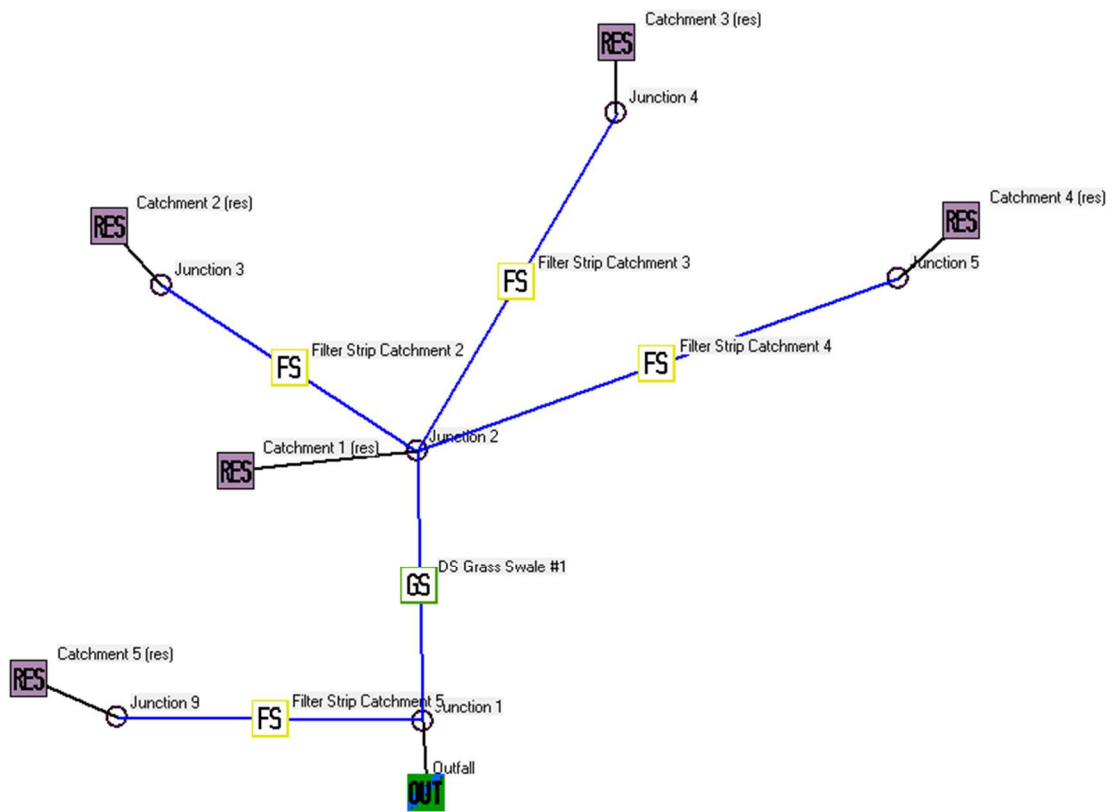


2023 CARROLL PARK IMPROVEMENTS

MODELING SUMMARY

JANUARY, 2023



Data file name: \\WDMYCLOUD\Public\Makepeace Engineering\2 Clients\Uploaded\City of La Crosse 45\2023 Carroll Field Concession Building Project\SLAMMTSS_F
WinSLAMM Version 10.4.1

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx

Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv

Cost Data file name:

If Other Device Pollutant Load Reduction Values = 1, Off-site Pollutant Loads are Removed from Pollutant Load % Reduction calculations

Seed for random number generator: -42

Study period starting date: 01/01/81 Study period ending date: 12/31/81

Start of Winter Season: 12/02 End of Winter Season: 03/12

Date: 01-09-2023 Time: 11:27:11

Site information:

LU# 1 - Residential: Catchment 1 (res) Total area (ac): 0.116

25 - Driveways 1: 0.006 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz

45 - Large Landscaped Areas 1: 0.110 ac. Severely Compacted Clayey PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 2 - Residential: Catchment 2 (res) Total area (ac): 0.502

45 - Large Landscaped Areas 1: 0.502 ac. Severely Compacted Clayey PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 3 - Residential: Catchment 3 (res) Total area (ac): 0.218

1 - Roofs 1: 0.034 ac. Pitched Connected PSD File: C:\WinSLAMM Files\NURP.cpz

45 - Large Landscaped Areas 1: 0.184 ac. Severely Compacted Clayey PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 4 - Residential: Catchment 4 (res) Total area (ac): 0.106

1 - Roofs 1: 0.034 ac. Pitched Connected PSD File: C:\WinSLAMM Files\NURP.cpz

31 - Sidewalks 1: 0.012 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz

45 - Large Landscaped Areas 1: 0.060 ac. Severely Compacted Clayey PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 5 - Residential: Catchment 5 (res) Total area (ac): 0.129

31 - Sidewalks 1: 0.017 ac. Disconnected Severely Compacted Clayey PSD File: C:\WinSLAMM Files\NURP.cpz

45 - Large Landscaped Areas 1: 0.112 ac. Severely Compacted Clayey PSD File: C:\WinSLAMM Files\NURP.cpz

Control Practice 1: Grass Swale CP# 1 (DS) - DS Grass Swale #1

Total drainage area (acres)= 0.942

Fraction of drainage area served by swales (ac) = 1.00

Swale density (ft/ac) = 112.53

Total swale length (ft) = 106

Average swale length to outlet (ft)= 53

Typical bottom width (ft) = 2.0

Typical swale side slope (H:1V) = 4.0

Typical longitudinal slope (ft.H/ft.V) = 0.003

Swale retardance factor: B

Typical grass height (in) = 12.0

Swale dynamic infiltration rate (in/hr)= 0.000

Typical swale depth (ft) for cost analysis (optional) = 0.0

Particle size distribution file name: Not needed - calculated by program

Use total swale length instead of swale density for infiltration calculations: True

Control Practice 2: Filter Strip CP# 1 (DS) - Filter Strip Catchment 2

Total drainage area (acres)= 0.502

Fraction of drainage area served by filter strips (ac) = 1.00

Total filter strip width (ft) = 230.0

Effective flow length (ft) = 70

Infiltration rate (in/hr)= 0.010

Typical longitudinal slope (ft.H/ft.V) = 0.040

Typical grass height (in) = 6.0

Swale retardance factor = C

Use stochastic analysis to determine infiltration rate: False

Infiltration rate coefficient of variation (COV) = 0.00

Particle size distribution file name: Not needed - calculated by program

Surface Clogging Load (lbs/sf) = 3.50

Data file name: \\WDMYCLOUD\Public\Makepeace Engineering\2 Clients\Uploaded\City of La Crosse 45\2023 Carroll Field Concession Building Project\SLAMM\TSS_F
WinSLAMM Version 10.4.1

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppd
Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:

If Other Device Pollutant Load Reduction Values = 1, Off-site Pollutant Loads are Removed from Pollutant Load % Reduction calculations

Seed for random number generator: -42

Study period starting date: 01/01/81 Study period ending date: 12/31/81

Start of Winter Season: 12/02 End of Winter Season: 03/12

Model Run Start Date: 01/01/81 Model Run End Date: 12/31/81

Date of run: 01-09-2023 Time of run: 11:25:12

Total Area Modeled (acres): 1.071

Years in Model Run: 1.00

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	82651	-	207.6	1071	-
Outfall Total with Controls:	71630	13.33%	80.30	359.1	66.47%
Annualized Total After Outfall Controls:	71827			360.1	