



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

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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,

A handwritten signature in cursive script that reads "Sandra K. Olson".

Sandra K. Olson

Director of Facilities

8. APR

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**

Copy 8 - AMR

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@worchester.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: 

Printed Name: Sandra K. Olson

Title: Director of Facilities

Date: 4/25/06

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 | 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) | Continue to distribute pamphlets as supplied. |
| Revised | | | | Complete | 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 Revised | 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. Project may continue through to spring 2006 due to on-going construction. | On-going |
| 302 Revised | Dry Weather Inspections | Robert Daniels | Begin Summer of 2004 | Ongoing Inspections started spring 2005 through fall 2005. | On-going 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 Revised | 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. |
| 402 Revised | Construction Run-Off Plan Training | Robert Daniels | Implementation Spring 2005 Implementation Spring 2006 | Start developing training materials and program | Developed Training in Winter 2005 and implemented training in January 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 Department 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 Revised | 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. |
| 501 Revised | Implement training for Post Construction SWM | Robert Daniels | Implement for spring 2005 Implement by Spring of 2006 | Start developing training materials and program | Developed Training in Winter 2005 and implemented training in January 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 Under Drafted Adopted
 Prior to Review
 Phase II

| | | | |
|--|--|--|--|
| 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 screenings (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 screenings (landfill, POTW, compost, beneficial use, etc.) | (location) |
| Cost of screenings 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 |
| | % K _{ac} |
| | % 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) |
| | |
| | |