# University of Nebraska-Lincoln Stormwater Management Plan Permit Term July 1, 2018- June 30, 2022

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# MCM 1&2: Public Education, Outreach, and Involvement Program

The University of Nebraska-Lincoln's Public Education, Outreach, and Involvement Program targets faculty, staff, and students. Educational outreach activities directed at construction contractors working on UNL's City and East Campuses are discussed in Minimum Control Measure 4, Construction Site Run-off Control (BMP 4.06).

The overall goal of UNL's Public Education, Outreach, and Involvement Program is to minimize adverse impacts from storm water run-off and illicit discharges associated with UNL's SMS4. UNL's program includes relevant topics such as illegal dumping, illicit discharges, E.coli and ammonia water quality impairment information, vehicle maintenance, street maintenance, spill response, proper waste management, and post-construction BMPs. Specific objectives of this program are to:

- Enhance awareness of potential sources of storm water pollution, with special emphasis on pollutants for which a TMDL has been established for a receiving water from UNL's SMS4.
- Enhance awareness of strategies used to minimize pollutants in storm water run-off.
- Enhance awareness of strategies used to minimize increases in storm water run-off volume and rate.
- Encourage the UNL community to become familiar with UNL's Storm Water Management Plan, and provide comments and suggestions for improvements.
- Encourage the UNL community to be aware of and promptly report potential discharges of pollutants or failures of any features of UNL's storm water conveyance or control system.
- Encourage every member of UNL's community to adhere to those good housekeeping and pollution prevention practices that are applicable to their activities and role at UNL.

Examples of various means of distributing information include: fliers, press releases, signage, PowerPoint presentations, online training, informational booths, presentations and guest lectures, UNL EHS maintained website, EHS listserv, and on-line publications from UNL Communications. There are approximately 1,354 subscribers to the EHS listserv. "Nebraska Today" is a newsletter that is emailed to all faculty and staff throughout the year. "Next@Nebraska" is a newsletter that is emailed weekly during the school year to students.

EHS maintains an on-line reporting tool, Stormwater Pollution Reporter, to facilitate reporting of concerns by the campus community. This reporting tool is prominently displayed on the EHS home page (<a href="www.ehs.unl.edu">www.ehs.unl.edu</a>). The EHS web page also contains many other resources, such as EHS authored guidance documents (SOPs), links to UNL Extension publications, links to federal and state resources, links to professional storm water organizations, and information on sustainability initiatives, which often include storm water considerations.

Requirement: MCM 1 Public Education			
Reference	BMP 1.01 Public Education  (Part IV.B.1.a.1)  1. The permittee must develop and implement a comprehensive stormwater education and outreach program for the MS4. The SWMP must, at a minimum:  a) Define the goals and objectives of the program based on defined high priority, community-wide issues; b) Define the target audience(s); c) Maintain and update appropriate messages for targeted residential, construction, industrial, and commercial issues; d) Define methods and process of distribution; e) Distribute appropriate educational materials and media to the target audience each year, using whichever methods and procedures determined appropriate by the permittee.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ul> <li>(a) EHS will continue to publish and update storm water educational information on the EHS web site.</li> <li>(b) EHS will continue to include a storm water awareness message in general Injury and Illness Prevention Program (IIPP) training, which targets new employees and paid students.</li> <li>(c) EHS will continue to distribute storm water awareness information at gatherings specifically targeting new students.</li> <li>(d) EHS will continue to publish articles related to storm water in the EHS listserv.</li> <li>(e) EHS will continue to collaborate with UNL Communications to publish information in Nebraska Today and Next@Nebraska on newly installed post-construction controls and UNL's SMS4 Permit and SWMP.</li> </ul>	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years:  1. At least annually, review and update storm water educational information contained on EHS's web site.		

	<ol> <li>At least annually, sponsor a storm water awareness booth at a large student event.</li> <li>At least annually, publish a storm water awareness article in the EHS list serve.</li> <li>At least annually, submit a news article for publication in Nebraska Today and Next@Nebraska highlighting either newly installed post-construction structural controls or certain aspects of UNL's SWMP.</li> </ol>
Report	<ul> <li>1. Date, nature of the large student event(s) with an EHS sponsored booth, estimated number of students that visited the booth, and summary of relevant information presented/distributed (during the prior year).</li> <li>2. Date, summary of information distributed through EHS listserv, Nebraska Today, or Next@Nebraska</li> <li>3. Summary of changes made to the EHS web site relative to available educational materials (during the prior year).</li> <li>4. Number of persons completing an EHS training module that contains a storm water awareness message (during the prior year).</li> </ul>
Evaluation: Environmental Indicators of Effectiveness	N/A
Requirement: MCM 2	2 Outreach and Involvement
Reference	BMP 2.01 Outreach and Involvement (Part IV.B.1.a.2)
	2. The permittee must provide a stormwater public involvement program that involves the public in the planning and implementation of programs and activities

	related to the development and implementation of the SWMP. At a minimum, the permittee must: a) Provide public notice of opportunities to review and comment on all new rules, ordinances, regulations and SWMP revisions drafted by the MS\$; b) Create opportunities for citizens to participate in the implementation of storm water controls; and c) Ensure the public can easily find information about the permittee's SWMP.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ol> <li>EHS will maintain the on-line Stormwater Pollution Reporter tool.</li> <li>EHS will solicit feedback on UNL's SWMP and proposed revisions by:</li> </ol>	Date of Last Update	(date of last SWMP update)
	a. Adding language to the EHS web site asking for comments and suggestions from the campus community.		
	<ul> <li>Soliciting comments and suggestions with announcements published in the EHS listserv.</li> </ul>		
	c. Soliciting comments and suggestions at meetings of the Chancellor's University Safety Committee, which has broad faculty and staff representation.		
	d. Soliciting comments and suggestions by sending written notice to or attending a meeting of ASUN (Student Government)		
	3. EHS will announce publication of its annual report and solicit feedback using the same mechanisms described above.		
Measurable Goals	Year 1:		
	UNL's SMS4 permit and SWMP will be published on the EHS web site. Within one month of posting to the EHS web site, EHS will solicit feedback using the mechanisms described above.		
	All Years:		

Evaluation: Environmental Indicators of Effectiveness	responses will be available upon request.  N/A		
Report	Summary of public notices, including date, content, and mechanisms of distribution.  Documentation of all comments and	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
	community upon request.  3. UNL's most current SMS4 permit and SWMP will be available on the EHS web site for public viewing throughout the permit term.		
	2. EHS will announce publication of its annual storm water report and solicit comment from the campus community as described above. EHS will respond to all comments in writing and maintain records of comments and responses for the duration of the permit term. These records will be made available to the campus		
	1. EHS will solicit comment from the campus community of proposed significant changes to UNL's SWMP as described above. EHS will provide at least one month for receiving comments on proposed changes. All comments and EHS responses will be published to the EHS web site for a minimum of one month prior to finalizing any changes.		

## MCM 3: Illicit Discharge Detection Elimination Program

The purpose of the University of Nebraska-Lincoln's Illicit Discharge Detection Elimination (IDDE) Program is to detect and eliminate non-storm water discharges of pollutants to receiving waters, including discharges for which a TMDL has been established due to a water quality impairment.

In support of UNL's IDDE program, EHS collaborates with UNL's Utility Services to maintain an up-to-date map of UNL's storm sewer system that includes the location of all outfalls; names and location of all waters of the state that receive discharges from UNL's outfalls; drainage areas within UNL's City and East Campuses that contribute to the storm sewer system; and, connections to the City of Lincoln's storm sewer system (including information on ownership of conveyance systems that transect UNL property).

As part of the IDDE program, EHS conducts annual dry weather inspections of all outfall that are 8" or greater in size, unless such outfall cannot be safely accessed due to site conditions. These inspections are documented, and conducted in accordance with written procedures. The written procedures include minimum staff and equipment needed to conduct these inspections, and the process used to evaluate outfalls. Information captured includes date and time of inspection, name of inspector, date of last significant rainfall event, outfall physical condition (e.g., damage, deposits/stains, vegetation, sediment accumulation), physical indicators (e.g., odor, color, turbidity, sheen, suds/foaming, trash) for outfalls with flows, water quality screening parameters (e.g., ammonia, chlorine, hardness, alkalinity, pH, nitrate, conductivity, temperature) for outfalls with flows, and illicit discharge investigation details for flows that appear consistent with an illicit discharge. The written procedures also include instruction on discharges that must be immediately reported to NDEQ and instruction on documenting follow-up actions taken to eliminate illicit discharges.

In addition to dry weather monitoring of outfalls, EHS maintains an on-line reporting tool, Stormwater Pollution Reporter, to facilitate reporting of potential illicit discharges by the campus community or any other person. This reporting tool is prominently displayed on the EHS home page (<a href="www.ehs.unl.edu">www.ehs.unl.edu</a>). EHS investigates all reports of potential illicit discharges in accordance with the procedures described above.

Requirement: MCM	3 Illicit Discharge Detection Elimination		
Reference	BMP 3.01 Enforcement Plan		
	(Part IV.B.2.a.1.a)		
	a. The permittee must, as part of the IDDE program, develop an enforcement plan or mechanism following the requirements of <b>Parts III.A</b> and <b>B</b> of this permit.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	EHS will continue to have and implement an Enforcement Response Plan	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years: The formal written Enforcement Plan will be implemented. The plan will be reviewed annually for needed modifications/updates.		
Report	EHS will report substantial changes made to the Enforcement Plan with each annual report.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
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Reference	BMP 3.02 Mapping	ام م م م م م م م	d
	<ul> <li>(Part IV.B.2.a.1.b): The IDDE program must include or address:</li> <li>b. A storm sewer system map showing the location of all outfalls and the names and location of all waters of the state that receive discharges from those outfalls. If the SMS4 system connects to another MS4 system, the outfall drainage areas can be limited to those that drain only to the permittee's system. Connections and interactions to other MS4 systems need to be delineated;</li> </ul>		
Responsible	Utilities: GIS Project Manager	Date of Last Review	(date the strategy/SOP reviewed)

Strategy	The GIS Project Manager is informed of all projects that involve changes to the existing storm water system through the UNL construction management process.	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years: The GIS Project Manager will update the GIS system as changes are made to the storm sewer system to ensure that current information is readily available.		
Report	The GIS map will be available for review by the permitting authority upon request. No reporting.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	<ul> <li>BMP 3.03 Dry-Weather Field Screening</li> <li>(Part IV.B.2.a.1.c): The IDDE program must include or address:</li> <li>c. Outfall field screening procedures and priority locations to investigate for detecting illicit discharges;</li> <li>I. The permittee must document written dry weather field screening and analytical monitoring procedures which are to be used at a number of outfall locations specified in the SWMP each year to detect discharges to the MS4;</li> <li>II. The screening procedures must identify the minimum staff, equipment, and discharge evaluation process used by the permittee; and</li> <li>III. The permittee must document the basis for its selection of each priority location and maintain a current list of all priority locations identified in the system.</li> </ul>		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	1. EHS will continue to conduct dry weather inspections of all safely accessible UNL outfalls that are 8" or greater in size. Inspections will be conducted in accordance with the IDDE written procedures described in the introductory narrative of this MCM.		(date of last SWMP update)

	2. A current map listing all qualifying outfalls will continue to be maintained, as described in BMP 3.02.		
Measurable Goals	All Years: EHS will inspect all safely accessible qualifying outfalls and maintain associated documentation. In addition, the storm sewer map will be updated to include newly installed qualifying outfalls as described in BMP 3.02.		
Report	<ol> <li>Report percentage of qualifying outfalls for which a dry weather inspection was completed during the previous year. Report rationale/reason why any qualifying outlet was not inspected during the previous year.</li> <li>Provide a summary of illicit discharges identified through dry weather monitoring during the prior year's inspections.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	None		
Reference	(Part IV.B.2.a.1.d & e): The IDDE program m  d. Procedures, staff, and equipment require of all identified illicit discharge;  (i) The permittee must report imm weather flows believed to be an immedia environment to NDEQ by calling (402) 473 hours, weekends, and holidays; and  (ii) The permittee must document the date(s) the illicit discharge was observed follow-up of the investigation; and the date. Procedures for removing the source of the Response Plan in Part III.B:  (i) Once the source of the illicit discharge must take immediate action so the response to eliminate the non-storm water	ust include of ed for investigation and investigation all investigations the resulte the investine discharge marge has been sible party of the conduct.	r address: gating and tracing the source occurrence of any dry numan health or the 02) 471-4545 after business ions to track at a minimum lts of the investigation; any igation was closed. using the Enforcement en determined, the permittee of the problem can be all necessary corrective

	(ii) The permittee must document all interactions with potentially responsible parties as well as follow-up investigations to confirm illicit discharges have been removed.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy  Measurable Goals	<ol> <li>EHS will continue to investigate all identified and reported illicit discharges and conduct appropriate follow-up investigations and actions in accordance with UNL's IDDE written procedures (which include all regulatory requirements described in Part IV.B.2.a.1.d &amp; e of the General Permit) and as described in the narrative for this MCM.</li> <li>EHS will implement its Enforcement Response Plan as described in BMP 3.01.</li> <li>All Years:</li> <li>EHS will take action to eliminate all identified illicit discharges to UNL's storm</li> </ol>	Date of Last Update	(date of last SWMP update)
	sewer system.		
Report	Summarize nature of each illicit discharge identified during the previous year and actions taken to eliminate the discharge.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report any analytical data obtained to chara the previous year.	octerize illicit	discharges detected during
Reference	BMP 3.05 Non-Stormwater Discharges  (Part IV.B.2.a.1.f): The IDDE program must include or address:		

Report	Any changes to local controls.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report all analytical sampling data generated from incidental discharges from the previous year, if analytical testing is conducted.		
Reference	<ul> <li>BMP 3.06 Adjacent MS4 Cooperation</li> <li>(Part IV.B.2.a.2&amp;3)</li> <li>2. If illicit connections or illicit discharges are observed related to an adjacent MS4 operator's municipal storm sewer system then the permittee must notify the other operator within 48 hours of discovery or as soon as practicable.</li> <li>3. If another operator notifies the permittee of an illegal connection or illicit discharge to the municipal separate storm sewer system then the permittee must follow the requirements specified in Part IV.B.2.a.1.b-d.</li> </ul>		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	EHS will continue to maintain cooperative reporting and investigation practices with the City of Lincoln, as described in UNL's IDDE procedure.	Date of Last Update	(date of last SWMP update)
Measurable Goals	<ol> <li>EHS will refer all suspected illicit discharges that originate up-gradient to UNL's SMS4 to the City of Lincoln within 48 hours of discovery.</li> <li>EHS will investigate all reports of suspected illicit discharges received from the City of Lincoln, in accordance with UNL's IDDE investigation procedures.</li> </ol>		
Report	Summarize number and nature of reports forwarded to the City and received from the City, including actions taken to eliminate illicit discharges originating on UNL's property.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental	N/A		

Indicators of Effectiveness			
Reference	<ol> <li>BMP 3.07 Public Reporting of Non-Storm Water Discharges and Spills</li> <li>(Part IV.B.a.2.b.1-3)</li> <li>1) The permittee must promote, publicize, and facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from MS4s.</li> <li>2) The permittee must develop a written spill/dumping response procedure, and a flow chart or phone tree, or similar list for internal use, that shows the procedures for responding to notification regarding illicit discharges, the various responsible agencies and their contacts, and who would be involved in illicit discharge incidence response, even if it is a different entity other than the permittee.</li> <li>3) The permittee must conduct inspections in response to complaints and follow-up inspections as needed to ensure that corrective measures have been implemented by the responsible party to achieve and maintain compliance.</li> </ol>		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ol> <li>EHS will continue to maintain the public reporting mechanism, Stormwater Reporter, on the EHS web page and promote reporting of potential illicit discharges by the campus community as part of the public education and outreach initiatives described in MCM 1 and 2.</li> <li>UNL's IDDE procedure contains spill/dumping response procedures and contact information for various departments and agencies that may need to be notified.</li> <li>UNL's IDDE procedure addresses tracking, investigation, and follow up on all reports of illicit discharges.</li> </ol>	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years:		
	EHS will respond to all reports of potential illicit discharges and retain documentation of the nature of the complaint and EHS		

	follow-up actions, as described in UNL's IDDE procedures.		
Report	<ol> <li>Summary of public reports that EHS received during the prior year, nature of the discharge based on EHS investigation, and actions taken to eliminate the discharge.</li> <li>Report substantial changes made to UNL's IDDE procedures.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report analytical results of water quality sar discharge investigations, if conducted.	mpling condu	icted in response to illicit
Reference	<ul> <li>(Part IV.B.2.c)</li> <li>1) The permittee must develop and implement field staff, which, as part of their normal contact with or otherwise observe an illiment storm sewer system. Training program of the permitting authority.</li> <li>2) The SWMP must identify the frequency of identified in Part IV.B.2.c.1 above on the connection. The permittee must docume provided and the staff trained.</li> </ul>	nent a trainin job responsi cit discharge locuments m or implemen e identificatio	bilities, may come into or illicit connection to the ust be available for review by a strategy for training staff on of an illicit discharge or
Responsible	EHS: Stormwater Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ol> <li>EHS will implement a field staff illicit discharge detection training program.</li> <li>Target Audience: appropriate employees that are beyond the scope of MCM 6 training, within EHS, Utilities, Landscape Services, and Building Maintenance Departments.</li> <li>Annually, EHS will schedule a training session with each participating department to train employees who have not previously attended a training session (e.g., new hires). EHS will distribute</li> </ol>	Date of Last Update	(date of last SWMP update)

	refresher training materials on an annual basis to employees who have been previously trained. Refresher training format may be instructor-led, web-based, or through distribution of written materials.  4. EHS will maintain records of training to include: names, department and role/title of persons trained, dates of training, and summary of training materials.		
Measurable Goals	<ol> <li>Year One:         <ol> <li>Identify field staff that are required to participate in the training.</li> <li>Deliver training to field staff.</li> </ol> </li> <li>All Subsequent Years:         <ol> <li>Design refresher training materials and distribute to previously trained staff.</li> </ol> </li> <li>Deliver training to newly hired field staff.</li> </ol>		
Report	<ol> <li>Number of newly trained staff, by department.</li> <li>Number of staff receiving refresher training, by department.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		

#### MCM 4: Construction Site Runoff Control

The University of Nebraska-Lincoln has established a construction site runoff control program that requires all construction projects on City and East campuses that disturb one acre or greater or projects less than an acre but part of a larger project to hold a NPDES Construction General Permit. Prior to starting work, General contractors must submit their Erosion and Sediment Control Plans to EHS for review and approval prior to commencing earth disturbing activities. In addition, EHS participates in pre-construction meetings with General Contractors to discuss their obligations under NDEQ's NPDES Construction General Permit and UNL's SMS4 NPDES permit. EHS conducts routine inspections of construction sites to evaluate the effectiveness of site-specific runoff controls, as well as compliance with other aspects of NDEQ's NPDES Construction General Permit. Audit findings are communicated to the General Contractor and UNL's Construction Project Manager. Follow-up communication and/or inspections establish whether appropriate corrective actions were implemented by the General Contractor.

#### **Authority**

UNL has established appropriate authority to support the construction site runoff control program through General Construction Contracts and Project Specifications. A summary of provisions in each of these mechanisms of authority follows.

#### **General Construction Contract:**

- Contains provisions that require the contractor to obtain coverage under NDEQ's NPDES Construction General Permit when applicable and adhere to all requirements of the permit at all times.
- Specifically requires contractors to minimize sediment runoff, track out, and promptly clean streets of sediment.
- Requires contractor to adhere to proper site dewatering practices.
- Establishes authority for UNL to issue stop work orders as necessary if contractor fails to correct deficiencies.
- Requires contractor to provide prompt notification of releases of hazardous substances and petroleum and to take immediate action to stop and clean-up the release.

#### **General Specification:**

- Requires contractor to develop a SWPPP and Erosion and Sediment Control Plan (ESCP) for sites subject to NDEQ's NPDES Construction General Permit and submit the ESCP to UNL EHS for review and approval prior to earth disturbing activities.
- Requires contractors to: 1) Plan for, implement, and maintain reasonable measures to prevent storm water pollution resulting from construction activities, 2) Report to the owner any release of any quantity of hazardous material at the construction site, 3) Maintain good housekeeping at the construction site, 4) Take corrective action to rectify concerns expressed by the Owner's representatives related to storm water pollution prevention controls.

#### Outreach

A primary reference tool to support UNL's SWMP with respect to contractor education is the EHS web site. This web-site is continually updated as new resources are developed or identified. It contains guidance materials developed specifically for UNL (under the heading of Safe Operating Procedures), as well as links to information provided by local, state, and federal authorities. Links are also provided to professional organizations and other materials that are educational in nature. Some of the materials are fairly general and are intended for awareness purposes (e.g., After the Storm Video link), while others are very specific (e.g., Nebraska Department of Transportation Construction Stormwater Best Management Practices Manual, City of Lincoln Drainage Criteria Manual, Chapter 8, Construction Best Management Practices, Omaha Regional Stormwater Design Manual, etc.). This web site will also contain UNL's SMS4 permit, SWMP, annual reports, and key supporting procedurs (e.g., Enforcement Response Plan, etc.).

Requirement: MCM	4 Construction Site Runoff Control				
Reference	BMP 4.01 Enforcement				
	(Part IV.B.3.b)				
	The permittee must, as part of the construction requirements and control measures, develop an enforcement plan or mechanism following the requirements of <b>Parts III.A</b> and <b>B</b> of this permit				
Responsible	EHS: Environmental Specialist  Date of Last reviewed)  Review  (date the strategy/SOP reviewed)				
Strategy	See BMP 3.01. UNL's enforcement response plan addresses construction sites.	Date of Last Update	(date of last SWMP update)		
Measurable Goals	See BMP 3.01				
Report	See BMP 3.01	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>		
Evaluation: Environmental Indicators of Effectiveness	None				
Reference	BMP 4.02 Site Plan Review and Approval				
	(Part IV.B.3.c)				
	The permittee must require each operator of a construction activity described in <b>Part IV.B.3.a</b> to prepare and submit for review an erosion and sediment control plan prior to the disturbance of land for the permittee's review and written authorization (operator must submit Part III.B.2 of the NDEQ NPDES General Permit Number NER 160000 for Storm Water Discharges from Construction Sites to Waters of the State of Nebraska). The permittee must implement site plan review procedures that meet the following minimum requirements:  1) The permittee must not approve any erosion and sediment control plan unless it contains appropriate site-specific construction site control measures that meets the minimum local requirements for storm water protection of construction activity.				

	<ol> <li>The permittee must use qualified individuals, knowledgeable in the technical review of erosion and sediment control plans to conduct such reviews.</li> <li>The permittee must document its review of erosion and sediment control plan using a checklist or similar process.</li> <li>The permittee must maintain an inventory that is continually updated of all active public and private construction sites authorized by the permittee within the MS4 boundary.</li> </ol>			
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)	
Strategy	As discussed in the narrative for this MCM, UNL General Specifications for construction require contractors to submit an Erosion and Sediment Control Plan (ESCP) for review and approval by EHS prior to commencing earth disturbing activities.  At a minimum, EHS staff reviewing and approving ESCPs will have a bachelor's degree, one year related experience, and successfully completed a NDOR Erosion and Sediment Control Inspector course or equivalent. Reviews are conducted and documented in accordance with written procedures.  A current inventory of permitted	Date of Last Update	(date of last SWMP update)	
	construction sites is maintained by EHS.			
Measurable Goals	All Years:  EHS will have reviewed and approved ESCPs for 100% of all construction sites subject to NDEQ's Construction General Permit initiated during the previous year, and will have review documentation on file for every site.			
Report	Percentage of new construction sites subject to NPDES Construction General Permit requirements for which EHS reviewed and approved an erosion and	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>	

	sediment control plan during the prior year.		
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	(Part IV.B.3.d)  1. The permittee must inspect public and plocal procedures with a strategy documed.  2. The permittee must provide trained and inspections. The permittee must also devoutlining the local inspection and enforce construction sites must, at a minimum:  (a) Check for coverage under the NDEQ Notes application form during initial inspect (b) Review the applicable erosion and seed thorough site inspection to determine installed, implemented, and maintain (c) Assess compliance with the permittee storm water runoff, including the implemented of the i	rivate consented in the qualified in velop and in the process generally and in the process or Notice of ions; diment content according ed according ed according lementation water displications water tion report inspection ing period, by the period, by the period to ensure plan require	truction activity according to SWMP. Inspectors for municipal implement written procedures redures. Inspections of it all construction permit by intent (NOI) or other relevant it of plan and conduct a measures have been selected, ing to the plan; rese and permits related to in and maintenance of it charges, potential illicit storm water runoff, and the oved offsite; pollution prevention, as generated from findings in the inspection findings must be initting authority. It is take all necessary follow-up compliance in accordance with it in the part III.B. These follow-up compliance in accordance with it is sufficient in the part III.B. These follow-up in the process in the part III.B. These follow-up in the process in the part III.B. These follow-up in the part III.B. These follow-up in the process in the part III.B. These follow-up in the process in the part III.B. These follow-up in the process in the part III.B. These follow-up in the process in the part III.B. These follow-up in the process in
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)

Strategy	Qualified EHS staff (as described in BMP 4.02) will inspect permitted construction sites at the following frequency:	Date of Last Update	(date of last SWMP update)
	(a) At least 2 (two) times a year;		
	(b) Upon report of a concern;		
	(c) When needed to verify correction of deficiencies identified during a previous inspection.		
	Inspections will be conducted in accordance with written procedures.		
	Inspection reports will be documented and transmitted to the General Contractor and UNL Project Manager. Contractors will be required to submit a written response describing actions taken to correct deficiencies identified during the audit process. As necessary, EHS will implement UNL's Enforcement Response Plan to correct identified deficiencies.		
Measurable Goals	All Years: EHS staff will adhere to the described frequencies of inspection and existing written procedures for conducting construction site inspections, including record keeping, follow-up, and enforcement actions.		
Report	<ol> <li>Percentage of permitted sites that EHS inspected at the targeted frequency.</li> <li>Summary of substantial changes made to the written construction site inspection procedures during the prior year.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	NA		
Reference	BMP 4.04 Staff Training (Part IV.B.3.e)		

	e. The permittee must ensure that the staff whose primary job duties are related to implementing the construction storm water program, including permitting, plan review, construction site inspections, and enforcement, are trained to conduct these activities. Training must be made available, sponsored, or required in a strategy established in the SWMP for erosion and sediment control/storm water inspectors, plan reviewers, and third-party inspectors and plan reviewers.			
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)	
Strategy	At a minimum, assigned staff will have a bachelor's degree, one year related experience, and have successfully completed a NDOR Erosion and Sediment Control Inspector course or equivalent. In addition, assigned staff will review UNL's SWMP and review and adhere to associated written procedures.	Date of Last Update	(date of last SWMP update)	
Measurable Goals	All Years  EHS will maintain training records for all persons authorized to implement BMP 4.02 or 4.03.			
Report	Names of staff persons assigned responsibilities under BMP 4.02 and 4.03 and a summary of their qualifications.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>	
Evaluation: Environmental Indicators of Effectiveness	N/A			
Reference	BMP 4.05 Construction Site Operator Education  (Part IV.B.3.f.1)			
	<ol> <li>The permittee must make publically available educational materials to construction site operators in a strategy outlined in the SWMP.</li> <li>(a) The permittee must either provide information on existing training opportunities or develop new training for construction operators on control measure selection, installation, implementation, and maintenance as well as overall program compliance.</li> <li>(b) The permittee must develop or utilize existing outreach tools (i.e., brochures, posters, website, plan notes, manuals etc.) aimed at educating construction operators on installation, implementation and maintenance of storm water</li> </ol>			

	controls, as well as overall program compliance.  (c) The permittee must make available appropriate outreach materials to all construction operators who will be disturbing land within the MS4 boundary.  (d) The permittee must provide information on the installation and maintenance of controls on the permittee's website or made publically accessible by whichever methods and procedures are determined appropriate by the permittee and approved by the NDEQ.			
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)	
Strategy	<ol> <li>EHS will continue to participate in preconstruction meetings with General Contractors to discuss their obligations under NDEQ's NPDES Construction General Permit and UNL's SMS4 NPDES permit. EHS will provide instruction on where to access educational and informational materials.</li> <li>EHS will make available existing stormwater manuals, brochures and other education materials aimed at education and outreach of construction best management practices on the EHS website and inform contractors of how to access information using various means, such as e-Builder communications, Contract Specifications, and verbal instruction. At present, this includes links to federal, state, and local agencies, as well as professional organizations. Information links include general awareness.</li> <li>As part of the audits discussed in BMP 4.03 (construction site inspections), EHS will reference appropriate educational materials to assist contractors to correct identified deficiencies.</li> </ol>	Date of Last Update	(date of last SWMP update)	
Measurable Goals	All Years of the Permit:			
	Annually, EHS will review/ enhance the materials made available for the			

	purpose of General Contractor education and outreach.  2. EHS will participate in a preconstruction meeting with every General Contractor for newly permitted sites.		
Report	<ol> <li>Summary of changes made to educational and outreach materials related to construction best management practices.</li> <li>Percentage of newly permitted sites where EHS held a pre-construction meeting with the General Contractor.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	BMP 4.06 Public Involvement  (Part IV.B.3.f.2)  Public Involvement – The permittee must has submitting information by the public regard provide the permittee's response if a response	ing constru	ction projects and must also
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ul> <li>4. EHS will continue to maintain the public reporting mechanism, Stormwater Reporter, on the EHS web page and promote reporting of potential complaints by the campus community as part of the public education and outreach initiatives described in MCM 1 and 2.</li> <li>5. EHS will track, investigate and follow up on all public complaints regarding construction projects, in accordance with UNL's written construction site</li> </ul>	Date of Last Update	(date of last SWMP update)
	inspection procedures discussed in BMP 4.03.		

Measurable Goals	All Years:		
	1. EHS will maintain our existing procedure for reporting suspected illicit discharges including specific concerns related to construction projects ( <a href="http://ehs.unl.edu/sop/s-stormwater IDDE.pdf">http://ehs.unl.edu/sop/s-stormwater IDDE.pdf</a> ). This procedure is publically available on the EHS website.		
	2. EHS will respond to 100% of concerns reported by the public and retain documentation of the nature of the complaint and EHS follow-up actions (which will be summarized in the annual report).		
	3. EHS will maintain our on-line public reporting mechanism ( <i>Stormwater Reporter</i> ) on the EHS web page.		
Report	Summary of each complaint received and actions taken to resolve each complaint.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report any water quality sampling done in r	esponse to	public reporting.

### MCM 5: Post Construction Stormwater Program

#### **Water Quality and Quantity Standards**

The University of Nebraska-Lincoln has adopted post construction water quality and quantity standards. These standards are found in the UNL Design Guidelines (http://facilities.unl.edu/design-guidelines). The UNL Design Guidelines identify the standards and preferences of the University of Nebraska-Lincoln (UNL) Facilities Planning and Construction (FPC) and is applied to all remodels and new construction. The UNL Design Guidelines also address post-construction stormwater structural control design criteria by referencing the City of Lincoln Drainage Criteria Manual. UNL's stormwater quality standard seeks to retain the first half-inch of precipitation. UNL's stormwater quantity goal seeks to protect pre-development hydrology to the maximum extent practicable.

#### **Authority and Enforcement**

The primary mechanisms for requiring compliance with UNL's water quality, water quantity, and structural controls design criteria is through UNL's General Construction Contract and site-specific supporting construction specifications and documents. Through these mechanisms, all designs must be reviewed and written approval provided by UNL during the design phase of the project. Any proposed deviations from approved designs must be submitted to UNL in writing by the Contractor and authorized and accepted by UNL. Hence, any deviation from the original design is documented in the construction documents.

The contractor's conformance to design criteria is assessed periodically throughout the construction process by the Architect and UNL (Owner). Final acceptance of the contractor's work is contingent upon issuance of a certificate of substantial completion, which is only issued when the work conforms to the contract documents (including design and installation). Further, UNL requires contractors to provide a one-year post-construction warranty period during which time the contractor is obligated to remedy deficiencies that were undetected at the time of issuance of the certificate of substantial completion. UNL retains the right to withhold payment for defective work, or work that does not conform to specified designs.

#### Tracking, Inspection, and Long-Term Maintenance

Tracking, inspection, and long-term maintenance of post-construction structural BMPs involves collaboration of several UNL departments, primarily EHS, Landscape Services, and Utilities. One particularly useful tool that is shared by these groups is the UNL GIS system that tracks and maps University assets, such as buildings, chilled water lines, sanitary and storm sewer lines, floor plan details, emergency generator locations, and many other attributes and details. Currently, this system is used for mapping of storm sewer lines and outfalls. It is capable of accepting data on post-construction structural BMPs. Maintenance and inspection plans for specific BMPs can be associated and loaded into the system. Most University service units utilize a work order system to track and document preventative maintenance on specific assets. These systems are capable of supporting stormwater BMPs. EHS conducts an audit function of service units that have responsibility for maintaining BMPs to ensure that regular inspection and preventative maintenance of BMPs occurs.

Requirement: MCM 5 Post Construction Management Program					
Reference	BMP 5.01 Site Performance Standards				
	(Part IV.B.4.b)				
	1) Within the permit term, new permittees must adopt local post construction storm water standards for designing, installing, implementing, and maintaining storm water control measures which include BMPs that infiltrate, evapotranspire, harvest, and/or use storm water discharges. Existing permittees must review their current ordinances to ensure compliance with the permit in one year.				
	2) Within the permit term, new permittees must adopt local storm water discharge design standards that consider parameters such as site discharge volume, rate, duration, and frequency for new development and redevelopment sites. The local storm water discharge design standards must describe the site design strategies, control measures, and other practices deemed necessary by the permittee to protect pre-development hydrology to the maximum extent practicable. Existing permittees must review their current ordinances to ensure compliance with the permit in one year.				
Responsible	EHS: Environmental Specialist  Date of Last Review  (date the strategy/SOP reviewed)				
Strategy	EHS will identify and assemble a group of primary stakeholders (e.g., Facilities Planning and Construction, Environmental Health and Safety, Landscape Services, Utilities, Campus Planning, etc.) to review the current water quality and water quantity standards contained in the UNL Design Guidelines.	Date of Last Update	(date of last SWMP update)		
Measurable Goals:	Year One: UNL will review existing performance standards to determine if changes are appropriate or necessary.				
	Ongoing All Years: Maintain site performance standards				
Report	Report any changes to performance standards made during the preceding year.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>		
Evaluation: Environmental Indicators of Effectiveness	NA				

Reference	BMP 5.02 Post-Construction Site Plan Review  (Part IV.B.4.c.1.a)  1. To ensure that all applicable new development and redeveloped sites conform to the performance standards required in Part IV.B.4.b the permittee must conduct project review, approval, and enforcement procedures that include:  (a) Procedures for the site plan review and approval process(es) and modification when changes to an approved plan are desired.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ol> <li>EHS and FPC will continue to collaboratively review all designs for projects that are subject to UNL's storm water standards, including the stormwater calculations submitted by the Architect at the design phase.</li> <li>Reviews will be documented in UNL's current construction tracking/recordkeeping system(s), as described in EHS's Internal Operating Procedure, BMP 5.02 Post-Construction Plan Review and Approval.</li> </ol>	Date of Last Update	(date of last SWMP update)
Measurable Goals	Ongoing All Years: Conduct and document the site plan reviews for all (100%) of applicable construction projects.		
Report	All Years:  1. Percentage of applicable construction projects initiated in the prior year that were reviewed and approved.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	none		
Reference	BMP 5.03 As-Builts (Part IV.B.4.c.1.b)		

	(b) A requirement for submittal of "as-built" certifications in a schedule defined in the SWMP and approved by the NDEQ.		
Responsible	FPC: Project Manager EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	UNL Project Managers will ensure that As-Builts are submitted by the Architect, in accordance with existing contract provisions and as soon as feasible after substantial completion but no later than the end of the Contractor one-year warranty period. EHS will monitor construction documents to ensure that "As Builts" are on-file, and communicate deficiencies to the Project Manager as needed.	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years of Permit: 100% of applicable development sites will have relevant construction documents related to post-construction structural BMPs on file, including deviations from or modifications to approved designs.		
Report	All Years of Permit: Report percentage of applicable projects completed within the prior year for which complete as-built information is on file.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	none		
Reference	BMP 5.04 Installation Inspections		
	Part IV.B.4.d.1:  1) Procedures must be established to assure all structural storm water control measures installed and implemented meet the approved plans and are maintained in perpetuity.		
Responsible	FPC: Project Managers EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)

Strategy	Inspection of installation/implementation of storm water controls	Date of Last Update	(date of last SWMP update)
	A/E Inspection: Existing UNL A/E Agreement provisions require periodic and final inspection by the Architect to ensure that all work conforms to Construction Documents. Issuance of a final certificate of completion is also contingent upon the Architects determination that the work complies with approved design parameters.		
	2. Maintained in perpetuity		
	UNL Design Guidelines state: "Selected BMPs shall be specified in final design documents, and final construction documents shall contain schedules and procedures for inspection and maintenance of the BMPs." This schedule of maintenance activities will be uploaded into the appropriate department's (e.g., Landscape Services, Utility Services) work order system so that assets are maintained into perpetuity. Maintenance inspections are carried out through BMP 6.09		
Measurable Goals	All Years: 100% of all newly-constructed structural post-construction BMPs at sites subject to post-construction design criteria will be inspected by the A/E.		
Report	All Years:  Percent of construction sites with new post-construction structural BMPs completed in the prior year that were inspected by the A/E and verified as meeting design criteria.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	None		

Reference	BMP 5.05 Public Reporting  (Part IV.B.4.d.2)  2) The permittee must establish procedures to respond to complaints and notifications to ensure the long-term maintenance of structural controls.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	EHS will track, investigate and follow up on all public complaints regarding post-construction BMP maintenance. Public reporting is encouraged through the mechanisms described in MCM 1 & 2.	Date of Last Update	(date of last SWMP update)
Measurable Goals	1. EHS will continue to maintain the public reporting mechanism, Stormwater Reporter, on the EHS web page.  2. EHS will maintain our procedure for reporting suspected maintenance issues <a href="http://ehs.unl.edu/sop/s-stormwater IDDE.pdf">http://ehs.unl.edu/sop/s-stormwater IDDE.pdf</a> ). This procedure is publically available on the EHS website.  3. EHS will respond to all public complaints and summarize the nature of each complaint and EHS follow-up actions in the annual report.		
Report	<ol> <li>All Years:         <ol> <li>Number and summary of complaints received and follow-up actions.</li> </ol> </li> <li>Summary of any changes to related procedures resulting from a complaint.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report any water quality sampling done in re	esponse to public re	porting.
Reference	BMP 5.06 Tracking Post-Construction Stor (Part IV.B.4.e)	m Water Control	Measures

	<ol> <li>The permittee must maintain a current inventory of certified post-construction structural storm water control measures installed and implemented at new development and redeveloped sites, including both public and private sector sites located within the permit area.</li> <li>A survey or number of new post-construction BMPs sorted by type (bioretention, catch basins, etc.) must be included in the annual report.</li> <li>Based on inspections conducted under Part IV.B.4.f, the permittee must update the inventory as appropriate where changes occur in property ownership or the specific control measures implemented at the site. This inventory must be maintained and available for review by the permitting authority.</li> </ol>		
Responsible	EHS: Environmental Specialist Utilities: GIS Project Manager	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	New post-construction storm water controls at sites subject to UNL's Design Guidelines storm water standards will be inventoried and tracked using the campus GIS system, including details on the type of BMP.	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years: 100% of all post-construction structural BMPs subject to UNL Design Guidelines installed after the effective date of UNL's coverage under the SMS4 General NPDES permit are inventoried in UNL's GIS system, including details of type.		
Report	<ol> <li>All Years:         <ol> <li>Percentage of new development and redevelopment sites completed during the previous year for which permanent structural BMPs are inventoried in UNL's GIS system.</li> </ol> </li> <li>Number of post-construction permanent BMPs at new development and redevelopment sites completed during the previous year, sorted by type.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	None		

Reference	<ul> <li>BMP 5.07 Post-Construction Storm Water Inspection and Enforcement</li> <li>(Part IV.B.4.f.)</li> <li>1) The permittee must conduct post-construction inspections for completed project sites covered under Part IV.B.4 to verify that performance standards have been met in a strategy defined in the SWMP. A description of inspection and reporting procedures be developed and kept of file for review.</li> <li>2) The permittee must document and maintain records of inspection findings and any enforcement actions taken and make them available for review by the permitting authority.</li> </ul>		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy  Measurable Goals	<ul> <li>UNL Inspection: UNL will augment the A/E inspection in BMP 5.04 with an inspection by relevant and appropriate UNL personnel (e.g., Utilities, Landscape Architect, EHS etc.) at or near the time of substantial completion of the project to verify post-construction BMPs have been constructed as designed. This inspection will be conducted in accordance with EHS Internal Operating Procedures, BMP 5.07 Post-Construction Inspection and Enforcement.</li> <li>Enforcement: Any control that does not conform to design requirements will be added to the final punch list of work that must be corrected by the contractor. As needed, UNL will implement its Enforcement Response Plan to achieve design performance standards.</li> <li>All Years: 100% of all newly-constructed</li> </ul>	Date of Last Update	(date of last SWMP update)
	structural post-construction BMPs at sites subject to post-construction design criteria will be inspected by UNL staff, and action taken to remedy deficiencies.		
Report	All Years:  Percent of construction sites with new post-construction structural BMPs completed in the prior year that were	Activity Satisfied	o Yes o No

	inspected by UNL and the percentage found to conform to design standards.
Evaluation: Environmental Indicators of Effectiveness	None

## MCM 6: Pollution Prevention and Good Housekeeping

The University of Nebraska Lincoln (UNL) City and East Campuses comprise approximately 617 acres of land (342 on East Campus and 275 on City Campus), upon which 200+ building have been erected to support the nearly 26,000 students, 1700 faculty, and 4500 staff. Building and grounds usage includes parking lots and garages, greenhouses, recreation fields, residential housing, offices, research and teaching laboratories, classrooms, libraries, healthcare, animal housing (indoor and outdoor), equipment storage, vehicle fleet maintenance, steam generation plants, landscaping operations, streets, sidewalks, and green spaces. These campus assets are inventoried in an extensive GIS mapping system that includes all University buildings, grounds, streets, parking lots, recreation areas, and detailed information on infrastructure (e.g., roads, chilled water lines, domestic water lines, sanitary sewer systems, steam lines, gas lines, etc.). The storm sewer mapping feature includes pipes (size and material of construction), inlets, manholes, open channels, box culverts, and outfalls. The GIS system continues to evolve over time to include additional detail, such as chemical storage and use areas, landscaping details, and environmental considerations (e.g., SPCC plans, air permitting details, environmental deed restrictions, long-term monitoring plans, etc.).

The UNL facilities listed below are identified as having a higher potential to generate storm water pollutants. The rationale for listing each of the facilities as "higher priority" facilities is provided.

- City Campus Transportation Services (vehicle maintenance and/or fueling operation; car wash)
- City and East Campus Utility Plants (steam generation, bulk chemical storage)
- City and East Campus Landscape Services, including the facilities located on Military Road (deicing material storage, equipment maintenance and storage, trash vehicle/receptacle storage, trash compacting, pesticide/herbicide storage, landscaping material storage, fueling operations)
- East Campus 90-day Hazardous Waste Storage Facility (loading and unloading of 55-gallon drums or smaller containers and a storm drain inlet is located in the immediate vicinity of the loading dock; surface is gravel)
- Outdoor (Animal Sciences complex on East Campus and Ray Bohy Arena) animal holding areas (potential source of pollutants in animal excreta, particularly *Escherichia coli* and ammonia).
- Certain emergency generator locations (those located such that a release is likely to reach a storm drain inlet during re-fueling operations, considering size of the tank, distance to the storm inlet, surface characteristics (concrete, grass, etc.), and topography of the surrounding area).

Certain of the storm water controls for Landscape Services extend to the entire campus, based on the responsibilities of this department, and include street maintenance, litter removal including football game day trash pick-up, and turf and planting bed maintenance. Likewise, certain of the storm water controls for the Utility Plant extend to the entire campus, based on the responsibilities of the department, and include storm inlet and sewer maintenance. Good housekeeping practices and certain specific stormwater pollution prevention controls have been established for each of these facilities. These existing practices and controls form the basis for UNL's written Facility Runoff Control Plan (RCP) and affected staff in each of these units/departments will be trained on the RCP.

EHS inspects each of these high priority faculties at least annually to ensure conformance to established storm water controls and general good housekeeping measures. The objective of the inspection is to ensure that

practices are consistent with minimizing potential adverse storm water impacts to the maximum extent practicable.

EHS also publishes a number of SOPs and training materials that apply to these high priority facilities as well as the broader campus community, and have relevance to storm water protection. Adherence to these procedures is regularly evaluated through campus inspections by EHS. Examples of written and training materials produced by EHS follows:

- UNL's Injury and Illness Prevention (IIPP) training contains storm water awareness information and general housekeeping to prevent adverse impacts (e.g., pick up after pets, use trash receptacles, maintain vehicles to prevent leaks, report suspected illicit discharges, etc.).
- The EHS Virtual Manual tool creates a general safety manual for any campus user. This manual
  contains narrative on potential storm water pollutants and encourages reporting of suspected illicit
  discharges.
- A number of EHS SOPs target proper management of regulated wastes. EHS also publishes information on proper responses to spills/leaks of chemicals or fuels/oils.

The BMPs identified in this MCM are intended to complement and enhance UNL's existing pollution prevention and good housekeeping program.

Requirement: MCM 6	5 Pollution Prevention and Good House	keeping	
Reference	BMP 6.01 Mapping and Inventory  (Part IV.B.5.a)  a. Municipal Facility and Control Inventory  1) The permittee must develop and maintain an inventory of municipally-owned or operated facilities and storm water controls that is available for review by the permitting authority.  2) The permittee must identify on a map where the municipally-owned or operated facilities are located within the MS4. The map must be maintained and updated		
Responsible	regularly and be available for review by the Utility Services: GIS Project Manager	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	UNL's GIS Project Manager is informed of construction projects on the UNL campus and ensures that campus GIS maps are updated to reflect changes.	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years: Update maps as needed in response to campus changes.		
Report	The GIS map will be available for review by the permitting authority upon request. No reporting.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	<ul> <li>BMP 6.02 Municipally-Owned or Operated Facility Assessment</li> <li>(Part IV.B.5.b)</li> <li>1) The permittee must maintain current assessments of all municipally-owned or operated facilities identified in Part IV.B.5.a. The strategy and description of the assessment procedure must be included in the annual report.</li> <li>2) The permittee must identify "high-priority" facilities that have a high potential to generate storm water pollutants. High priority facilities are facilities which have the high potential to generate storm water pollutants. A description of the evaluation criteria for determining "high-priority" must be included in the annual report.</li> </ul>		

	3) The permittee must document the results of the assessments and maintain copies of all site evaluation documents used to conduct the assessment.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	UNL's criteria for designating a facility as "high priority" is summarized in the narrative of this MCM, and documented in UNL's Runoff Control Plan. Final designation as "high priority" is based on known activities and final visual inspection of the site by EHS.	Date of Last Update	(date of last SWMP update)
Measurable Goals	Ongoing all years: UNL will conduct and document assessments as new facilities are built or established.		
Report	<ol> <li>Changes to EHS's assessment strategy to identify "high priority" facilities made during the reporting period will be included in the annual report.</li> <li>A list of newly identified "high priority" facilities made during the reporting period will be included in the annual report.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	(Part IV.B.5.c)  1) The permittee must develop and maintain "high priority" facilities to control the contri (a) For each "high priority" facility or oper permittee must develop or maintain a si control measures, inspection strategy, a (b) A copy of the facility-specific Runoff available for review by the permitting au each of the municipally owned or operations.	bution of pollueration identificate-specific RCP and visual monitude of the RCP control Plan muthority. The RCP ted facilities' of	tion in storm water runoff. ed in <b>Part IV.B.5.b</b> , the that identifies storm water toring procedures. ust be maintained and be CP must be kept on-site at

	2) All "high priority" municipally-owned or operated facility Runoff Control Plans must include provisions for general good housekeeping practices, storage of de-icing materials, fueling operations, vehicle maintenance, and equipment and vehicle washing.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	UNL has developed a written Runoff Control Plan that covers all high priority facilities at UNL. A copy of this plan will be on file at each location.	Date of Last Update	(date of last SWMP update)
Measurable Goals	Year One: EHS will ensure that a copy of UNL's RCP is on file at each high priority facility.  All Subsequent Years: EHS will review the RCP for needed changes and place a copy of the plan at newly identified high priority facilities as they are built or established.		
Report	Year One: Percentage of high priority facilities that have a RCP on file at their location.  All Subsequent Years: Summary of newly built or established high priority facilities during the previous year and changes made to the RCP related to newly identified facilities.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	BMP 6.04 Inlet Maintenance  (Part IV.B.5.d.1.a&e)  1) MS4 storm water inlets and catch basin (a)The permittee must develop a strateg as needed in the SWMP. The results of the included in the annual report.  (e) The permittee must develop a procede extracted from catch basins so that we cleaning process and waste materials.	gy to inspect and the implementa dure to dewate vater removed	r and dispose of materials during the catch basin

Responsible	Utilities Services: Utility Plant Manager EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	Utilities Services and/or EHS staff will inspect and clean UNL owned inlets and catch basins under the following strategy:	Date of Last Update	(date of last SWMP update)
	Catch basins will be inspected annually and cleaned as needed.		
	2. Inlets within 100' down gradient from construction sites 1 acre or greater in size will be inspected and cleaned as necessary prior to filing of a NOT for the site and following substantial stabilization of the site.		
	3. Inlets specifically associated with an illicit discharge during the previous year will be inspected the subsequent year to verify that the condition leading to the illicit discharge no longer exists.		
	4. Inlets that have required maintenance during the previous year for clogging or other discharge malfunction will be inspected during the subsequent year to verify that the conditions leading to the malfunction no longer exist.		
	In collaboration with UNL's Utilities Department, EHS will establish a written procedure for inspection and cleaning of inlets and basins and inspectors will be trained to the SOP. The SOP will include evaluation of physical condition; indicators of pollutants (trash, debris, sanitary sewage, oil sheen, discoloration, etc); and management of recovered debris/material.		
Measurable Goals	Year one: Establish an inventory of all inlets and basins requiring inspection. Establish the inlet inspection and maintenance procedure and train applicable staff. Verify that inspection and maintenance activities are captured in the		

	appropriate Department's work order system, or otherwise documented.  All Years of Permit: Update the inventory of inlets and basis requiring inspection as needed; document inspection of each.		
Report	<ol> <li>All Years of Permit:         <ol> <li>Percentage of inlets/basins scheduled for inspection with completed inspections.</li> </ol> </li> <li>Number of basins/inlets inspected where corrective action was needed and a summary of actions taken.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report any analytical testing done in respon	se to inlet clea	n-outs
Reference	BMP 6.05 Inlet Awareness Labels  (Part IV.B.5.d.1.b)  b. The permittee must have a plan to label inlets with a legible storm water awareness message.		
Responsible	EHS: Environmental Specialist Utilities: Utility Plant Manager	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	<ul> <li>EHS will meet with the campus stakeholder group (described in MCM 3 &amp; 5) to evaluate/determine:</li> <li>a) Current design guidelines regarding inlet labels and address any changes deemed necessary to be applied to future projects.</li> <li>b) Criteria for identifying existing, unlabeled, high-priority inlets and identifying funding sources and timelines for retrofitting these with inlet awareness labels/messages.</li> </ul>	Date of Last Update	(date of last SWMP update)
Measurable Goals	Year One:		

	<ul> <li>a) Establish acceptable means and methods for future inlet labeling and update UNL's Design Guidelines accordingly.</li> <li>b) Establish criteria for designating existing "high risk" inlets. Inventory existing "high risk" inlets and establish a funding source and schedule for labeling.</li> <li>All Subsequent Years: Label drains as applicable by Design Guidelines or high priority inlet schedule.</li> </ul>		
Report	Year One: Provide a summary of inlet labeling design guidelines, and criteria used to identify existing high-priority inlets.  Subsequent Years: Provide a summary of changes made to the design guidelines, and status of progress in labeling of existing high-priority inlets.	Activity Satisfied	o Yes o No
Evaluation: Environmental Indicators of Effectiveness			
Reference	BMP 6.06 Open Drainage Maintenance  (Part IV.B.5.d.1.c-d)  (c) The permittee must visually monitor permittee-owned open channels and other drainage structures for debris and evidence of ongoing dumping in a strategy defined in the SWMP.  (d) The permittee shall include a plan for the removal of trash and debris from open channels and other drainage structures. The plan shall be detailed in the SWMP and approved by the NDEQ. The permittee must document drainage structure maintenance activity in a log that is to be made available for review by the permitting authority upon request.		
Responsible	Landscape Services: Assistant Director, Landscape Operations EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)

Strategy	Landscape Services will visually monitor all safely accessible UNL owned open channels annually for debris and structural integrity.  All waste material will be containerized and disposed of as refuse at a permitted municipal waste landfill, unless meeting criteria of regulated waste, then disposed via EHS in accordance with local, state, and federal rules and regulations as applicable.  Any structural maintenance activity will be logged or forwarded to the appropriate agency, if not within the responsibility/authority of UNL.  All inspection records will be maintained.	Date of Last Update	(date of last SWMP update)
Measurable Goals	All Years: Inspect open drainage channels annually, and maintain a log of associated maintenance activity.		
Report	All Years: Percentage of scheduled vs. completed inspections.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	Report any analytical results taken		
Reference	<ul> <li>(Part IV.B.5.d.2)</li> <li>(a) The permittee must implement a set of pollution prevention measures that, when applied during municipal O&amp;M activities, will reduce the discharge of pollutants in storm water.</li> <li>(b) All pollution prevention measures implemented at municipal facilities must be visually inspected in a strategy defined in the SWMP to ensure they are working properly; a log of inspections must be maintained and made available for review by the permitting authority upon request.</li> </ul>		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)

Strategy	Groups of employees that work within O&M at UNL such as plumbers, painters, certified pesticide applicators, etc., not previously identified under a Runoff Control Plan, that could potentially impact stormwater during the course of their work activities will follow pollution prevention measures to prevent negative impacts to stormwater. These pollution prevention measures are detailed in UNL's RCP and the employees subject to this BMP will receive training on UNL's RCP. EHS will inspect each group annually to ensure that they are adhering to pollution prevention measures and maintain associated documentation.	Date of Last Update	(date of last SWMP update)
Measurable Goals	Year One:  EHS will identify and train groups of affected employees.  All Subsequent Years:  1. EHS will inspect affected O&M groups annually  2. EHS will review UNL's RCP annually, and update as needed.  3. EHS will distribute refresher training materials annually to affected employees, and refresher training will include any changes made to UNL's RCP.		
Report	<ol> <li>List of inspected groups, and groups of employees receiving training.</li> <li>Significant changes to UNL's RCP.</li> </ol>	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	N/A		
Reference	BMP 6.08 Street Sweeping (Part IV.5.d.3)		47

	<ul><li>(a) The permittee must sweep municipally-owned and maintained streets, roads, and public parking lots in accordance with a strategy defined in the SWMP.</li><li>(b) The permittee must provide a procedure to dewater and dispose of street sweeper waste material. This procedure must ensure that water and material will not reenter the MS4.</li></ul>		
Responsible	Landscape Services: Assistant Director of Landscape Operations Parking Services: Director	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	Landscape Services will sweep UNL owned streets and surface parking lots annually in the spring. UNL street sweepers do not utilize liquid in the operation. Streets and surface lots are visually monitored throughout the rest of the year and cleaned as needed.	Date of Last Update	(date of last SWMP update)
	All waste material from street sweepers are collected at a designated area at City and East Campus Landscape Services where it is not able to reenter the MS4 system and then properly disposed at a permitted municipal waste landfill.		
	Parking Services cleans all parking garages annually in the summer, with steamer equipment that recovers all liquid. Recovered liquid is disposed in the sanitary sewer. Filtered sediment is collected and accumulated in a manner not exposed to precipitation and disposed of at a permitted municipal waste landfill.		
Measurable Goals	All Years: Clean streets and parking lots at frequency defined.		
Report	Summarize any changes to schedule or means of disposal.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness	None		

Reference	BMP 6.09 Maintenance of Municipally-Owned and/or Maintained Structural Storm Water Controls  (Part IV.5.d.4)  (a) The permittee must inspect and maintain if necessary municipally-owned or maintained structural storm water controls in accordance with a frequency provided in the SWMP.			
	(b) The permittee must also maintain municipally-owned or maintained green infrastructure practices through regularly scheduled maintenance activities.			
Responsible	Utilities Service: Utility Plant Manager	Date of Last (date the strategy/SO		
	Landscape Services: Assistant Director of Landscape Operations	Review	reviewed)	
	EHS: Environmental Specialist			
Strategy	(a) Utility Services will inspect and perform maintenance, if necessary, on all underground stormwater structural controls at least annually or at a frequency recommended by the manufacturer for proprietary systems.	Date of Last Update	(date of last SWMP update)	
	(b) Landscape Services will inspect all above ground green infrastructure and structural storm water controls at least annually.			
Measurable Goals	All Years: All structural and green infrastructure controls will be inspected and maintained at the required frequency.			
Report	Percentage of Preventative Maintenance	Activity	o Yes	
	inspections conducted on stormwater controls.	Satisfied	o No	
Evaluation: Environmental Indicators of Effectiveness				
Reference	BMP 6.10 Training and Education			
	(Part IV.5.e)			
	The permittee must develop and implement employees involved in implementing polluti		<u> </u>	

	practices in this part. The permittee must also identify and track all personnel requiring training and records must be maintained. The training program and target audience must be described in the SWMP.		
Responsible	EHS: Environmental Specialist	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	EHS will implement its RCP training programs and include affected employees of "high risk" facilities, as well as O&M employees described in BMP 6.07.	Date of Last Update	(date of last SWMP update)
	In collaboration with management of these departments/facilities, EHS will specifically identify affected employees and update the roster of affected employees annually.		
	Affected employees will receive full RCP training once, and will be provided with refresher training materials annually.		
	EHS will maintain training records for individual employees and records of the materials used for initial and refresher training.		
Measurable Goals	Year One: EHS will identify and deliver training to affected employees.		
	All Subsequent Years:		
	EHS will update the roster of affected employees at least annually, and deliver full RCP training to newly identified affected employees.		
	Refresher training materials will be provided to previously trained employees at least annually.		
	3. EHS will review training materials at least annually and update as needed.		
	4. EHS will maintain records indicating the names of employees receiving training, a summary of the content of the training, date of training, and name of the person conducting the training or other method of delivery.		

Report	Year One: Status of completion of training materials.  All Subsequent Years: Number of employees, by department, completing training during the reporting period.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>
Evaluation: Environmental Indicators of Effectiveness			
Reference	BMP 6.11 Contractor Requirements and (Part IV.5.f)  Any contractors hired by the permittee to perthat have the potential to impact storm wat and overseen by the permittee to ensure control measures, good housekeeping pract Plans described above. The contract must a management and implementation of your program and, if different, who is responsible program.	erform municip er quality must mpliance with ices, and facilit Iso state who is ollution preven	be contractually required all of the storm water y-specific Runoff Control s responsible for overall ation/good housekeeping
Responsible	Leadership of the UNL department issuing the contract or PO for work by the contactor	Date of Last Review	(date the strategy/SOP reviewed)
Strategy	UNL includes language in contracts for municipal maintenance activities obligating contractors to comply with storm water control measures, good housekeeping practices, and runoff control plans. UNL employees are instructed to notify EHS of any condition that is or could result in an illicit discharge.	Date of Last Update	(date of last SWMP update)
Measurable Goals	No illicit discharges will occur related to municipal maintenance activities conducted by outside contractors.		
Report	Summary of nature of all illicit discharges attributed to municipal maintenance activities conducted by outside contractors during the reporting period.	Activity Satisfied	<ul><li>Yes</li><li>No</li></ul>

Evaluation:	None
Environmental	
Indicators of	
Effectiveness	