



2025 MS4 PERMIT ANNUAL REPORT

MARCH 2026

TODAY'S DISCUSSION

- Stormwater Program Goals
- MS4 Permit Annual Report Review
 - MS4 Programs in 2025
- Next Permit: 2026 – 2031 (?)



STORMWATER PROGRAM

- Flood Control – to minimize flooding impacts to public infrastructure and public/private properties
- **Pollutant Control – to protect quality of life for residents, property owners and meet Wisconsin Department of Natural Resources Stormwater (MS4) Permit**
- Maintenance so the systems work.



OUTREACH & EDUCATION / PUBLIC INVOLVEMENT

- City Connection Newsletter
- Social Media & Website
- Brochures @ City Hall
- Tables at Lights & Sirens, Boo Bash, Farmer's Markets
- 4th Annual Rain Barrel Workshop
- Citizen Stream Monitoring Training (2 sessions)
- Streambank Clean-up
- WI Stormwater Awareness Week
- Riverside Park Creek Streambank Plantings

*Add PWW,
RRC partner
logos*



ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) / GIS UPDATES

- 408 Storm Sewer Outfalls to Rock River, creeks, wetlands
- 49 IDDE Inspections Completed; 13 Tested In-Field
- 0 “hits” detected
- Added recent storm pipe, BMPs & As-Built Data
- Completed Re-naming of Storm Structures in New Stormwater Layer in GIS



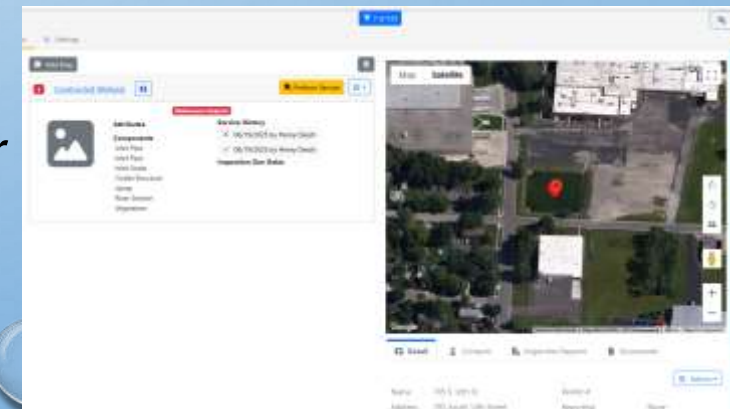
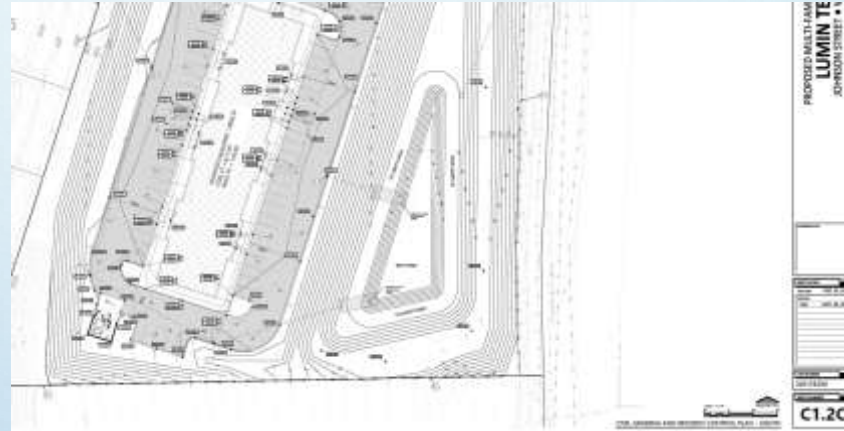
CONSTRUCTION SITE POLLUTANT CONTROL

- 139 Erosion Control Inspections completed in 2025
 - 14 Sites; 10 Sites over 1 Acre
 - Monthly EC Inspections
 - Weekly if there are problems on site
 - Bi-monthly for Inactive Sites
- Try to meet with site project manager at beginning of project, and again if there are concerns or noncompliance issues.



POST-CONSTRUCTION STORMWATER MANAGEMENT

- New Stormwater BMPs in 2025:
 - Lumin Terrace – 1 Biofilter
 - Johnsonville – 1 biofilter (retrofit)
 - Hiawatha Street Bioswale
- Issued 12 EC & SW Permits; Completed 17 Plan Reviews & Revisions
- 62 BMPs Inspected
- MetaBMP Inspection & Maintenance Program Pilot Project
- W. Main Street Kwik Trip Swales and Ponds Maintained by Owner

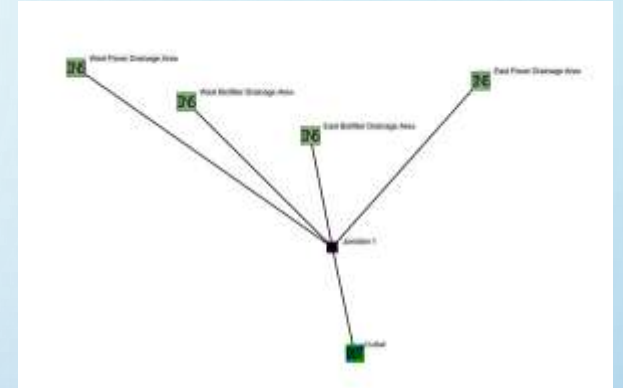




POLLUTION PREVENTION

- Municipal Operations 2025 Stormwater Data:

- 232 Lane Miles Swept
- 450 yards of sediment and debris collected from street sweeper and catch basins
- 2,996 tons of salt; 5,723 gallons of brine* applied to streets
- WinSLAMM Training for 3 Engineering Div. Staff
- SaltWise Training for 6 Parks Staff



SLAMM for Windows Version 10.5.0
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Data file name: C:\Nathan\A-84\Bldg\79-82\James Street Lot Proposed.mdb
 WinSLAMM Version 10.5.0
 Run file name: C:\WinSLAMM Files\Rain\FastRain\FastReg - Madison WI 1981.RAN
 Particulate Solids Concentration file name: C:\WinSLAMM Files\10.1\WV_AW011.prc
 Runoff Coefficient file name: C:\WinSLAMM Files\10.1\SL06 Dec04.rvs
 Pollutant Relative Concentration file name: C:\WinSLAMM Files\10.1\UEC00.ppd
 Residential Street Delivery file name: C:\WinSLAMM Files\10.1\Res and Other Urban Dec04.tbl
 Institutional Street Delivery file name: C:\WinSLAMM Files\10.1\Com Inst Urban Dec04.tbl
 Commercial Street Delivery file name: C:\WinSLAMM Files\10.1\Com Inst Indust Dec04.tbl
 Industrial Street Delivery file name: C:\WinSLAMM Files\10.1\Com Inst Indust Dec04.tbl
 Other Urban Street Delivery file name: C:\WinSLAMM Files\10.1\Res and Other Urban Dec04.tbl
 Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec04.tbl
 Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Reason: False
 Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NWRP Source Area PSD Files.cbr
 Cost Data file name:
 Seed for random number generator: -42
 Study period starting date: 01/01/81 Study period ending date: 12/31/81
 Start of Winter Season: 12/01 End of Winter Season: 03/12
 Model Run Start Date: 01/01/81 Model Run End Date: 12/31/81
 Date of run: 11-10-2025 Time of run: 11:34:51
 Total Area Modeled (acres): 0.150
 Years in Model Run: 1.00

	Runoff Volume (cu ft)	Percent Runoff Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lb)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls	11703		115.0	94.45	
Cutback Sites with Controls	3711	68.40%	81.40	14.23	85.15%
Annualized Total After Cutback Controls	3722			14.26	

Pollutant	Conc. No Controls	Conc. With Controls	Conc. Units	Pollutant Yield No Controls	Pollutant Yield With Controls	Pol. Yield Units	Percent Reduction
Particulate Solids	115.0	81.40	mg/L	94.45	14.23	lb	85.15 %
Total Phosphorus	0.2148	0.1204	mg/L	0.1578	0.0266	lb	82.82 %

Detritifier # 1 is expected to clog in 10.4 years... Percent Solids Reduction due to Engineered Media Not Used
 Detritifier # 2 is expected to clog in 9.70 years... Percent Solids Reduction due to Engineered Media Not Used



*Brine = 77% water, 23% salt mixture

TMDL / WATER QUALITY TRADING



- 2022-2025 Total Pollutant Reductions:
 - **TSS: 26,791.50 Lbs.; TP: 79.9159 Lbs.** Reduced
- Next MS4 Permit TMDL Goals (20%TSS, 10%TP of Remainder)
 - TSS: **65,391 Lbs.**
 - Phosphorus: **152 Lbs.**

City-owned BMPs 2022-2025										
BMP Number	BMP Name	Site Name	NC TSS (lbs)	NC TP (lbs)	Proposed TSS (lbs)	Proposed TP (lbs)	Percent TSS Reduction	Percent TP Reduction	TSS reduction (lbs)	TP reduction (lbs)
79	Permeable Pavers	Jones St Lot	64.12	0.1242	5.06	0.01009	92.11%	91.87%	59.06	0.1141
80	Biofilters	Jones St Lot	20.33	0.0336	9.17	0.01827	54.92%	45.69%	11.17	0.0154
81	Permeable Pavers	Cady St Lot	33.43	0.0553	3.61	0.00790	89.19%	85.71%	29.82	0.0474
88	Biofilter	Yard Waste Site	6609	26.4900	1515.00	17.85000	77.10%	32.60%	5,094.00	8.6400
92	South Biofilter	Reflection Park	5.79	0.0344	0.85	0.00531	85.41%	84.55%	4.95	0.0291
93	West Biofilter	Reflection Park	15.46	0.0992	2.69	0.01689	82.63%	82.97%	12.77	0.0823
94	Permeable Pavers	Senior Center	362.8	0.6000	242.90	0.40690	33.05%	32.18%	119.90	0.1931
95	Biofilter	Watertown Court	3299	5.6000	1354.00	2.90000	58.96%	48.21%	1,945.00	2.7000
96	Biofilter	Boomer St.-West	360.3		139.80		61.20%	46.60%	220.50	0.0000
97	Biofilter	Boomer St. - East	375.4		145.66		61.20%	46.60%	229.74	0.0000
102	Biofilter	Fire Station-North	1346	2.8890	269.10	0.57780	80.01%	80.00%	1,076.93	2.3112
103	Biofilter	Fire Station-Middle								
104	Biofilter	Fire Station-South								
106	Biofilter	Hiawatha St. ROW	664	1.8440	662.54	0.38245	85.49%	79.26%	567.65	1.4616
						0.00000			0.00	0.0000
Total			13155.63	37.7697	4350.36	4.26715			9,371.50	6.6659
WQT #1	Buffer								17,420.00	73.2500
Total with WQT Practice									26,791.50	79.9159



COMING IN 2026

- Next 5-year MS4 Permit Anticipated in 2026
 - Develop Plans for Impaired Waterways
 - Updates to Written MS4 Permit Programs
 - IDDE Analysis, Implementation & Protocols
 - Greater Focus on Maintenance: Private & Public BMPs
 - Enhanced SW Pollution Prevention Plans (SWPPPs)
 - Salt Use Reporting, Calibration of Equipment
 - TMDL Reductions: 20% TSS, 10% Phosphorus (of remainder needed to meet TMDL)

