2022 PV

WORCESTER
State College

486 Chandler Street • Worcester, MA 01602-2597
Facilities Department • 508-929-8025 • Fax: 508-929-8180

April 28, 2006

U. S. Environmental Protection Agency
Water Technical Unit
P.O. Box 8127
Boston, MA 02114

Re: NPDES Phase II Small M4S General Permit Annual Report

Dear EPA Staff,

Enclosed please find NPDES Phase II M4S General Permit Annual Report for Worcester State College, 486 Chandler Street, Worcester, MA. 01602, EPA NPDES Permit Number MAR042022, MA DEP Transmittal Number W-040406. This is the third report filed by the College and is for reporting year March 2005 to March 2006.

Please contact me at (508) 929-8052 or Robert Daniels, EH&S Officer for WSC, at (508) 929-8099 if you have any questions regarding this report.

Sincerely,

Sandra K. Olson

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Director of Facilities

8. AVM

Municipality/Organization: Worcester State College

EPA NPDES Permit Number: MAR042022

MA DEP Transmittal Number: W- 040406

Annual Report Number
& Reporting Period: No. 3: March 05-March 06

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert Daniels Title: Environ. Health and Safety Officer

Telephone #: 508-929-8099 Email: rdaniels@worcester.edu

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: Sandra K. Olson

Printed Name: Sandra K. Olson

Title: Director of Facilities

Date: 4/28/06

Part II. Self-Assessment

As of this Annual Report Update, Worcester State College received its NPDES Permit on July 16, 2004, Permit no. MAR042022/MADEP Transmittal No. W040406.

The Self Assessment has been completed and Worcester State College is in compliance with all permit conditions. Please note we called Ann Herrick on 12/7/05 to correct the Permit Number from MA043022 to MAR042022.

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
100 Revised	Distribution of Educational Materials	Robert Daniels	Obtain and distribute Storm Water Mgmt. Pamphlets by Fall of 2003.	Contacted, met, obtained and distributed 2 separate pamphlets supplied by the City of Worcester DPW for informing campus community of Storm Water Mgmt concerns. (enclosed) ---------- Complete	Continue to distribute pamphlets as supplied. Start to collect information for designing a more site specific pamphlet. Interact with on campus Water Watch group for additional outreach, assistance and interaction. ---------- Rather than design a campus specific pamphlet, we will include SW Management information on campus web-site. Decided not to work with Water Watch group because not available all year round.

1a. Additions

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.	Attended Share point workshop to better understand web-site design.	To be developed and launched by September 2006

100.2 2006	Distribution of Educational Materials	Robert Daniels	Designed a pamphlet for contractors to explain the expectations WSC has for contractors working on-site		Was developed in October 2005

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Planned Activities – Permit Year 2	Planned Activities – Permit Year 3
200 Revised	Storm Drain Stenciling	Robert Daniels	Stencil drains by Fall 2004	Continue stenciling project to include new construction as a result of expansion and renovation Stenciling to be completed by October 1, 2005.	Stenciling was complete by October 2005. Annual inspections will identify the need to repaint.

2a. Additions

200.1 (2005)	Campus Clean-up Day	Rich Korcez	Annually in April-May	Incentive based springtime cleanup, involving the entire campus community. Rake, pick-up trash, plant flowers, beautify campus.	Will be held in April-May annually.
200.2 (2005)	Lake Ellie Beautification	Peter Fenuccio	Summer of 2005 Pending budget and Con Com approval	Dredge sediment, plant vegetation	Will be complete
Revised 200.2 2006	Lake Ellie Dredging	Peter Fenuccio	Summer of 2007 Due to major construction projects on campus and site logistics, this BMP has been postponed		Dredge sediment, plant vegetation Will be complete Summer 2007

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Planned Activities – Permit Year 2	Planned Activities – Permit Year 3
301	Dye Testing	Robert Daniels	Begin Spring 2004, continue thru Fall of 2005	As above, new construction will need to be included. Anticipate keeping to Fall 2005 completion.	On-going
Revised				Project may continue through to spring 2006 due to on-going construction.	
302	Dry Weather Inspections	Robert Daniels	Begin Summer of 2004	Ongoing	On-going
Revised				Inspections started spring 2005 though fall 2005.	Will conduct in spring 2006
Revised					
Revised					

3a. Additions

303 (2005)	City sewer plans review	Robert Daniels	Begin Summer 2005	Get city plans to determine if flow of SW off-site goes to CSO or Segregated Sewer overflow. Bob Daniels called to discuss with city in Fall 2005, determined the sewers were segregated.	No further action needed

4. Construction Site Storm water Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Planned Activities – Permit Year 2	Planned Activities – Permit Year 3
401	Develop Construction Site Run Off Plan	Robert Daniels	Plan to be developed by Winter 2005	Pull together necessary information for plan development and completion by winter 2005. Construction Run-off Program will become part of the College's overall Storm Water Management Plan.	Completed Storm Water Management Plan in October 2005 which included a Construction Site Run-Off inspection checklist.
Revised					
402	Construction Run-Off Plan Training	Robert Daniels	Implementation Spring 2005	Start developing training materials and program	Developed Training in Winter 2005 and implemented training in January 2006
Revised			Implementation Spring 2006		

4a. Additions

403 2006	Develop an enforcement strategy when construction inspections and BMPs are not being implemented	Robert Daniels and Facilities Department	Document all Stop Work notices that are generated		In order to protect SW quality on campus, WSC Facilities Deppartment will have the power to issue Stop Work Notices if the Construction Site Operators are not complying with the BMPs included in their SWP3.

5. Post-Construction Storm water Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Planned Activities – Permit Year 2	Planned Activities – Permit Year 3
500	Develop a Post Construction Storm Water Management Plans an appendix to Storm Water Management Plan	Robert Daniels	Develop by Winter 2005	Pull together necessary information for plan development and incorporate any applicable information as a result of meetings for completion by winter 2005. Construction Run-off Program will become part of the College's overall Storm Water Management Plan	Completed Storm Water Management Plan in October 2005, which included a Post Construction SWM BMP Maintenance Schedule.
Revised					
501	Implement training for Post Construction SWM	Robert Daniels	Implement for spring 2005	Start developing training materials and program	Developed Training in Winter 2005 and implemented training in January 2006
Revised			Implement by Spring of 2006		

5a. Additions

502 2006	Research alternatives to sand/road salt for road and walkway deicing.	Robert Daniels	Get prices and do a cost benefit analysis		Try using Magic salt (Rock salt sprayed with magnesium chloride around the LRC in winter 2006-2007

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Planned Activities – Permit Year 2	Planned Activities – Permit Year 3
600	Develop a training program for Facility Personnel	Robert Daniels	During Winter 2004	Continue gathering information on current processes and evaluate those practices and identify areas of improvement prior to completing actual training.	Developed Training in Winter 2005 and implemented training in January 2006
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

6a. Additions

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Planned Activities – Permit Year 2	Planned Activities – Permit Year 3
	N/A				
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

No further information to be added at this time.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Storm water management position created/staffed	(y/n)	
Annual program budget/expenditures	($)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Storm water 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.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

In Place Prior to Phase II	Under Review	Drafted	Adopted

Regulatory Mechanism Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Storm water Management				
Accompanying Regulation Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

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 completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

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)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	($)	

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)	
Cost of sweepings disposal	($)	
Vacuum street sweepers purchased/leased	(#)	

Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	