900	0.144	2.14	0.196	3.399	1.359	3058.8
CI0817I1	CI0817	CO0901	1.329	2.00	2.050	2.088	1.543	30089.0



Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
CI081811	CI0818	CO0902	1.367	1.52	1.739	0.855	1.272	17206.9
CI081911	CI0819	CO0903	0.209	1.75	0.290	4.555	1.389	7461.0
CI082011	CI0820	CO0904	0.360	1.82	0.290	2.437	0.807	7613.9
MH185111	MH1851	MH2091	0.153	27.67	0.140	6.154	0.919	406.9
MH185211	MH1854	MH1852	0.074	29.57	0.068	3.728	0.927	221.0
MH209111	MH2091	MH1855	0.121	24.09	-0.041	6.154	-0.337	-101.8
CP250111	CP2501	CP2502	0.078	28.41	0.000	1.398	0.001	0.1
MH190811	MH1907	MH1908	0.024	23.01	0.000	0.006	0.000	0.0
CP266211	CP2662	MH1907	0.056	22.35	0.000	0.005	0.000	0.1
CP266311	CP2663	CP2662	0.028	22.39	0.000	0.005	0.000	0.0
MH190711	MH1907	MH1908	0.023	22.20	0.000	0.126	0.000	0.0
MH190812	MH1908	MH1909	0.063	21.09	0.000	0.006	0.000	0.1
MH190911	MH1909	MH1910	0.160	20.44	0.000	0.006	0.000	0.2
MH191011	MH1910	MH1911	0.239	19.65	0.000	0.006	0.000	0.3
MH191111	MH1911	MH1912	0.276	18.57	0.000	0.205	0.000	0.4
MH209112	MH2091	MH2092	0.107	19.25	0.123	3.337	1.148	724.2
MH209211	MH2092	MH2093	0.124	18.18	0.123	1.321	0.992	724.2
MH209311	MH2093	MH2094	0.161	17.25	0.123	1.475	0.760	724.3
MH209411	MH2094	MH2095	0.224	12.15	0.123	0.998	0.547	724.3
MH209511	MH2095	MH2096	0.261	11.21	0.123	1.278	0.470	724.3
MH209611	MH2096	MH2097	0.325	9.17	0.123	2.579	0.379	724.3
CP284011	CP2840	MH2097	0.106	8.30	-0.002	4.299	-0.021	0.1
CP284111	CP2841	MH2097	0.105	8.30	-0.002	4.299	-0.017	0.1
MH209711	MH2097	CI0810	0.366	8.28	0.126	2.028	0.345	723.9
CP291911	CP2919	BX1007	0.065	30.10	0.000	0.009	0.000	0.1
BX100711	BX1007	CO2781	0.134	29.80	0.000	1.171	0.000	0.2
CP250212	CP2502	MH1851	0.106	28.25	0.073	1.544	0.690	186.0
MH185212	MH1852	MH1851	0.048	28.45	0.068	2.864	1.413	221.0
MHOMO111	OMO51	CO0885	0.885	8.07	0.820	3.675	0.926	3962.4
PRE111	PRE1	PRE2	0.290	4.61	0.599	4.098	2.066	3978.2



Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
PRE2I1	PRE2	PRE3	0.434	3.60	0.557	2.786	1.283	3976.7
PRE3I1	PRE3	PRE4	0.292	2.92	0.234	2.497	0.803	3016.6
PRE4I1	PRE4	PRE5	0.175	2.89	0.202	2.516	1.158	3014.7
PRE5I1	PRE5	PRE6	0.206	2.84	0.244	2.604	1.186	1995.1
PRE6I1	PRE6	PRE POND	0.208	2.82	0.241	2.588	1.157	3119.1
POND1I1	SWALE3	SWALE1	30.810	2.58	4.212	0.575	0.137	20666.4
SWALE1I1	SWALE1	SWALE2	123.075	2.41	4.569	0.744	0.037	22857.0
SWALE2I1	SWALE2	OUTLET1	0.079	1.64	0.225	2.479	2.849	2750.5
POND1I2	PRE POND	PRE7	0.060	2.75	0.122	5.175	2.030	2441.5
PRE7I1	PRE7	PRE8	211.641	1.91	0.120	0.438	0.001	2441.7
PRE8I1	PRE8	GOLF POND	0.000	1.91	0.119	3.649		2440.3
GOLF POND I1	GOLF POND	GOLF OUTLET	0.065	1.18	0.098	1.521	1.510	2422.9
OMO1I1	OMO1	OMO2	0.059	16.43	-0.023	7.275	-0.393	0.1
OMO2I1	OMO2	OMO3	0.186	16.10	0.199	5.879	1.068	963.5
OMO3I1	OMO3	OMO4	0.510	14.26	0.197	5.172	0.386	963.4
OMO4I1	OMO4	OMO5	0.542	13.90	0.370	5.499	0.683	1724.7
OMO5I1	OMO5	OMO6	0.522	12.96	0.470	5.133	0.899	2122.8
OMO6I1	OMO6	OMO7	0.909	10.01	0.966	3.247	1.063	4181.3
OMO7I1	OMO7	OMO51	0.977	9.27	0.829	3.154	0.849	4181.2
TRALEE11	OMO50	OMO5	0.170	16.04	0.161	4.349	0.951	398.8
OMO8I1	OMO8	OMO9	0.120	15.54	0.001	1.069	0.008	0.2
OMO9I1	OMO9	OMO10	0.479	15.35	0.257	0.521	0.536	673.0
OMO10I1	OMO10	OMO11	0.415	10.60	0.257	5.650	0.619	672.9
OMO11I1	OMO11	OMO12	0.223	7.80	0.556	4.331	2.498	2021.1
OMO12I1	OMO12	PRE1	2.378	5.87	1.665	2.658	0.700	7849.8
RCO1I1	RCO1	RCO2	8.858	1.76	0.000	0.004	0.000	5.3
RCO3I1	RCO3	RCO4	6.539	6.35	7.137	0.901	1.091	49099.4
CO0885I1	CO0885	OMO12	1.897	7.06	1.143	2.790	0.602	5828.9
OMO13I1	OF63	OMO14	2.414	7.16	0.783	0.358	0.324	1332.8
OMO14I1	OMO14	PRE1	1.591	5.78	0.782	6.184	0.492	1332.7

Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
RCO5I1	RCO5	RCO6	0.353	22.00	0.000	0.005	0.000	0.5
RCO7I1	RCO7	RCO8	0.494	21.95	0.000	0.005	0.000	0.7
STR1I1	STR1	STR2	348.624	19.15	0.301	0.199	0.001	1091.1
RCO4I1	RCO4	STR2	164.340	5.36	7.160	0.265	0.044	49103.0
STR2I1	STR2	STR3	120.302	3.69	7.840	0.352	0.065	53713.2
STR3I1	STR3	CO0892	64.162	2.82	8.255	0.352	0.129	56251.6
CO0892I1	CO0892	CI0812	169.565	1.84	8.777	0.353	0.052	59185.9
CO0890I1	CO0890	STR4	2.121	1.82	-0.002	1.877	-0.001	-1.7
CO0891I1	CO0891	STR4	121.863	1.82	0.315	0.507	0.003	6996.5
STR8I1	STR4	CI0820	87.098	1.82	0.325	0.357	0.004	7697.7
CO0904I1	CO0904	CI0819	158.946	1.75	0.290	0.458	0.002	7546.0
CO0903I1	CO0903	STR5	191.624	1.78	0.290	0.520	0.002	7338.6
CO0897I1	CO0897	STR5	376.335	1.78	0.150	0.553	0.000	548.9
STR4I1	STR5	STR6	0.000	1.78	0.467	0.412		9553.1
CO0894I1	CO0894	STR6	380.992	2.05	0.149	0.410	0.000	410.0
STR5I1	STR6	STR7	0.000	1.77	0.779	0.410		11090.1
CO0893I1	CO0893	STR7	410.347	2.71	0.230	0.399	0.001	869.1
STR6I1	STR7	STR8	0.000	1.75	1.481	0.399		14222.8
STR7I1	STR8	CI0818	0.000	1.60	1.501	0.340		14258.0
CO0889I1	CO0889	STR9	0.463	21.33	0.384	3.821	0.830	9741.2
STR9I1	STR9	STR10	1.337	17.11	1.167	2.372	0.873	12071.6
STR10I1	STR10	STR11	1.338	14.89	1.328	2.435	0.992	14011.4
STR11I1	STR11	STR13	1.378	10.32	1.398	1.260	1.015	14958.0
STR12I1	STR13	STR32	88.259	5.35	4.571	0.405	0.052	22057.0
CO0896I1	CO0896	CO0895	197.754	2.91	1.660	0.245	0.008	24739.4
CO0895I1	CO0895	CI0816	281.246	2.81	2.143	0.563	0.008	26472.3
CO0900I1	CO0900	STR14	0.000	2.13	2.494	0.612		29523.5
STR13I1	STR14	STR15	0.000	2.13	2.240	0.611		29431.8
STR14I1	STR15	STR16	34.794	2.09	2.468	0.596	0.071	31789.4
STR15I1	STR16	CI0817	74.692	2.04	4.235	0.585	0.057	49340.9



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STR12I2	STR12	STR13	261.248	9.31	0.946	0.213	0.004	2720.2
STR17I1	STR17	STR3	212.858	11.01	0.001	0.352	0.000	33.8
CO0888I1	CO0888	STR33	63.854	3.03	1.759	0.477	0.028	9095.0
STR18I1	STR18	STR16	58.269	2.08	1.021	0.356	0.018	4630.6
CO0887I1	CO0887	STR19	438.319	11.08	2.123	0.206	0.005	6668.9
STR19I1	STR19	STR20	336.858	9.41	2.123	0.302	0.006	6669.1
CO0886I1	CO0886	STR20	125.965	4.41	1.614	0.302	0.013	4582.6
STR20I1	STR20	STR31	76.768	4.41	3.586	0.318	0.047	11251.5
OMO100I1	OMO15	STR21	0.969	6.24	0.535	0.530	0.552	2195.6
STR21I1	STR21	STR22	139.918	2.94	4.543	0.397	0.032	17252.2
CO1308I2	CO1308	STR22	340.259	2.19	0.042	0.635	0.000	100.0
STR22I1	STR22	STR23	69.768	2.19	4.978	0.468	0.071	19437.1
STR23I1	STR23	STR24	133.800	2.17	6.552	0.821	0.049	29286.5
CO1307I1	CO1307	STR24	149.251	2.17	-0.311	0.821	-0.002	572.2
STR24I1	STR24	OMO16	77.678	2.17	6.618	0.821	0.085	29873.1
OMO16I1	OMO16	OMO17	0.529	2.17	2.028	2.246	3.835	15781.6
OMO17I1	OMO17	STR25	86.478	1.60	2.019	0.608	0.023	15778.2
STR25I1	STR25	STR26	70.322	1.60	1.986	0.618	0.028	15773.7
CO0901I1	CO0901	STR28	121.482	1.98	8.324	0.627	0.069	64034.8
STR26I1	STR26	STR27	0.609	1.60	1.956	1.717	3.210	15768.2
STR27I1	STR27	STR28	46.301	1.44	1.947	0.565	0.042	15753.2
STR28I1	STR28	STR OUT	60.534	1.42	9.927	0.564	0.164	79769.5
CO2781I1	CO2781	CI0804	0.294	20.53	0.116	0.867	0.394	310.5
CO0873I1	CO0873	OMO18	0.267	12.60	0.115	4.189	0.431	310.5
CO0874I1	CO0874	OMO18	0.273	17.18	0.213	4.189	0.781	548.0
OMO18I1	OMO18	OMO19	0.587	9.70	0.549	2.958	0.935	2166.8
OMO19I1	OMO19	OMO20	0.659	6.20	0.625	2.431	0.949	3010.2
OMO20I1	OMO20	PRE5	0.697	4.13	0.623	2.516	0.894	3009.8
CO0088I1	CO0088	CI0807	3.643	2.96	0.000	0.020	0.000	4.2
CO0871I1	CO0871	CO0870	1.285	6.38	0.000	0.012	0.000	4.7

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CO0870I1	CO0870	CI0815	1.555	6.18	0.000	0.014	0.000	5.8
CO0899I1	CO0899	CO0878	1.025	5.73	0.000	0.012	0.000	5.8
CO0878I1	CO0878	CI0807	2.666	5.21	0.000	0.020	0.000	5.9
CO0876I1	CO0876	CO0871	3.541	12.57	0.000	0.010	0.000	4.2
RCO6I1	RCO6	STR29	0.459	21.85	0.000	0.020	0.000	0.6
RCO8I1	RCO8	STR29	0.441	21.85	0.000	0.020	0.000	0.7
STR29I1	STR29	STR30	0.113	20.00	0.000	0.020	0.000	1.2
STR30I1	STR30	STR OUT2	0.240	18.00	0.000	0.010	0.000	1.2
STR31I1	STR31	STR21	3.418	4.34	3.846	1.059	1.125	14368.2
CP1239I2	CP1239	CP1240	0.058	22.70	-0.030	4.255	-0.509	-1.4
SH0716I1	SH0716	SH0718	0.585	21.97	0.625	3.531	1.067	3201.9
CP1241I2	CP1241	CP1242	0.000	19.09	-0.049	2.563		-0.8
SH0718I1	SH0718	SH0720	0.600	18.36	0.601	2.865	1.002	3201.0
CP1243I2	CP1243	CP1244	0.520	15.95	0.537	2.000	1.031	2286.6
OMO21I1	OMO21	STR4	0.161	1.87	0.189	2.712	1.174	790.0
SH0720I2	SH0720	OMO22	1.987	15.12	1.110	2.200	0.559	5487.4
OMO22I2	OMO22	OMO23	1.905	14.42	1.550	2.044	0.814	7032.0
CP1245I2	OMO23	CI0813	1.959	13.20	1.732	2.067	0.884	7849.4
CP1245I3	CP1245	OMO23	0.274	13.76	-0.011	5.621	-0.041	-0.6
OMO24I1	OMO24	CO0889	1.056	23.45	0.158	0.450	0.150	425.3
OMO25I1	OMO25	STR10	0.618	19.83	0.517	3.558	0.837	1413.6
OMO26I1	OMO26	OMO27	0.407	27.58	0.444	2.405	1.090	1357.2
OMO27I1	OMO27	OMO28	0.479	24.95	0.444	3.165	0.926	1356.3
OMO28I1	OMO28	MH1057	0.461	20.68	0.435	2.310	0.942	1356.2
OMO29I1	OMO29	MH1059	1.093	15.98	1.102	2.590	1.008	5317.1
OMO30I1	OMO30	CP1235	0.195	10.84	0.258	2.973	1.326	1100.4
OMO31I1	OMO31	OMO32	0.273	19.49	0.251	3.151	0.918	896.3
OMO32I1	OMO32	OMO34	0.270	18.88	0.420	2.532	1.554	1638.2
OMO33I1	OMO33	OMO34	0.519	20.77	0.449	0.717	0.865	1251.9
OMO34I1	OMO34	BX0757	1.030	17.57	0.860	2.394	0.835	2889.8



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OMO35I1	OMO35	OMO37	0.343	15.96	0.390	2.555	1.138	1576.9
OMO36I1	OMO36	OMO37	0.312	12.72	0.360	2.716	1.153	1124.5
OMO37I1	OMO37	OMO39	1.081	10.96	0.892	2.589	0.825	3219.9
OMO38I1	OMO38	OMO39	0.540	9.53	0.480	3.452	0.888	1747.2
OMO39I1	OMO39	OMO40	1.408	7.31	1.576	1.345	1.119	5987.4
OMO40I1	OMO40	STR34	80.001	4.06	1.884	0.336	0.024	6465.1
OMO41I1	OMO41	PRE6	0.722	6.42	0.310	3.230	0.430	1125.7
OMO42I1	OMO42	OMO43	0.812	14.25	0.497	2.974	0.612	1288.4
OMO43I1	OMO43	SWALE1	0.714	3.77	0.771	1.275	1.080	2172.5
PRE9I1	PRE9	PRE3	0.090	2.87	0.143	4.082	1.590	1910.2
RCO2I1	RCO2	RCO9	161.630	1.01	0.000	0.002	0.000	5.3
STR32I1	STR32	OMO48	0.211	5.21	0.863	2.312	4.083	21929.4
STR34I1	STR34	STR23	1.307	4.01	1.088	2.775	0.832	6466.4
OMO44I1	OMO44	OMO45	0.298	25.72	0.288	5.673	0.965	1305.3
OMO45I1	OMO45	SH0716	0.303	23.13	0.253	5.465	0.836	1305.3
OMO46I1	OMO46	SH0719	0.465	17.66	0.522	3.544	1.123	2286.6
OMO47I1	OMO47	STR12	0.177	13.04	0.217	3.453	1.221	744.0
OF1I1	OF1	OF2	189.726	25.50	0.182	0.082	0.001	159.3
OF2I1	OF2	OF3	210.442	22.12	0.460	0.082	0.002	472.6
OF3I1	OF3	OF4	231.449	19.22	0.454	0.084	0.002	473.5
OF4I1	OF4	OF5	187.576	15.66	0.453	0.088	0.002	474.8
OF5I1	OF5	OF6	162.312	13.21	0.467	0.090	0.003	505.4
OF6I1	OF6	OF7	352.939	10.63	0.461	0.091	0.001	508.5
OF7I1	OF7	CI0812	315.104	6.94	0.459	0.071	0.001	510.5
OMO48I1	OMO48	CO0896	334.353	4.28	0.865	0.286	0.003	21913.2
OF8I1	OF8	OF9	102.604	10.06	0.000	0.003	0.000	7.0
OF9I1	OF9	OF10	178.778	9.51	0.000	0.005	0.000	11.7
OF10I1	OF10	OF15	98.198	8.73	0.000	0.110	0.000	11.3
OF14I1	OF14	OF15	101.031	8.61	0.000	0.110	0.000	6.8
OF15I1	OF15	CO0895	487.932	8.08	0.056	0.305	0.000	57.3

Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
OF1111	OF11	OF12	642.283	6.60	0.130	0.094	0.000	78.6
OF1211	OF12	STR8	22.374	2.19	-0.162	0.849	-0.007	85.4
OF1311	OF13	OF16	55423.380	8.20	0.002	0.001	0.000	81.0
OF1611	OF16	CI0816	304282.100	7.92	0.003	0.070	0.000	95.8
OF1711	OF17	OF18	85.029	26.70	0.073	0.070	0.001	23.0
OF1811	OF18	OF19	222.765	26.15	0.036	0.066	0.000	30.5
OF1911	OF19	OF20	186.352	19.70	0.208	0.095	0.001	145.2
OF2011	OF20	OF21	229.430	16.15	0.872	0.097	0.004	1059.7
OF2111	OF21	OF23	219.351	11.64	0.868	0.105	0.004	1062.3
OF2211	OF22	OF23	108.893	10.47	0.228	0.105	0.002	215.3
OF2311	OF23	OF24	239.641	9.58	1.269	0.298	0.005	1406.5
OF2411	OF24	STR33	182.250	4.59	1.961	0.716	0.011	3260.6
STR3312	STR33	STR16	0.783	3.03	0.889	1.950	1.135	11843.7
OF2511	OF25	OF65	42.733	19.15	0.166	0.100	0.004	81.7
OF2611	OF26	OF27	215.248	18.74	0.090	0.287	0.000	97.2
OF2811	OF28	CO0886	238.867	6.28	0.714	0.282	0.003	422.0
OF2911	OF29	OF30	189.736	7.01	0.000	0.008	0.000	12.8
OF3011	OF30	STR23	390.112	4.11	0.000	0.936	0.000	12.3
OF3111	OF31	OF33	250.501	16.01	0.777	0.117	0.003	175.3
OF3211	OF32	OF33	146.047	12.48	0.066	0.094	0.000	24.7
OF3311	OF33	OF35	211.262	11.53	0.741	0.253	0.004	233.1
OF3411	OF34	OF35	254.693	9.48	0.149	0.253	0.001	74.4
OF3511	OF35	OMO40	445.309	7.62	0.585	0.281	0.001	473.4
OMO4911	OMO49	STR31	0.496	8.70	0.286	0.544	0.576	755.9
OMO1612	OMO16	CO0901	131.726	2.17	4.781	0.783	0.036	14741.2
OF3611	OF36	OF38	238.712	15.88	0.271	0.079	0.001	235.2
OF4611	OF46	OF37	312.214	21.49	0.001	0.006	0.000	17.7
OF3711	OF37	OF38	209.401	15.91	0.000	0.079	0.000	14.4
OF3811	OF38	OF39	247.165	13.28	0.453	0.121	0.002	336.6
OF4011	OF40	OF43	331.679	18.80	0.252	0.322	0.001	301.8



Link ID	From Node	To Node	Qf [m3/s]	Hmax [m]	Qmax [m3/s]	Hmax/D	Qmax/Qf	Flow – Accumulated [m3]
OF4111	OF41	OF42	317.339	15.90	0.001	0.085	0.000	20.2
OF4211	OF42	OF43	177.923	8.90	0.274	0.322	0.002	147.1
OF4311	OF43	OF64	91.587	8.19	0.845	0.454	0.009	1333.9
OF4411	OF44	OF45	30.252	4.22	2.072	0.629	0.068	6071.4
OF4511	OF45	OF49	51.622	2.92	2.945	0.403	0.057	11120.1
OF4711	OF47	OF48	231.049	9.51	0.356	0.093	0.002	193.5
OF4811	OF48	OF66	191.378	6.04	0.666	0.093	0.003	478.6
OF4911	OF49	OF51	67.524	2.83	4.767	0.387	0.071	17559.4
OMO4112	OF50	OF51	510.332	7.10	0.000	0.352	0.000	8.5
OF5111	OF51	PRE POND	32.362	2.75	4.389	0.753	0.136	17594.0
OF3911	OF39	OF43	126.623	8.62	0.902	0.322	0.007	674.5
OF5211	OF52	OF54	204.623	30.90	0.000	0.045	0.000	13.0
OF5311	OF53	OF54	184.728	29.21	0.020	0.041	0.000	10.0
OF5411	OF54	OF55	244.016	28.53	0.014	0.035	0.000	22.7
OF5511	OF55	OF56	304.991	24.58	0.009	0.087	0.000	24.6
OF5611	OF56	OF58	315.140	19.45	0.091	0.057	0.000	63.7
OF5711	OF57	OF58	155.809	13.85	-0.063	0.368	0.000	-50.0
OF5811	OF58	OF59	663.368	13.81	0.014	0.022	0.000	25.5
OF6011	OF60	OF61	227.026	18.06	0.043	0.100	0.000	27.3
OF6111	OF61	OF62	726.402	14.85	0.115	0.019	0.000	94.2
OMO5211	OMO52	CI0812	2.026	2.16	2.274	1.283	1.122	9351.9
OF6411	OF64	OF63	3.686	7.85	0.783	0.716	0.212	1332.9
OF6511	OF65	OF26	45.418	18.92	0.099	0.078	0.002	82.5
OF6611	OF66	OF49	226.090	4.39	0.665	0.487	0.003	478.9
OF6711	OF67	OF68	254.454	22.01	0.000	0.149	0.000	15.5
OF6811	OF68	OF69	254.672	15.30	0.848	0.160	0.003	586.2
OF6911	OF69	STR13	285.694	10.82	1.104	0.213	0.004	867.6

## MOUSE Runoff Computation

### Catchment Result Summary

Catchment runoff hydrograph summary

	Rain Event	Minimum [m3/s]	Maximum [m3/s]	Flow – Accumulated m3
OM1	Rainfall / 50yr_2hr	0.000	7.058	49091.305
OM2	Rainfall / 50yr_2hr	0.000	0.000	0.000
OM3	Rainfall / 50yr_2hr	0.000	0.302	1076.205
OM4	Rainfall / 50yr_2hr	0.000	1.061	3519.097
OM5	Rainfall / 50yr_2hr	0.000	0.815	2649.242
OM6	Rainfall / 50yr_2hr	0.000	0.827	2699.983
OM7	Rainfall / 50yr_2hr	0.000	0.151	380.205
OM8	Rainfall / 50yr_2hr	0.000	0.352	894.446
OM9	Rainfall / 50yr_2hr	0.000	0.620	2206.753
OM10	Rainfall / 50yr_2hr	0.000	0.533	1544.730
OM11	Rainfall / 50yr_2hr	0.000	0.286	845.189
OM12	Rainfall / 50yr_2hr	0.000	0.160	464.977
OM13	Rainfall / 50yr_2hr	0.000	0.150	394.819
OM14	Rainfall / 50yr_2hr	0.000	0.151	372.867
OM15	Rainfall / 50yr_2hr	0.000	0.108	285.484
OM16	Rainfall / 50yr_2hr	0.000	0.222	572.685
OM17	Rainfall / 50yr_2hr	0.000	0.447	1777.181
OM18	Rainfall / 50yr_2hr	0.000	0.152	402.770
OM19	Rainfall / 50yr_2hr	0.000	0.393	1272.593
OM20	Rainfall / 50yr_2hr	0.000	0.269	862.165
OM21	Rainfall / 50yr_2hr	0.000	0.591	2387.952
OM22	Rainfall / 50yr_2hr	0.000	1.677	5845.893
OM23	Rainfall / 50yr_2hr	0.000	0.159	422.532
OM24	Rainfall / 50yr_2hr	0.000	0.300	10818.000
OM25	Rainfall / 50yr_2hr	0.000	0.795	2338.256
OM26	Rainfall / 50yr_2hr	0.000	0.521	1413.913
OM27	Rainfall / 50yr_2hr	0.000	0.411	1105.667
OM28	Rainfall / 50yr_2hr	0.000	0.428	1230.151
OM29	Rainfall / 50yr_2hr	0.000	0.674	1944.414
OM30	Rainfall / 50yr_2hr	0.000	1.224	3531.448
OM31	Rainfall / 50yr_2hr	0.000	0.609	1902.485
OM32	Rainfall / 50yr_2hr	0.000	0.158	464.451
OM33	Rainfall / 50yr_2hr	0.000	0.319	899.799
OM34	Rainfall / 50yr_2hr	0.000	0.212	562.298
OM35	Rainfall / 50yr_2hr	0.000	0.084	233.688
OM36	Rainfall / 50yr_2hr	0.000	0.096	252.012
OM37	Rainfall / 50yr_2hr	0.000	0.116	340.001
OM38	Rainfall / 50yr_2hr	0.000	0.929	3028.280
OM39	Rainfall / 50yr_2hr	0.000	0.576	2411.618
OM40	Rainfall / 50yr_2hr	0.000	0.295	1098.558
OM41	Rainfall / 50yr_2hr	0.000	0.506	1372.283
OM42	Rainfall / 50yr_2hr	0.000	0.380	1096.381
OM43	Rainfall / 50yr_2hr	0.000	1.109	3861.923
OM44	Rainfall / 50yr_2hr	0.000	0.445	1300.764



Rain Event	Minimum [m3/s]	Maximum [m3/s]	Flow – Accumulated m3	
OM45	Rainfall / 50yr_2hr	0.000	0.545	1595.099
OM46	Rainfall / 50yr_2hr	0.000	0.698	1846.550
OM47	Rainfall / 50yr_2hr	0.000	0.398	1184.180
OM48	Rainfall / 50yr_2hr	0.000	1.044	4058.972
OM49	Rainfall / 50yr_2hr	0.000	0.351	968.759
OM50	Rainfall / 50yr_2hr	0.000	0.241	742.355
OM51	Rainfall / 50yr_2hr	0.000	0.451	1251.788
OM52	Rainfall / 50yr_2hr	0.000	1.321	3776.160
OM53	Rainfall / 50yr_2hr	0.000	1.663	4532.814
OM54	Rainfall / 50yr_2hr	0.000	0.855	2355.461
OM55	Rainfall / 50yr_2hr	0.000	0.535	2194.764
OM56	Rainfall / 50yr_2hr	0.000	0.268	683.306
OM57	Rainfall / 50yr_2hr	0.000	0.035	92.393
OM58	Rainfall / 50yr_2hr	0.000	0.663	2082.581
OM59	Rainfall / 50yr_2hr	0.000	0.550	1691.409
OM60	Rainfall / 50yr_2hr	0.000	0.429	1140.640
OM61	Rainfall / 50yr_2hr	0.000	0.192	519.134
OM62	Rainfall / 50yr_2hr	0.000	0.620	1801.752
OM63	Rainfall / 50yr_2hr	0.000	0.449	1191.291
OM64	Rainfall / 50yr_2hr	0.000	1.167	3350.400
OM65	Rainfall / 50yr_2hr	0.000	0.058	143.897
OM66	Rainfall / 50yr_2hr	0.000	0.160	427.426
OM67	Rainfall / 50yr_2hr	0.000	0.205	632.448
OM68	Rainfall / 50yr_2hr	0.000	0.442	1181.930
OM69	Rainfall / 50yr_2hr	0.000	0.331	850.929
OM70	Rainfall / 50yr_2hr	0.000	0.163	399.172
OM71	Rainfall / 50yr_2hr	0.000	0.908	2384.403
OM72	Rainfall / 50yr_2hr	0.000	0.088	227.356
OM73	Rainfall / 50yr_2hr	0.000	0.074	185.866
OM74	Rainfall / 50yr_2hr	0.000	0.041	101.691
OM75	Rainfall / 50yr_2hr	0.000	0.194	489.958
OM76	Rainfall / 50yr_2hr	0.000	0.444	1137.643
OM77	Rainfall / 50yr_2hr	0.000	0.258	672.685
OM78	Rainfall / 50yr_2hr	0.000	0.555	1468.662
OM79	Rainfall / 50yr_2hr	0.000	0.330	858.348
OM80	Rainfall / 50yr_2hr	0.000	0.799	2174.631
OM81	Rainfall / 50yr_2hr	0.000	0.661	1888.187
OM82	Rainfall / 50yr_2hr	0.000	0.214	547.937
OM83	Rainfall / 50yr_2hr	0.000	0.117	310.290
OM84	Rainfall / 50yr_2hr	0.000	0.568	1487.528
OM85	Rainfall / 50yr_2hr	0.000	0.406	1122.927
OM86	Rainfall / 50yr_2hr	0.000	0.694	1912.613
OM87	Rainfall / 50yr_2hr	0.000	0.311	1125.381
OM88	Rainfall / 50yr_2hr	0.000	0.809	2357.095
OM89	Rainfall / 50yr_2hr	0.000	0.499	1288.275
OM90	Rainfall / 50yr_2hr	0.000	0.342	883.936
OM91	Rainfall / 50yr_2hr	0.000	0.065	160.945
OM92	Rainfall / 50yr_2hr	0.000	0.098	252.541
OM93	Rainfall / 50yr_2hr	0.000	0.114	294.722
OM94	Rainfall / 50yr_2hr	0.000	0.211	517.777
OM95	Rainfall / 50yr_2hr	0.000	0.438	1300.482
OM96	Rainfall / 50yr_2hr	0.000	0.260	658.488
OM97	Rainfall / 50yr_2hr	0.000	0.237	599.628
OM98	Rainfall / 50yr_2hr	0.000	0.249	618.337

	Rain Event	Minimum [m3/s]	Maximum [m3/s]	Flow – Accumulated m3
OM99	Rainfall / 50yr_2hr	0.000	0.064	168.166
OM100	Rainfall / 50yr_2hr	0.000	0.439	1448.932
OM101	Rainfall / 50yr_2hr	0.000	0.700	2286.517
OM102	Rainfall / 50yr_2hr	0.000	0.275	767.258
OM103	Rainfall / 50yr_2hr	0.000	0.287	755.765
<b>Total :</b>				<b>194326.041</b>



## Runoff model continuity balance

	Discharge [m3]	Initial loss [m3]	Infiltration loss [m3]	Added inflow [m3]	End Volume [m3]	Continuity Balance [m3]	Rain fall – Total [m3]
OM1	49091.305	13.364	24447.321	0.000	1.448	0.000	73553.438
OM2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OM3	1076.205	0.219	284.296	0.000	0.000	0.000	1360.720
OM4	3519.097	3.008	604.176	0.000	2.479	0.000	4128.760
OM5	2649.242	1.048	592.655	0.000	0.415	0.000	3243.360
OM6	2699.983	0.808	635.565	0.000	0.204	0.000	3336.560
OM7	380.205	0.408	38.529	0.000	0.258	0.000	419.400
OM8	894.446	0.960	91.898	0.000	0.615	0.000	987.920
OM9	2206.753	2.463	322.673	0.000	3.150	0.000	2535.040
OM10	1544.730	1.685	185.751	0.000	1.354	0.000	1733.520
OM11	845.189	0.924	103.753	0.000	0.774	0.000	950.640
OM12	464.977	0.507	56.027	0.000	0.409	0.000	521.920
OM13	394.819	0.426	42.509	0.000	0.287	0.000	438.040
OM14	372.867	0.398	36.568	0.000	0.246	0.000	410.080
OM15	285.484	0.308	30.879	0.000	0.209	0.000	316.880
OM16	572.685	0.616	60.056	0.000	0.403	0.000	633.760
OM17	1777.181	0.460	496.365	0.000	0.073	0.000	2274.080
OM18	402.770	0.435	43.857	0.000	0.298	0.000	447.360
OM19	1272.593	0.352	302.061	0.000	0.074	0.000	1575.080
OM20	862.165	0.951	114.535	0.000	0.949	0.000	978.600
OM21	2387.952	0.682	668.174	0.000	0.152	0.000	3056.960
OM22	5845.893	3.446	1250.364	0.000	2.137	0.000	7101.840
OM23	422.532	1.254	22.473	0.000	1.101	0.000	447.360
OM24	10818.000	0.000	0.000	10818.000	0.000	0.000	0.000
OM25	2338.256	2.554	285.316	0.000	2.113	0.000	2628.240
OM26	1413.913	1.531	158.545	0.000	1.092	0.000	1575.080
OM27	1105.667	1.195	122.539	0.000	0.838	0.000	1230.240

	Discharge [m3]	Initial loss [m3]	Infiltration loss [m3]	Added inflow [m3]	End Volume [m3]	Continuity Balance [m3]	Rain fall – Total [m3]
OM28	1230.151	1.340	146.806	0.000	1.062	0.000	1379.360
OM29	1944.414	2.119	232.658	0.000	1.688	0.000	2180.880
OM30	3531.448	3.849	422.636	0.000	3.067	0.000	3961.000
OM31	1902.485	2.092	246.376	0.000	1.967	0.000	2152.920
OM32	464.451	0.507	56.544	0.000	0.418	0.000	521.920
OM33	899.799	0.978	105.038	0.000	0.745	0.000	1006.560
OM34	562.298	0.607	61.121	0.000	0.414	0.000	624.440
OM35	233.688	0.254	26.831	0.000	0.188	0.000	260.960
OM36	252.012	0.272	27.133	0.000	0.183	0.000	279.600
OM37	340.001	0.371	41.441	0.000	0.307	0.000	382.120
OM38	3028.280	2.540	518.098	0.000	2.002	0.000	3550.920
OM39	2411.618	1.138	643.574	0.000	0.630	0.000	3056.960
OM40	1098.558	0.225	299.217	0.000	0.000	0.000	1398.000
OM41	1372.283	1.485	153.655	0.000	1.057	0.000	1528.480
OM42	1096.381	0.728	188.626	0.000	0.424	0.000	1286.160
OM43	3861.923	1.972	860.281	0.000	1.064	0.000	4725.240
OM44	1300.764	0.866	226.340	0.000	0.510	0.000	1528.480
OM45	1595.099	0.352	361.719	0.000	0.030	0.000	1957.200
OM46	1846.550	1.992	200.499	0.000	1.359	0.000	2050.400
OM47	1184.180	1.295	146.188	0.000	1.097	0.000	1332.760
OM48	4058.972	2.108	989.097	0.000	1.263	0.000	5051.440
OM49	968.759	1.051	110.541	0.000	0.770	0.000	1081.120
OM50	742.355	0.815	94.885	0.000	0.744	0.000	838.800
OM51	1251.788	1.359	143.846	0.000	1.007	0.000	1398.000
OM52	3776.160	4.112	447.787	0.000	3.220	0.000	4231.280
OM53	4532.814	4.909	510.195	0.000	3.521	0.000	5051.440
OM54	2355.461	2.554	268.358	0.000	1.867	0.000	2628.240
OM55	2194.764	0.456	638.060	0.000	0.000	0.000	2833.280
OM56	683.306	0.734	70.409	0.000	0.472	0.000	754.920
OM57	92.393	0.100	9.960	0.000	0.067	0.000	102.520
OM58	2082.581	2.291	270.911	0.000	2.177	0.000	2357.960



	Discharge [m3]	Initial loss [m3]	Infiltration loss [m3]	Added inflow [m3]	End Volume [m3]	Continuity Balance [m3]	Rain fall – Total [m3]
OM59	1691.409	1.857	215.649	0.000	1.685	0.000	1910.600
OM60	1140.640	1.232	124.800	0.000	0.848	0.000	1267.520
OM61	519.134	0.562	57.749	0.000	0.396	0.000	577.840
OM62	1801.752	1.965	217.136	0.000	1.587	0.000	2022.440
OM63	1191.291	1.286	129.981	0.000	0.883	0.000	1323.440
OM64	3350.400	3.650	399.029	0.000	2.882	0.000	3755.960
OM65	143.897	0.154	14.293	0.000	0.096	0.000	158.440
OM66	427.426	0.462	47.111	0.000	0.321	0.000	475.320
OM67	632.448	0.378	121.880	0.000	0.214	0.000	754.920
OM68	1181.930	1.277	130.027	0.000	0.886	0.000	1314.120
OM69	850.929	0.915	88.881	0.000	0.596	0.000	941.320
OM70	399.172	0.426	38.183	0.000	0.259	0.000	438.040
OM71	2384.403	2.968	210.789	0.000	2.120	0.000	2600.280
OM72	227.356	0.245	23.879	0.000	0.160	0.000	251.640
OM73	185.866	0.199	18.849	0.000	0.126	0.000	205.040
OM74	101.691	0.109	9.973	0.000	0.067	0.000	111.840
OM75	489.958	0.525	49.743	0.000	0.333	0.000	540.560
OM76	1137.643	1.223	118.540	0.000	0.795	0.000	1258.200
OM77	672.685	0.725	71.708	0.000	0.483	0.000	745.600
OM78	1468.662	1.585	159.671	0.000	1.083	0.000	1631.000
OM79	858.348	1.140	62.374	0.000	0.818	0.000	922.680
OM80	2174.631	2.355	244.528	0.000	1.687	0.000	2423.200
OM81	1888.187	2.056	223.789	0.000	1.609	0.000	2115.640
OM82	547.937	0.589	56.893	0.000	0.381	0.000	605.800
OM83	310.290	0.335	33.984	0.000	0.231	0.000	344.840
OM84	1487.528	1.851	130.986	0.000	1.314	0.000	1621.680
OM85	1122.927	1.712	76.131	0.000	1.510	0.000	1202.280
OM86	1912.613	2.074	218.075	0.000	1.518	0.000	2134.280
OM87	1125.381	1.259	167.159	0.000	1.681	0.000	1295.480
OM88	2357.095	2.572	285.121	0.000	2.092	0.000	2646.880
OM89	1288.275	1.386	135.390	0.000	0.909	0.000	1425.960

	Discharge [m3]	Initial loss [m3]	Infiltration loss [m3]	Added inflow [m3]	End Volume [m3]	Continuity Balance [m3]	Rain fall – Total [m3]
OM90	883.936	0.951	93.088	0.000	0.625	0.000	978.600
OM91	160.945	0.172	15.856	0.000	0.107	0.000	177.080
OM92	252.541	0.272	26.609	0.000	0.179	0.000	279.600
OM93	294.722	0.317	30.953	0.000	0.208	0.000	326.200
OM94	517.777	0.552	49.853	0.000	0.337	0.000	568.520
OM95	1300.482	1.422	160.138	0.000	1.198	0.000	1463.240
OM96	658.488	0.706	67.315	0.000	0.451	0.000	726.960
OM97	599.628	0.643	61.041	0.000	0.409	0.000	661.720
OM98	618.337	0.661	60.953	0.000	0.410	0.000	680.360
OM99	168.166	0.181	17.932	0.000	0.121	0.000	186.400
OM100	1448.932	1.603	197.403	0.000	1.703	0.000	1649.640
OM101	2286.517	2.527	308.614	0.000	2.622	0.000	2600.280
OM102	767.258	0.833	88.725	0.000	0.624	0.000	857.440
OM103	755.765	0.815	81.668	0.000	0.552	0.000	838.800
<b>Total :</b>		<b>136.195</b>	<b>44658.164</b>	<b>10818.000</b>	<b>93.517</b>	<b>0.000</b>	<b>228395.918</b>



# APPENDIX D

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## MOUSE Output Information – Long Sections

