Example Data Summary Sheet for Stormwater Management Plan

(Note: The purpose of the watershed table is to summarize the changes in runoff flow rates and volumes as a result of changes in drainage areas, land uses and conveyance systems)

Project Name: Rolling Acres **Project Size:** 120 Acres **Project type:** Residential Subdivision **No. of Lots:** 180

Number of Runoff Discharge Points: 3 **Watershed (ultimate discharge):** Pewaukee Lake (via unnamed tributary)

Watershed Area (including off-site runoff traveling through project area): 140 acres (20 acres off-site)

Public Land Survey Location: SE1/4, Section 32, T8N R19E (Pewaukee Township)

Summary Data Elements	Subwatershed A		Subwatershed B		Subwatershed C	
	Pre-develop	Post-develop	Pre-develop	Post-develop	Pre-develop	Post-develop
Watershed Areas *(see attached map)*	100 acres	120 acres	20	10	20	10
Average Watershed Slopes	2%	2%	3%	3%	4%	4%
Land Uses *(% of each, see attached map)*	75 ac. cropland 15 ac. brush 10 ac. woodland	110 ac. 1 ac. lots 5ac. brush 5 ac. woodlands	100% cropland	100% 1 ac. lots	100% Woodland	100% 1 acre lots
Runoff Curve Numbers	69 x 75 ac.= 5175 55 x 25 ac.= 1375 *Net 6550/100 ac.* RCN = 66	68 x 110 ac.= 7700 55 x 10 ac.= 550 Net 7535\120ac RCN = 63	RCN = 69	RCN = 68	RCN = 55	RCN = 68
Conveyance Systems Types	Grass waterway	50% grass swale 50% storm sewer	100% bare channel	100% grass swale	100% natural channel	100% storm sewer
Summary of Average Conveyance System Data	8' bottom/4:1 ss 2' depth/2% grade	2' depth swale/2% 30" r/c sewer/2% (see calcs.)	15' (w) top 1' (d) parabolic 2% grade	2' deep standard road ditch 2% grade	15' top (w) 1' (d) parabolic 4% grade	2' deep standard road ditch 4% grade
Time of Concentration *(Tc)* *(see attached map & worksheets)*	0.5 hrs.	0.3 hrs.	0.3 hrs.	0.2 hrs.	0.2 hrs.	0.1 hrs.
Runoff volume: 25% of 2-yr 24-hr post-developed storm *(for low-density residential only)*	N/A	35,000 cu. ft.	N/A	7,841 cu. ft.	N/A	8,276 cu. ft.
Runoff volume: first half-inch *(watershed area in sq. ft. X .04 ft.)*	N/A	209,100 cu. ft.	N/A	17,859 cu. ft.	N/A	17,859 cu. ft.
Runoff volume: average annual basis *(WinSLAMM Output)*	532,000 cu. ft.	3,130,000 cu. ft.	79,664 cu. ft.	74,800 cu. ft.	56,911 cu. ft.	73,602 cu. ft.
Infiltration Volume *[2.4 ft. X onsite subwatershed area (sq. ft.)] - average annual runoff volume*	10M cu. ft.	9.4M cu. ft.	2,011,216 cu. ft.	970,640 cu. ft.	2,033,969 cu. ft.	971,838 cu. ft.
Peak Flow: 1-year/24 hour	16 cfs	13 cfs	0.7 cfs	0.6 cfs	0.6 cfs	0.6 cfs
Peak Flow: 2-yr./24 hour	26 cfs	23 cfs	1.1 cfs	0.8 cfs	1.2 cfs	1.1 cfs
Peak Flow: 10-yr./24 hour	75 cfs	84 cfs	3.4 cfs	3.3 cfs	4.6 cfs	4.2 cfs
Peak Flow: 100-yr./24 hour	220 cfs	272 cfs	13 cfs	11 cfs	15 cfs	14 cfs