

SUB-WATERSHED	Area			T <sub>c</sub> used <i>min</i>	EXISTING		FUTURE		Lag Time <i>hr</i>
	<i>sf</i>	<i>acres</i>	<i>mi<sup>2</sup></i>		CN	Initial Loss <i>in</i>	CN	Initial Loss <i>in</i>	
1	2,261,673	51.92	0.0811	127	69	0.91	73	0.74	1.27
2	127,762	2.93	0.0046	15	73	0.72	73	0.72	0.15
3	216,182	4.96	0.0078	15	71	0.83	71	0.83	0.15
4	25,357	0.58	0.0009	10	69	0.88	69	0.88	0.10
5	52,563	1.21	0.0019	15	69	0.90	69	0.90	0.15
6	66,402	1.52	0.0024	15	72	0.79	72	0.79	0.15
7	220,065	5.05	0.0079	27	74	0.70	74	0.70	0.27
8	295,919	6.79	0.0106	15	76	0.62	76	0.62	0.15
9	232,375	5.33	0.0083	15	77	0.60	77	0.60	0.15
10	128,942	2.96	0.0046	15	74	0.70	74	0.70	0.15





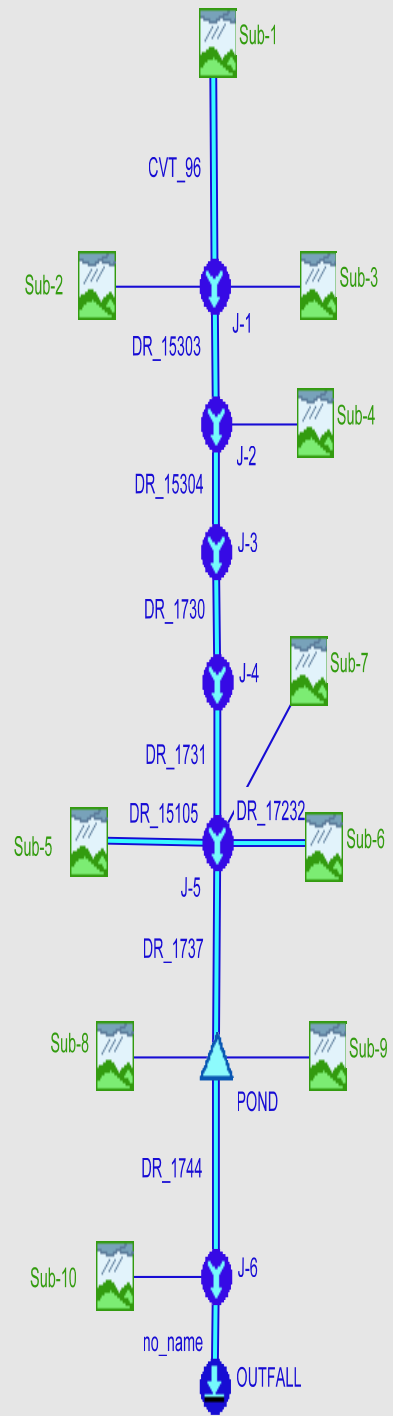
Morningside Drive - Pond Outlet - Stage - Area- Outflow Calcs - **Unimpaired Downstream**

MDP -9/4/09

Elevation (ft)	Area (sf)	Area (acres)	Average Area (acres)	Depth	Area x depth (acre-ft)	Sum (acre-ft)	Low-Level Outlet Flow (cfs)	Spillway Flow (cfs)	Total Flow (cfs)
9	20473	0.47	0.49	1	0.49	0	0.00	0	0.00
10	22107	0.51	0.57	1	0.57	0.49	22.20	0	22.20
11	27220	0.62	0.68	1	0.68	1.05	87.90	0	87.90
12	32333	0.74	0.94	1	0.94	1.74	126.80	0	126.80
13	49184	1.13				2.67	120.40	24	144.47

Spillway  
 C1 = 0.6  
 b = 30 ft  
 H = 0.25 ft  
 2\*g = 64.4

Orifice  
 A (ft<sup>2</sup>) = 11.781  
 C = 0.82  
 Center = 10.59



# HMS \* Summary of Results

Project : Morningside

Run Name : EX-10

Start of Run : 08Jun09 1200 Basin Model : EX

End of Run : 09Jun09 1200 Met. Model : 10-yr

Execution Time : 03Sep09 0904 Control Specs : Control 1

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
Sub-5	2.0779	09 Jun 09 0011	0.19761	0.002
DR_15105	2.0779	09 Jun 09 0011	0.19761	0.002
Sub-1	29.425	09 Jun 09 0127	8.1819	0.081
CVT_96	29.425	09 Jun 09 0127	8.1819	0.081
Sub-2	5.9998	09 Jun 09 0011	0.56163	0.005
Sub-3	9.2752	09 Jun 09 0011	0.87367	0.008
J-1	31.258	09 Jun 09 0127	9.6172	0.094
DR_15303	31.258	09 Jun 09 0127	9.6172	0.094
Sub-4	1.1051	09 Jun 09 0008	0.094398	0.001
J-2	31.380	09 Jun 09 0127	9.7116	0.094
DR_15304	31.380	09 Jun 09 0127	9.7116	0.094
J-3	31.380	09 Jun 09 0127	9.7116	0.094
DR_1730	31.380	09 Jun 09 0127	9.7116	0.094
J-4	31.380	09 Jun 09 0127	9.7116	0.094
DR_1731	31.380	09 Jun 09 0127	9.7116	0.094
Sub-6	2.9766	09 Jun 09 0011	0.27928	0.002
DR_17232	2.9766	09 Jun 09 0011	0.27928	0.002
Sub-7	8.5545	09 Jun 09 0019	0.99188	0.008
J-5	33.369	09 Jun 09 0125	11.180	0.107
DR_1737	33.369	09 Jun 09 0125	11.180	0.107
Sub-8	15.421	09 Jun 09 0011	1.4348	0.011
Sub-9	12.458	09 Jun 09 0011	1.1570	0.008
POND	53.361	09 Jun 09 0018	13.721	0.126
DR_1744	53.361	09 Jun 09 0018	13.721	0.126
Sub-10	6.2033	09 Jun 09 0011	0.57889	0.005
J-6	58.481	09 Jun 09 0017	14.300	0.130
no_name	58.481	09 Jun 09 0017	14.300	0.130
OUTFALL	58.481	09 Jun 09 0017	14.300	0.130

HMS \* Summary of Results for POND

Project : Morningside                      Run Name : EX-10

Start of Run    : 08Jun09 1200    Basin Model    : EX  
End of Run      : 09Jun09 1200    Met. Model    : 10-yr  
Execution Time : 03Sep09 0904    Control Specs : Control 1

Computed Results

Peak Inflow    : 60.215 (cfs)    Date/Time of Peak Inflow    : 09 Jun 09 0012  
Peak Outflow   : 53.361 (cfs)    Date/Time of Peak Outflow   : 09 Jun 09 0018  
Total Inflow   : 2.06 (in)            Peak Storage    : 1.0975(ac-ft)  
Total Outflow  : 2.05 (in)            Peak Elevation : 11.064(ft)