

Stormwater Management Plan for Northwest Arkansas MS4s



University
Of
Arkansas
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STORMWATER MANAGEMENT PROGRAM (SWMP)

Permit Number ARR040028

January 04 – January 09

One of the functions of the Environmental Health and Safety Division, and Construction Design Division is to provide inspections and enforcement to citizens, businesses, and government agencies so they can comply with the Clean Water Act and enjoy a safe and clean environment.

1. Storm Water Management Program (SWMP)

Responsibilities

Each permittee shall contribute to the development and updates of a comprehensive SWMP including pollution prevention measures, treatment of removal techniques, use of legal authority, and other appropriate means to control the quality of storm water discharge from the Municipal Separate Storm Sewer Systems (MS4). Controls and activities in the SWMP shall identify areas of permittee responsibility on a jurisdiction, applicability, or specific area basis. The SWMP shall include controls necessary to effectively prohibit the discharge of non-storm water into the MS4 and reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP). The SWMP shall identify the roles and responsibilities of each permittee.

Term of SWMP

The SWMP shall cover the term of the permit and shall be updated as necessary, or as required by the City Engineer, to ensure compliance with the statutory requirement of Section 402(p)(3)(B) of the Clean Water Act.

Implementation

Implementation of the revised and updated SWMP may be achieved through participation with other permittees, public agencies or private entities in corporative efforts to satisfy the requirement of Part II of the permit.

Total Maximum Daily Load (TMDL)

The University of Arkansas does not have any water bodies with an associated TMDL.

Legal Authority

Each permittee shall ensure legal authority to control discharges to and from those portions of the MS4 over which it has jurisdiction. This legal authority may be a combination of statute, ordinance, permit, contract, order or inter-jurisdictional agreements with permittees with existing legal authority to control contribution of pollutants into the MS4:

- To prohibit discharges into the MS4;
- Control the discharge of spills, dumping or disposal of materials other than storm water into the MS4;
- Compliance with ordinances, permits and orders;
- To carry out inspections, surveillance, enforcement and monitoring procedures necessary to determine compliance with permit conditions.

SWMP Resources

Each permittee shall provide adequate finances, staff, equipment, and support capabilities to implement their activities under the SWMP.

SWMP Review and Update

Each permittee shall participate in an annual review of the current SWMP in conjunction with preparation of the annual report required under Part V.D. The SWMP may change during the life of the permit in accordance with Part II G and Part III of the permit.

Retention of SWMP Records

The permittee(s) shall retain the SWMP development in accordance with Parts II and III for at least three (3) years after coverage under this permit terminates.

Discharge Goals

The following goals are established for discharges from the Northwest Arkansas MS4:

- No discharge of toxics in toxic amounts
- No discharge of pollutants in quantities that would cause a violation of Arkansas Water Quality Standards
- No discharge of floatable debris, oils, scum, foam, or grease in other than trace amounts
- No discharge of non-storm water from the MS4 (except as provided in Permit)
- No discharge of sediment from construction activities into the MS4

2. New and Re-development Program

All construction plans that are submitted for University of Arkansas approval will be reviewed for compliance with the University of Arkansas Stormwater Plan, and Mandates. Plans reviewed will be required to have Best Management Practices (BMP's) that will help eliminate sediment erosion in storm water runoff. The site plan will indicate where BMP's will be installed and a detail sheet indicates the correct way to install each practice. A Storm Water Pollution Prevention Plan (SWPPP) is reviewed and a Notice of Intent (NOI) is required from the Arkansas Department of Environmental Quality (ADEQ) if the disturbed area is 5 acres or greater before construction is authorized. No land disturbing will be authorized without a pre-construction conference.

As project is completed, permittees will request a Final Site Inspection from the University of Arkansas. The Construction Coordinator will inspect the permitted site to ensure that vegetation is established or that seeding of the disturbed are is complete and BMP's are still in place until vegetation is established. If the permittee filed an NOI with the ADEQ, the permittee will fill out a Notice of Termination (NOT). The following conditions must be met before a NOT can be filled:

- The site has been stabilized with a vegetative density of at least 70% ground cover,
- All storm water discharges from construction activities have been eliminated,
- A transfer of owner/operations; operator is no longer in charge of the site and a transfer of coverage to a different operator has been received.

If the drainage ways do not have vegetation established at the time of inspection, or the seeding and erosion control has not occurred, the site will not pass inspection. Therefore the Certificate of Occupancy will not be issued. The filling of the N.O.T. is the responsibility permittee.

Annual reviews and updates will be made to University Mandates, and the SWMP to include criteria and procedures for determining and enforcing requirements for structural and non-structural controls on new and significant redevelopment and re-construction of roads and highways.

The University of Arkansas will review the BMP's during the site plan review. The University is always open to new and innovative devices that will accomplish the goals in this SWMP.

3. Flood Control Projects and Structural Controls Program

When needed, the University of Arkansas will clean out and take care of minor maintenance of the waterways located within the University Boundries. If there is major erosion or major maintenance required, the University of Arkansas will use private contractors to perform the required work.

The University reviews all plans for the development of Erosion and Sediment Control measures for compliance with the University of Arkansas Storm Water Management Plan.

The University will continue to evaluate, prioritize, and install structural controls on developed areas or retrofitting of existing structures. These structures shall be operated in a manner to reduce the discharge of pollutants to the MEP.

4. Construction Site Runoff Program

The University of Arkansas requires that a Pre-Construction Conference be held with the University prior to the start of all land disturbing activities for the construction of new utilities, industrial, commercial or institutional facilities, multi-family residential units and residential subdivisions. In order to schedule a Pre-Construction conference, several documents must be provided:

- *Erosion Control Site Plan:* Drawings identifying the placement of all planned BMP's with installation instructions & details.
- *Permit Authorization from Arkansas Department of Environmental Quality:* If the area of land to be disturbed is 5 ac or greater, a letter issuing coverage under the ADEQ's General Construction Permit.
- *Small Site Construction Notice:* If the area of land to be disturbed is less than 5 ac, a form stating the amount of disturbed area and person responsible for erosion control during construction.
- *Staff Approval of Construction Plans*

During the construction phase of a project, the University of Arkansas Construction Coordinator, and Environmental Health and Safety Representatives will have access to the site and its records

and a “maintenance and inspection” report will be completed and discussed with the owner/operator or designer. Upon the next inspection, if deficiencies have not been corrected, a Notice of Violation (N.O.V.) will be issued to the contractor. If a site remains deficient the Construction Coordinator will continue enforcement procedures outlined in the Pre-Bid Conference.

The University of Arkansas’ mandates, requirements, and Storm Water Management Plan will be reviewed annually and modified as needed.

Notifications to contractors, of their potential responsibilities under the ADEQ permitting program, for construction site runoff, will be done by the University of Arkansas during the review process.

Campus Construction Permits

The University of Arkansas is the “owner” of any University project. The contractor will have “daily operational control” of each project and therefore manage the installation and maintenance of erosion controls. The Construction Coordinator, or a representative from Environmental Health and Safety will regularly inspect each project until completion.

5. Fayetteville’s Composting Facility

The Fayetteville Composting Facility is located at 1708 S. Armstrong Avenue in southeast Fayetteville. Leaves, grass, brush and tree limbs are accepted at the Facility.

The service is free for City of Fayetteville residents for curbside pickup as well as drop-off during facility operating hours. Washington County residents and commercial business are also able to drop yard waste only for a small fee.

Compost and mulch are available for purchase when available throughout the year.
(www.accessfayetteville.org/government/solid_waste/facilities/compost%20facility.cfm)

6. Washington County Solid Waste

Washington County realizes that there are other forms of waste that will need to be disposed. Washington County falls in the Boston Mountain Solid Waste District (BMSWD) area of the state. Together the District, Cities and County work together to address solid waste issues throughout Washington County. Listed below are the different items, locations, and phone numbers accepted by the Solid Waste District.

Boston Mountain also works with local solid waste haulers to license and monitor for compliance with solid waste regulations of Arkansas. Washington County has trash service available to all residents of the County.

From used motor oil to dead batteries to TV's to plastic bottles, glass and paper-recycling options abound in Washington County. Typical items accepted include aluminum cans, glass, office paper, #1 & #2 plastics bottles, newspaper, and corrugated cardboard. These vary depending on the facility. There is usually no charge for dropping off recyclable items at these facilities.

Recycling Drop-Off and Drive Locations

- Elkins, Harps Parking Lot, Phone (479) 444-1725
- Fayetteville, 1560 S. Happy Hollow Road, (479) 575-8398
- FibreSource, 7115 McGuire St, Fayetteville, (479) 521-1210
- Lincoln, Harps Parking Lot, Phone (479) 444-1725
- Boston Mountain Solid Waste District, 11398 Bond Road, Phone (479) 846-3005
- Waste Mngt. Recycle Drop-off, 104 N. Old Missouri Road, Phone (479) 361-1111
- West Fork, Campbell Street, Phone (479) 839-2342
- Winslow, Winslow Blvd., (479) 846-3005

Household Hazardous Waste (HHW)

These items include automotive products, pool chemicals, paint products, lawn & garden products, cleaning products, batteries, thermometers, florescent bulbs, etc. Items can be recycled at a local HHW collection center at no charge for household quantities. Available to residents only. For more information on Household Hazardous Waste, please visit the EPA website or Water Environment Federation website.

- Washington County Household Hazardous Waste Drop-Off, 2615 Brink Drive, Monday-Friday 8am- 4pm and the 1st Saturday of each month 8am-noon, (479) 444-1725
www.co.washington.ar.us/EnvironmentalAffairs/special_waste
- Springdale Street Department, Randall Wobbe Road, 7:30 am- 4:00 pm Mondays only, (479) 750-8135

Electronics

In Washington County we are fortunate to have an electronics recycling program in place to meet the growing demand for disposal. A small covers the cost of disposal. The following items are accepted at the Washington County Household Hazardous Waste Drop-Off.

- Computers- includes monitor, CPU, keyboard, speakers & mouse
- Handheld devices such as PDA's and iPods
- Media storage- CD's, DVD's, videotapes, floppy disks (free)
- TVs
- VCRs
- Printers
- Copiers
- Scanners
- Microwaves
- Home Stereos
- UPS's
- Cell Phones (free)

Other Special Waste Types

For information on disposing of special wastes such as TV's, printer cartridges, building materials, appliances, or tires please call Washington County Environmental Affairs & Recycling (479) 444-1725.

7. University of Arkansas Hazardous Material Storage Facility

The University of Arkansas operates a permitted Hazardous Material Storage Facility, located, on campus, at 1530 West Mitchell. The Facility provides an area for 90-day storage of hazardous materials collected from labs and other facilities on the campus. The Hazardous Chemicals are held at the permitted facility for no more than 90 days. The chemicals are picked up by an approved contractor, and transported to an approved disposal facility. The facility is used for the storage of campus generated materials only. No outside materials are accepted.

8. Razorback Recycling

The University of Arkansas realizes that there are other forms of waste that will need to be disposed. The university operates a recycling facility located on campus at 434 Eastern Avenue. The facility collects materials such as plastic bottles, aluminum cans, cardboard and paper. Recycling options abound on the University of Arkansas campus. The University is always looking for ways to be good stewards, and recycle more materials. The recycling facility also collects and stores used fluorescent bulbs, which are picked up by a qualified contractor.

9. Public Outreach/Public Involvement

Since 2003, the cities of Bentonville, Bethel Heights, Elkins, Elm Springs, Farmington, Fayetteville, Greenland, Johnson, Little Flock, Lowell, Springdale and Rogers along with Benton and Washington Counties and the University of Arkansas have been operating under EPA's federally mandated Phase II Stormwater regulations as "small" municipal separate storm sewer systems (MS4s) that meet "urbanized area" criteria based on 2000 U.S. Census population data. While these jurisdictions obtained separate NPDES permits, they jointly contracted with the University of Arkansas Cooperative Extension Service (CES) through the NWA Regional Planning Commission as a successful and cost-effective means of implementing the following minimum control measures required in the Phase II permits:

- #1) Public Education and Outreach
- #2) Public Involvement and Participation
- #6) Pollution Prevention and Good Housekeeping (training for municipal employees)

An urban stormwater education steering committee (community members) and the MS4 Focus Team (municipality representatives) has been utilized to plan and assess regional urban stormwater outreach and education efforts. County Extension Agents in Benton and Washington Counties will continue to collaborate with CES Environmental and Natural Resource, Horticulture, Pest Management, and Public Policy state faculty on educational materials development, civic programs, construction workshops and municipal employee training. CES has produced professional press releases, radio PSAs, displays, brochures and fact sheets. They

have also hired and trained local program Para-professionals to conduct school and outreach programs at fairs and community events. Measurable program accomplishments are tracked and reported through quarterly and annual reports presented to the NWA Regional Planning Commission, education steering committee, and MS4 focus group along with annual reports for each participating MS4 prior to the ADEQ annual reporting deadline.

10. Roadway Operation and Maintenance Program

The major portion of the street and road management on the campus of the University of Arkansas is done by either the State of Arkansas, or the City of Fayetteville, depending on whether the street is a state highway, or a city street. The University is responsible for the maintenance, repair and cleaning of the campus parking lots. Updates to the SWMP will be made to include any roadway operation and management changes.

11. Pesticides, Herbicide and Fertilizer Application Program

Before a pesticide can be sold in Arkansas, it must first be registered with the Plant Board in accordance with the [Arkansas Pesticide Control Act and Regulations](#). This allows the University of Arkansas to confirm that the product meets all State and Federal requirements to provide for both human and environmental protection. Each year the Pesticide Division registers approximately 10,000 pesticides for use in the State.

Both "users" and "applicators" of restricted use pesticides must be trained in the proper handling of such pesticides and then licensed by the Plant Board in accordance with the Arkansas Pesticide Use and Application Act and Regulations. Those applicators that will apply pesticides commercially must also be tested before a license can be issued. Each year the Pesticide Division issues approximately 15,000 Private Applicator Licenses, 900 Commercial Applicator Licenses, 2000 Non-Commercial Applicator Licenses, 500 Commercial Firm Licenses (ground and air), and 250 Custom Applicator Licenses.

The University also takes its responsibility for taking enforcement action against those persons who fail to comply with the laws and regulations very seriously. Enforcement actions are taken in a fair and equitable fashion as outlined by the Division's [Enforcement Response Regulations](#). Penalties can range from a warning letter to a monetary assessment of up to \$1000 and license revocation.

Please visit the Arkansas plant board site www.plantboard.org.

12. Pollution Complaints and Spills Response Programs

Any pollution complaints, are normally handled by the University of Arkansas Environmental Health and Safety Division. The University Environmental Health and Safety Division will conduct any pollution complaint investigations. If the investigation finds that pollution is caused by a contractor, the matter will be addressed with the Construction Coordinator, and the Contractor. If the pollution is caused by University activities, the matter will be addressed with the crew and immediate supervisor.

Environmental Health and Safety Division will respond to smaller spills on the campus of the University of Arkansas. If there is a larger spill, the City of Fayetteville will contain the spill, and prevent it from entering a storm drain or water-way. The University will be responsible for contacting a qualified Hazardous Material Responder for clean-up, removal and disposal.

13. Illicit Discharge Detection and Elimination Program

The Illicit Discharge Detection and Elimination Program functions to locate and eliminate illicit discharges and improper disposals into the MS4. This program shall include dry weather screening activities to locate portions of the MS4 with suspected illicit discharges and improper disposal. Follow-up activities to eliminate illicit discharges and improper disposal may be prioritized on the basis of magnitude and nature of the suspected discharge; sensitivity of the receiving water; and/or other relevant factors. This program establishes priorities and schedules for screening the entire MS4 at least once during the permit term. The University of Arkansas shall require the elimination of illicit discharges and improper disposal practices as expeditiously as reasonably possible. Where the elimination of an illicit discharge within ten (10) days is not possible, the University shall require an expeditious schedule for removal of the discharge. In the interim, the University shall require the operator of the illicit discharge to take all reasonable measures to minimize the discharge of pollutants to the MS4.

Illicit Discharges and Improper Disposal: Non-storm water discharge to the MS4 shall be effectively prohibited. For the purpose of this permit, the following discharges need not be addressed as illicit discharges by the permittee(s) not prohibited from entering the MS4: discharges regulated by a separate ADEQ permit: and non-storm water discharges identified by the permittee as specified in item (a) below.

Permittee(s) shall identify in the SWMP any categories of non-storm water that are not prohibited from being discharged into the MS4, in accordance with conditions described in items (1) and (2) below.

1. Categories of non-storm water discharges that the permittee(s) may exempt from the prohibition of non-storm water entering the MS4 include:
 - a. Fire fighting activities;
 - b. Fire hydrant flushing;
 - c. Water used to wash vehicles (where detergents or other chemicals are not used) or control dust in accordance with Part II.A.4.I.2;
 - d. Potable water sources including uncontaminated waterline flushings;
 - e. Landscape irrigation;
 - f. Routine external building wash down which does not use detergents or other chemicals;
 - g. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents or other chemicals are not used;
 - h. Uncontaminated air conditioning, compressor condensate (See Part I.B.12 of the ARR040028 permit);

- i. Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.12 of the ARR040028 permit);
 - j. Foundation or footing drains where flows are not contaminated with process materials such as solvents (See Part I.B.12 of the ARR040028 permit);
2. Categories of non-storm water discharges exempted from the prohibition on non-storm water must not be reasonably expected (based on information available to the permittee(s)] to be significant sources of pollutants to the water of the United States, because of either;
- a. The nature of the discharges; or
 - b. Conditions placed on the discharges by the permittee(s).

14. Supporting Permit Conditions

Supporting Departments

Construction and Design

Construction and Design Division of Facilities Management Department of the University of Arkansas, employ Construction Coordinators to represent the University interest with the contractors. They oversee the projects, including all of the construction storm water management issues. They are responsible for the enforcement of the University Storm Water Management requirements. The Construction Coordinators also serve as liaisons between the Contractor and University of Arkansas Environmental Health and Safety.

Environmental Health and Safety

A member of EH&S serves as a MS4 Representative to the Northwest Arkansas Regional Planning Commission. EH&S also assists the Coordinators with the audits and stormwater inspections of the campus construction projects.