



Moorhead Campus

# **Storm Water Pollution Prevention Program Summary**

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## Minimum Control Measure #4- Construction Site Storm Water

# **Minnesota Community and Technical College- Moorhead Campus**

## **Storm Water Pollution Prevention Program**

### **Minimum Control Measure #1 - Public Education and Outreach**

#### **TARGET AUDIENCE**

Activities planned under the Public Education and Outreach portion of MSCTC-Moorhead ¶ V 6 WRUP : DWHU 3 ROOXWLRQ 3 UHYHQWLRQ 3 URJUDF members of the college community.

#### **GOALS**

The SWPPP activities implemented under Minimum Control Measure (MCM) 1 will focus on increasing public awareness of the harmful effects of storm water runoff and its potential to affect the water quality of the Red River. Educational information will be made available to the public promoting practices conducive to the reduction of pollution that results from storm water runoff. Outreach programs and education activities that demonstrate the impacts of storm water discharges on the Red River will be developed and implemented to increase the general level of understanding of the SWPPP throughout the college community.

#### **BEST MANAGEMENT PRACTICES (BMP)**

##### **BMP 1a-1: Distribute Educational Materials**

To expand current public service activities about storm water related issues, MSCTC-Moorhead will develop and distribute storm water pollution prevention related

The MSCTC Campus Newsletter will also be used to send public service announcements to the college

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- Develop and distribute educational pamphlets & fliers to the college community.
- Utilize the campus newsletter for storm water updates.
- Develop and provide storm water educational training to the college's facilities staff.

Year 2-5:

- Continue to revise and provide educational workshops to the college's facilities staff and general community.
- Continue to revise, review and distribute educational pamphlets & fliers.

Activity #2:

Year 1:

- Develop storm water handout information.
- Establish pamphlets racks in common areas of the campus.
- Distribute pamphlets and other storm water information at public meetings or campus events.

Year 2-5:

- Continue with the distribution of SWPPP information, revising as necessary after soliciting comments and suggestions.

Activity #3:

Year 1:

- Develop the storm water web site and related storm water links.

Year 2-5:

- Continue to review and revise as necessary while providing the most updated information relating to storm water management.

Activity #4:

**Year 1:** 185 BT1 BT1 0 0 1 125.66 299.45 Tm( )#1 0 0 1 131.54 270.05 Tm( )]168 BTBT/F1 12 Tf1 0 0 1 144

- Develop a map indicating storm drain locations.
- Develop storm drain stencils.
- Stencil storm drains.

Year 2-5:

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Activity #3:

- The number of people informed of the web site.
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governments, citizens, non-profit environmental groups, and local universities into a single organization.

5. MSCTC-Moorhead's Facilities Department will hold a public informational meeting to allow public involvement in the SWPPP process. The college community will be encouraged to attend allowing members to discuss various viewpoints and provide input concerning appropriate storm water management policies and Best Management Practices.

### **Activity Implementation Plan**

#### Activity #1:

Year 1:

- Develop a map indicating storm drain locations.
- Develop storm drain stencils.
- Stencil storm drains.

Year 2-5:

- Re-stencil the storm drains, if needed.

#### Activity #2:

Year 1-5:

- MSCTC-Moorhead will continue its annual campus clean-up event encouraging the campus community's involvement in support of Earth Day.

#### Activity #3:

Year 1-2:

- Educate MSCTC-Moorhead facilities personnel regarding the monitoring program.
- Develop and distribute posters that educate on potential contaminants, the hazards involved, and the "Hotline" number for reporting.

Year 3-5:

- Revise posters, if needed, and distribute, when necessary.
- Continue to provide refresher training to MSCTC-Moorhead personnel.

#### Activity #4:

Year 1:

- Provide information through its web page regarding River Keepers, its activities and supported needed.

Year 2-5:

- Continue to support and encourage involvement with River Keepers.

#### Activity #5:

Year 1-5:

- Annual meeting will be held so recommendations can be reviewed and applied to the annual SWPPP summary report.

### **Performance Measures**

#### Activity #1:

- The number of storm drains stenciled.
- The number of stenciling participants.

#### Activity #2:

- The number of potential participants informed.

- The number of participants involved.
- The quantity of trash collected.
- The amount of campus area cleaned.

Activity #3:

- The number of volunteers educated and participating.
- The frequency of monitoring.
- The number of phone calls to the "Hotline".
- The amount of potential contaminant removed.
- The number of "Hotline" posters distributed.

Activity #4:

- Number of MSCTC-Moorhead volunteers attracted to the watershed organization.
- Response from River Keepers.

Activity #5:

- Number of informed college community members.
- Attendance numbers at the annual meeting.
- Recommendations and action taken as a result of the meeting.



Activities planned under the Post-



Year 2-5:

- Implement coordinated educational programs.
- Evaluate programs for strengths and weaknesses.
- Continue to implement improved programs.

**BMP 1e-1: Annual Public Meeting**

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Water Pollution Prevention Program (SWPPP) prior to submitting the annual report to the Minnesota Pollution Control Agency (MPCA). MSCTC-Moorhead ¶ Facilities

Department will conduct the meeting to allow public involvement in the SWPPP process.

Notice of the public meeting will be provided 30 days prior and will include the date, time and meeting location, and include location of a public copy of MSCTC-Moorhead ¶ V SWPPP. Distribution of this notice to the college community will be published through the MSCTC-Moorhead campus newsletter. The college community will be encouraged to attend allowing it

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## **Storm Water Pollution Prevention Program**

### **Minimum Control Measure #3 - Illicit Discharge Detection & Elimination**

#### **TARGET AUDIENCE**

Activities planned under the Illicit Discharge Detection and Elimination Measures portion of the Storm Water Pollution Prevention Program (SWPPP) will be directed towards students, faculty and staff of the college community, with an emphasis on facilities employees and Trades faculty.

#### **GOALS**

The SWPPP activities under Minimum Control Measure (MCM) 3 will focus on development, implementation, and enforcement of management strategies that will lead to the reduction, elimination and the impact of illicit pollutant discharges into the storm water system throughout the college community.

#### **BEST MANAGEMENT PRACTICES (BMP)**

##### **BMP 3a-1: Storm Sewer System Map**

MSCTC-Moorhead will develop and keep on file a detailed storm sewer map showing the location of 11 0 0 1 134.S

**BMP 3b-1: Regulatory Control Program**

MSCTC-Moorhead will effectively prohibit non-storm water discharges into its storm sewer system and implement appropriate enforcement procedures and action as determined by City of Moorhead ordinances.

**Measurable Goals**

- The number of inspections to the storm water system.
- The number of ordinances passed by the City of Moorhead.
- The number of potential connection sites identified.

**Timeline/Implementation Schedule**

Year 1:

- Abide by City of Moorhead ordinances for illicit non-storm water discharges.
- Begin inspection for illicit non-storm water discharges.

Year 2-5:

- Continue inspections and abiding by City of Moorhead or

tracing the source of illicit discharge; procedures for removing the source of discharge; and the procedures for program evaluation and assessment. This information will be provided through educational training, information brochures, posters, web page and inspections of the storm drain system.

#### Measurable Goals

- The number of educational fliers and/or materials distributed.
- Attendance numbers at training sessions.
- The number of locations determined to have the potential for illicit discharges.
- The number of illicit discharges reported.
- The number of corrective measures taken to prevent illicit discharges.

#### Timeline/Implementation Schedule

Year 1:

- Develop and begin educational program training

Year 2-5:

- Assess year's goals and continue educational program training

#### **BMP 3e-1: Identification of Non-Storm water Discharges and Flow**

MSCTC-Moorhead will develop a process to evaluate whether any of the following categories of non-storm water discharges or flows are significant contributors of pollutants to our MS4. If MSCTC

### Measurable Goals

- The number of non-storm water flows reported and identified.
- The number of non-storm water flows prevented, stopped or removed.

### Timeline/Implementation Schedule

Year 1:

# **Minnesota State College Moorhead**

## **Storm Water Pollution Prevention Program**

### **Minimum Control Measure #4- Construction Site Storm Water Runoff Control**

#### **TARGET AUDIENCE**

Activities planned under the Construction Site Storm Water Runoff Control portion of the Storm Water Pollution Prevention Program (SWPPP) will be directed toward contractors, construction site operators, inspectors, and facilities personnel of the college community.

#### **GOALS**

The SWPPP activities implemented under Minimum Control Measure (MCM) 4 will focus on program development, implementation, and enforcement of management strategies that will reduce or eliminate the impacts of storm water runoff into the storm sewer system from any on-campus construction activity that results in a land disturbance of greater than or equal to one acre.

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Measurable Goals

- The number of erosion controls utilized.
- The number of sedimentation controls implemented.
- The amount of sediment collected.
- The frequency and number of site inspections conducted.

Timeline/Implementation Schedule

Year 1-5:

- Abide by the City of Moorhead's ordinances with respect to erosion and sedimentation control and require contractors provide appropriate erosion and sedimentation control on all regulated construction sites.

**BMP 4c-1: Waste Controls for Construction Site Operators**

MSCTC-Moorhead will develop and implement a program to control and eliminate construction site waste that may impact storm water runoff. This program will address construction entrances, vehicle maintenance, equipment washing areas and proper waste disposal.

Measurable Goals

- The reduction of site waste with respect to construction.
- The number of vehicle wash areas on-site.
- Whether or not construction vehicles are regularly inspected and maintained.
- Frequency of inspection and maintenance activities.

Timeline/Implementation Schedule

Year 1:

- Develop plan to control and eliminate construction site waste.

Year 2-5:

- Implement plans to control and eliminate construction site waste.

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**BMP 4e-1: Establishment of Procedures for the Receipt and Consideration of Reports of Storm water Noncompliance**

MSCTC-Moorhead will establish procedures to report construction site storm water runoff control noncompliance. The procedures will encourage those concerned to report noncompliance issues to either the City of Moorhead or MSCTC-Moorhead's Facilities Department storm water "Hotline" numbers. All reports will be considered and investigated.

**Measurable Goals**

- The number of noncompliance concerns reported and investigated.
- The number of noncompliance concerns resolved or corrected.

**Timeline/Implementation Schedule**

Year 1:

- Develop and implement procedures to report construction site storm water runoff control noncompliance.

Year 2-5:

- Continue to implement procedures and update, if necessary.

**BMP 4f-1: Establishment of Procedures for Site Inspections and Enforcement**

MSCTC-Moorhead will ensure campus construction sites operate in accordance with this SWPPP. MSCTC-Moorhead will review site plans to evaluate and implement the appropriate BMPs for construction activities established within this SWPPP and the City of Moorhead's SWPPP. These site plans include:

- Description of the activity, proposed timetable, amount of area disturbed, and any outfalls to the storm conveyance system or water body;
- Map or drawing of the site showing the boundaries, soil disturbance limits, storm water drainage pattern, location of receiving waters and/or storm inlets, storage areas for materials, and storm water management controls;
- Description of the method of storage, disposal, and handling of materials which have the potential to be released with storm water;
- Description of the BMPs to control erosion and sedimentation during all phases of construction;
- Description of methods to address sediment tracking on roads, recovering sediments, and spill prevention and response procedures;
- Site inspection procedure providing at least one inspection every 14 days and within 24 hours after any storm event of greater than 0.50 inches of rain per 24 hours period;
- Site Inspection Records (SIR) will be kept for the date and time of inspections, the name of the inspector, and the date and amount of last precipitation event. All incidents of erosion, sediment accumulation, or spills will be documented. The record will include the location and description of



the incident, estimated quality of material or size of area affected, and a brief explanation of potential cause and remedial action taken.

#### Measurable Goals

- Number of construction site maps with detailed water controls.
- Number of stored and disposed materials that have potential to be released with storm water.
- Number of different BMPs for erosion and sedimentation during multiple construction phases.
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# Minnesota State College Moorhead

## Storm Water Pollution Prevention Program

### Minimum Control Measure #5- Post Construction Storm Water Management in New Development and Redevelopment

#### TARGET AUDIENCE

Activities planned under the Post-Construction Storm Water Management in New Development and Redevelopment portion of the Storm Water Pollution Prevention Program (SWPPP) will be directed toward developers, contractors, construction site operators, inspectors, and facilities personnel.

#### GOALS

The SWPPP activities under Minimum Control Measure (MCM) 5 will focus on development, implementation, and enforcement of a program that will reduce or eliminate the impacts of storm water runoff from new development and re-development projects that disturb greater than or equal to one acre, including projects that are less than one acre and are part of a larger development plan, that discharge into the College ¶ V storm sewer system.

#### BEST MANAGEMENT PRACTICES (BMP)

##### BMP 5a-1: Development and Implementation of Structural and/or Non-structural ¶ 0 3 ¶ V

MSCTC-Moorhead will follow any ordinance adopted by the City of Moorhead and regulate post-construction runoff in accordance with their procedures. MSCTC-Moorhead will inspect for structural and non- V W U X F W X i n s t a l l e d f o r m a n a g i n g post-construction stormwater and insist that they be installed and used correctly. An example of structural practices include the installation of wet detention basins. An example of a non-structural practice includes the creation of swales to slow stormwater runoff and allow sediment to drop out of the flow.

#### Measurable Goals

- Reduction of sediment quantity from future development and re-development projects.
- Changes in water quality of effluent from a detention pond outlet, if created.
- The effectiveness of the installed system, such as swales to slow runoff.
- The reduction of sediment entering the stormwater system.

#### Timeline/Implementation Schedule

Year 1-5:

- MSCTC-Moorhead will follow any ordinance adopted by the City of Moorhead and regulate post-construction runoff in accordance with their procedures.

- Implement inspections of structural and/or non-structural construction activity.
- Monitor effectiveness and make necessary improvements into practice.

**BMP 5b-1: Regulatory Mechanism to Address Post Construction Runoff from New Development and Redevelopment**

With respect to development and re-development projects, MSCTC-Moorhead

**Person Responsible for Implementation and Coordination of MCM #5**

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# **Minnesota State College Moorhead**

## **Storm Water Pollution Prevention Program**

### **Minimum Control Measure #6 ±Pollution Prevention/Good Housekeeping**

#### **TARGET AUDIENCE**

Activities planned under the Pollution Prevention/Good Housekeeping portion of the Storm Water Pollution Prevention Program will be directed primarily toward college Facilities personnel and Trades faculty.

#### **GOALS**

The SWPPP activities implemented under Minimum Control Measure (MCM) 6 will focus on developing and implementing general procedures for an operations & maintenance program that will reduce or eliminate the impacts of storm water pollution from open space maintenance, snow disposal, vehicle and building maintenance, land disturbances, and storm water conveyance system maintenance.

#### **BEST MANAGEMENT PRACTICES (BMP)**

##### **BMP 6a-1: Municipal Operations and Maintenance Program**



## Measurable Goals

## Measurable Goals

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- The number of inspections per year.
- Inspection results with date, antecedent weather conditions.
- Any maintenance performed or recommended.

#### Timeline/Implementation Schedule

Year 1:

- Establish procedure for annual inspections.

Year 2-5:

- Implement annual inspections.
- Evaluation of the inspection frequency and adjustment according to the results.

#### **Person Responsible for Implementation and Coordination of MCM #6**

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