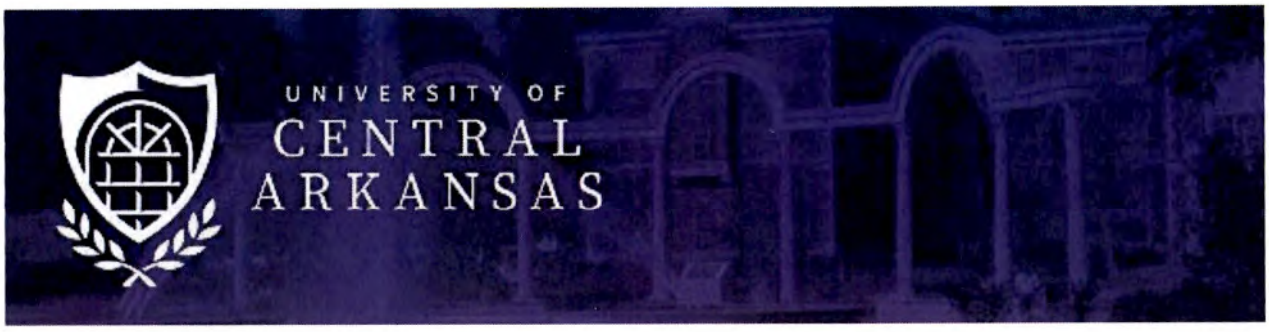

UNIVERSITY OF CENTRAL ARKANSAS
201 Donaghey Avenue
CONWAY, ARKANSAS
72035

STORMWATER MANAGEMENT PLAN

~~**June 7, 2017**~~
Revised March 30, 2022

Primary Point of Contact:
Michelle Ellington
Assistant Director of Facilities
501-450-3610
mellington@uca.edu

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UNIVERSITY OF CENTRAL ARKANSAS
CONWAY, ARKANSAS
STORMWATER MANAGEMENT PLAN

1.0INTRODUCTION

1.1 Regulatory Background

In March, 2003, U.S. EPA promulgated rules establishing Phase II of the NPDES stormwater program. The Stormwater Phase II Rule extends coverage of the NPDES stormwater program to "small" MS4s including nontraditional MS4s such as public universities, but takes a slightly different approach to developing and implementing the stormwater management program.

These regulations require the University of Central Arkansas, Conway, Arkansas (**UCA**) to obtain coverage under a National Pollutant Discharge Elimination System (**NPDES**) permit. These regulations also require a Stormwater Management Plan (**SWMP**) for UCA. UCA submitted a Notice of Intent (**NOI**), Appendix A, to be covered under the Regulated Small Municipal Separate Storm Sewer System (**MS4**) Stormwater Runoff General Permit (ARR040000) general permit on October 19, 2016. On March 20, 2017, UCA was advised that an outline of the SWMP originally submitted would not be sufficient to gain coverage under the NPDES permit under the revised rules. A checklist was developed by ADEQ and sent to UCA on March 27, 2017 to use in submission of a SWMP.

~~Once the draft of~~ The SWMP was ~~is~~ accepted by ADEQ, there was ~~will be~~ a 30 day comment period on the SWMP. Based on the response to the public comment period, no ~~UCA may need to draft a~~ revised SWMP was required. ~~before ADEQ staff drafts a final permit to cover stormwater discharges associated with the UCA (MS4)~~. UCA will continue to develop the SWMP and report annually on progress. Minor changes have been made to the SWMP to update and incorporate actual practices and procedures found to be meaningful implementing this program. The main change has been the incorporation of Rational Statements for each of the BMPs.

During this permit period ADEQ issued a new general permit and UCA submitted a NOI to become a part of the new permit.

1.2 Purpose of the Stormwater Management Plan

Polluted stormwater runoff is often transported to and through MS4s and ultimately discharged into local waterways (rivers, streams, lakes, and bays) without treatment. U.S. EPA's Stormwater Phase II Final Rule establishes an MS4 stormwater management program intended to improve the nation's waterways. Common stormwater pollutants include: oil and grease from roadways and parking lots, pesticides from lawns, sediment from construction sites, and trash. These pollutants are deposited into nearby waterways,

impacting beneficial uses of the resource and interfering with the habitat for fish, other aquatic organisms, and wildlife.

This document has been developed to comply with the general permit performance standards for the ADEQ NPDES Regulated Small MS4 Stormwater Permit. This SWMP covers the UCA campus in Conway, Arkansas. UCA will use State Laws and ADEQ regulations in addressing stormwater issues as the legal authority for enforcing stormwater regulations on campus.
The purpose of the SWMP is to (1) identify and reduce pollutant sources potentially affecting the quality and quantity of stormwater discharges, (2) provide Best Management Practices (**BMP**s) for municipal and construction activities to reduce contamination in stormwater to the Maximum Extent Possible (**MEP**) and, (3) provide measurable goals to assess the effectiveness of BMPs that are designed to reduce the discharge of the pollutants into the storm drain system and associated waterways.

1.3 Stormwater Management Committee

Stormwater Management Committee (**SWMC**) was ~~will be~~ created at UCA that represents various campus departments and student groups to provide input into the development and implementation of the SWMP. The SWMC Staff members represent the following departments and groups:

- Environmental, Health and Safety
- Facilities Management
- Construction
- Housing
- Grounds Services
- Custodial/Recycling
- Maintenance

The intent is to add to the SWMC to include Faculty and Students in 2020.

1.4 Organizational Chart

UCA's organizational chart in Figure 1 shows the relationship of the Director of Energy and Sustainability and the rest of the SWMC members to the overall organizational. The Director of Energy and Sustainability, Michelle Ellington, will coordinate the implementation of the Stormwater Management Plan and each BMP.

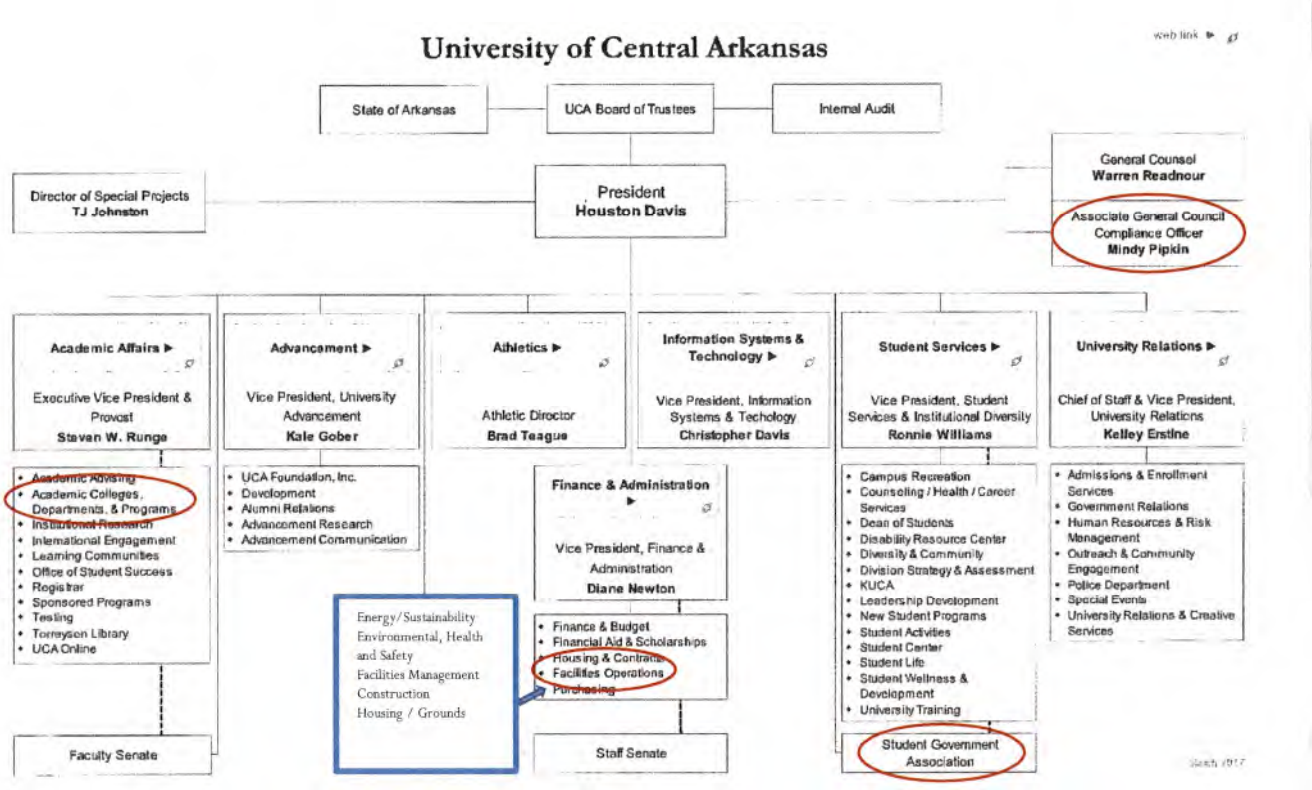


Figure 1. University of Central Arkansas Organizational Chart

UCA employs maintenance, custodial, and grounds staff for day-to-day university operations. There work includes building maintenance (cleaning, painting, repairs), completion of department work requests, cleaning of common buildings, grounds maintenance, small construction jobs, and various repair and maintenance activities. University staff and outside contractors perform electrical, plumbing, utility, roofing, asphalt repairs, exterior building painting, sewer line cleaning, janitorial duties and other duties as assigned. The responsibilities are shared between the Physical Plant and Housing.

2.0 SITE INFORMATION

2.1 Facility Description

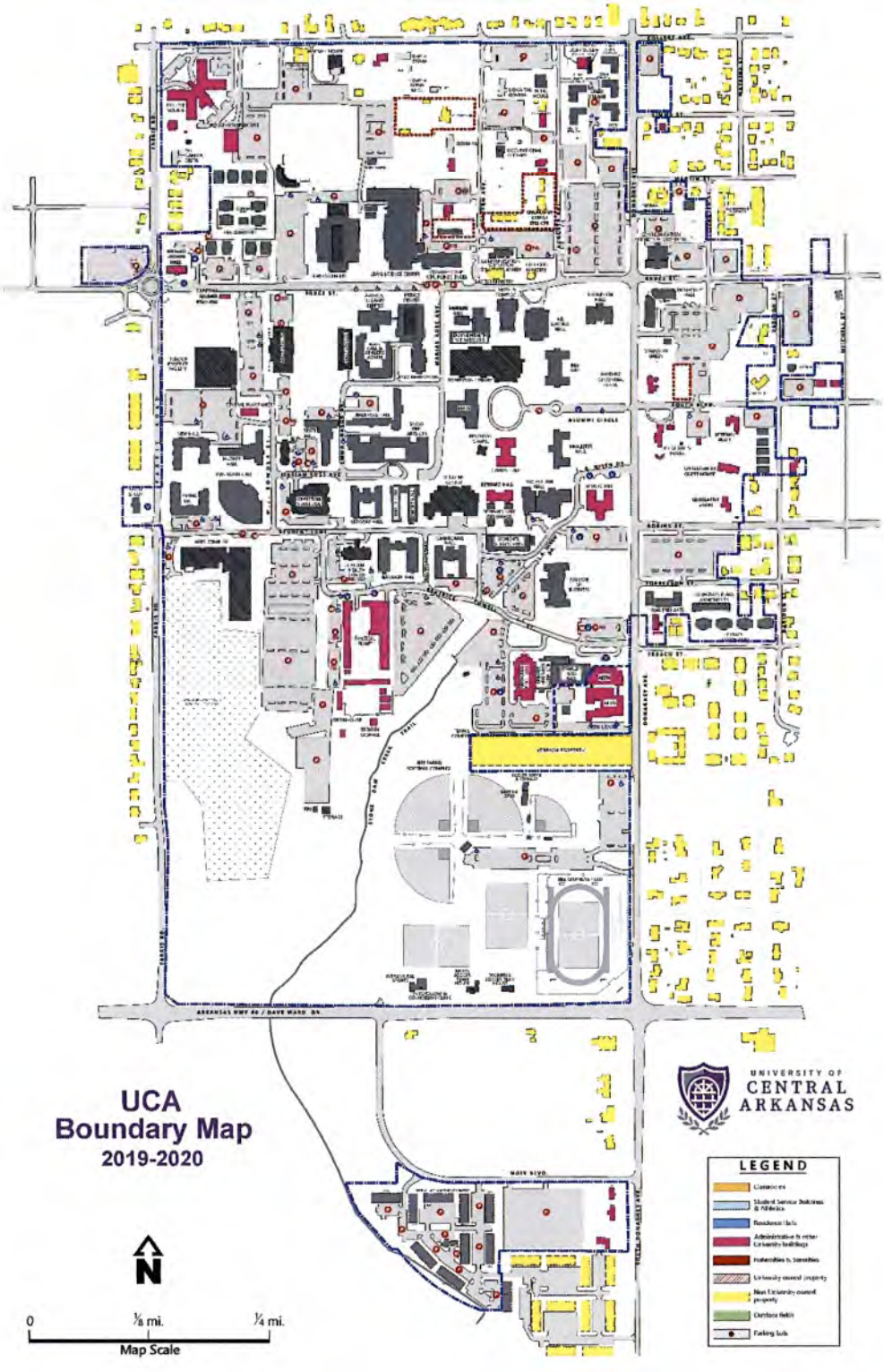
The UCA campus is centrally located within the boundaries of the City of Conway, see Figure 2.

Figure 2. City of Conway Boundaries

The UCA campus is shown in Figures 3 & 4. The properties included within the purple broken lines are the boundaries of the UCA campus. This includes: the main campus (academic, administrative and facilities

College Avenue

departments, the student housing and parking lots), the athletic fields, as well as, Farris Center, Bear Stadium and Estes Stadium. Not all areas are contiguous to the main campus. An off-campus facility, ADEM, is excluded from the scope of this permit and will remain in the City of Conway MS4 Stormwater Permit.



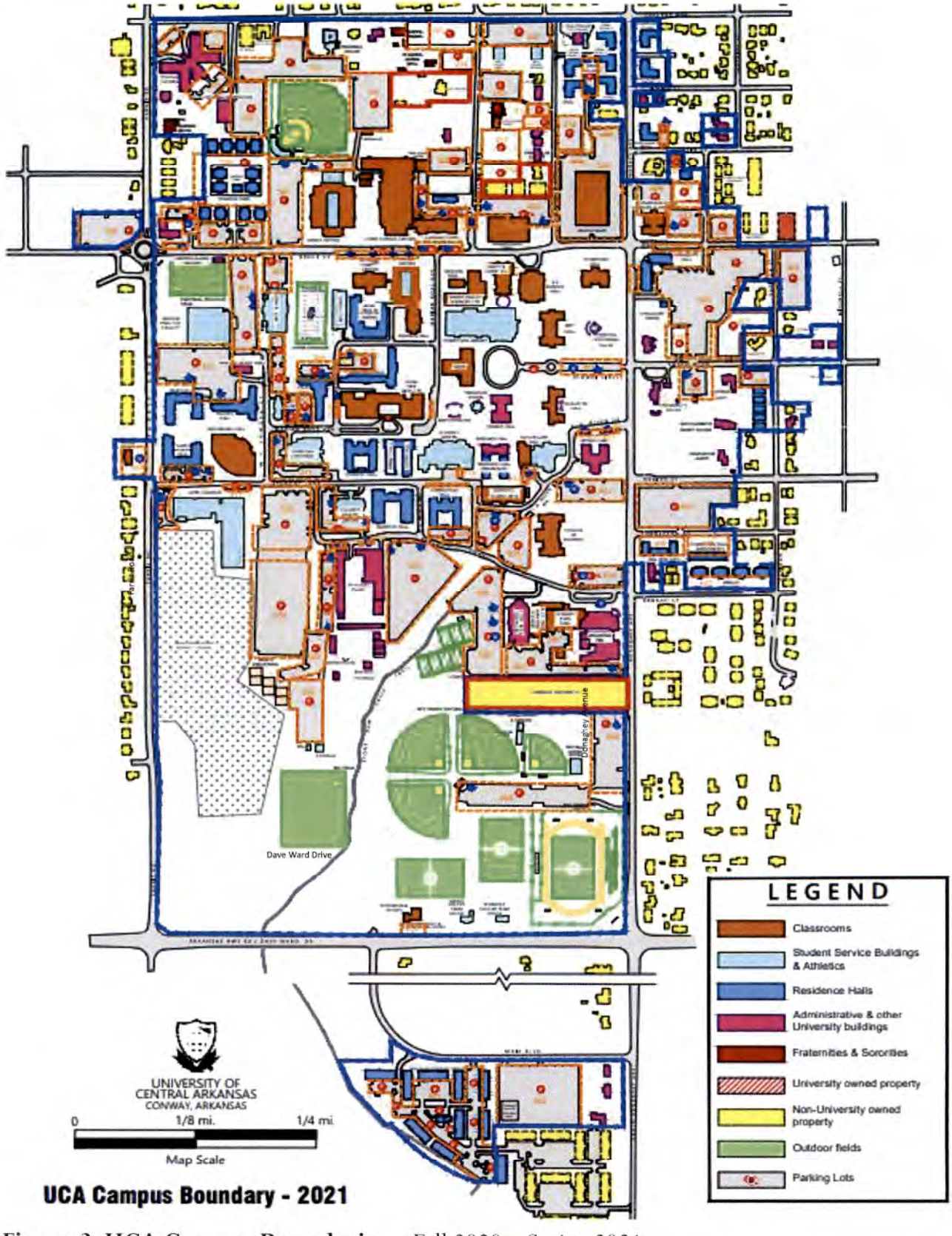


Figure 3. UCA Campus Boundaries – Fall 2020 – Spring 2021

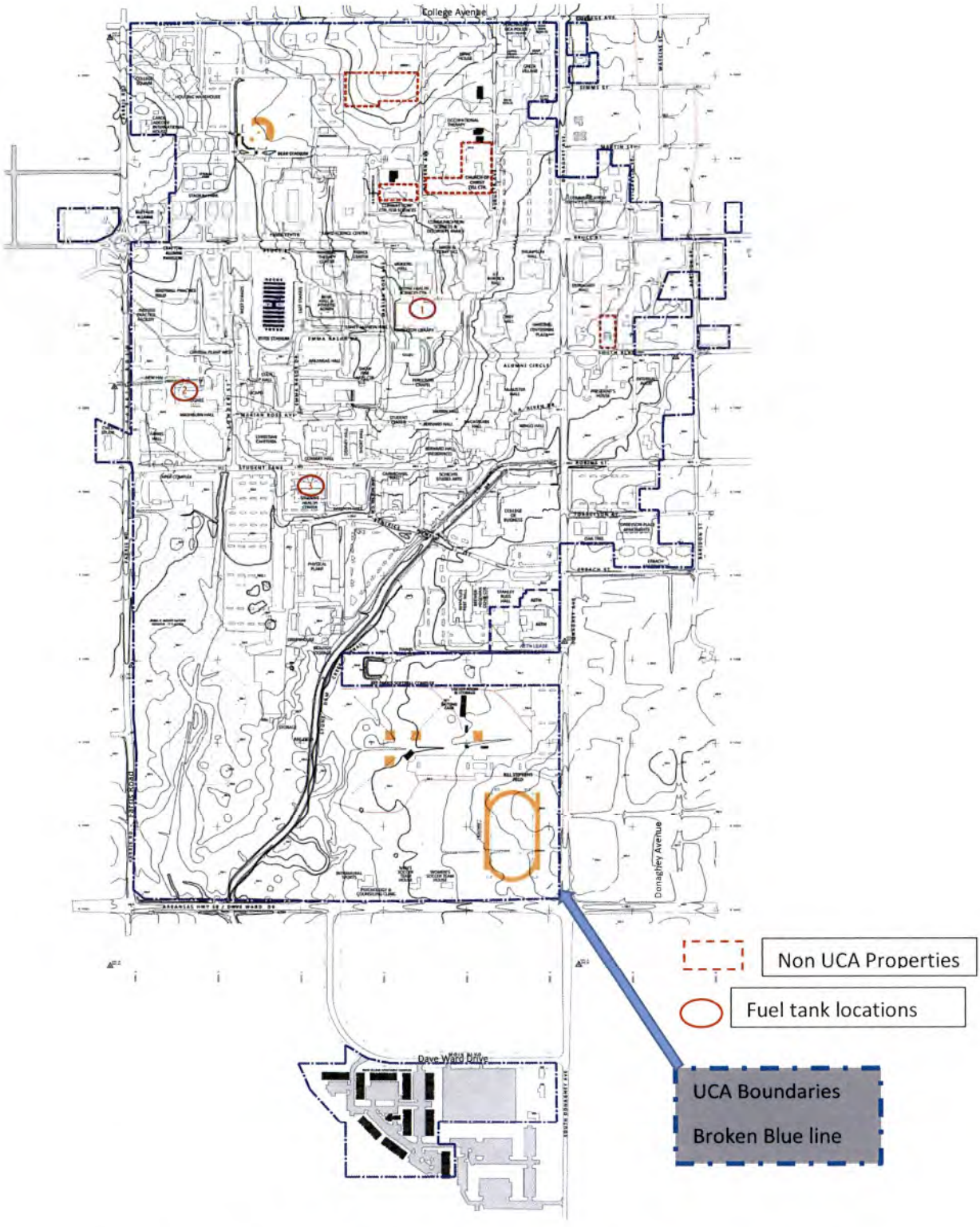


Figure 4. UCA Campus Boundaries and Fuel Storage Areas. Number 1 is the generator fuel storage at Torreyson Library, Number 2 is the generator fuel storage at New Hall Dormitory, Number 3 are the automotive gasoline and diesel fuel storage tanks at the Physical Plant.

Fuel Storage - Two underground bulk storage tanks containing diesel and unleaded gasoline are located at the Physical Plant on the UCA campus. Two diesel powered generators have 150-gallon diesel storage tanks attached to the skid and are positioned at New Hall Dormitory and Torreyson Library. A Spill prevention containment and countermeasures plan (**SPCCP**) was ~~will be~~ developed during the term of this permit to address fuel and other chemical handling.

Miscellaneous Facts: Stormwater from the campus collects and discharges into Stone Dam Creek. The campus is bounded by a Hartshorne sandstone ridge to the south and a metamorphic rock ridge north of campus. The valley formed in between is predominantly heavy clay. A map of the drainage basin is included in Appendix F. The average annual rainfall for the Conway area is approximately 51.4 inches. UCA's population for year 2020-2021 including students, faculty, and staff was approximately 12,760.

3.0 POTENTIAL SOURCES OF STORMWATER CONTAMINATION

In order to aid in the identification of pollutant sources, the Stormwater Management Committee will utilize information on historic stormwater issues as well as knowledge of day-to-day operations to identify activities and sources of potential pollutants of concern. The BMPs to address the pollutant sources and activities described on Table 3-1 will be developed and implemented as described in Section 5.0.

4.0 MINIMUM CONTROL MEASURES & BEST MANAGEMENT PRACTICES (BMPS)

"Minimum Control Measures" is the term used by the U.S. EPA and ADEQ for the six MS4 program elements aimed at achieving improved water quality. The Final Rule and permit specify that a Phase II SWMP must include BMPs for the following six minimum control measures:

- Public Education and Outreach
- Public Participation/Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-construction Runoff Control
- Pollution Prevention / Good Housekeeping

The goal of the SWMP is to reduce the discharge of pollutants and to identify activities or structural improvements that help reduce the quantity and improve the quality of the stormwater runoff. BMPs have been developed for the SWMP to reduce the discharge of pollutants to the storm drain system. BMPs include treatment controls, operating procedures, and practices to control site runoff, spills and leaks, sludge or

waste disposal, or drainage from raw material storage. BMPs will be updated as appropriate to comply with any additions or changes to NPDES permit requirements.

4.1 BMPs to Meet Permit Requirements

The BMPs described for each control measure in Section 5.0 will be implemented by UCA staff and outside contractors. These BMPs were chosen to reflect the campus operation and the approach UCA has taken to implementing the minimum control measures. Whenever UCA staff or contractors perform work at UCA, the procedures outlined for each relevant BMP, or other proven technique that reaches the same goal, will be used in order to ensure compliance with stormwater discharge regulations.

UCA has already initiated many aspects of the BMPs listed in Section 5.0 of this SWMP. In some cases, the measure has not been formally documented as a written plan or program. The SWMP will document these existing BMPs and outline implementation of additional BMPs. Full development and implementation of BMPs will be completed through the 5-year implementation plan as presented in the following sections.

5.0 DEVELOPMENT AND IMPLEMENTATION OF BMPS

The BMPs will be implemented by the UCA students, faculty, and staff. Implementation will be the responsibility of specific campus groups/departments. Each BMP is associated with one or more of these groups/departments. The following list of acronyms identifies each group and department referenced in the following sections:

- Stormwater Management Committee **SWMC**
- Environmental Health and Safety **EHS**
- Facilities Management **FM**
- Energy Management and Sustainability **EMS**
- Construction Management **CM**
- Housing / Housekeeping **H**
- Student Government Association **SGA**
- Environmental Sciences/Biology **ESB**
- Legal Counsel **LC**

5.1 Public Education and Outreach Regarding Stormwater Impacts

The goal of this minimum control measure is to ensure greater public awareness and compliance for the stormwater management program. Specifically, this minimum measure is intended to teach the "public" (students, faculty, staff and contractors) using media ~~brochures~~, contract specifications and personal contact the importance of protecting stormwater quality, for the benefit of both the environment and human health. Michelle Ellington or her designated representative will be responsible for overall management and implementation of the stormwater public education and outreach program. They will work in coordination with the Associate VP for Communications, Public Relations and Marketing.

Permit Requirements:

- Implement a public education program to distribute educational materials to the students, faculty, staff and contractors or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff. The stormwater public education and outreach program shall reach at least 50 percent of the population over the permit term.
- Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.
- Target at least 5 different themes related to stormwater during the term of the permit.

Rationale Statement & Decision Process:

The University of Central Arkansas (UCA) consists of approximately 12,760 students, staff, and faculty. UCA has many channels to communicate and inform the campus community about stormwater concerns. The Physical Plant (FM) staff are the primary source of Stormwater information at UCA. Key personnel from the Physical Plant have formed the Stormwater Management Committee (SWMC) and will consult with faculty, staff and students to use the best methods to communicate stormwater management policies to and to receive comment from the campus. The operation of chemical and biological labs creates the opportunity to release hazardous material that may enter Stone Dam Creek if not properly controlled. In addition, the operation of the motor pool, grounds maintenance, and building maintenance activities also create similar opportunities. Contractor activities also provide disruptions to the landmass that could cause stormwater pollution. Students also have an important role to play in keeping the campus clean and accidental leaks from automobiles parked on campus. The SWMC developed the Stormwater Management links to the Physical Plant website. This site is dedicated to providing information and resources for stormwater related topics and to provide a method for the public to comment on stormwater management. BMPs listed below will be utilized to facilitate communication with the campus community.

Implementation:

The proposed themes for public education and outreach are listed below:

- **Year 1**: Landscaping – fertilizing and pesticide use
- **Year 2:** Construction – erosion, sediment control and post construction considerations
- **Year 3:** Public Outreach – cooperation between students/staff/contractors/faculty
- **Year 4:** Illicit Discharges – minor discharges of chemicals/oils/greases
- **Year 5**: SPCCP – larger discharges of chemicals such as fuels/pesticides/fertilizers

Table 5-1 presents selected BMPs for this minimum control measure. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals, and the UCA departments that will be responsible for implementation.

5.2 Public Participation/Involvement

The goal of this control measure is to give the students/staff/faculty opportunities to play an active role in both the development and implementation of the stormwater program to gain a broader support in the development and decision making;

- Shorter implementation schedules due to fewer obstacles to acceptance of the program and an increased source of volunteers.
- A broader base of expertise and free, intellectual resources.
- A conduit to other programs as students/faculty/staff involved in the stormwater program development process provide important cross-connections and relationships with other community and government programs.
- The University will participate in Earth Day and/or Eco Fest with the local community each year as its public involvement activities.

Permit Requirements:

- Comply with applicable State and local public notice requirements.
- Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.
- Include at least 5 public involvement activities over the permit term.

Rationale Statement & Decision Process:

UCA encourages input and comment from the campus community regarding all facets of stormwater management. The Physical Plant website is the predominant way in which community members can access information and provide comment on stormwater related topics. The SWMC makes recommendations as to how, when, and why to solicit public involvement. BMPs for facilitating public involvement are listed below.

Implementation:

The following activities are ~~will be~~ planned for outreach/public involvement:

- **Year 1**: Develop a booth for public involvement activities for Eco Fest or Earth Day
- **Year 2:** Participate in Townhall meeting with staff, faculty and students
- **Year 3:** Participate in at least one outreach activity to engage students/faculty/staff
- **Year 4:** Participate in at least one outreach activity to engage students/faculty/staff
- **Year 5**: Participate in at least one outreach activity to engage students/faculty/staff

Table 5-2 presents selected BMPs for this minimum measure. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals and the UCA departments that will be responsible for implementation. The target group for these BMPs will be students, faculty, staff and contractors. The key committees/managers that will coordinate this work are the Storm Water Management Committee, Student Senate, Faculty Senate, Staff Senate and Project Managers for Contractors. Michelle Ellington or her designated representative will be responsible for overall management and implementation of the stormwater public participation and involvement program.

5.3 Illicit Discharge Detection and Elimination

The goal of this minimum control measure is to reduce pollutants in stormwater runoff to receiving waters. It requires the development and implementation of a system to identify and eliminate sources of illicit discharge and illegal dumping.

Students, faculty, staff and contractors will be informed of the hazards that are generally associated with illegal discharges and improper disposal of waste.

- Students will be informed during the orientation process and given stormwater related information in the student handbook. ~~brochures and personal contact information at that time.~~
- Faculty will be asked to view ~~given~~ stormwater ~~related brochures and personal contact~~ information. ~~The Stormwater Coordinator or her designee will schedule to attend a faculty meeting with each college to discuss stormwater once each school year.~~
- ~~o~~ Staff will be given stormwater related ~~brochures and personal contact~~ information. ~~The Stormwater Coordinator or her designee will schedule to attend a staff meeting with each department to discuss stormwater once each year.~~
- On-site Contractors will be given the stormwater brochure and contract specifications. The ~~Stormwater~~ Construction Management Coordinator will schedule to attend the ~~initial~~ contractor meetings ~~to~~ and discuss stormwater implications of work.

Permit Requirements:

- Develop, implement and enforce a program to detect and eliminate illicit discharges, as defined in Part 6 of this permit, into the small MS4.
- Develop a storm sewer system map, showing the location of all outfalls and the names and location of all surface waters of the State that receive discharges from those outfalls.
- Within five years of when the coverage under this general permit was granted, the storm sewer system map shall also include the entire MS4 system, including catch basins, pipes, ditches and public and private stormwater facilities.
- Update the storm water sewer map annually.
- Perform annual dry weather screening of outfalls.
- Perform an inspection of all outfalls over the course of the permit term.
- Perform ADEQ recommended field tests of selected chemical parameters as indicators of discharge sources.
- Inform students, faculty, staff and contractors of the hazards that are generally associated with illegal discharges and improper disposal of waste.
- Address the following categories of non-stormwater discharges or flows (i.e., illicit discharges) only if the MS4 identifies them as significant contributors of pollutants to the small MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)), uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential

car washing, flows from riparian habitats and wetlands, dechlorinated swimming pool discharges, street wash water, and discharges or flows from emergency firefighting activities (by definition, not an illicit discharge). Needs to be addressed if this is an issue or not.

- Develop a list of other similar occasional incidental non-stormwater discharges (e.g., non-commercial or charity car washes, etc.) that will not be addressed as illicit discharges.
- Document in the SWMP any local controls or conditions placed on occasional incidental non-stormwater discharges, such as car washes.

Rationale Statement & Decision Process:

Illicit discharges were not considered to be present on the UCA campus until investigations were made into reports received the first year of the MS4 Permit. A variety of minor discharges were reported, investigated and resolved. Illicit discharges on campus are strictly prohibited to include illegal dumping. The UCA Environmental Health and Safety (EHS) enforces pollution laws and responds to any incidences. FM and EHS work closely to ensure that any detected incidences of illicit discharge are thoroughly investigated and mitigated.

All student chemical activity is monitored by faculty and staff at the class/lab level. Any waste generated by chemical, biological, or physical means is collected and disposed of according to federal and state regulations and per the UCA Chemical Hygiene Plan, Biosafety Manual, Radiation Safety Policy, Recycling Program, and general waste management practices.

The EHS office and the Chemical Hygiene Officer (CHO) manage the day-to-day operations for chemical safety and hygiene by routine inspections, training, and lab design. UCA prohibits improper waste disposal per the Chemical Hygiene Plan, Biosafety Manual, and Spill Pollution Prevention Plan (SPPP).Plans and programs are available to the community on the Physical Plant website that outline in detail chemical and biological hazardous material handling procedures.
EHS coordinates operations that may result in pollutant runoff. Oil from auto-maintenance operations is collected and stored in an above ground tank until the oil is picked up for recycling. UCA uses green cleaning products wherever practical. Fertilizers and herbicides are used at a minimum, and lawn irrigation is performed only as necessary to maintain the grounds.

FM maintains a map of all systems including storm sewers and outfalls. This map is updated as needed by the FM Engineer. Architects are consulted when new structures are erected and are charged with developing adequate drainage plans for stormwater.

Implementation:

Table 5-3 presents selected BMPs for this minimum measure. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals, and the UCA departments that will be responsible for implementation. The Environmental Health and Safety Coordinator, Nelson Landers, will monitor compliance with this aspect of the program.

5.4 Construction Site Stormwater Runoff Control

The goal of this minimum control measure is to prevent soil and construction waste at construction sites from entering the stormwater conveyance system using city ordinances. Sites larger than one (1) acre must be included.

Permit Requirements:

- Develop and implement specifications that meet permit requirements for construction site operators to implement appropriate erosion and sediment control BMPs.
- Develop and implement requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.
- Develop and implement procedures for pre-construction site plan review that incorporates consideration of potential water quality impacts.
- Develop and implement procedures for receipt and consideration of information submitted by the public.
- Develop and implement procedures for site inspection and enforcement of control measures.
- Sanctions. The plan to ensure compliance with the erosion and sediment control regulatory mechanism, including the sanctions and enforcement mechanisms that will be used to ensure compliance. Describe the procedures for when certain sanctions will be used.

Rationale Statement & Decision Process:

Construction activities are perhaps the most obvious source of runoff pollution. In order to ensure that BMPs are observed, UCA established requirements for community members and contractors. FM and EHS will oversee all construction sites and SWPPPs for control of sediments, erosion, and waste (particularly concrete wastes) by monthly inspection throughout the course of construction. If inspection violations are not corrected, UCA will refer non-compliance activities to ADEQ. Likewise, any illicit discharges discovered from non-construction activities will be referred to the proper authorities.

Implementation:

Table 5-4 presents selected BMPs for this minimum measure. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals and the UCA departments that will be responsible for implementation. The Construction Management Coordinator, Kevin Carter, will be responsible for implementation of this BMP schedule.

5.5 Post-Construction Stormwater Management

The goal for this minimum control measure is to reduce the generation of non-point source pollution from urban runoff through planning and design, prior to development or re-development. Post-construction runoff control focuses on site and design considerations, which are most effective when addressed in the planning and design stages of project development. Effective long-term management and maintenance are critical, so the best design opportunities are those needing the least amount of maintenance. The goal of the program is to integrate basic and practical stormwater management techniques into new development to protect water quality.

Post-construction stormwater management controls include permanent structural and non-structural BMPs (e.g., conservation of natural and permeable areas, permeable pavers, rooftop runoff infiltration galleries, and mechanical storm drain filters) that remain in place after the project is completed.

Projects subject to the new standards are new developments that create more impervious surface and redevelopment projects that replace one (1) or more acres of impervious surface (such as a parking lot).

Once projects are completed the University will be responsible for the long term maintenance of the BMPs.

PERMIT REQUIREMENTS:

- Develop and implement strategies which include a combination of structural and/or nonstructural best management practices (BMPs) on projects that disturb one or more acres.
- Ensure adequate long-term operation and maintenance of BMP
- Implement local ordinances for post construction runoff controls
- Determine the appropriate best management practices and measurable goals for this minimum control measure
- Develop policies for non-structural BMPs that provide requirements and standards to direct growth to identified areas, protect sensitive areas such as wetlands and riparian areas, maintain and/or increase open space (including a dedicated funding source for open space acquisition), provide buffers along sensitive water bodies, minimize impervious surfaces, and minimize disturbance of soils and vegetation
- Develop policies that encourage infill development in higher density urban areas, and areas with existing storm sewer infrastructure; education programs for developers and the public about project designs that minimize water quality impacts; and other measures such as minimization of the percentage of impervious area after development, use of measures to minimize directly connected impervious areas, and source control measures often thought of as good housekeeping, preventive maintenance and spill prevention.

Rationale Statement & Decision Process:

UCA has and updates the Campus Master Plan for long-range renewal and growth opportunities. The plan consists of two companion documents, the university's strategic plan and a plan for the University District. Both documents include strategies for stormwater management. Post-construction BMPs will ultimately conform to drainage and runoff strategies associated with the Master Plan.

Post-construction stormwater management is a key activity to ensure that when BMPs used during construction are removed, runoff is monitored and evaluated for possible pollutants. The requirements to correct any deficiencies with stormwater runoff will be the responsibility of the contractor under the direction of FM and EHS. EHS will inspect and evaluate runoff under the following conditions:

1. Dry-weather screening
2. Following rain events
3. Building systems drainage
4. Activity based pollution opportunities

These parameters will be assessed by a qualified staff member, and any deficiencies and corrections will be forwarded to the contractor for immediate remediation. Landscaping activities, which follow construction, will incorporate non-structural BMPs to mitigate runoff such as riparian buffer zones, natural abstractions, preserving undeveloped land areas (natural settings), continue to maximize development of green areas, and minimize impervious areas where possible.

Implementation:

Table 5-5 presents selected BMPs for this minimum measure. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals, and the UCA departments that will be responsible for implementation. The Construction Management Coordinator, Kevin Carter, will be responsible for implementation of this BMP schedule.

Please refer to section 7.0 for additional construction BMPs that may apply to contractors.

5.6 Pollution Prevention/Good Housekeeping For Facilities Operations and Maintenance

The goal of this minimum control measure is to assure that UCA facility operations and maintenance activities occur in a manner protective of stormwater quality.

PERMIT REQUIREMENTS:

- Develop and implement an operation and maintenance program with the ultimate goal of preventing or reducing pollutant runoff from Campus operations into the storm sewer system.
- Develop employee training on how to incorporate pollution prevention/good housekeeping techniques into campus operations such as; grounds and open space maintenance, fleet maintenance and building maintenance, new construction and land disturbances, and stormwater system maintenance using training materials that are available from EPA, their State or relevant organizations.
- Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.

Rationale Statement and Decision Process:

It is important to maintain the campus in a manner that reduces the opportunity for stormwater pollution. Many campus activities could affect water quality if left unmonitored and controlled. UCA has in place buildings and grounds maintenance operations that are designed to enhance the beauty of the campus and prevent pollutants from entering Stone Dam Creek and subsequent water bodies.

Streets are swept and grounds are kept clean of trash and debris by FM. All materials collected are either recycled or disposed of as waste. Building systems are maintained to prevent fluid leakage, and any byproducts of processes or spills are collected and disposed of in accordance with ADEQ Regulation 23. Automobiles are regularly maintained, and waste petroleum products are collected in an above ground storage tank. The tank contents are collected by a professional waste management company. Daily cleanup activities ensure that debris is disposed of before it can get into Stone Dam Creek. Grounds are landscaped to enhance the natural beauty of the campus, which in turn provides natural abstractions that mitigate runoff. Employees are trained on how to recognize hazards to protect themselves and the campus grounds. Parking lots are maintained routinely, and any leaks/spills are absorbed and collected whenever possible. UCA has an aggressive recycling program that includes paper, plastic, aluminum, batteries, computer components, fluorescent lamps and HID/MV bulbs, and other miscellaneous recyclables.
Each FM employee has a basic understanding of material safety data sheets (MSDS) and biological hazards so they can report possible hazards to their supervisor.

Implementation:

Table 5-6 presents selected BMPs for this minimum measure. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals and the UCA departments that will be responsible for implementation. Grounds Coordinator, Jon Davis and Custodial Coordinator, Adam Hensley, will be responsible for this BMP.

6.0 RECORD KEEPING

6.1 SWMP Updating

The SWMP will be reviewed annually by the SWMC. UCA will update the SWMP whenever changes in activities or operations occur that may significantly affect the discharge of stormwater pollutants.

In the event UCA identifies additional BMPs or stormwater controls, not outlined in this plan, UCA may modify the SWMP and notify ADEQ is writing of such changes. If a control or BMP is deemed ineffective, UCA may request authorization to modify the BMP or control by notifying ADEQ of the proposed changes in writing. Unless denied, such requested changes may be implemented 60 days after submitting the request. A request for a modification must include:

1. Analysis of why the practice is ineffective (including cost prohibition).
2. The expected effect of the new practice.
3. Analysis of why the new practice will achieve the intended goals.

Requests for modification must be in writing and signed by a senior executive officer having responsibility for the overall operations of the organization. Replacing one or more existing BMPs may be considered a major modification to the SWMP and therefore be subject to the public notice process.

Modifications of the SWMP may be required by ADEQ to address impacts on receiving water quality caused or contributed to, by discharges from UCA or to include more stringent requirements necessary to comply with new federal or state statutory or regulatory requirements, or surface water quality standards. ADEQ may also require modification of this plan at any time it determines that the plan does not meet permit requirements. Upon notification of required modifications by ADEQ, UCA must make the required changes and submit a written statement certifying that the changes have been made.

6.2 Monitoring

UCA discharges stormwater to receiving streams subject to Total Maximum Daily Load requirements. UCA is not currently subject to monitoring requirements.

6.3 Record Keeping

The stormwater permit requires UCA to retain all required records including a copy of the NPDES permit, records of all data used to complete the Notice of Intent, and annual reports for a period of at least three (3) years or for the term of permit, whichever is longer. The Tables are listed in Appendix A of this document, the Notice of Intent (NOI) in Appendix B, the NPDES permit will be filed in Appendix C and the annual reports will be filed in Appendix D. Correspondence regarding administration of this SWMP can be filed in

Appendix E. This period may be extended by request of the permitting authority at any time. UCA shall submit any records to the permitting authority upon request. UCA must also make all records, including the notice of intent (NOI) and the description of the SWMP, available to the public if requested in writing.

6.4 SWMP Annual Reports

The university must submit annual reports to the ADEQ for each year of the permit term. The first report is due 15 months from the effective date of the permit, covering the activities of the permittee during the 12 months from the effective date of the permit. Subsequent annual reports are due on the same date for each of the following years during the remainder of the permit term. The reporting date for UCA will be March 31 of each year. The next submission will be March 31, 2022. The report will summarize the activities performed throughout the previous 12 months for the reporting period and must include the following:

- The status of compliance with permit conditions.
- An assessment of the appropriateness of the identified BMPs and the progress towards achieving the measurable goals for each of the minimum control measures.
- Results of information collected and analyzed, including monitoring data, if any, during the reporting period.
- A summary of the stormwater activities UCA plans to undertake during the next reporting cycle, including an implementation schedule.
- Any proposed changes to the SWMP along with justification of why the changes are necessary.
- Description and schedule for implementation of additional proposed BMPs.
- Annual Reports must be submitted to the:

Arkansas Department of Environmental Quality

P. O. Box 8913

Little Rock, Arkansas 72219-8913

Attention: Stormwater Section

7.0 Construction Program

The Phase II Final Rule requires operators of Phase II small construction sites, nationally, to obtain an NPDES permit and implement practices to minimize pollutant runoff.

Permit Requirements:

- Submission of a Notice of Intent (NOI) that includes general information and a certification that the activity will not impact endangered or threatened species.
- Development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) with appropriate BMPs to minimize the discharge of pollutants from the site; and
- Submission of a Notice of Termination (NOT) when final stabilization of the site has been achieved as defined in the permit or when another operator has assumed control of the site.

Table 7-1 presents selected BMPs for Small Construction Sites. The table identifies the current status of each BMP as well as the implementation details, the implementation year, measurable goals and the UCA departments that will be responsible for implementation.

Attachment ~~Appendix~~ A. Potential Pollutants ~~and BMP Tables~~

Table 3-1. Potential Pollutants

Pollutant Activity/Sources Activity/Source	Pollutants of Concern
Building maintenance	Wash water, paint chips, cleaning products, dirt and sediment
Chemical spills	Various cleaning compounds, diesel, paint, hazardous materials, vehicle fluids
Cooling tower / boiler blow down	Various water treatment chemicals
Construction activities	Concrete, drywall, paint, erosion sediment, construction debris
Food service operations	Wash water, food residue, oil and grease
Grounds maintenance	Green waste, fuel, oil, pesticides, herbicides, sediment
Impervious areas	Increased flows and pollutant loading
Irrigation runoff	Fertilizers, pesticides, reclaimed water
Litter and debris	Litter and debris
Loading/unloading areas	Petroleum products, fertilizers, pesticides, herbicides, cleaning solutions, paint
Outdoor storage of raw materials	Sand, asphalt, soil, pesticides, herbicides, fertilizer, paint, solvents, fuel
Painting	Paint or rinse water (oil and water based), paint thinner
Parking lot runoff	Oil/grease, litter
Roof runoff	Particulate matter and associated pollutants
Sewer line blockages/seepage	Raw sewage
Trash storage areas	Organic materials, hazardous materials
Vehicle and equipment washing	Cleaning products, oil/grease, vehicle fluids

Attachment B. BMP Tables

Table 5-1. BMP Implementation: Public Education and Outreach

Year	BMP	Current Status	Implementation Details	Measurable Goal	UCA Depts.
1	Forming Partnerships	Active	Form a partnership with EPA, ADEQ, and the City of Conway to learn more about stormwater.	Get material and training available through them	FM EMS
1	On-line links to stormwater education materials	Active	Discover links to existing websites with stormwater information and materials. Add to the UCA Physical Plant website.	Development of stormwater links on the Physical Plant web page	EMS
1	Identify available stormwater education materials and brochures	Ongoing	Review materials available from ADEQ, EPA and other agencies will be identified. UCA will review these materials and decide which materials to use with other BMPs.	Number of items reviewed.	EMS
2	UCA stormwater brochure	Active	~~Create and distribute a brochure for the UCA campus.~~ Add stormwater awareness section to Staff and Student Handbooks.	Number of ~~brochures~~ Handbooks distributed	SWMC
2	Student education	None	Student Orientation - Include stormwater awareness material during orientation. Include information about local stream teams on campus.	Number of students oriented	FM, H, SGA
2	Employee awareness	Active	Incorporate stormwater education into new employee orientation and existing employee safety meetings.	Employees receiving orientation	FM, EMS
2	Contractor awareness	Active	Incorporate stormwater education into new contractor orientation and existing employee safety meetings.	Employees receiving orientation	~~FM – Constr~~ CM
3-5	Distribute stormwater awareness brochures	None	UCA will continue to distribute materials on campus to promote stormwater awareness.	Number of brochures distributed	SWMC

Table 5-2. BMP Implementation: Public Participation/Involvement

Year	BMP	Current Status	Implementation	Measurable Goal	UCA Depts.
1	Stormwater Management Committee (SWMC)	Active	The SWMC will meet semi-annually (2 times per year). The group will review progress of BMPs, active construction site status, new development and other stormwater topics.	Number of meetings held	EHS, FM, ~~FM – Constr~~ CM, ESD, H, SGA, LC, ESB
2	Investigate the Arkansas Stream Team program	Active	Evaluate the potential for UCA to revitalize the Stream Team program	Commit volunteers to the Stream Team Program	EHS, ESD, ESB
3-5	Participate in community awareness events	Ongoing	Evaluate participation in Earth Day/ Eco Fest type activities. Provide a display and stormwater education materials at appropriate on-campus events.	Number of events attended	ESD, SGA, EHS, ESB
4	Write Articles	None	Provide articles for publication on different aspects of stormwater awareness. Articles to be published at least annually.	Number of articles written	EHS, SGA, ESD, ESB

Table 5-3. BMP Implementation: Illicit Discharge Detection and Elimination

Year	BMP	Current Status	Implementation Details	Measurable Goal	UCA Depts.
1	Develop a plan to address illicit discharges.	Active	Develop and implement a stormwater/illicit discharge plan to locate problem areas, find the source and remove/correct illicit connections.	Documentation of actions taken	EMS
1	Develop an inspection checklist for outfalls	Ongoing	Develop a program and checklist for visual inspection of stormwater outfalls.	Checklist	EMS
1-5	Visual inspection of outfalls during dry weather	Ongoing	Inspect and identify illicit discharges (IDs) identified by this program and report to EH&S for follow-up as necessary.	Report of inspections performed	EMS
1	Develop a map of stormwater conveyance system for UCA	Active	Develop an initial map of the stormwater conveyance system including outfalls and receiving streams.	Map	FM
1-5	Monitor Outfalls	Ongoing	Inspect all outfalls during the term of the permit.	Inspection Report	EHS
2-3	Refine map of stormwater conveyance system for UCA	Ongoing	Additional detail and flows shall be added.	Updated Map	FM, EMS,
1-5	Coordinate with the City of Conway	Ongoing	Conway is an adjacent MS4 and will be sent a copy of the annual report, which would include any illicit influents or discharges.	Submit annual report to City of Conway	EMS
1	Review local controls on occasional nonstormwater discharges	Ongoing	Review and document in the SWMP any local controls or conditions placed on occasional incidental non-stormwater discharges.	Documented review	EMS
1	Review campus sources of non-stormwater discharges	Ongoing	Review campus for sources of listed non-stormwater discharges as possible significant contributors of pollutants. Look for occasional incidental non-stormwater discharges.	Number of trainings	EMS

Table 5-4. BMP Implementation: Construction Site Stormwater Runoff Control

Year	BMP	Current Status	Implementation Details	Measurable Goal	UCA Depts.
1	Update UCA specifications to address construction erosion and sediment control requirements	Contract language exists	Review will address erosion and sedimentation control requirements, and require that construction contractors be responsible for filing under the General Permit. Contractors will be required to submit a Stormwater Pollution Prevention Plan (SWPPP) to the Project Manager. Specifications will be included in the contracts for construction projects.	Completed SWPPP for each construction contract disturbing over one (1) acre	~~FM – Constr~~ CM, EMS, LC
1	Develop SWPPP outline for construction contractors.	Active	EMS will develop a Site Specific SWPPP skeleton and the construction contractor will develop the site specific SWPPPs.	SWPPP outline available for contractors	EMS/ ~~FM – Constr~~ CM
1	Develop a procedure for receipt and consideration of public inquiries	Active	Develop procedures for the receipt and consideration of public inquiries, concerns, and information regarding construction activities. Create a tracking tool for these receipts.	Receipts of inquiries	EMS
1-5	100% Site plan review for construction contracts.	Ongoing	Review site plans for all projects disturbing over one acre of land.	Number of plans reviewed	EMS/ ~~FM – Constr~~ CM
1-5	Monthly inspection of construction sites	Project Manager responsible	Develop a checklist of items to be included in routine inspections of construction sites.	Number of inspections and violations	~~FM – Constr~~ CM, EMS/
2-5	Enforcement of non-compliance with stormwater requirements	Project Manager responsible	Provide enforcement mechanism for non-compliance of contractors with stormwater discharge requirements. This will involve coordination of Construction Contract Coordinator, EHS, UCA legal department	Enforcement policies and procedures established	EHS/ ~~FM – Constr~~ CM, LC

Table 5-5. BMP Implementation: Post-Construction Stormwater

Year	BMP	Current Status	Implementation Details	Measurable Goal	UCA Depts.
1	Contract language for specifications for stormwater management in post construction phase.	Active	Identify appropriate contract language to address post construction requirements for stormwater managements for construction projects.	Contract modification completed	EMS, ~~FM – Constr~~ CM, LC
1-5	Design review to include consideration of structural BMPs	Ongoing	Promote improved water quality by use of porous pavement, filter strips, artificial wetlands, grassy swells and rain gardens	Number of designs reviewed	EMS ~~FM – Constr~~ CM
2	Develop policies for non-structural BMPs	Active	Develop policies that provide requirements and standards to direct growth to identified areas	Approval of policies for sensitive areas, open space, buffers, impervious surfaces	EMS
3-5	Enhance the design review cycle to include other UCA departments associated with stormwater quality	Ongoing	Expand the design review group to include the SWMC, grounds, engineering, and other relevant organizations	Other Departments included	~~FM – Constr~~ CM

Table 5-6. BMP Implementation: Pollution Prevention/Good Housekeeping

Year	BMP	Current Status	Implementation Details	Measurable Goal	UCA Depts.
1	Street sweeping	Existing	Review existing street sweeping program	Frequency	FM
1-5	Inspection of parking lots	Existing	Parking lot inspections will be conducted and work orders written for storm drain maintenance	Number of parking lot inspections	FM
1-5	Trash cleanup	Existing	Trash pickers are employed to pick up trash around campus areas.	Hours of trash pickup	FM
1-5	Recycling	Existing	Recycling collection sites are available for aluminum cans, paper, and scrap metal.	Record volume of materials collected	FM
1-5	Provide Physical Plant employees training	Ongoing	Train appropriate employees on storm water, waste management and recycling programs	Number of personnel trained	EHS/FM
2	Establish procedures for new flood management projects	None	Assess new flood management projects for impacts on water quality and existing projects are assessed for incorporation of additional water quality protection devices or practices.	Number of projects reviewed	EMS
2	Review storm drain maintenance and cleaning program	Clean-up after each storm event	Update the master list of stormwater conveyances, and outfalls, establish a maintenance schedule, and initiate additional maintenance as needed.	Institute a preventive maintenance workorder outline periodic cleanout	FM

Table 7-1. BMP Implementation: Construction Sites ~~FM – Constr~~ CM

Years	BMP	Current Status	Implementation Details	Measurable Goal	UCA Depts.
Non-Structural					
1-5	Minimizing Disturbance	Existing	Continue existing program	Acres disturbed	~~FM – Constr~~ CM
1-5	Preserving Natural Vegetation	Existing	Preserve as much of the natural vegetation as possible by replanting or preserving removed vegetation	Number of plants preserved/replanted	~~FM – Constr~~ CM
1-5	Good Housekeeping Practices	Existing	Daily pick up trash on the site	Hours of trash pickup	~~FM – Constr~~ CM
Structural					
1-5	Erosion Control	Existing	Use mulch, grass or other stabilizing materials to minimize soil loss	Area covered	~~FM – Constr~~ CM
1-5	Sediment Control	Existing	Install silt fencing, drain protection, dams, sediment traps as needed to prevent washing of soil. Stabilize construction entrances.	Number of locations and/or measures taken	~~FM – Constr~~ CM
1-5	Inspect sediment controls and drains associated with construction sites after a Storm event	Clean as needed following storm event	Identify sediment controls, conveyances, and outfalls associated with the construction site	Number of inspections, debris removed	~~FM – Constr~~ CM