

Peaking Factor of 3

Start of run

configured for MS Windows

Produced on 14/02/2013 at 16:04

InfoWorks CS SIM

Summary results from Simulation

Version 11.0.1.20007 (Win32) dated August 2010

Licence Number - WS55550218PM

Message 253: Run finished for event 1.

Network(PF3&4) 20130214 (Revision 2) Event - 1 WS55550218PM Produced 14/02/2013 Pg 1

Summary results for event 1 - DWF
 Started at 00000000000000. Run for 1440.00 min. (Requested simulation time 1440.00 min)

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Files used:
Network: ... \NET15#2.spb      Network(PF3&4)_20130214 (Revision 2)
State:
Runoff: ... \NET15#2.rpf      Network(PF3&4)_20130214 (Revision 2) (InfoWorks 11.0.1.20007)
Rainfall:
DWF:
Inflows:
Levels:
RTC:
Results: ... \SIM16.iwr
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Total rainfall	=	0.0 m3
Total runoff	=	0.0 m3
Total inflow	=	162003.3 m3
Total outflow	=	164765.9 m3
Total lost	=	0.0 m3

***** Node data *****

Node	Ground Level	Max Level	Flood Volume	Flood Depth	Flood Area	Max Stored	Inflow	Vol Balance	Vol Balance
Reference	(m AD)	(m AD)	(m3)	(m)	(m2)	(m3)	(m3)	(m3)	(%)
FMH1021540	10.550	7.678	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH1028480	9.070	5.165	0.0	0.000	0.0	0.1	665.0	0.000	0.000
FMH_FLN_01001	7.500	6.057	0.0	0.000	0.0	0.2	3688.2	0.000	0.000
FMH_FLN_01002	8.000	5.713	0.0	0.000	0.0	0.3	3758.2	0.000	0.000
FMH_FLN_02001	9.000	7.755	0.0	0.000	0.0	0.3	8574.0	0.000	0.000
FMH_FLN_03001	11.500	10.177	0.0	0.000	0.0	0.1	840.0	0.000	0.000
FMH_FLN_03001A	11.500	10.138	0.0	0.000	0.0	0.0	158.8	0.000	0.000
FMH_FLN_03001B	11.500	9.371	0.0	0.000	0.0	0.1	147.8	0.000	0.000
FMH_FLN_03001C	11.500	8.622	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_04001	11.600	7.802	0.0	0.000	0.0	0.2	1798.3	0.000	0.000
FMH_FLN_05001	10.000	7.030	0.0	0.000	0.0	0.4	0.0	0.000	0.000
FMH_FLN_05002	9.500	6.523	0.0	0.000	0.0	0.4	1665.8	0.000	0.000
FMH_FLN_06001	10.000	8.537	0.0	0.000	0.0	0.0	133.0	0.000	0.000
FMH_FLN_06001A	10.000	8.256	0.0	0.000	0.0	0.1	207.8	0.000	0.000
FMH_FLN_06001B	10.000	7.959	0.0	0.000	0.0	0.2	3429.0	0.000	0.000
FMH_FLN_06002	10.500	7.374	0.0	0.000	0.0	0.3	2105.0	0.000	0.000
FMH_FLN_07001	9.500	5.194	0.0	0.000	0.0	1.0	5901.6	0.000	0.000
FMH_FLN_09001	9.500	4.597	0.0	0.000	0.0	1.0	1374.4	0.000	0.000
FMH_FLN_09001A	9.500	4.332	0.0	0.000	0.0	1.0	136.3	0.000	0.000
FMH_FLN_09002	9.000	4.056	0.0	0.000	0.0	1.0	42.0	0.000	0.000
FMH_FLN_09003	9.000	3.718	0.0	0.000	0.0	0.9	50.4	0.000	0.000
FMH_FLN_09004	9.000	-0.459	0.0	0.000	0.0	26.2	0.0	0.000	0.000
FMH_FLN_09004A	9.000	7.121	0.0	0.000	0.0	1.2	0.0	0.000	0.000
FMH_FLN_09004B	9.000	7.061	0.0	0.000	0.0	1.2	0.0	0.000	0.000
FMH_FLN_09005	9.000	6.740	0.0	0.000	0.0	1.1	133.0	0.000	0.000
FMH_FLN_09006	9.000	6.418	0.0	0.000	0.0	1.1	207.8	0.000	0.000
FMH_FLN_09007	8.500	6.266	0.0	0.000	0.0	1.1	958.0	0.000	0.000
FMH_FLN_09008	8.500	5.996	0.0	0.000	0.0	1.0	1004.1	0.000	0.000
FMH_FLN_09009	8.500	5.404	0.0	0.000	0.0	1.1	133.0	0.000	0.000
FMH_FLN_10001	14.500	13.052	0.0	0.000	0.0	0.1	509.3	0.000	0.000
FMH_FLN_10001A	10.600	8.643	0.0	0.000	0.0	0.1	1683.9	0.000	0.000
FMH_FLN_10001B	9.200	7.478	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002	8.000	6.584	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002A	7.500	6.081	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002B	7.500	5.922	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002C	7.500	5.715	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002D	7.500	5.472	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002E	7.500	5.253	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002F	7.500	5.103	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002G	7.500	5.013	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10003	7.500	3.216	0.0	0.000	0.0	4.4	0.0	0.000	0.000
FMH_FLN_10003A	7.500	11.532	0.0	0.000	0.0	5.2	0.0	0.000	0.000
FMH_FLN_10003B	7.500	9.996	0.0	0.000	0.0	12.1	0.0	0.000	0.000
FMH_FLN_10003C	7.500	5.500	0.0	0.000	0.0	11.1	1106.6	0.000	0.000
FMH_FLN_10004	8.000	5.260	0.0	0.000	0.0	0.3	1835.8	0.000	0.000
FMH_FLN_11001	8.500	4.975	0.0	0.000	0.0	1.1	133.0	0.000	0.000
FMH_FLN_12001	8.000	6.121	0.0	0.000	0.0	0.1	2450.7	0.000	0.000
FMH_FLN_13001	8.500	4.419	0.0	0.000	0.0	1.2	2284.2	0.000	0.000
FMH_FLN_14001	8.000	6.115	0.0	0.000	0.0	0.1	3127.4	0.000	0.000
FMH_FLN_15001	7.500	3.778	0.0	0.000	0.0	1.2	2440.7	0.000	0.000
FMH_FLN_15002	6.500	3.340	0.0	0.000	0.0	1.1	0.0	0.000	0.000
FMH_FLN_15003	6.500	-0.516	0.0	0.000	0.0	53.0	0.0	0.000	0.000
FMH_FLN_15003A	6.500	15.320	0.0	0.000	0.0	12.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
FMH_FLN_16001	7.500	6.129	0.0	0.000	0.0	0.0	63.2	0.000	0.000
FMH_FLN_16002	7.500	5.048	0.0	0.000	0.0	0.0	0.0	0.000	0.000
FMH_FLN_16003	7.500	4.620	0.0	0.000	0.0	0.0	0.0	0.000	0.000
FMH_FLN_17001	9.000	7.030	0.0	0.000	0.0	0.0	75.6	0.000	0.000
FMH_FLN_17002	9.000	6.575	0.0	0.000	0.0	0.3	7561.3	0.000	0.000
FMH_FLN_17003	8.000	6.280	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_FLN_17004	7.500	5.950	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_FLN_18001	7.500	3.013	0.0	0.000	0.0	15.0	0.0	0.000	0.000
FMH_FLN_18001A	7.500	12.378	0.0	0.000	0.0	6.2	0.0	0.000	0.000
FMH_FLN_18001B	7.500	12.057	0.0	0.000	0.0	5.9	0.0	0.000	0.000
FMH_FLN_18001C	7.500	10.067	0.0	0.000	0.0	3.9	0.0	0.000	0.000
FMH_FLN_18001D	7.500	8.746	0.0	0.000	0.0	2.5	0.0	0.000	0.000
FMH_FLN_18001E	8.000	8.115	0.0	0.000	0.0	1.4	0.0	0.000	0.000
FMH_FLN_18001F	8.000	7.638	0.0	0.000	0.0	9.4	0.0	0.000	0.000
FMH_FLN_18002	8.000	6.241	0.0	0.000	0.0	9.3	0.0	0.000	0.000
FMH_FLN_18003	7.500	5.799	0.0	0.000	0.0	0.3	170.5	0.000	0.000
FMH_FLN_18004	7.000	5.325	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_FLN_19001	6.500	15.093	0.0	0.000	0.0	11.7	0.0	0.000	0.000
FMH_FLN_19002	6.500	14.392	0.0	0.000	0.0	11.0	0.0	0.000	0.000
FMH_FLN_19003	8.050	13.658	0.0	0.000	0.0	8.8	0.0	0.000	0.000
FMH_FLN_19004	8.250	13.093	0.0	0.000	0.0	8.0	0.0	0.000	0.000
FMH_FLN_19005	7.900	11.946	0.0	0.000	0.0	7.2	0.0	0.000	0.000
FMH_FLN_19006	7.770	10.687	0.0	0.000	0.0	6.1	0.0	0.000	0.000
FMH_FLN_19007	8.170	10.370	0.0	0.000	0.0	20.6	0.0	0.000	0.000
FMH_FLN_19008	9.100	10.086	0.0	0.000	0.0	19.4	0.0	0.000	0.000
FMH_FLN_19009	6.900	5.967	0.0	0.000	0.0	1.5	0.0	0.000	0.000
FMH_FLN_20001	8.500	6.082	0.0	0.000	0.0	0.1	948.7	0.000	0.000
FMH_KTN_01001	31.000	29.373	0.0	0.000	0.0	0.1	1021.4	0.000	0.000
FMH_KTN_01001A	27.000	25.678	0.0	0.000	0.0	0.1	212.9	0.000	0.000
FMH_KTN_01002	24.500	23.250	0.0	0.000	0.0	0.1	16.8	0.000	0.000
FMH_KTN_01003	19.000	17.752	0.0	0.000	0.0	0.1	85.7	0.000	0.000
FMH_KTN_02001	24.500	22.938	0.0	0.000	0.0	0.0	150.0	0.000	0.000
FMH_KTN_02001A	25.000	22.104	0.0	0.000	0.0	0.0	210.6	0.000	0.000
FMH_KTN_02002	20.000	18.404	0.0	0.000	0.0	0.1	352.0	0.000	0.000
FMH_KTN_03001	18.000	16.500	0.0	0.000	0.0	0.1	252.0	0.000	0.000
FMH_KTN_03001A	13.000	11.658	0.0	0.000	0.0	0.2	3423.7	0.000	0.000
FMH_KTN_03002	8.000	6.464	0.0	0.000	0.0	0.1	8.4	0.000	0.000
FMH_KTN_03003	8.000	4.550	0.0	0.000	0.0	11.1	0.0	0.000	0.000
FMH_KTN_03003A	8.000	40.268	0.0	0.000	0.0	33.5	0.0	0.000	0.000
FMH_KTN_03003B	8.000	38.750	0.0	0.000	0.0	32.0	0.0	0.000	0.000
FMH_KTN_03003C	17.500	29.574	0.0	0.000	0.0	13.3	0.0	0.000	0.000
FMH_KTN_03003D	25.000	24.252	0.0	0.000	0.0	0.5	0.0	0.000	0.000
FMH_KTN_03004	22.500	20.763	0.0	0.000	0.0	0.2	4054.2	0.000	0.000
FMH_KTN_03005	13.000	11.759	0.0	0.000	0.0	0.3	5749.6	0.000	0.000
FMH_KTN_03006	7.500	6.002	0.0	0.000	0.0	0.5	0.0	0.000	0.000
FMH_KTN_04001	7.500	6.252	0.0	0.000	0.0	0.2	3301.2	0.000	0.000
FMH_KTN_07001	20.500	19.043	0.0	0.000	0.0	0.0	212.9	0.000	0.000
FMH_KTN_08001	23.500	18.161	0.0	0.000	0.0	0.1	133.8	0.000	0.000
FMH_KTN_08002	17.500	16.206	0.0	0.000	0.0	0.3	13675.9	0.000	0.000
FMH_KTN_08002A	12.500	11.212	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_KTN_09001	21.000	19.427	0.0	0.000	0.0	0.0	57.4	0.000	0.000
FMH_KTN_09001A	18.500	16.989	0.0	0.000	0.0	0.1	3306.4	0.000	0.000
FMH_KTN_10001	11.500	10.193	0.0	0.000	0.0	0.4	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
FMH_KTN_11001	11.000	9.543	0.0	0.000	0.0	0.0	212.9	0.000	0.000
FMH_KTN_11002	10.500	8.973	0.0	0.000	0.0	0.1	133.8	0.000	0.000
FMH_KTN_12001	10.000	8.264	0.0	0.000	0.0	0.5	133.8	0.000	0.000
FMH_KTN_13001	16.500	15.122	0.0	0.000	0.0	0.1	3072.6	0.000	0.000
FMH_KTN_13002	15.000	13.619	0.0	0.000	0.0	0.2	5896.4	0.000	0.000
FMH_KTN_14001	9.500	7.781	0.0	0.000	0.0	0.8	4171.8	0.000	0.000
FMH_KTN_15001	16.500	15.104	0.0	0.000	0.0	0.1	3417.5	0.000	0.000
FMH_KTN_15002	11.500	10.098	0.0	0.000	0.0	0.1	3049.0	0.000	0.000
FMH_KTN_16001	8.500	6.852	0.0	0.000	0.0	1.1	0.0	0.000	0.000
FMH_KTN_18001	20.500	19.204	0.0	0.000	0.0	0.2	10693.3	0.000	0.000
FMH_KTN_18001A	19.000	17.403	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_KTN_18002	16.500	15.063	0.0	0.000	0.0	0.4	0.0	0.000	0.000
FMH_KTN_19001	20.000	18.539	0.0	0.000	0.0	0.0	183.9	0.000	0.000
FMH_KTN_19001A	21.500	17.386	0.0	0.000	0.0	0.2	5027.8	0.000	0.000
FMH_KTN_19002	18.000	16.239	0.0	0.000	0.0	0.3	1653.9	0.000	0.000
FMH_KTN_19003	17.000	15.778	0.0	0.000	0.0	0.4	5417.2	0.000	0.000
FMH_KTN_20001	17.000	14.413	0.0	0.000	0.0	0.4	0.0	0.000	0.000
FMH_KTN_21001	12.500	11.121	0.0	0.000	0.0	0.1	2168.0	0.000	0.000
FMH_KTN_21002	12.000	10.217	0.0	0.000	0.0	0.1	212.9	0.000	0.000
FMH_KTN_22001	12.500	9.517	0.0	0.000	0.0	0.5	67.2	0.000	0.000
FMH_KTN_22002	10.000	8.463	0.0	0.000	0.0	0.6	2400.3	0.000	0.000
FMH_KTN_22003	9.000	7.458	0.0	0.000	0.0	0.6	2032.6	0.000	0.000
FMH_KTN_22004	7.500	5.559	0.0	0.000	0.0	0.8	3210.7	0.000	0.000
FMH_KTN_22005	7.500	4.953	0.0	0.000	0.0	1.1	2128.8	0.000	0.000
FMH_KTN_22005A	7.500	4.397	0.0	0.000	0.0	1.0	591.3	0.000	0.000
FMH_KTN_22005B	7.500	4.093	0.0	0.000	0.0	0.9	0.0	0.000	0.000
FMH_KTN_23001	8.000	6.444	0.0	0.000	0.0	1.2	4629.1	0.000	0.000
FMH_KTN_23002	8.000	6.169	0.0	0.000	0.0	1.1	0.0	0.000	0.000
FMH_KTN_24001	7.500	5.536	0.0	0.000	0.0	1.6	0.0	0.000	0.000
FMH_KTN_24002	7.500	5.374	0.0	0.000	0.0	1.5	0.0	0.000	0.000
FMH_KTN_25001	7.500	5.256	0.0	0.000	0.0	1.5	0.0	0.000	0.000
FMH_KTN_25001A	7.500	3.967	0.0	0.000	0.0	1.3	50.4	0.000	0.000
FMH_KTN_25002	7.500	-0.224	0.0	0.000	0.0	82.8	0.0	0.000	0.000
FMH_KTN_25002A	7.500	16.811	0.0	0.000	0.0	13.4	0.0	0.000	0.000
FMH_KTN_25002AA	7.500	16.657	0.0	0.000	0.0	13.3	0.0	0.000	0.000
FMH_KTN_25002B	7.000	15.618	0.0	0.000	0.0	12.7	0.0	0.000	0.000
FMH_KTN_25002C	7.900	10.831	0.0	0.000	0.0	7.1	0.0	0.000	0.000
FMH_KTN_25002D	8.800	10.312	0.0	0.000	0.0	5.6	0.0	0.000	0.000
FMH_KTN_25002E	6.300	8.218	0.0	0.000	0.0	6.0	0.0	0.000	0.000
FMH_KTN_25002F	6.400	7.175	0.0	0.000	0.0	23.3	0.0	0.000	0.000
FMH_KTN_25002G	6.900	6.026	0.0	0.000	0.0	21.8	0.0	0.000	0.000
FMH_KTN_27001	20.000	18.524	0.0	0.000	0.0	0.0	28.5	0.000	0.000
FMH_KTN_28001	10.000	8.639	0.0	0.000	0.0	0.2	3692.6	0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	<		Upstream			>	<		Downstream			>
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)		Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	
FMH1021540.1	FMH1021541	17	600	0	0.530	7.560	0.118	0.043	1.084	3692.6		7.400	0.118	0.043	1.084	3692.6	
FMH1028480.1	FMH1028481	29	300	0	0.060	5.090	0.075	0.008	0.557	665.0		4.950	0.068	0.008	0.643	665.0	
FMH_FLN_01001.1	FMH_FLN_01002	124	525	0	0.225	5.900	0.157	0.043	0.786	3688.2		5.486	0.227	0.043	0.476	3688.2	
FMH_FLN_01002.1	FMH_FLN_07001	113	525	0	0.225	5.486	0.227	0.086	0.963	7446.4		5.107	0.195	0.086	1.176	7446.4	
FMH_FLN_02001.1	FMH_FLN_05001	112	450	0	0.164	7.500	0.254	0.099	1.071	8574.0		7.050	0.220	0.099	1.287	8574.0	
FMH_FLN_03001.1	FMH_FLN_03001B	111	300	0	0.072	10.100	0.077	0.010	0.676	840.0		9.356	0.076	0.010	0.687	840.0	
FMH_FLN_03001A.1	FMH_FLN_03001B	107	300	0	0.072	10.100	0.038	0.002	0.349	158.8		9.383	0.037	0.002	0.370	158.8	
FMH_FLN_03001B.1	FMH_FLN_03001C	157	375	0	0.110	9.281	0.090	0.013	0.651	1146.6		8.532	0.090	0.013	0.650	1146.6	
FMH_FLN_03001C.1	FMH_FLN_04001	167	375	0	0.110	8.532	0.090	0.013	0.651	1146.6		7.736	0.083	0.013	0.727	1146.6	
FMH_FLN_04001.1	FMH_FLN_05001	191	450	0	0.164	7.661	0.141	0.034	0.800	2944.9		6.896	0.134	0.034	0.858	2944.9	
FMH_FLN_05001.1	FMH_FLN_05002	185	600	0	0.297	6.746	0.284	0.133	1.014	11518.9		6.216	0.307	0.133	0.917	11518.9	
FMH_FLN_05002.1	FMH_FLN_07001	159	600	0	0.297	6.216	0.306	0.153	1.051	13184.7		5.759	0.252	0.153	1.354	13184.7	
FMH_FLN_06001.1	FMH_FLN_06001A	62	375	0	0.110	8.500	0.037	0.002	0.278	133.0		8.204	0.052	0.002	0.165	133.0	
FMH_FLN_06001A.1	FMH_FLN_06001B	69	375	0	0.110	8.204	0.052	0.004	0.423	340.8		7.872	0.087	0.004	0.203	340.8	
FMH_FLN_06001B.1	FMH_FLN_06002	142	450	0	0.160	7.797	0.162	0.044	0.848	3769.8		7.249	0.144	0.044	0.995	3769.8	
FMH_FLN_06002.1	FMH_FLN_07001	134	525	0	0.225	7.174	0.199	0.068	0.901	5874.8		6.726	0.173	0.068	1.094	5874.8	
FMH_FLN_07001.1	FMH_FLN_09001	304	900	0	0.726	4.732	0.461	0.375	1.142	32407.5		4.123	0.474	0.375	1.105	32407.5	
FMH_FLN_09001.1	FMH_FLN_09001A	132	900	0	0.727	4.123	0.473	0.391	1.154	33781.9		3.857	0.475	0.391	1.147	33781.9	
FMH_FLN_09001A.1	FMH_FLN_09002	136	900	0	0.725	3.857	0.474	0.393	1.155	33918.2		3.585	0.471	0.393	1.166	33918.2	
FMH_FLN_09002.1	FMH_FLN_09003	142	900	0	0.727	3.585	0.469	0.393	1.172	33960.2		3.300	0.418	0.393	1.357	33960.2	
FMH_FLN_09003.1	FMH_FLN_09004	28	900	0	0.725	3.300	0.418	0.394	1.362	34010.6		3.243	0.365	0.394	1.625	34010.6	
FMH_FLN_09004.1	FMH_FLN_09004A					-1.507	1.048	0.150		12960.0		-1.507	8.628	0.150		12960.0	
FMH_FLN_09004.2	FMH_FLN_09004A					-1.257	0.798	0.150		12960.0		-1.257	8.378	0.150		12960.0	
FMH_FLN_09004.3	FMH_FLN_09004A					-1.007	0.548	0.150		5709.2		-1.007	8.128	0.150		5709.2	
FMH_FLN_09004.4	FMH_FLN_09004A					-0.757	0.298	0.150		2370.0		-0.757	7.878	0.150		2370.0	
FMH_FLN_09004A.1	FMH_FLN_09004B	27	900	0	0.729	6.550	0.568	0.597	1.506	33999.3		6.495	0.568	0.592	1.399	33954.6	
FMH_FLN_09004B.1	FMH_FLN_09005	135	900	0	0.726	6.495	0.548	0.587	1.447	33954.7		6.225	0.516	0.470	1.267	34453.9	
FMH_FLN_09005.1	FMH_FLN_09006	154	900	0	0.726	6.225	0.512	0.471	1.276	34587.0		5.917	0.501	0.434	1.201	34715.9	
FMH_FLN_09006.1	FMH_FLN_09007	75	900	0	0.726	5.917	0.500	0.436	1.210	34923.8		5.766	0.501	0.427	1.182	34905.4	
FMH_FLN_09007.1	FMH_FLN_09008	122	900	0	0.726	5.766	0.499	0.438	1.217	35863.4		5.521	0.475	0.430	1.264	35824.9	
FMH_FLN_09008.1	FMH_FLN_09009	76	900	0	0.728	5.521	0.474	0.442	1.301	36829.0		5.368	0.386	0.439	1.682	36816.0	
FMH_FLN_09009.1	FMH_FLN_11001	136	900	0	0.727	4.902	0.501	0.451	1.239	37897.7		4.628	0.390	0.448	1.692	37894.4	
FMH_FLN_10001.1	FMH_FLN_10001A	133	375	0	0.291	13.000	0.052	0.006	0.638	509.3		8.560	0.083	0.006	0.322	509.3	
FMH_FLN_10001A.1	FMH_FLN_10001B	35	375	0	0.291	8.560	0.083	0.025	1.392	2193.2		7.390	0.088	0.025	1.276	2193.2	
FMH_FLN_10001B.1	FMH_FLN_10002	35	375	0	0.252	7.390	0.088	0.025	1.281	2193.2		6.495	0.089	0.025	1.269	2193.2	
FMH_FLN_10002.1	FMH_FLN_10002A	18	375	0	0.252	6.495	0.088	0.025	1.281	2193.2		6.033	0.088	0.025	1.281	2193.2	
FMH_FLN_10002A.1	FMH_FLN_10002B	41	450	0	0.161	5.958	0.123	0.025	0.723	2193.2		5.799	0.123	0.025	0.721	2193.2	
FMH_FLN_10002B.1	FMH_FLN_10002C	53	450	0	0.161	5.799	0.123	0.025	0.722	2193.2		5.592	0.123	0.025	0.721	2193.2	
FMH_FLN_10002C.1	FMH_FLN_10002D	63	450	0	0.160	5.592	0.123	0.025	0.721	2193.2		5.349	0.123	0.025	0.722	2193.2	
FMH_FLN_10002D.1	FMH_FLN_10002E	56	450	0	0.161	5.349	0.123	0.025	0.722	2193.2		5.130	0.123	0.025	0.721	2193.2	
FMH_FLN_10002E.1	FMH_FLN_10002F	39	450	0	0.160	5.130	0.123	0.025	0.721	2193.2		4.980	0.123	0.025	0.721	2193.2	
FMH_FLN_10002F.1	FMH_FLN_10002G	23	450	0	0.160	4.980	0.123	0.025	0.722	2193.2		4.891	0.122	0.025	0.730	2193.2	
FMH_FLN_10002G.1	FMH_FLN_10003	22	450	0	0.161	4.891	0.122	0.025	0.732	2193.2		4.803	0.110	0.025	0.847	2193.2	
FMH_FLN_10003.1	FMH_FLN_10003A					2.553	0.663	0.050		1570.4		2.553	8.979	0.050		1570.4	
FMH_FLN_10003.2	FMH_FLN_10003A					2.803	0.413	0.037		622.7		2.803	8.729	0.037		622.7	
FMH_FLN_10003A.1	FMH_FLN_10003B	26	150	0	0.000	6.350	5.174	0.036	1.156	2192.2+		6.350	3.653	0.036	1.344	2193.4+	
FMH_FLN_10003B.1	FMH_FLN_10003C	118	150	0	0.000	-2.150	12.134	0.027	0.503	2193.0+		-2.150	7.650	0.027	0.653	2202.0+	
FMH_FLN_10003C.1	FMH_FLN_10004	96	600	0	0.297	5.350	0.150	0.039	0.715	3308.5		5.075	0.185	0.039	0.525	3311.3	
FMH_FLN_10004.1	FMH_FLN_11001	111	600	0	0.297	5.075	0.185	0.060	0.811	5147.0		4.758	0.217	0.061	0.695	5145.8	
FMH_FLN_11001.1	FMH_FLN_13001	173	900	0	0.813	4.458	0.514	0.508	1.355	43173.1		4.023	0.416	0.506	1.760	43176.6	
FMH_FLN_12001.1	FMH_FLN_13001	153	300	0	0.088	6.000	0.121	0.028	1.060	2450.7		4.467	0.121	0.028	1.060	2450.7	
FMH_FLN_13001.1	FMH_FLN_15001	171	900	0	0.813	3.867	0.547	0.561	1.387	47911.5		3.437	0.439	0.560	1.819	47912.2	
FMH_FLN_14001.1	FMH_FLN_15001	108	300	0	0.124	6.000	0.115	0.036	1.452	3127.4		3.834	0.115	0.036	1.452	3127.4	

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	<		Upstream		>		Downstream		>	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)
FMH_FLN_15001.1	FMH_FLN_15002	123	900	0	0.938	3.234	0.538	0.624	1.573	53480.3	2.823	0.519	0.624	1.643	53479.7
FMH_FLN_15002.1	FMH_FLN_15003	28	900	0	0.938	2.823	0.502	0.624	1.709	53479.7	2.727	0.464	0.624	1.885	53479.5
FMH_FLN_15003.1	FMH_FLN_15003A					-1.920	1.404	0.250		21600.0	-1.920	17.240	0.250		21600.0
FMH_FLN_15003.2	FMH_FLN_15003A					-1.670	1.154	0.250		21600.0	-1.670	16.990	0.250		21600.0
FMH_FLN_15003.3	FMH_FLN_15003A					-1.420	0.904	0.250		13856.2	-1.420	16.740	0.250		13856.2
FMH_FLN_15003.4	FMH_FLN_15003A					-1.170	0.654	0.250		4369.2	-1.170	16.490	0.250		4369.2
FMH_FLN_15003A.1	FMH_FLN_19001	28	750	0	0.000	4.750	10.555	0.975	1.627	61424.5+	4.750	10.348	0.975	1.637	61422.1+
FMH_FLN_16001.1	FMH_FLN_16002	162	300	0	0.072	6.100	0.029	0.001	0.210	63.2	5.019	0.029	0.001	0.210	63.2
FMH_FLN_16002.1	FMH_FLN_16003	64	300	0	0.072	5.019	0.029	0.001	0.210	63.2	4.591	0.029	0.001	0.210	63.2
FMH_FLN_16003.1	FMH_FLN_18001	25	300	0	0.072	4.591	0.029	0.001	0.210	63.2	4.421	0.028	0.001	0.219	63.2
FMH_FLN_17001.1	FMH_FLN_17002	64	300	0	0.072	7.000	0.030	0.001	0.235	75.6	6.570	0.029	0.001	0.245	75.6
FMH_FLN_17002.1	FMH_FLN_17003	88	525	0	0.225	6.345	0.230	0.088	0.968	7636.9	6.050	0.230	0.088	0.969	7636.9
FMH_FLN_17003.1	FMH_FLN_17004	96	525	0	0.225	6.050	0.230	0.088	0.970	7636.9	5.728	0.222	0.088	1.018	7636.9
FMH_FLN_17004.1	FMH_FLN_18001	21	525	0	0.224	5.728	0.221	0.088	1.020	7636.9	5.657	0.198	0.088	1.185	7636.9
FMH_FLN_18001.1	FMH_FLN_18001A					2.171	0.842	0.150		5457.5	2.171	10.207	0.150		5457.5
FMH_FLN_18001.2	FMH_FLN_18001A					2.421	0.592	0.147		2242.6	2.421	9.957	0.147		2242.6
FMH_FLN_18001A.1	FMH_FLN_18001B	11	300	0	0.000	6.200	6.165	0.206	2.062	7699.5+	6.200	5.868	0.198	2.063	7695.8+
FMH_FLN_18001B.1	FMH_FLN_18001C	85	300	0	0.000	6.200	5.759	0.142	1.380	7695.2+	6.200	3.868	0.134	1.486	7732.8+
FMH_FLN_18001C.1	FMH_FLN_18001D	79	300	0	0.000	6.200	3.854	0.119	1.266	7732.3+	6.200	2.549	0.115	1.346	7768.5+
FMH_FLN_18001D.1	FMH_FLN_18001E	43	300	0	-0.094	6.200	2.521	0.109	1.265	7768.1x	6.700	1.419	0.108	1.357	7778.9x
FMH_FLN_18001E.1	FMH_FLN_18001F	31	300	0	0.000	6.700	1.374	0.104	1.310	7778.6+	6.700	0.942	0.103	1.347	7783.4+
FMH_FLN_18001F.1	FMH_FLN_18002	102	300	0	0.000	-1.800	9.423	0.102	0.797	7783.1+	-1.800	8.042	0.102	0.851	7789.2+
FMH_FLN_18002.1	FMH_FLN_18003	88	450	0	0.183	6.000	0.241	0.102	1.180	7789.2	5.556	0.243	0.101	1.154	7789.5
FMH_FLN_18003.1	FMH_FLN_18004	94	450	0	0.183	5.556	0.242	0.103	1.182	7960.0	5.084	0.241	0.101	1.171	7946.8
FMH_FLN_18004.1	FMH_FLN_15003	27	450	0	0.183	5.084	0.237	0.101	1.192	7946.8	4.945	0.222	0.101	1.294	7945.0
FMH_FLN_19001.1	FMH_FLN_19002	94	750	0	0.000	4.750	10.295	0.946	1.591	61421.2+	4.750	9.652	0.922	1.581	61471.3+
FMH_FLN_19002.1	FMH_FLN_19003	103	750	0	-1.232	4.750	9.543	0.891	1.532	61470.4x	6.300	7.360	0.855	1.559	61551.9x
FMH_FLN_19003.1	FMH_FLN_19004	98	750	0	-0.452	6.300	7.343	0.832	1.517	61551.1x	6.500	6.596	0.821	1.515	61623.2x
FMH_FLN_19004.1	FMH_FLN_19005	199	750	0	0.420	6.500	6.565	0.811	1.498	61622.5+	6.150	5.800	0.795	1.504	61741.9+
FMH_FLN_19005.1	FMH_FLN_19006	218	750	0	0.244	6.150	5.761	0.786	1.488	61741.3+	6.020	4.670	0.764	1.492	61810.5+
FMH_FLN_19006.1	FMH_FLN_19007	49	750	0	-0.904	6.020	4.632	0.758	1.482	61810.1x	6.420	3.963	0.755	1.506	61818.2x
FMH_FLN_19007.1	FMH_FLN_19008	51	750	0	-1.355	-2.080	12.429	0.751	1.193	61817.8x	-1.150	11.238	0.750	1.224	61824.6x
FMH_FLN_19008.1	FMH_FLN_19009	735	750	0	0.549	7.350	2.707	0.746	1.540	61824.2+	5.150	0.819	0.744	1.628	61836.7+
FMH_FLN_19009.1	SWH_STW_1	14	750	0	0.000	5.150	0.687	0.744	1.755	61836.7	5.150	0.535	0.744	2.207	61834.1
FMH_FLN_20001.1	FMH_FLN_09009	120	375	0	0.110	6.000	0.082	0.011	0.611	948.7	5.427	0.076	0.011	0.686	948.7
FMH_KTN_01001.1	FMH_KTN_01001A	185	225	0	0.058	29.300	0.073	0.012	1.063	1021.4	25.598	0.080	0.012	0.937	1021.4
FMH_KTN_01001A.1	FMH_KTN_01002	121	225	0	0.058	25.598	0.080	0.014	1.134	1234.3	23.170	0.080	0.014	1.121	1234.3
FMH_KTN_01002.1	FMH_KTN_01003	271	225	0	0.058	23.170	0.080	0.014	1.139	1251.1	17.730	0.080	0.014	1.139	1251.1
FMH_KTN_01003.1	FMH_KTN_03001	174	300	0	0.072	17.655	0.097	0.015	0.786	1336.8	16.490	0.096	0.015	0.795	1336.8
FMH_KTN_02001.1	FMH_KTN_02001A	126	300	0	0.072	22.900	0.038	0.002	0.340	150.0	22.056	0.048	0.002	0.240	150.0
FMH_KTN_02001A.1	FMH_KTN_02002	185	300	0	0.124	22.056	0.048	0.004	0.578	360.6	18.344	0.060	0.004	0.415	360.6
FMH_KTN_02002.1	FMH_KTN_03001	85	300	0	0.124	18.344	0.060	0.008	0.821	712.6	16.636	0.060	0.008	0.821	712.6
FMH_KTN_03001.1	FMH_KTN_03001A	142	375	0	0.296	16.415	0.084	0.027	1.435	2301.3	11.497	0.161	0.027	0.590	2301.3
FMH_KTN_03001A.1	FMH_KTN_03002	388	375	0	0.184	11.497	0.160	0.066	1.470	5725.1	6.321	0.160	0.066	1.470	5725.1
FMH_KTN_03002.1	FMH_KTN_03003	26	375	0	0.226	6.318	0.145	0.067	1.694	5762.0	5.794	0.145	0.067	1.694	5762.0
FMH_KTN_03003.1	FMH_KTN_03003A					3.544	1.006	0.100		3587.7	3.544	36.724	0.100		3587.7
FMH_KTN_03003.2	FMH_KTN_03003A					3.794	0.756	0.100		2174.3	3.794	36.474	0.100		2174.3
FMH_KTN_03003A.1	FMH_KTN_03003B	29	250	0	0.000	6.750	33.515	0.141	0.655	5760.1+	6.750	32.000	0.136	0.662	5769.6+
FMH_KTN_03003B.1	FMH_KTN_03003C	520	250	0	-0.073	6.750	31.993	0.093	0.451	5767.8x	16.250	13.325	0.070	0.602	5880.0x
FMH_KTN_03003C.1	FMH_KTN_03003D	346	250	0	-0.080	16.250	13.318	0.069	0.594	5879.6x	23.750	0.505	0.068	1.314	5877.8x
FMH_KTN_03003D.1	FMH_KTN_03004	165	250	0	0.066	23.750	0.470	0.068	1.317	5877.7+	21.250	0.213	0.068	1.535	5877.5
FMH_KTN_03004.1	FMH_KTN_03005	396	375	0	0.240	20.575	0.187	0.115	2.088	9931.8	11.557	0.203	0.115	1.890	9931.6
FMH_KTN_03005.1	FMH_KTN_03006	425	450	0	0.299	11.482	0.259	0.182	1.921	15681.2	5.812	0.259	0.182	1.921	15680.9

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	<		Max Depth (m)	Upstream			>	<		Downstream			>
						Invert Level (m AD)			Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)		Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	
FMH_KTN_03006.1	FMH_KTN_24001	97	600	0	0.296	5.662	0.338	0.182	1.106	15680.9	5.383	0.276	0.182	1.432	15680.8			
FMH_KTN_04001.1	FMH_KTN_25001	129	375	0	0.113	6.100	0.152	0.038	0.911	3301.2	5.452	0.142	0.038	1.000	3301.2			
FMH_KTN_07001.1	FMH_KTN_08001	111	300	0	0.072	19.000	0.043	0.002	0.400	212.9	18.253	0.041	0.002	0.423	212.9			
FMH_KTN_08001.1	FMH_KTN_08002	191	450	0	0.273	18.103	0.058	0.004	0.334	346.7	15.979	0.227	0.004	0.050	346.7			
FMH_KTN_08002.1	FMH_KTN_08002A	301	450	0	0.334	15.979	0.227	0.162	2.023	14022.5	10.949	0.265	0.162	1.665	14022.5			
FMH_KTN_08002A.1	FMH_KTN_10001	65	450	0	0.310	10.949	0.237	0.162	1.912	14022.5	10.019	0.237	0.162	1.912	14022.5			
FMH_KTN_09001.1	FMH_KTN_09001A	85	225	0	0.069	19.400	0.027	0.001	0.245	57.4	16.954	0.035	0.001	0.167	57.4			
FMH_KTN_09001A.1	FMH_KTN_10001	235	300	0	0.149	16.879	0.109	0.039	1.677	3363.8	10.148	0.109	0.039	1.677	3363.8			
FMH_KTN_10001.1	FMH_KTN_12001	132	525	0	0.411	9.923	0.266	0.201	1.831	17386.3	8.453	0.266	0.201	1.831	17386.3			
FMH_KTN_11001.1	FMH_KTN_11002	86	300	0	0.072	9.500	0.043	0.002	0.400	212.9	8.921	0.052	0.002	0.301	212.9			
FMH_KTN_11002.1	FMH_KTN_12001	106	300	0	0.072	8.921	0.052	0.004	0.491	346.7	8.210	0.054	0.004	0.469	346.7			
FMH_KTN_12001.1	FMH_KTN_14001	124	600	0	0.320	7.910	0.352	0.207	1.200	17866.8	7.494	0.295	0.207	1.494	17866.8			
FMH_KTN_13001.1	FMH_KTN_13002	156	375	0	0.159	15.000	0.122	0.036	1.142	3072.6	13.436	0.183	0.036	0.662	3072.6			
FMH_KTN_13002.1	FMH_KTN_14001	268	375	0	0.226	13.436	0.183	0.104	1.936	8969.0	8.066	0.183	0.104	1.936	8969.0			
FMH_KTN_14001.1	FMH_KTN_16001	256	750	0	0.579	7.344	0.430	0.359	1.371	31007.6	6.488	0.368	0.359	1.666	31007.6			
FMH_KTN_15001.1	FMH_KTN_15002	176	375	0	0.270	15.000	0.104	0.040	1.589	3417.5	9.963	0.135	0.040	1.102	3417.5			
FMH_KTN_15002.1	FMH_KTN_16001	90	375	0	0.291	9.963	0.135	0.075	2.091	6466.4	6.953	0.135	0.075	2.091	6466.4			
FMH_KTN_16001.1	FMH_KTN_23001	219	900	0	0.727	6.338	0.506	0.434	1.178	37474.0	5.899	0.545	0.434	1.076	37474.0			
FMH_KTN_18001.1	FMH_KTN_18001A	120	450	0	0.310	19.000	0.204	0.124	1.771	10693.3	17.273	0.204	0.124	1.771	10693.3			
FMH_KTN_18001A.1	FMH_KTN_18002	217	525	0	0.411	17.198	0.205	0.124	1.585	10693.3	14.780	0.284	0.124	1.036	10693.3			
FMH_KTN_18002.1	FMH_KTN_20001	166	525	0	0.225	14.780	0.279	0.124	1.057	10693.3	14.226	0.235	0.124	1.317	10693.3			
FMH_KTN_19001.1	FMH_KTN_19001A	182	375	0	0.130	18.500	0.039	0.002	0.356	183.9	17.282	0.104	0.002	0.085	183.9			
FMH_KTN_19001A.1	FMH_KTN_19002	222	450	0	0.183	17.207	0.179	0.060	1.022	5211.7	16.097	0.170	0.060	1.097	5211.7			
FMH_KTN_19002.1	FMH_KTN_19003	164	525	0	0.225	16.022	0.217	0.079	0.941	6865.6	15.473	0.305	0.079	0.610	6865.6			
FMH_KTN_19003.1	FMH_KTN_20001	102	525	0	0.225	15.473	0.304	0.142	1.096	12282.8	15.130	0.253	0.142	1.378	12282.8			
FMH_KTN_20001.1	FMH_KTN_22001	200	600	0	0.718	14.151	0.260	0.266	2.259	22976.1	10.802	0.260	0.266	2.259	22976.1			
FMH_KTN_21001.1	FMH_KTN_21002	227	450	0	0.164	11.000	0.121	0.025	0.729	2168.0	10.090	0.127	0.025	0.683	2168.0			
FMH_KTN_21002.1	FMH_KTN_22001	169	450	0	0.164	10.090	0.127	0.028	0.750	2380.9	9.412	0.114	0.028	0.868	2380.9			
FMH_KTN_22001.1	FMH_KTN_22002	160	675	0	0.620	9.187	0.329	0.294	1.697	25424.2	8.115	0.348	0.294	1.583	25424.2			
FMH_KTN_22002.1	FMH_KTN_22003	138	675	0	0.620	8.115	0.347	0.322	1.737	27824.5	7.191	0.347	0.322	1.737	27824.5			
FMH_KTN_22003.1	FMH_KTN_22004	302	750	0	0.820	7.116	0.342	0.346	1.763	29857.1	5.099	0.462	0.346	1.211	29857.1			
FMH_KTN_22004.1	FMH_KTN_22005	144	750	0	0.579	5.099	0.446	0.383	1.397	33067.7	4.617	0.380	0.383	1.702	33067.7			
FMH_KTN_22005.1	FMH_KTN_22005A	276	900	0	0.726	4.467	0.485	0.407	1.165	35196.6	3.914	0.483	0.407	1.172	35196.6			
FMH_KTN_22005A.1	FMH_KTN_22005B	124	900	0	0.726	3.914	0.482	0.414	1.194	35787.8	3.666	0.427	0.414	1.393	35787.8			
FMH_KTN_22005B.1	FMH_KTN_25001A	27	900	0	0.731	3.666	0.426	0.414	1.396	35787.8	3.611	0.375	0.414	1.651	35787.8			
FMH_KTN_23001.1	FMH_KTN_23002	129	900	0	0.725	5.899	0.541	0.487	1.220	42103.1	5.640	0.530	0.487	1.252	42103.1			
FMH_KTN_23002.1	FMH_KTN_24001	139	900	0	0.726	5.640	0.527	0.487	1.259	42103.1	5.361	0.408	0.487	1.739	42103.1			
FMH_KTN_24001.1	FMH_KTN_24002	78	1050	0	1.091	4.933	0.598	0.669	1.315	57784.0	4.777	0.597	0.669	1.317	57783.9			
FMH_KTN_24002.1	FMH_KTN_25001	56	1050	0	1.094	4.777	0.595	0.669	1.322	57783.9	4.664	0.592	0.669	1.329	57783.8			
FMH_KTN_25001.1	FMH_KTN_25001A	99	1050	0	1.091	4.664	0.583	0.707	1.433	61085.0	4.466	0.473	0.707	1.870	61084.9			
FMH_KTN_25001A.1	FMH_KTN_25002	28	1050	0	2.443	3.461	0.503	1.122	2.741	96923.2	3.173	0.503	1.122	2.741	96923.2			
FMH_KTN_25002.1	FMH_KTN_25002A					-1.577	1.353	0.400		34560.0	-1.577	18.388	0.400		34560.0			
FMH_KTN_25002.2	FMH_KTN_25002A					-1.327	1.103	0.400		34560.0	-1.327	18.138	0.400		34560.0			
FMH_KTN_25002.3	FMH_KTN_25002A					-1.077	0.853	0.400		16221.3	-1.077	17.888	0.400		16221.3			
FMH_KTN_25002.4	FMH_KTN_25002A					-0.827	0.603	0.400		11579.0	-0.827	17.638	0.400		11579.0			
FMH_KTN_25002A.1	FMH_KTN_25002AA	16	900	0	0.000	5.600	11.191	1.566	1.881	96918.9+	5.600	11.074	1.567	1.874	96922.3+			
FMH_KTN_25002AA.1	FMH_KTN_25002B	126	900	0	1.021	5.600	10.892	1.530	1.838	96921.0+	5.100	10.520	1.486	1.805	97079.7+			
FMH_KTN_25002B.1	FMH_KTN_25002C	801	900	0	-0.544	5.100	10.491	1.447	1.757	97078.4x	6.000	4.840	1.248	1.717	98365.3x			
FMH_KTN_25002C.1	FMH_KTN_25002D	81	900	0	-1.712	6.000	4.748	1.238	1.707	98364.9x	6.900	3.420	1.225	1.748	98414.7x			
FMH_KTN_25002D.1	FMH_KTN_25002E	379	900	0	1.319	6.900	3.380	1.216	1.737	98414.5x	4.400	3.820	1.188	1.672	98544.5x			
FMH_KTN_25002E.1	FMH_KTN_25002F	164	900	0	-0.400	4.400	3.647	1.184	1.674	98544.4x	4.500	2.681	1.180	1.709	98565.2x			
FMH_KTN_25002F.1	FMH_KTN_25002G	208	900	0	0.000	-4.000	11.137	1.179	1.399	98565.2+	-4.000	10.038	1.176	1.429	98575.1+			
FMH_KTN_25002G.1	SWH_STW_1	12	900	0	0.000	5.000	0.758	1.173	2.052	98575.1	5.000	0.641	1.172	2.417	98574.2			

Peaking Factor of 4

Start of run

configured for MS Windows

Produced on 14/02/2013 at 16:04

InfoWorks CS SIM

Summary results from Simulation

Version 11.0.1.20007 (Win32) dated August 2010

Licence Number - WS55550218PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 1440.00 min. (Requested simulation time 1440.00 min)

Files used:
Network: ...\\NET15#2.spb Network(PF3&4)_20130214 (Revision 2)
State:
Runoff: ...\\NET15#2.rpf Network(PF3&4)_20130214 (Revision 2) (InfoWorks 11.0.1.20007)
Rainfall:
DWF:
Inflows:
Levels:
RTC:
Results: ...\\SIM17.iwr

Total rainfall	=	0.0 m3
Total runoff	=	0.0 m3
Total inflow	=	216004.4 m3
Total outflow	=	216057.1 m3
Total lost	=	0.0 m3

***** Node data *****

Node	Ground Level	Max Level	Flood Volume	Flood Depth	Flood Area	Max Stored	Inflow	Vol Balance	Vol Balance
Reference	(m AD)	(m AD)	(m3)	(m)	(m2)	(m3)	(m3)	(m3)	(%)
FMH1021540	10.550	7.696	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH1028480	9.070	5.176	0.0	0.000	0.0	0.1	886.7	0.000	0.000
FMH_FLN_01001	7.500	6.082	0.0	0.000	0.0	0.2	4917.7	0.000	0.000
FMH_FLN_01002	8.000	5.754	0.0	0.000	0.0	0.3	5010.9	0.000	0.000
FMH_FLN_02001	9.000	7.811	0.0	0.000	0.0	0.4	11431.9	0.000	0.000
FMH_FLN_03001	11.500	10.189	0.0	0.000	0.0	0.1	1120.0	0.000	0.000
FMH_FLN_03001A	11.500	10.143	0.0	0.000	0.0	0.0	211.7	0.000	0.000
FMH_FLN_03001B	11.500	9.385	0.0	0.000	0.0	0.1	197.1	0.000	0.000
FMH_FLN_03001C	11.500	8.636	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_04001	11.600	7.825	0.0	0.000	0.0	0.2	2397.8	0.000	0.000
FMH_FLN_05001	10.000	7.090	0.0	0.000	0.0	0.5	0.0	0.000	0.000
FMH_FLN_05002	9.500	6.583	0.0	0.000	0.0	0.5	2221.1	0.000	0.000
FMH_FLN_06001	10.000	8.540	0.0	0.000	0.0	0.0	177.3	0.000	0.000
FMH_FLN_06001A	10.000	8.263	0.0	0.000	0.0	0.1	277.1	0.000	0.000
FMH_FLN_06001B	10.000	7.986	0.0	0.000	0.0	0.2	4572.0	0.000	0.000
FMH_FLN_06002	10.500	7.408	0.0	0.000	0.0	0.3	2806.6	0.000	0.000
FMH_FLN_07001	9.500	5.288	0.0	0.000	0.0	1.2	7868.8	0.000	0.000
FMH_FLN_09001	9.500	4.695	0.0	0.000	0.0	1.2	1832.5	0.000	0.000
FMH_FLN_09001A	9.500	4.432	0.0	0.000	0.0	1.2	181.8	0.000	0.000
FMH_FLN_09002	9.000	4.151	0.0	0.000	0.0	1.2	56.0	0.000	0.000
FMH_FLN_09003	9.000	3.792	0.0	0.000	0.0	1.1	67.2	0.000	0.000
FMH_FLN_09004	9.000	0.692	0.0	0.000	0.0	44.4	0.0	0.000	0.000
FMH_FLN_09004A	9.000	7.196	0.0	0.000	0.0	1.4	0.0	0.000	0.000
FMH_FLN_09004B	9.000	7.141	0.0	0.000	0.0	1.4	0.0	0.000	0.000
FMH_FLN_09005	9.000	6.846	0.0	0.000	0.0	1.3	177.3	0.000	0.000
FMH_FLN_09006	9.000	6.530	0.0	0.000	0.0	1.3	277.1	0.000	0.000
FMH_FLN_09007	8.500	6.376	0.0	0.000	0.0	1.3	1277.3	0.000	0.000
FMH_FLN_09008	8.500	6.089	0.0	0.000	0.0	1.2	1338.8	0.000	0.000
FMH_FLN_09009	8.500	5.511	0.0	0.000	0.0	1.3	177.3	0.000	0.000
FMH_FLN_10001	14.500	13.056	0.0	0.000	0.0	0.1	679.1	0.000	0.000
FMH_FLN_10001A	10.600	8.654	0.0	0.000	0.0	0.1	2245.2	0.000	0.000
FMH_FLN_10001B	9.200	7.490	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002	8.000	6.595	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FMH_FLN_10002A	7.500	6.100	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10002B	7.500	5.941	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10002C	7.500	5.734	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10002D	7.500	5.491	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10002E	7.500	5.272	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10002F	7.500	5.122	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10002G	7.500	5.031	0.0	0.000	0.0	0.2	0.0	0.000	0.000
FMH_FLN_10003	7.500	3.589	0.0	0.000	0.0	5.7	0.0	0.000	0.000
FMH_FLN_10003A	7.500	15.997	0.0	0.000	0.0	9.6	0.0	0.000	0.000
FMH_FLN_10003B	7.500	13.194	0.0	0.000	0.0	15.3	0.0	0.000	0.000
FMH_FLN_10003C	7.500	5.522	0.0	0.000	0.0	11.2	1475.4	0.000	0.000
FMH_FLN_10004	8.000	5.291	0.0	0.000	0.0	0.3	2447.7	0.000	0.000
FMH_FLN_11001	8.500	5.094	0.0	0.000	0.0	1.4	177.3	0.000	0.000
FMH_FLN_12001	8.000	6.141	0.0	0.000	0.0	0.1	3267.6	0.000	0.000
FMH_FLN_13001	8.500	4.548	0.0	0.000	0.0	1.5	3045.6	0.000	0.000
FMH_FLN_14001	8.000	6.134	0.0	0.000	0.0	0.1	4169.9	0.000	0.000
FMH_FLN_15001	7.500	3.911	0.0	0.000	0.0	1.5	3254.2	0.000	0.000
FMH_FLN_15002	6.500	3.465	0.0	0.000	0.0	1.4	0.0	0.000	0.000
FMH_FLN_15003	6.500	-0.423	0.0	0.000	0.0	55.5	0.0	0.000	0.000
FMH_FLN_15003A	6.500	21.612	0.0	0.000	0.0	18.3	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
FMH_FLN_16001	7.500	6.131	0.0	0.000	0.0	0.0	84.2	0.000	0.000
FMH_FLN_16002	7.500	5.050	0.0	0.000	0.0	0.0	0.0	0.000	0.000
FMH_FLN_16003	7.500	4.622	0.0	0.000	0.0	0.0	0.0	0.000	0.000
FMH_FLN_17001	9.000	7.033	0.0	0.000	0.0	0.0	100.8	0.000	0.000
FMH_FLN_17002	9.000	6.618	0.0	0.000	0.0	0.4	10081.8	0.000	0.000
FMH_FLN_17003	8.000	6.321	0.0	0.000	0.0	0.4	0.0	0.000	0.000
FMH_FLN_17004	7.500	5.986	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_FLN_18001	7.500	3.460	0.0	0.000	0.0	19.6	0.0	0.000	0.000
FMH_FLN_18001A	7.500	15.471	0.0	0.000	0.0	9.3	0.0	0.000	0.000
FMH_FLN_18001B	7.500	14.887	0.0	0.000	0.0	8.7	0.0	0.000	0.000
FMH_FLN_18001C	7.500	12.053	0.0	0.000	0.0	5.9	0.0	0.000	0.000
FMH_FLN_18001D	7.500	10.021	0.0	0.000	0.0	3.8	0.0	0.000	0.000
FMH_FLN_18001E	8.000	9.042	0.0	0.000	0.0	2.3	0.0	0.000	0.000
FMH_FLN_18001F	8.000	8.340	0.0	0.000	0.0	10.1	0.0	0.000	0.000
FMH_FLN_18002	8.000	6.273	0.0	0.000	0.0	9.3	0.0	0.000	0.000
FMH_FLN_18003	7.500	5.831	0.0	0.000	0.0	0.3	227.4	0.000	0.000
FMH_FLN_18004	7.000	5.362	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_FLN_19001	6.500	21.307	0.0	0.000	0.0	17.9	0.0	0.000	0.000
FMH_FLN_19002	6.500	20.311	0.0	0.000	0.0	17.0	0.0	0.000	0.000
FMH_FLN_19003	8.050	19.252	0.0	0.000	0.0	14.3	0.0	0.000	0.000
FMH_FLN_19004	8.250	18.279	0.0	0.000	0.0	13.2	0.0	0.000	0.000
FMH_FLN_19005	7.900	16.321	0.0	0.000	0.0	11.6	0.0	0.000	0.000
FMH_FLN_19006	7.770	14.213	0.0	0.000	0.0	9.6	0.0	0.000	0.000
FMH_FLN_19007	8.170	13.692	0.0	0.000	0.0	23.9	0.0	0.000	0.000
FMH_FLN_19008	9.100	13.212	0.0	0.000	0.0	22.5	0.0	0.000	0.000
FMH_FLN_19009	6.900	6.307	0.0	0.000	0.0	2.1	0.0	0.000	0.000
FMH_FLN_20001	8.500	6.094	0.0	0.000	0.0	0.1	1265.0	0.000	0.000
FMH_KTN_01001	31.000	29.384	0.0	0.000	0.0	0.1	1361.9	0.000	0.000
FMH_KTN_01001A	27.000	25.690	0.0	0.000	0.0	0.1	283.8	0.000	0.000
FMH_KTN_01002	24.500	23.263	0.0	0.000	0.0	0.1	22.4	0.000	0.000
FMH_KTN_01003	19.000	17.767	0.0	0.000	0.0	0.1	114.2	0.000	0.000
FMH_KTN_02001	24.500	22.942	0.0	0.000	0.0	0.0	200.0	0.000	0.000
FMH_KTN_02001A	25.000	22.108	0.0	0.000	0.0	0.1	280.8	0.000	0.000
FMH_KTN_02002	20.000	18.411	0.0	0.000	0.0	0.1	469.3	0.000	0.000
FMH_KTN_03001	18.000	16.511	0.0	0.000	0.0	0.1	336.0	0.000	0.000
FMH_KTN_03001A	13.000	11.685	0.0	0.000	0.0	0.2	4565.0	0.000	0.000
FMH_KTN_03002	8.000	6.487	0.0	0.000	0.0	0.2	11.2	0.000	0.000
FMH_KTN_03003	8.000	5.025	0.0	0.000	0.0	14.4	0.0	0.000	0.000
FMH_KTN_03003A	8.000	50.862	0.0	0.000	0.0	44.1	0.0	0.000	0.000
FMH_KTN_03003B	8.000	49.900	0.0	0.000	0.0	43.2	0.0	0.000	0.000
FMH_KTN_03003C	17.500	35.213	0.0	0.000	0.0	19.0	0.0	0.000	0.000
FMH_KTN_03003D	25.000	26.120	0.0	0.000	0.0	2.4	0.0	0.000	0.000
FMH_KTN_03004	22.500	20.805	0.0	0.000	0.0	0.2	5405.7	0.000	0.000
FMH_KTN_03005	13.000	11.850	0.0	0.000	0.0	0.4	7666.1	0.000	0.000
FMH_KTN_03006	7.500	6.070	0.0	0.000	0.0	0.6	0.0	0.000	0.000
FMH_KTN_04001	7.500	6.278	0.0	0.000	0.0	0.2	4401.6	0.000	0.000
FMH_KTN_07001	20.500	19.048	0.0	0.000	0.0	0.0	283.8	0.000	0.000
FMH_KTN_08001	23.500	18.165	0.0	0.000	0.0	0.1	178.4	0.000	0.000
FMH_KTN_08002	17.500	16.254	0.0	0.000	0.0	0.3	18234.5	0.000	0.000
FMH_KTN_08002A	12.500	11.662	0.0	0.000	0.0	0.8	0.0	0.000	0.000
FMH_KTN_09001	21.000	19.428	0.0	0.000	0.0	0.0	76.5	0.000	0.000
FMH_KTN_09001A	18.500	17.007	0.0	0.000	0.0	0.1	4408.5	0.000	0.000
FMH_KTN_10001	11.500	10.292	0.0	0.000	0.0	0.5	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
FMH_KTN_11001	11.000	9.548	0.0	0.000	0.0	0.0	283.8	0.000	0.000
FMH_KTN_11002	10.500	8.980	0.0	0.000	0.0	0.1	178.4	0.000	0.000
FMH_KTN_12001	10.000	8.345	0.0	0.000	0.0	0.6	178.4	0.000	0.000
FMH_KTN_13001	16.500	15.142	0.0	0.000	0.0	0.1	4096.8	0.000	0.000
FMH_KTN_13002	15.000	13.657	0.0	0.000	0.0	0.2	7861.9	0.000	0.000
FMH_KTN_14001	9.500	7.890	0.0	0.000	0.0	1.0	5562.4	0.000	0.000
FMH_KTN_15001	16.500	15.119	0.0	0.000	0.0	0.1	4556.6	0.000	0.000
FMH_KTN_15002	11.500	10.119	0.0	0.000	0.0	0.2	4065.3	0.000	0.000
FMH_KTN_16001	8.500	6.984	0.0	0.000	0.0	1.4	0.0	0.000	0.000
FMH_KTN_18001	20.500	19.241	0.0	0.000	0.0	0.3	14257.7	0.000	0.000
FMH_KTN_18001A	19.000	17.436	0.0	0.000	0.0	0.3	0.0	0.000	0.000
FMH_KTN_18002	16.500	15.134	0.0	0.000	0.0	0.5	0.0	0.000	0.000
FMH_KTN_19001	20.000	18.543	0.0	0.000	0.0	0.0	245.2	0.000	0.000
FMH_KTN_19001A	21.500	17.417	0.0	0.000	0.0	0.2	6703.8	0.000	0.000
FMH_KTN_19002	18.000	16.277	0.0	0.000	0.0	0.3	2205.2	0.000	0.000
FMH_KTN_19003	17.000	15.844	0.0	0.000	0.0	0.5	7223.0	0.000	0.000
FMH_KTN_20001	17.000	14.472	0.0	0.000	0.0	0.5	0.0	0.000	0.000
FMH_KTN_21001	12.500	11.140	0.0	0.000	0.0	0.2	2890.7	0.000	0.000
FMH_KTN_21002	12.000	10.237	0.0	0.000	0.0	0.2	283.8	0.000	0.000
FMH_KTN_22001	12.500	9.616	0.0	0.000	0.0	0.7	89.6	0.000	0.000
FMH_KTN_22002	10.000	8.535	0.0	0.000	0.0	0.7	3200.4	0.000	0.000
FMH_KTN_22003	9.000	7.522	0.0	0.000	0.0	0.7	2710.1	0.000	0.000
FMH_KTN_22004	7.500	5.681	0.0	0.000	0.0	1.0	4280.9	0.000	0.000
FMH_KTN_22005	7.500	5.055	0.0	0.000	0.0	1.3	2838.4	0.000	0.000
FMH_KTN_22005A	7.500	4.516	0.0	0.000	0.0	1.3	788.4	0.000	0.000
FMH_KTN_22005B	7.500	4.279	0.0	0.000	0.0	1.3	0.0	0.000	0.000
FMH_KTN_23001	8.000	6.569	0.0	0.000	0.0	1.5	6172.1	0.000	0.000
FMH_KTN_23002	8.000	6.276	0.0	0.000	0.0	1.4	0.0	0.000	0.000
FMH_KTN_24001	7.500	5.676	0.0	0.000	0.0	1.9	0.0	0.000	0.000
FMH_KTN_24002	7.500	5.503	0.0	0.000	0.0	1.9	0.0	0.000	0.000
FMH_KTN_25001	7.500	5.379	0.0	0.000	0.0	1.8	0.0	0.000	0.000
FMH_KTN_25001A	7.500	4.207	0.0	0.000	0.0	1.9	67.2	0.000	0.000
FMH_KTN_25002	7.500	-0.128	0.0	0.000	0.0	86.9	0.0	0.000	0.000
FMH_KTN_25002A	7.500	23.547	0.0	0.000	0.0	20.2	0.0	0.000	0.000
FMH_KTN_25002AA	7.500	23.353	0.0	0.000	0.0	20.0	0.0	0.000	0.000
FMH_KTN_25002B	7.000	21.961	0.0	0.000	0.0	19.1	0.0	0.000	0.000
FMH_KTN_25002C	7.900	14.496	0.0	0.000	0.0	10.7	0.0	0.000	0.000
FMH_KTN_25002D	8.800	13.671	0.0	0.000	0.0	9.0	0.0	0.000	0.000
FMH_KTN_25002E	6.300	10.189	0.0	0.000	0.0	8.0	0.0	0.000	0.000
FMH_KTN_25002F	6.400	8.432	0.0	0.000	0.0	24.6	0.0	0.000	0.000
FMH_KTN_25002G	6.900	6.475	0.0	0.000	0.0	22.7	0.0	0.000	0.000
FMH_KTN_27001	20.000	18.525	0.0	0.000	0.0	0.0	38.0	0.000	0.000
FMH_KTN_28001	10.000	8.661	0.0	0.000	0.0	0.2	4923.5	0.000	0.000

A %% indicates water lost from the system.

***** Link data *****

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	<		Upstream			Total Flow (m3)	>		Downstream					Total Flow (m3)
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Invert Level (m AD)		Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)					
FMH1021540.1	FMH1021541	17	600	0	0.530	7.560	0.135	0.057	1.191	4923.5	7.400	0.135	0.057	1.191	4923.5				
FMH1028480.1	FMH1028481	29	300	0	0.060	5.090	0.086	0.010	0.612	886.7	4.950	0.078	0.010	0.703	886.7				
FMH_FLN_01001.1	FMH_FLN_01002	124	525	0	0.225	5.900	0.182	0.057	0.856	4917.7	5.486	0.268	0.057	0.513	4917.7				
FMH_FLN_01002.1	FMH_FLN_07001	113	525	0	0.225	5.486	0.267	0.115	1.039	9928.6	5.107	0.226	0.115	1.286	9928.6				
FMH_FLN_02001.1	FMH_FLN_05001	112	450	0	0.164	7.500	0.308	0.132	1.140	11431.9	7.050	0.255	0.132	1.422	11431.9				
FMH_FLN_03001.1	FMH_FLN_03001B	111	300	0	0.072	10.100	0.089	0.013	0.743	1120.0	9.356	0.088	0.013	0.752	1120.0				
FMH_FLN_03001A.1	FMH_FLN_03001B	107	300	0	0.072	10.100	0.043	0.002	0.399	211.7	9.383	0.041	0.002	0.422	211.7				
FMH_FLN_03001B.1	FMH_FLN_03001C	157	375	0	0.110	9.281	0.104	0.018	0.713	1528.8	8.532	0.104	0.018	0.712	1528.8				
FMH_FLN_03001C.1	FMH_FLN_04001	167	375	0	0.110	8.532	0.104	0.018	0.713	1528.8	7.736	0.096	0.018	0.792	1528.8				
FMH_FLN_04001.1	FMH_FLN_05001	191	450	0	0.164	7.661	0.164	0.045	0.870	3926.6	6.896	0.194	0.045	0.692	3926.6				
FMH_FLN_05001.1	FMH_FLN_05002	185	600	0	0.297	6.746	0.337	0.178	1.088	15358.5	6.216	0.368	0.178	0.979	15358.5				
FMH_FLN_05002.1	FMH_FLN_07001	159	600	0	0.297	6.216	0.366	0.203	1.127	17579.6	5.759	0.293	0.203	1.486	17579.6				
FMH_FLN_06001.1	FMH_FLN_06001A	62	375	0	0.110	8.500	0.040	0.002	0.319	177.3	8.204	0.059	0.002	0.184	177.3				
FMH_FLN_06001A.1	FMH_FLN_06001B	69	375	0	0.110	8.204	0.059	0.005	0.472	454.4	7.872	0.114	0.005	0.186	454.4				
FMH_FLN_06001B.1	FMH_FLN_06002	142	450	0	0.160	7.797	0.189	0.058	0.920	5026.4	7.249	0.167	0.058	1.086	5026.4				
FMH_FLN_06002.1	FMH_FLN_07001	134	525	0	0.225	7.174	0.233	0.091	0.975	7833.0	6.726	0.200	0.091	1.194	7833.0				
FMH_FLN_07001.1	FMH_FLN_09001	304	900	0	0.726	4.732	0.553	0.500	1.220	43210.0	4.123	0.573	0.500	1.171	43210.0				
FMH_FLN_09001.1	FMH_FLN_09001A	132	900	0	0.727	4.123	0.569	0.521	1.229	45042.5	3.857	0.575	0.521	1.214	45042.5				
FMH_FLN_09001A.1	FMH_FLN_09002	136	900	0	0.725	3.857	0.569	0.523	1.234	45224.2	3.585	0.566	0.523	1.242	45224.2				
FMH_FLN_09002.1	FMH_FLN_09003	142	900	0	0.727	3.585	0.558	0.524	1.264	45280.2	3.300	0.493	0.524	1.470	45280.2				
FMH_FLN_09003.1	FMH_FLN_09004	28	900	0	0.725	3.300	0.484	0.525	1.504	45347.4	3.243	0.424	0.525	1.781	45347.4				
FMH_FLN_09004.1	FMH_FLN_09004A					-1.507	2.199	0.150		12960.0	-1.507	8.703	0.150		12960.0				
FMH_FLN_09004.2	FMH_FLN_09004A					-1.257	1.949	0.150		12960.0	-1.257	8.453	0.150		12960.0				
FMH_FLN_09004.3	FMH_FLN_09004A					-1.007	1.699	0.150		10361.8	-1.007	8.203	0.150		10361.8				
FMH_FLN_09004.4	FMH_FLN_09004A					-0.757	1.449	0.150		9047.7	-0.757	7.953	0.150		9047.7				
FMH_FLN_09004A.1	FMH_FLN_09004B	27	900	0	0.729	6.550	0.643	0.600	1.450	45329.4	6.495	0.648	0.605	1.358	45368.5				
FMH_FLN_09004B.1	FMH_FLN_09005	135	900	0	0.726	6.495	0.622	0.603	1.408	45368.4	6.225	0.622	0.590	1.294	45455.4				
FMH_FLN_09005.1	FMH_FLN_09006	154	900	0	0.726	6.225	0.613	0.591	1.315	45632.7	5.917	0.613	0.578	1.264	45693.4				
FMH_FLN_09006.1	FMH_FLN_09007	75	900	0	0.726	5.917	0.609	0.581	1.280	45970.6	5.766	0.611	0.575	1.260	45978.1				
FMH_FLN_09007.1	FMH_FLN_09008	122	900	0	0.726	5.766	0.605	0.589	1.307	47255.5	5.521	0.569	0.584	1.380	47253.3				
FMH_FLN_09008.1	FMH_FLN_09009	76	900	0	0.728	5.521	0.563	0.599	1.432	48592.1	5.368	0.454	0.598	1.860	48590.6				
FMH_FLN_09009.1	FMH_FLN_11001	136	900	0	0.727	4.902	0.605	0.614	1.356	50032.9	4.628	0.467	0.608	1.860	50021.8				
FMH_FLN_10001.1	FMH_FLN_10001A	133	375	0	0.291	13.000	0.056	0.008	0.764	679.1	8.560	0.094	0.008	0.363	679.1				
FMH_FLN_10001A.1	FMH_FLN_10001B	35	375	0	0.291	8.560	0.094	0.034	1.568	2924.3	7.390	0.100	0.034	1.431	2924.3				
FMH_FLN_10001B.1	FMH_FLN_10002	35	375	0	0.252	7.390	0.100	0.034	1.436	2924.3	6.495	0.101	0.034	1.421	2924.3				
FMH_FLN_10002.1	FMH_FLN_10002A	18	375	0	0.252	6.495	0.100	0.034	1.436	2924.3	6.033	0.100	0.034	1.436	2924.3				
FMH_FLN_10002A.1	FMH_FLN_10002B	41	450	0	0.161	5.958	0.142	0.034	0.789	2924.3	5.799	0.142	0.034	0.786	2924.3				
FMH_FLN_10002B.1	FMH_FLN_10002C	53	450	0	0.161	5.799	0.142	0.034	0.788	2924.3	5.592	0.142	0.034	0.787	2924.3				
FMH_FLN_10002C.1	FMH_FLN_10002D	63	450	0	0.160	5.592	0.142	0.034	0.787	2924.3	5.349	0.142	0.034	0.788	2924.3				
FMH_FLN_10002D.1	FMH_FLN_10002E	56	450	0	0.161	5.349	0.142	0.034	0.788	2924.3	5.130	0.142	0.034	0.786	2924.3				
FMH_FLN_10002E.1	FMH_FLN_10002F	39	450	0	0.160	5.130	0.142	0.034	0.787	2924.3	4.980	0.142	0.034	0.788	2924.3				
FMH_FLN_10002F.1	FMH_FLN_10002G	23	450	0	0.160	4.980	0.142	0.034	0.788	2924.3	4.891	0.140	0.034	0.800	2924.3				
FMH_FLN_10002G.1	FMH_FLN_10003	22	450	0	0.161	4.891	0.140	0.034	0.801	2924.3	4.803	0.127	0.034	0.923	2924.3				
FMH_FLN_10003.1	FMH_FLN_10003A					2.553	1.036	0.050		1826.8	2.553	13.444	0.050		1826.8				
FMH_FLN_10003.2	FMH_FLN_10003A					2.803	0.786	0.050		1097.5	2.803	13.194	0.050		1097.5				
FMH_FLN_10003A.1	FMH_FLN_10003B	26	150	0	0.000	6.350	9.639	0.049	1.077	2922.9+	6.350	6.849	0.048	1.299	2917.2+				
FMH_FLN_10003B.1	FMH_FLN_10003C	118	150	0	0.000	-2.150	15.329	0.036	0.569	2916.8+	-2.150	7.673	0.035	0.852	2913.9+				
FMH_FLN_10003C.1	FMH_FLN_10004	96	600	0	0.297	5.350	0.172	0.052	0.777	4389.3	5.075	0.216	0.051	0.563	4390.7				
FMH_FLN_10004.1	FMH_FLN_11001	111	600	0	0.297	5.075	0.216	0.080	0.874	6838.4	4.758	0.336	0.084	0.591	6834.8				
FMH_FLN_11001.1	FMH_FLN_13001	173	900	0	0.813	4.458	0.626	0.687	1.459	57033.9	4.023	0.525	0.681	1.788	57014.4				
FMH_FLN_12001.1	FMH_FLN_13001	153	300	0	0.088	6.000	0.141	0.038	1.157	3267.6	4.467	0.141	0.038	1.157	3267.6				
FMH_FLN_13001.1	FMH_FLN_15001	171	900	0	0.813	3.867	0.667	0.754	1.494	63327.5	3.437	0.511	0.751	2.014	63312.5				
FMH_FLN_14001.1	FMH_FLN_15001	108	300	0	0.124	6.000	0.133	0.048	1.588	4169.9	3.834	0.133	0.048	1.588	4169.9				

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	<		Upstream		>		Downstream		>	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)
FMH_FLN_15001.1	FMH_FLN_15002	123	900	0	0.938	3.234	0.663	0.837	1.668	70736.6	2.823	0.646	0.834	1.708	70731.2
FMH_FLN_15002.1	FMH_FLN_15003	28	900	0	0.938	2.823	0.592	0.834	1.881	70731.2	2.727	0.540	0.834	2.094	70730.7
FMH_FLN_15003.1	FMH_FLN_15003A					-1.920	1.497	0.250		21600.0	-1.920	23.532	0.250		21600.0
FMH_FLN_15003.2	FMH_FLN_15003A					-1.670	1.247	0.250		21600.0	-1.670	23.282	0.250		21600.0
FMH_FLN_15003.3	FMH_FLN_15003A					-1.420	0.997	0.250		21552.1	-1.420	23.032	0.250		21552.1
FMH_FLN_15003.4	FMH_FLN_15003A					-1.170	0.747	0.250		16405.2	-1.170	22.782	0.250		16405.2
FMH_FLN_15003A.1	FMH_FLN_19001	28	750	0	0.000	4.750	16.847	0.998	1.473	81156.6+	4.750	16.562	0.997	1.483	81155.1+
FMH_FLN_16001.1	FMH_FLN_16002	162	300	0	0.072	6.100	0.031	0.001	0.250	84.2	5.019	0.031	0.001	0.250	84.2
FMH_FLN_16002.1	FMH_FLN_16003	64	300	0	0.072	5.019	0.031	0.001	0.250	84.2	4.591	0.031	0.001	0.250	84.2
FMH_FLN_16003.1	FMH_FLN_18001	25	300	0	0.072	4.591	0.031	0.001	0.250	84.2	4.421	0.030	0.001	0.262	84.2
FMH_FLN_17001.1	FMH_FLN_17002	64	300	0	0.072	7.000	0.033	0.001	0.277	100.8	6.570	0.048	0.001	0.161	100.8
FMH_FLN_17002.1	FMH_FLN_17003	88	525	0	0.225	6.345	0.271	0.118	1.043	10182.6	6.050	0.271	0.118	1.044	10182.6
FMH_FLN_17003.1	FMH_FLN_17004	96	525	0	0.225	6.050	0.271	0.118	1.046	10182.6	5.728	0.258	0.118	1.114	10182.6
FMH_FLN_17004.1	FMH_FLN_18001	21	525	0	0.224	5.728	0.257	0.118	1.117	10182.6	5.657	0.229	0.118	1.297	10182.6
FMH_FLN_18001.1	FMH_FLN_18001A					2.171	1.289	0.150		5967.7	2.171	13.300	0.150		5967.7
FMH_FLN_18001.2	FMH_FLN_18001A					2.421	1.039	0.150		4298.6	2.421	13.050	0.150		4298.6
FMH_FLN_18001A.1	FMH_FLN_18001B	11	300	0	0.000	6.200	9.254	0.237	1.931	10263.9+	6.200	8.702	0.235	1.973	10252.9+
FMH_FLN_18001B.1	FMH_FLN_18001C	85	300	0	0.000	6.200	8.583	0.174	1.477	10250.7+	6.200	5.855	0.163	1.566	10202.3+
FMH_FLN_18001C.1	FMH_FLN_18001D	79	300	0	0.000	6.200	5.836	0.145	1.371	10201.4+	6.200	3.824	0.141	1.508	10187.9+
FMH_FLN_18001D.1	FMH_FLN_18001E	43	300	0	-0.094	6.200	3.787	0.133	1.420	10187.7x	6.700	2.348	0.131	1.546	10186.4x
FMH_FLN_18001E.1	FMH_FLN_18001F	31	300	0	0.000	6.700	2.289	0.127	1.496	10186.3+	6.700	1.645	0.127	1.563	10186.3+
FMH_FLN_18001F.1	FMH_FLN_18002	102	300	0	0.000	-1.800	10.119	0.124	0.938	10186.3+	-1.800	8.074	0.124	1.034	10187.0+
FMH_FLN_18002.1	FMH_FLN_18003	88	450	0	0.183	6.000	0.272	0.124	1.234	10187.0	5.556	0.275	0.121	1.190	10194.1
FMH_FLN_18003.1	FMH_FLN_18004	94	450	0	0.183	5.556	0.272	0.124	1.232	10421.4	5.084	0.279	0.123	1.184	10423.2
FMH_FLN_18004.1	FMH_FLN_15003	27	450	0	0.183	5.084	0.266	0.123	1.255	10423.2	4.945	0.245	0.122	1.383	10423.0
FMH_FLN_19001.1	FMH_FLN_19002	94	750	0	0.000	4.750	16.506	0.996	1.466	81154.4+	4.750	15.571	0.993	1.485	81147.7+
FMH_FLN_19002.1	FMH_FLN_19003	103	750	0	-1.232	4.750	15.455	0.991	1.480	81147.1x	6.300	12.954	0.988	1.555	81140.3x
FMH_FLN_19003.1	FMH_FLN_19004	98	750	0	-0.452	6.300	12.932	0.987	1.550	81139.9x	6.500	11.783	0.984	1.585	81134.8x
FMH_FLN_19004.1	FMH_FLN_19005	199	750	0	0.420	6.500	11.743	0.982	1.581	81134.4+	6.150	10.176	0.978	1.633	81127.9+
FMH_FLN_19005.1	FMH_FLN_19006	218	750	0	0.244	6.150	10.123	0.976	1.633	81127.6+	6.020	8.198	0.971	1.709	81124.6+
FMH_FLN_19006.1	FMH_FLN_19007	49	750	0	-0.904	6.020	8.145	0.970	1.709	81124.4x	6.420	7.290	0.969	1.747	81124.1x
FMH_FLN_19007.1	FMH_FLN_19008	51	750	0	-1.355	-2.080	15.742	0.968	1.420	81123.9x	-1.150	14.364	0.967	1.463	81123.7x
FMH_FLN_19008.1	FMH_FLN_19009	735	750	0	0.549	7.350	5.821	0.966	1.812	81123.6+	5.150	1.163	0.963	2.078	81122.7+
FMH_FLN_19009.1	SWH_STW_1	14	750	0	0.000	5.150	0.805	0.963	2.116	81122.7+	5.150	0.606	0.963	2.518	81121.2
FMH_FLN_20001.1	FMH_FLN_09009	120	375	0	0.110	6.000	0.094	0.015	0.671	1265.0	5.427	0.087	0.015	0.749	1265.0
FMH_KTN_01001.1	FMH_KTN_01001A	185	225	0	0.058	29.300	0.084	0.016	1.171	1361.9	25.598	0.092	0.016	1.029	1361.9
FMH_KTN_01001A.1	FMH_KTN_01002	121	225	0	0.058	25.598	0.092	0.019	1.245	1645.7	23.170	0.093	0.019	1.231	1645.7
FMH_KTN_01002.1	FMH_KTN_01003	271	225	0	0.058	23.170	0.093	0.019	1.250	1668.1	17.730	0.093	0.019	1.250	1668.1
FMH_KTN_01003.1	FMH_KTN_03001	174	300	0	0.072	17.655	0.112	0.021	0.858	1782.4	16.490	0.111	0.021	0.871	1782.4
FMH_KTN_02001.1	FMH_KTN_02001A	126	300	0	0.072	22.900	0.042	0.002	0.389	200.0	22.056	0.052	0.002	0.281	200.0
FMH_KTN_02001A.1	FMH_KTN_02002	185	300	0	0.124	22.056	0.052	0.006	0.676	480.8	18.344	0.067	0.006	0.472	480.8
FMH_KTN_02002.1	FMH_KTN_03001	85	300	0	0.124	18.344	0.067	0.011	0.933	950.1	16.636	0.067	0.011	0.933	950.1
FMH_KTN_03001.1	FMH_KTN_03001A	142	375	0	0.296	16.415	0.095	0.036	1.615	3068.5	11.497	0.188	0.036	0.642	3068.5
FMH_KTN_03001A.1	FMH_KTN_03002	388	375	0	0.184	11.497	0.188	0.088	1.599	7633.5	6.321	0.188	0.088	1.599	7633.5
FMH_KTN_03002.1	FMH_KTN_03003	26	375	0	0.226	6.318	0.168	0.089	1.851	7682.7	5.794	0.168	0.089	1.851	7682.7
FMH_KTN_03003.1	FMH_KTN_03003A					3.544	1.481	0.100		6351.5	3.544	47.318	0.100		6351.5
FMH_KTN_03003.2	FMH_KTN_03003A					3.794	1.231	0.100		1332.0	3.794	47.068	0.100		1332.0
FMH_KTN_03003A.1	FMH_KTN_03003B	29	250	0	0.000	6.750	44.111	0.142	0.540	7682.5+	6.750	43.151	0.139	0.538	7668.2+
FMH_KTN_03003B.1	FMH_KTN_03003C	520	250	0	-0.073	6.750	43.144	0.106	0.410	7667.4x	16.250	18.964	0.091	0.632	7654.7x
FMH_KTN_03003C.1	FMH_KTN_03003D	346	250	0	-0.080	16.250	18.956	0.090	0.624	7654.9x	23.750	2.373	0.089	1.451	7656.4x
FMH_KTN_03003D.1	FMH_KTN_03004	165	250	0	0.066	23.750	2.340	0.089	1.452	7656.5+	21.250	0.225	0.089	1.911	7656.5
FMH_KTN_03004.1	FMH_KTN_03005	396	375	0	0.240	20.575	0.220	0.151	2.244	13062.1	11.557	0.296	0.151	1.621	13061.9
FMH_KTN_03005.1	FMH_KTN_03006	425	450	0	0.299	11.482	0.312	0.240	2.045	20728.0	5.812	0.312	0.240	2.045	20727.9

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	<		Upstream		>		Downstream				>	
						Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)		
FMH_KTN_03006.1	FMH_KTN_24001	97	600	0	0.296	5.662	0.404	0.240	1.187	20727.9	5.383	0.319	0.240	1.573	20727.9		
FMH_KTN_04001.1	FMH_KTN_25001	129	375	0	0.113	6.100	0.178	0.051	0.985	4401.6	5.452	0.164	0.051	1.095	4401.6		
FMH_KTN_07001.1	FMH_KTN_08001	111	300	0	0.072	19.000	0.048	0.003	0.453	283.8	18.253	0.046	0.003	0.474	283.8		
FMH_KTN_08001.1	FMH_KTN_08002	191	450	0	0.273	18.103	0.062	0.005	0.407	462.2	15.979	0.275	0.005	0.053	462.2		
FMH_KTN_08002.1	FMH_KTN_08002A	301	450	0	0.334	15.979	0.269	0.216	2.181	18696.7	10.949	0.730	0.216	1.295	18696.7x		
FMH_KTN_08002A.1	FMH_KTN_10001	65	450	0	0.310	10.949	0.283	0.216	2.055	18696.7	10.019	0.283	0.216	2.055	18696.7		
FMH_KTN_09001.1	FMH_KTN_09001A	85	225	0	0.069	19.400	0.028	0.001	0.305	76.5	16.954	0.053	0.001	0.125	76.5		
FMH_KTN_09001A.1	FMH_KTN_10001	235	300	0	0.149	16.879	0.126	0.052	1.838	4485.0	10.148	0.144	0.052	1.553	4485.0		
FMH_KTN_10001.1	FMH_KTN_12001	132	525	0	0.411	9.923	0.316	0.268	1.973	23181.8	8.453	0.316	0.268	1.973	23181.8		
FMH_KTN_11001.1	FMH_KTN_11002	86	300	0	0.072	9.500	0.048	0.003	0.453	283.8	8.921	0.059	0.003	0.336	283.8		
FMH_KTN_11002.1	FMH_KTN_12001	106	300	0	0.072	8.921	0.059	0.005	0.548	462.2	8.210	0.135	0.005	0.173	462.2		
FMH_KTN_12001.1	FMH_KTN_14001	124	600	0	0.320	7.910	0.430	0.276	1.271	23822.4	7.494	0.397	0.276	1.388	23822.4		
FMH_KTN_13001.1	FMH_KTN_13002	156	375	0	0.159	15.000	0.142	0.047	1.243	4096.8	13.436	0.221	0.047	0.700	4096.8		
FMH_KTN_13002.1	FMH_KTN_14001	268	375	0	0.226	13.436	0.217	0.138	2.092	11958.7	8.066	0.217	0.138	2.092	11958.7		
FMH_KTN_14001.1	FMH_KTN_16001	256	750	0	0.579	7.344	0.523	0.479	1.454	41343.5	6.488	0.500	0.479	1.531	41343.5		
FMH_KTN_15001.1	FMH_KTN_15002	176	375	0	0.270	15.000	0.118	0.053	1.763	4556.6	9.963	0.156	0.053	1.208	4556.6		
FMH_KTN_15002.1	FMH_KTN_16001	90	375	0	0.291	9.963	0.156	0.100	2.291	8621.9	6.953	0.156	0.100	2.291	8621.9		
FMH_KTN_16001.1	FMH_KTN_23001	219	900	0	0.727	6.338	0.619	0.578	1.240	49965.4	5.899	0.671	0.578	1.138	49965.4		
FMH_KTN_18001.1	FMH_KTN_18001A	120	450	0	0.310	19.000	0.239	0.165	1.921	14257.7	17.273	0.239	0.165	1.921	14257.7		
FMH_KTN_18001A.1	FMH_KTN_18002	217	525	0	0.411	17.198	0.238	0.165	1.731	14257.7	14.780	0.356	0.165	1.057	14257.7		
FMH_KTN_18002.1	FMH_KTN_20001	166	525	0	0.225	14.780	0.336	0.165	1.129	14257.7	14.226	0.273	0.165	1.450	14257.7		
FMH_KTN_19001.1	FMH_KTN_19001A	182	375	0	0.130	18.500	0.043	0.003	0.406	245.2	17.282	0.135	0.003	0.079	245.2		
FMH_KTN_19001A.1	FMH_KTN_19002	222	450	0	0.183	17.207	0.210	0.080	1.105	6949.0	16.097	0.197	0.080	1.200	6949.0		
FMH_KTN_19002.1	FMH_KTN_19003	164	525	0	0.225	16.022	0.255	0.106	1.015	9154.2	15.473	0.371	0.106	0.648	9154.2		
FMH_KTN_19003.1	FMH_KTN_20001	102	525	0	0.225	15.473	0.368	0.190	1.170	16377.1	15.130	0.294	0.190	1.522	16377.1		
FMH_KTN_20001.1	FMH_KTN_22001	200	600	0	0.718	14.151	0.305	0.355	2.454	30634.8	10.802	0.305	0.355	2.454	30634.8		
FMH_KTN_21001.1	FMH_KTN_21002	227	450	0	0.164	11.000	0.140	0.033	0.796	2890.7	10.090	0.147	0.033	0.744	2890.7		
FMH_KTN_21002.1	FMH_KTN_22001	169	450	0	0.164	10.090	0.146	0.037	0.818	3174.6	9.412	0.204	0.037	0.523	3174.6		
FMH_KTN_22001.1	FMH_KTN_22002	160	675	0	0.620	9.187	0.392	0.392	1.820	33899.0	8.115	0.421	0.392	1.673	33899.0		
FMH_KTN_22002.1	FMH_KTN_22003	138	675	0	0.620	8.115	0.416	0.429	1.858	37099.3	7.191	0.416	0.429	1.858	37099.3		
FMH_KTN_22003.1	FMH_KTN_22004	302	750	0	0.820	7.116	0.405	0.461	1.896	39809.4	5.099	0.585	0.461	1.247	39809.4		
FMH_KTN_22004.1	FMH_KTN_22005	144	750	0	0.579	5.099	0.543	0.510	1.489	44090.3	4.617	0.442	0.510	1.886	44090.3		
FMH_KTN_22005.1	FMH_KTN_22005A	276	900	0	0.726	4.467	0.585	0.543	1.240	46928.8	3.914	0.602	0.543	1.201	46928.8		
FMH_KTN_22005A.1	FMH_KTN_22005B	124	900	0	0.726	3.914	0.598	0.552	1.231	47717.1	3.666	0.615	0.552	1.195	47717.2		
FMH_KTN_22005B.1	FMH_KTN_25001A	27	900	0	0.731	3.666	0.595	0.552	1.239	47717.2	3.611	0.597	0.552	1.234	47717.2		
FMH_KTN_23001.1	FMH_KTN_23002	129	900	0	0.725	5.899	0.660	0.650	1.300	56137.5	5.640	0.637	0.650	1.350	56137.5		
FMH_KTN_23002.1	FMH_KTN_24001	139	900	0	0.726	5.640	0.630	0.650	1.367	56137.5	5.361	0.474	0.650	1.914	56137.5		
FMH_KTN_24001.1	FMH_KTN_24002	78	1050	0	1.091	4.933	0.726	0.890	1.392	76865.5	4.777	0.726	0.890	1.393	76865.5		
FMH_KTN_24002.1	FMH_KTN_25001	56	1050	0	1.094	4.777	0.720	0.890	1.405	76865.5	4.664	0.717	0.890	1.412	76865.6		
FMH_KTN_25001.1	FMH_KTN_25001A	99	1050	0	1.091	4.664	0.687	0.941	1.568	81267.1	4.466	0.548	0.941	2.057	81267.2		
FMH_KTN_25001A.1	FMH_KTN_25002	28	1050	0	2.443	3.461	0.597	1.494	2.939	129051.6	3.173	0.597	1.494	2.939	129051.6		
FMH_KTN_25002.1	FMH_KTN_25002A					-1.577	1.449	0.400		34560.0	-1.577	25.124	0.400		34560.0		
FMH_KTN_25002.2	FMH_KTN_25002A					-1.327	1.199	0.400		34560.0	-1.327	24.874	0.400		34560.0		
FMH_KTN_25002.3	FMH_KTN_25002A					-1.077	0.949	0.400		34560.0	-1.077	24.624	0.400		34560.0		
FMH_KTN_25002.4	FMH_KTN_25002A					-0.827	0.699	0.400		25373.3	-0.827	24.374	0.400		25373.3		
FMH_KTN_25002A.1	FMH_KTN_25002AA	16	900	0	0.000	5.600	17.926	1.597	1.712	129053.1+	5.600	17.770	1.596	1.710	129058.5+		
FMH_KTN_25002AA.1	FMH_KTN_25002B	126	900	0	1.021	5.600	17.584	1.593	1.702	129058.3+	5.100	16.863	1.587	1.708	129092.1+		
FMH_KTN_25002B.1	FMH_KTN_25002C	801	900	0	-0.544	5.100	16.833	1.584	1.697	129091.9x	6.000	8.507	1.550	1.951	129157.3x		
FMH_KTN_25002C.1	FMH_KTN_25002D	81	900	0	-1.712	6.000	8.383	1.548	1.954	129157.1x	6.900	6.782	1.546	2.024	129153.8x		
FMH_KTN_25002D.1	FMH_KTN_25002E	379	900	0	1.319	6.900	6.726	1.544	2.024	129153.6+	4.400	5.793	1.538	2.061	129136.8+		
FMH_KTN_25002E.1	FMH_KTN_25002F	164	900	0	-0.400	4.400	5.526	1.538	2.074	129136.6x	4.500	3.941	1.538	2.156	129131.3x		
FMH_KTN_25002F.1	FMH_KTN_25002G	208	900	0	0.000	-4.000	12.371	1.537	1.778	129131.3+	-4.000	10.496	1.537	1.850	129127.4+		
FMH_KTN_25002G.1	SWH_STW_1	12	900	0	0.000	5.000	0.913	1.537	2.391	129127.4+	5.000	0.731	1.537	2.778	129125.7		

