Municipality/Organization: Worcester State University					
EPA NPDES Permit Number: MAR042022					
MassDEP Transmittal Number:	W-040406				
Annual Report Number Year 12 & Reporting Period:	April 1, 2014 – March 31, 2015				

NPDES PII Small MS4 General Permit Annual Report

(Due: May 1, 2015)

Part I. General Information

Associate Director of Facilities
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MA 01602

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Kathley M. Eichelwith	
Printed Name: Kathleen M. Eichelroth	
Title: V.PAdministration and Finance	
Date: 4/17/20/5	

Part II. Self-Assessment

Worcester State University (WSU) has completed a Self Assessment of the Storm Water Management Plan. WSU will update the SWMP in April 2015, provided updated training in January 2015 and continues to meet the requirements of the permit.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
100.1 (2005)	Distribution of Educational Materials	Robert Daniels	Design a SW Management information page on campus web-site that will be accessible by all students, faculty, administrators and general public.	Kept web-page updated-on-going as required	Redesigning web-page. Add latest version SWMP link to the web-page and web-page design improvements
Revised					
100.2 2006	Distribution of Educational Materials	Robert Daniels	Designed a pamphlet for contractors to explain the expectations WSU has for contractors working on-site	Continued to distribute pamphlet to contractors.	Continue to distribute pamphlet to contractors, will update as necessary to reflect with new MS4 permit information when it's finalized.

100.3	Distribution of	Robert Daniels	Download EPA's	Pamphlet reoriented on the web-site.	No change
2007	Educational Materials		"After the Storm"		
			pamphlet.		
100.4	Distribution of	Robert Daniels	"Focus the Nation"	Included SW as topic in WSU's annual	No change
	Educational Materials		Presentation-	sustainability fair.	
2008			nationally recognized		
			teaching program-		
			January 2008		
100.5	Distribution of	Robert Daniels	"National Teach-In on	Included SW as topic in WSU's annual	No change
	Educational Materials		Global Warming"	sustainability fair.	
2009			Presentation-		
			nationally recognized	•	
			teaching program-		
			February 2009		

100.6	Distribution of	Robert Daniels	Sustainability Fair –	Included SW as topic in WSU's annual	No change
	Educational Materials	1	Planned for Fall 2011	sustainability fair.	
2011			organized by WSU		
			Student Affairs and		
			Career Services		
100.7	Distribution of	Robert Daniels	Annual Sustainability	Included SW as topic in WSU's annual	No change
	Educational Materials		Fair -Planned for Fall	sustainability fair.	·
2012-			organized by WSU		
2015			Student Affairs and		
			Career Services		

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) — Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
200 Revised	Storm Drain Stenciling	Robert Daniels	Re-stencil drains annually as needed	Re-stenciled drains by August 2014, included new storm drains near Admin Building,. Also paint drains after cleanouts	Will re-stencil drains where necessary by Fall 2015
200.1	Campus Clean-up Day	Steve Bandarra	Annually in April- May	Biology and Facilities Departments cleaned campus on or around Earth	Faculty, Student Government Association, Regional
Revised				Day 2014	Environmental Council plan to clean neighborhood on or around Earth Day 2015.WSU EHS Department will also include electronics collection and paper shredding.
Revised 200.2 2006 Revised	Lake Ellie Beautification	Peter Fenuccio/Robert Daniels	Dredge Lake Ellie by summer of 2007	Annually clean outlet pipe between Lake Ellie and Moore Brook, dispose of sediment	On-going as needed
Tovilled					
200.3 2007	Clean up of Moore Brook	WSU Grounds Crew and work study students	Clean brook annually as needed	Re-inspected and cleaned in Fall 2014	Re-inspect and clean by Fall 2015
Revised					

200.4	"In Business for the	Robert Daniels	Become member of	Decided not to join "In Business for the	NA
2008	Blackstone"		the organization	Blackstone"	

200.5	Formed Neighborhood	President's	Public involvement	Formed Neighborhood Advisory	On-going
2012	Advisory Council	Office and	and information	Council to share information with local	
	(NAC)	Public	sharing	community (Civic Engagement Group),	
		Relations		get involved in community and campus	
				clean ups	
200.6	American College and	Steve Bandarra	Submitted Climate	The Climate Action Plan referred to	Will update as necessary
2012	University President's		Action Plan	WSU's stormwater management plan]
	Climate Commitment				
200.7	National Arbor Day	Steve Bandarra	Join foundation	Planted trees in October 2014	Committed and in the process of
2012	Foundation Tree				becoming members.
	Campus USA Initiative				
200.8	Princeton Review	Steve Bandarra	Be listed as Green	Applied to get listed as Green Campus	Will be published as a Green Campus
2014	Guide to Green	•	Campus	and was notified that WSU made the	in Spring 2015
	Colleges		_	list	
2015	Live Learn Cohort-	Steve Bandarra	Students become more	Students who want to live with	Group of students living together in
	EcoHouse		active in sustainability	common interest in sustainability and	Sheehan Hall-will be required to take
			issues on campus	environmental issues	sustainability seminar (e.g., solid
	, i				waste, energy, toxics)

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
300.2 Revised	Dry Weather Inspections	Robert Daniels	Semiannual Inspections	Performed dry weather inspection in March 2014	On-going inspections- WSU will plan on spring and fall inspections in 2015.

3a. Additions

300.4	New SW Site Plans-as part of Campus Utilities Plans	Sandra Olson	New SW Site Plan	Update BSISubsurface utility plans annually	On-going The BSI —Subsurface Utility Engineering plan will be updated to include any changes to the storm water system as the campus grows
			·		

4. Construction Site Storm Water Runoff Control

BMP ID#	BMP Description	Responsible Dept/Person Name	Measurable Goal(s)	Progress on Goal(s) — Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
400.1	Develop Construction Site Run Off Plan	Robert Daniels	Update Construction Run-off Program	Construction Run-off Program reviewed in Fall 2014, no changes necessary.	Update as necessary as result of renewal of MS4 permit.
400.2 Revised	Construction Run-Off Plan Training	Robert Daniels	Implementation of periodic training	WSU provided training in January 2015	WSU will provide retraining in January 2016

400.3	Develop an	Robert Daniels	Document all Stop	There were no Stop Work orders	If necessary, Stop Work orders will
2006	enforcement strategy	and Facilities	Work notices that are	issued.	be issued.
	when construction	Department	generated		
	inspections and BMPs				
	are not being		{		
į	implemented	·			
Revised					
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400.4 2007	SW Review with Construction Site Personnel and MSCBA/DCAMM	Robert Daniels	Meet with construction company and MSCBA before and during construction projects	Continued to interact with construction companies and DCAMM/MSCBA for utility relocation for construction projecst.	Will continue to interact with construction companies and DCAMM/MSCBA for all DCAMM/MSCBA future projects that affect SW.
400.5 2007	Construction Site Inspections	Robert Daniels	Periodic construction site inspections	Weekly construction site inspections	Construction site inspections will be conducted for any new future projects that will impact SW

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) — Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
500	Develop a Post Construction Storm Water Management Plan as an appendix to Storm Water Management Plan	Robert Daniels	Update Post Construction SWM Plan	Updated SWMP in Fall of 2013	Will update SWMP as necessary in Spring 2015
Revised					
500.1	Implement training for Post Construction SWM	Robert Daniels	Implementation of periodic training	WSU provided retraining in January 2015	WSU will provide retraining in January 2016
Revised					
500.2 2006	Research alternatives to sand/road salt for road and walkway deicing.	Robert Daniels	Get prices and do a cost benefit analysis	Discontinued of Sand/ Salt and Magic salt use in Winter 2013-2014 used environmentally friendly salt product instead.	Will continue the use of environmentally friendly salt product in Winter 2015-2016.
Revised					

500.3 2007	Catch basin clean out	Robert Daniels	Clean catch basins	Cleaned out catch basins at base of construction project in summer of 2014 Vortechnic Units were inspected and those accessible were cleaned out in 2014	Will clean out catch basins and Vortechnic units by summer 2015.
500.4 2007	Soil stabilization for Parking Garage construction site	Consigli Construction	Stabilized soil in project area	Completed	Completed
500.5 2013	Upgraded Sand/Salt Shed	Robert Daniels	Improved shelter to result in less run-off	Completed the upgrade in November 2013	Maintain the structure—ongoing, also cover pile with tarp because consists only of salt

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) — Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
600 2007	Develop a training program for Facility Personnel	Robert Daniels	Implementation of periodic training	WSU provided retraining in January 2015	WSU will provide retraining in January 2016
Revised		:			
600.1 2009	Snow Management	Robert Daniels	Less snow melt into Lake Ellie	WSU continues to work at improving snow removal management by	Continue the best management practices.
Revised			·	relocating to less environmentally sensitive areas on campus	

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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<iif applicable>>

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
	NA			NA	NA
Revised					

7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)
(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2014 through March 31, 2015)

Programmatic

	(Preferred Units) Response
Stormwater management position created/staffed	(y/n)
Annual program budget/expenditures **	(\$)
Total program expenditures since beginning of permit coverage	(\$)
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)	

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)
Stormwater management committee established	(y/n)
Stream teams established or supported	(# or y/n)
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)
Shoreline cleaned since beginning of permit coverage	(mi.)
Household Hazardous Waste Collection Days	
days sponsored **	(#)
community participation **	(# or %)
material collected **	(tons or gal)
School curricula implemented	(y/n)

Legal/Regulatory

	In Place Prior to	Reviewing Existing		Draft in	
	Phase II	Authorities	Drafted	Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
 Illicit Discharge Detection & Elimination 					
■ Erosion & Sediment Control					
Post-Development Stormwater Management		-			
Accompanying Regulation Status (indicate with "X")			5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
 Illicit Discharge Detection & Elimination 					,,,,,,
■ Erosion & Sediment Control					
Post-Development Stormwater Management					

Mapping and Illicit Discharges

Trimplying and Trimply and Trimplying	(Preferred Units) Response
Outfall mapping complete	(%)
Estimated or actual number of outfalls	(#)
System-Wide mapping complete (complete storm sewer infrastructure)	(%)
Mapping method(s)	
Paper/Mylar	(%)
■ CADD	(%)
H GIS	(%)
Outfalls inspected/screened **	(# or %)
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)
Illicit discharges identified **	(#)
Illicit discharges identified (Since beginning of permit coverage)	(#)
Illicit connections removed **	(#); and
	(est. gpd)
Illicit connections removed (Since beginning of permit coverage)	(#); and
	(est. gpd)
% of population on sewer	(%)
% of population on septic systems	(%)

Construction

	(Preferred Units) Response
Number of construction starts (>1-acre) **	(#)
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)
Site inspections completed **	(# or %)
Tickets/Stop work orders issued **	(# or %)
Fines collected **	(# and \$)
Complaints/concerns received from public **	(#)

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)
construction stormwater control	
Site inspections (for proper BMP installation & operation) completed **	(# or %)
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)
Low-impact development (LID) practices permitted and encouraged	(y/n)

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)
Qty of structures cleaned **	(#)
Qty. of storm drain cleaned **	(%, LF or
	mi.)
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)

Basin Cleaning Costs	
Annual budget/expenditure (labor & equipment)**	(\$)
Hourly or per basin contract rate **	(\$/hr or \$ per basin)
Disposal cost**	(\$)
Cleaning Equipment	
Clam shell truck(s) owned/leased	(#)
Vacuum truck(s) owned/leased	(#)
Vacuum trucks specified in contracts	 (y/n)
% Structures cleaned with clam shells **	(%)
% Structures cleaned with vactor **	(%)

(Preferred Units) Response Average frequency of street sweeping (non-commercial/non-arterial streets) ** (times/yr) Average frequency of street sweeping (commercial/arterial or other critical streets) ** (times/yr) Qty. of sand/debris collected by sweeping ** (lbs. or tons) Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) ** (location) Annual Sweeping Costs Annual budget/expenditure (labor & equipment)** (\$) • Hourly or lane mile contract rate ** (\$/hr. or ln mi.) Disposal cost** (\$) Sweeping Equipment • Rotary brush street sweepers owned/leased (#) Vacuum street sweepers owned/leased (#) • Vacuum street sweepers specified in contracts (y/n)% Roads swept with rotary brush sweepers ** % % Roads swept with vacuum sweepers ** %

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)	*
Fertilizers	(lbs. or %)

■ Herbicides	(lbs. or %)
■ Pesticides	(lbs. or %)
Integrated Pest Management (IPM) Practices Implemented	(y/n)

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **	% NaCl	
	% CaCl ₂	
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% MgCl ₂	
	% CMA	
	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi.	
	or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi.	
	or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n