

UNIVERSITY OF NORTH ALABAMA
MUNICIPAL SEPARATE STORM SEWER (MS4)
STORM WATER MANAGEMENT PROGRAM
ANNUAL REPORT

April 1, 2024 – March 31, 2025

NPDES Permit No. ALR040063

UNIVERSITY OF NORTH ALABAMA
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Certification Statement

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Evan Thornton, CFO
Vice President,
Business and Financial Affairs

05/02/2025

Date

- i. Primary Contacts – University of North Alabama, 1660 Tune Ave., Florence, AL 35630
 - Angela Zwissler – Director, Environmental Health and Safety, 256-765-4804, azwissler@una.edu
 - Cindy Conlon – Associate Vice President, Facilities Administration and Planning, 256-765-4293, chconlon@una.edu
 - Kevin Hudson – Director, Capital Planning, Design & Construction, 256-765-7902, kchudson@una.edu
 - Alan Dison – Director, Facilities Operations, Special Projects, 256-765-4871, adison1@una.edu
 - Kendra White – Director, Facilities Administration & Support Services, 256-764-4944, kwhite15@una.edu
- ii. Overall evaluation of the Storm Water Management Program developments and progress
 - a. Major accomplishments
 - i. UNA now has 2 certified Ornamental & Turf Pest Control Supervisors (OTPS) to conduct and supervise the application of pesticides and herbicides, an increase from previous years. An additional candidate is in training.
 - b. Overall program strengths/weaknesses
 - i. Strengths
 1. UNA has motivated and dedicated leadership to ensure the overall success of the Storm Water Management Program Plan.
 2. UNA works in collaboration with the City of Florence to support each other's Storm Water Management Programs.
 3. UNA employs a Grounds crew and their duties include daily outdoor litter collection.
 4. UNA employs 2 certified Ornamental & Turf Pest Control Supervisors (OTPS) to conduct and supervise the application of pesticides and herbicides
 5. UNA has a recycling program.
 6. The campus' Director of Environmental Health and Safety is on the Board of Directors for *Keep The Shoals Beautiful*.
 - ii. Weaknesses
 1. Campus growth can alter methods of communication. Staying current with deleted and new communication methods is challenging.
 2. Maintaining soil on construction job sites during rain events has presented challenges this reporting year.
 - c. Future direction of the program
 - i. UNA is striving to find additional opportunities to involve more campus and community personnel. Strengthening the partnerships with the Muscle Shoals National Heritage Association (MSNHA) and *Keep The Shoals Beautiful* are focus areas.
 - ii. Utilizing *The Big Deal* as a Public Education resource has been identified as an effective method of educating campus personnel during the first week of Fall classes. A booth is reserved and training materials have been prepared for this event.

- d. Overall determination of the effectiveness of the Storm Water Management Program Plan regarding water quality/watershed improvements.
 - i. Dry Screen Monitoring and quarterly Municipal Facilities inspections indicate that UNA's Storm Water Management Program Plan is effective. Sediment, litter, and oil are the top pollutants of concern. Litter on campus was infrequently noted during inspections or observed in campus conveyances.
- e. Measurable goals that were not performed and reasons why the goals were not accomplished.
 - i. Not applicable.
- f. Results of monitoring data evaluation.
 - i. Not applicable.
- iii. Narrative report and assessment of all minimum control measures. Parts a. through e. describe the five minimum control measures, goals, progress, and an assessment of the progress. Section III identifies the controls planned for the next reporting cycle.
 - a. **Public Education and Public Involvement of Storm Water Impacts**
 - 1. Input From the Public

An announcement was sent through UNA's twice weekly newsletter, the *Digest*, on Nov. 20, 2024, informing the campus community that their input was welcome in the development, revision, and implementation of the SWMPP. No input was received.
 - 2. Public Education
 - i. Public Education was conducted in the form of distributing *Choose to Recycle* literature and UNA Stormwater Pollution Prevention brochures at the following three events:
 - a. Jazz It Up with Your Recyclables, Sheffield Public Library, July 19, 2024
 - b. UNA Institute for Learning in Retirement Event/Tour, Oct. 23, 2024
 - c. Tennessee River Litter Tournament, Nov. 2, 2024

The targeted pollutant sources for these events was primarily litter. Target populations include campus students and residents, employees and the surrounding community.

 - ii. The training brochures were updated (to reflect UNA current branding) and printed (Figure 1). They were distributed during Public Education events, Public Involvement events, and distributed on UNA's campus.

The targeted pollutant sources include litter, sediment, and oil. Target populations include campus students and residents, employees, and the surrounding community.

 - iii. Related stormwater pollution prevention posters are also utilized during Public Education events (Figure 2). A total of 10 education/awareness posters were distributed to campus bulletin boards.

The targeted pollutant sources include litter, sediment, and oil. Target populations include campus students, campus residents, and employees.

- iv. The Clean Campus Poster Contest, a partnership with Keep The Shoals Beautiful, has a target audience of K-3rd and 4th-6th grade students in Lauderdale and Colbert County schools. Litter was the targeted pollutant source. The 2024 slogan was "From the Shoals to the Shore, No More Litter in 2024!". The contest spanned both reporting years 2023-2024 and 2024-2025; a similar education event also occurred during the March-April 2025 time period. The contest announcement and winning poster are shown in Figures 3 and 4.

Figure 1, Page 1



Figure 1, Page 2

What is Stormwater Runoff?

Stormwater runoff occurs when precipitation from rain or snowfall flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.

Why is it a problem?

Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a creek, river or lake. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for drinking water, swimming, boating, and fishing.



STORMWATER RUNOFF ENDS UP IN LOCAL STREAMS, CREEKS, RIVERS AND LAKES.

Effects of Pollution

- Hazardous household products like insecticides, pesticides, paint, solvents, and used motor oil can poison aquatic life.
- Polluted stormwater can affect drinking water sources.
- Sediment clouds the water and makes it difficult for aquatic plants to grow; it can destroy aquatic habitats.
- Litter, including plastic bags, cans, bottles, and cigarette butts, washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Nutrients applied in excess cause algae blooms. When algae die, they sink and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low levels of dissolved oxygen.
- Bacteria and pathogens washed into swimming areas can create health hazards.

IF IT GETS ON THE GROUND, IT CAN GET INTO THE WATER. NO ONE WANTS TO DRINK FROM OR SWIM IN POLLUTED WATER.



Figure 2



Figures 3 and 4, Poster Contest Announcement and Winning Poster



3. Public Involvement Activities to Address the Reduction Litter, Floatables, and Debris
UNA groups sponsored and participated in several public involvement activities which are listed in Table 1. Participants included members from the community and from a variety of campus student organizations and departments. Original sign-in sheets are available for review in the Environmental Health and Safety Department.
- i. The targeted pollutant source was litter. Target populations include campus students and residents, employees, and the surrounding community.

Table 1

Event Title, Date	Achievements
Cypress Creek Cleanup, June 15, 2024	22 UNA and community participants
Tennessee River Litter Tournament, November 2, 2024	23 UNA and community participants

Tennessee River Litter Tournament, November 2, 2024



Evaluation of the Effectiveness of the Control: This minimum control measure is effective. The partnership with Keep The Shoals Beautiful and the Muscle Shoals National Heritage Association helped to improve campus and community involvement through an increase in the number of sponsored clean up events. This Minimum Control Measure allowed for frequent and meaningful activity related to UNA's Storm Water Management Program Plan. No BMP revisions are planned for this measurable goal.

b. Illicit Discharge Detection and Elimination (IDDE) Program

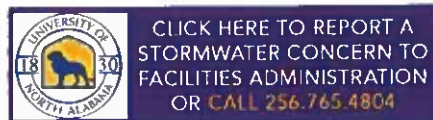
- i. The map of campus outfalls is found in Attachment 1.
- ii. UNA conducted dry weather screening at all (4) outfalls, listed below, each with a discharge to Unnamed Tributary to Cypress Creek:
 - Grounds/Environmental Services Building(1)
 - Parking Lot W, Cedar St. (1)
 - East Campus (2)

Dry Weather Screening indicates that no pollutants were observed being discharged at the outfalls. The RY 2024-2025 Dry Weather Screening Forms are located in Attachment 2.

- iii. The IDDE regulatory mechanism was reviewed and no changes were necessary. It is located in the Illicit Discharge Detection and Elimination folder on the Storm Water Management page: <https://una.edu/facilities/environmental-health-and-safety/storm-water-management.html>.

- iv. Affected Facilities Department personnel (Maintenance, Environmental Services, Grounds, and Project Managers) were trained on the identification, reporting, and corrective actions of illicit discharges by taking *UNA's Storm Water Management Plan Training* (Attachment 3) during March 2025. The training also covers details of UNA's Storm Water Management Program Plan and describes ways to reduce and eliminate pollution. A list of the employees who completed the training is located in Attachment 4, Annual Training Roster. Refresher training was conducted during the month of March 2025.

The Storm Water Management Program training informs the trainees of the negative consequences associated with illicit discharges and improper disposal of waste. The concerned person can either call Facilities Administration and Planning at 256-765-4804 or send an email by clicking on the link shown below on the Storm Water page on the UNA website (<https://una.edu/facilities/environmental-health-and-safety/report-a-storm-water-concern.html>).



There were no reported illicit discharges during this reporting cycle. Three new storm drain markers were installed post-construction by the new storm drains in the Computing and Mathematics building's parking lot.

Assessment of the Control: This minimum control measure was determined to be effective. No BMP revisions are planned for this measurable goal.

c. Construction Site Storm Water Runoff Control

- i. The applicable regulatory mechanism is outlined in the Division of Construction Management guidelines (https://dcm.alabama.gov/PDF/forms/C-8_Gen_Cond.pdf). No revisions occurred or are planned.

ii. Active construction sites and # of inspections during the reporting period:

Project	Permit #/) Termination Date, if applicable)	# of construction site inspections	# of non-compliant construction site referrals/enforce- ment actions	# of construct- ion site runoff complaints received	MS4 ² staff/ inspectors trained
UNA Mathematics Bldg	ALR10C2JM (May 2025)	ADEM ¹ - 0 QCI - 4 UNA-1	0	0	0
UNA Bank Independent Stadium, (Eff. Date: 6-14-24)	ALR10C5D6	ADEM - 1 QCI-9 UNA- 10	1	0	0
UNA Residence Hall, (Eff. Date: 11-8-24)	ALR10C5ZA	ADEM - 1 QCI-8 UNA-5	1	0	0

¹ADEM – Alabama Department of Environmental Management

² Municipal Separate Storm Sewer System

Contracted inspectors possess QCI qualifications.

Construction Site Discrepancies

Bank Independent Stadium: 3-11-25: CPI - Core Inspection Program E-CSW-005138 - Northern boundary cut slope is failing causing slumping and dirt is getting into storm gutter where there was no inlet protection found. West boundary cut slope is starting to form an erosion gully, needs stabilizing; Offsite tracking occurring at Pine St. entrance.

Residence Hall: 2-11-25: Self-report via Form 025: HQA-JKFY-YBT4F - Due to an exceptional rain event, sediment left the site.

Assessment of the Control: This minimum control measure needs improvement. It is recommended that UNA Project Managers and Contractors focus on instituting more robust methods of containing soil on the job sites as well as maintaining stable sloped areas.

d. Post-Construction Storm Water Management in New Development and Redevelopment

- i. The applicable regulatory mechanism can be found outlined in the Division of Construction Management guidelines (https://dcm.alabama.gov/PDF/forms/C-8_Gen_Cond.pdf).

- ii. Post Construction Controls Inventory. There were no changes to the Inventory because no projects resulted in the installation of post-construction controls.
- iii. Post Construction Inspections. Two post-construction inspections of BMPs and controls were conducted at the following locations:
 - Subsurface detention chamber, Parking Lot M, Circular Rd. (1)
 - Detention Basin, Parking Lot W, Cedar St. (1)

Assessment of the Control: This minimum control measure was determined to be effective. No BMP revisions are planned for this measurable goal. There were no enforcement actions during this period.

e. **Pollution Prevention/Good Housekeeping for Municipal Operations**

- i. The Municipal Facilities Inspection Form is shown in Attachment 5.

Table 2 - List of Municipal Facilities Inspected

1. 541 College St.	9. Cooling Tower - Behind Mane Market
2. Connie B. McKinney Center	10. Cooling Tower - Wesleyan Hall
3. Cooling Tower - Cramer Way	11. Fuel Pumps
4. Cooling Tower - Collier Library	12. Grounds Dept. Equipment Storage
5. Cooling Tower - ITS	13. Parking Deck and Lots
6. Cooling Tower - Flowers Hall	14. Science Building Mechanical Room
7. Cooling Tower - GUC	15. Steam Plant
8. Cooling Tower - Kilby School	16. Vehicle Maintenance

ii. **Estimate of Floatables Collected/Litter Reduction**

Grounds Department personnel are assigned to specific campus areas and one of their daily duties is to pick up litter. UNA also has a recycling program. Recycling containers are located in most campus buildings and are set up for large volume events like outdoor concerts and move-in days at the residence halls. Small cans are available in classrooms and hallways and there are 86 large containers that are picked up each week by the City of Florence



Recycling Department. UNA estimates that 10% of their recyclables could end up as floatables (e.g., beverage bottles and metal cans). Through this effort and based on previous container weights, UNA estimates that we prevented 3,012 pounds of floatable material from entering the MS4.

- iii. Inspections. Four quarterly *Inspections of Municipal Facilities with Potential to Discharge Pollutants via Storm Water Runoff* were conducted using the form in Attachment 5.
- iv. Good Housekeeping Standard Operating Procedures
The Standard Operating Procedures were reviewed and it was concluded that no changes were necessary (<https://una.edu/facilities/environmental-health-and-safety/docs/standard-operating-procedures-for-good-housekeeping-stormwater-practices-2021.docx.pdf>).

Assessment of the Control: This minimum control measure was determined to be effective based on the outcome of quarterly inspections. No BMP revisions are planned for this measurable goal.

iv. **Additional Information Required for the Annual Report**

- a. Summary table of the storm water controls that are planned/scheduled for the next reporting cycle.

Minimum Control Measure	Controls Planned/Scheduled
Public Involvement/Public Education	Continue to strengthen community partnerships and seek additional methods to increase public education and public involvement.
Illicit Discharge Detection and Elimination	<ul style="list-style-type: none"> Continue to maintain/keep current the training matrix which tracks training dates to ensure retraining happens annually (<i>UNA's Storm Water Management Plan Training</i>). Survey construction sites at work's completion to determine if storm drain markers need to be replaced.
Construction Site Runoff Control	Through regular inspections and spot checks, continue to ensure that Best Management Practices follow the elements outlined in the Alabama Handbook for Erosion Control, Sediment Control and Storm water Management on Construction Sites and Urban Areas (https://www.dot.state.al.us/dsweb/divPed/Stormwater/pdf/AlabamaHandbookforErosionControl.pdf) and/or project-based CBMPP.
Post-Construction Management in New Development and Redevelopment	<ul style="list-style-type: none"> Continue to develop and document the inventory of post-construction structural controls. Ensure that a robust process exists for regular inspection and maintenance of post-construction structural controls as defined by the manufacturer, such as through a recurring preventive maintenance work order in the campus Work Order System, Limble.

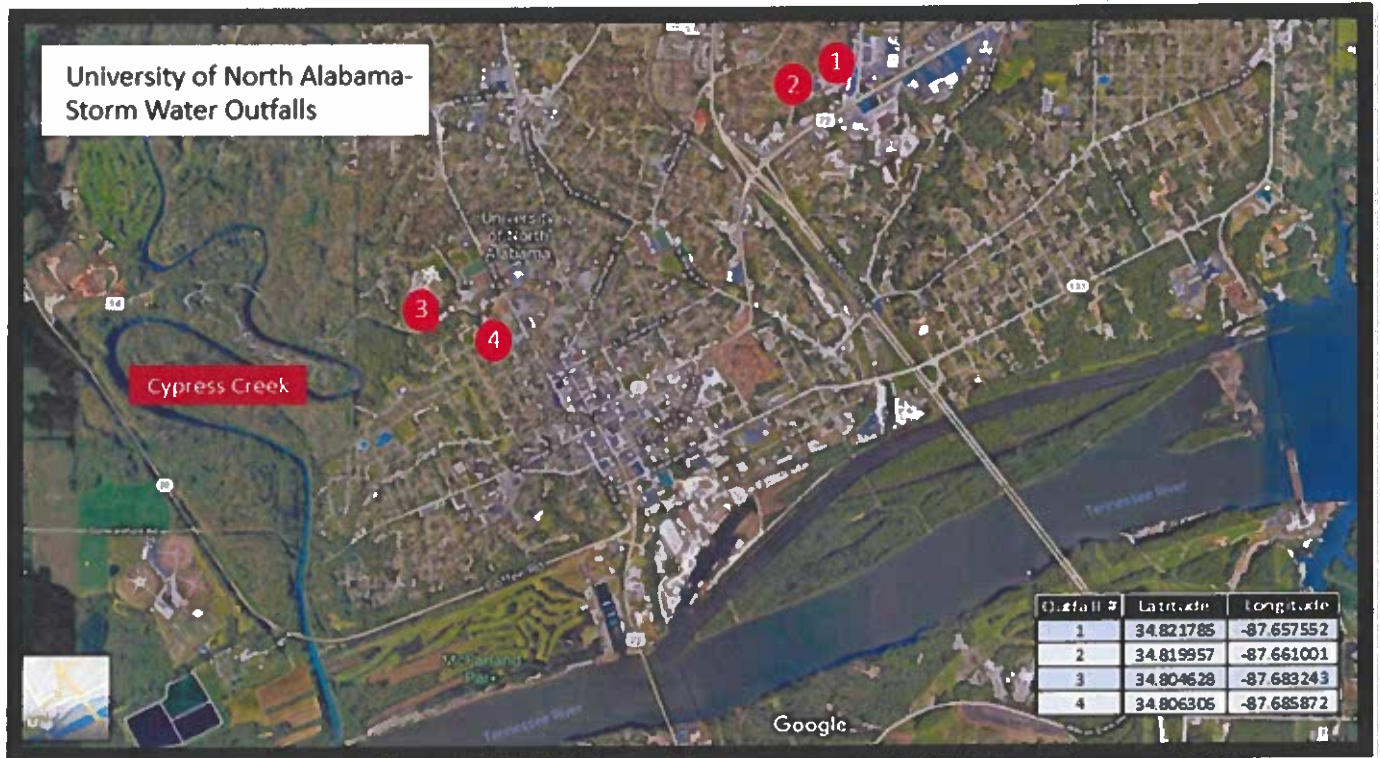
Continued, next page

Pollution
Prevention/Good
Housekeeping for
Municipal
Operations

- Through review and revision, ensure the municipal facility inventory and inspection processes accurately reflect campus activities, esp. after construction projects or renovations.
- Ensure all new Municipal Operations personnel are trained on the Storm Water Management Program and Storm Water Standard Operating Procedures and are added to the Training Matrix.

- b. Results of information collected and analyzed, if any, during the reporting period.
 - i. Not applicable.
- c. Notice of reliance on another entity to satisfy some of permit obligations.
 - i. Not applicable.
- d. Results of the evaluation to determine whether discharges from any part of the MS4 contribute directly or indirectly to a waterbody included on the latest 303(d) list.
 - i. The Environmental Protection Agency's 303(d) List of Impaired Waterways identifies mercury as a pollutant in Cypress Creek. UNA is not a contributor because mercury is atmospherically deposited by other regional sources. Therefore, UNA does not monitor its outfalls for mercury. We will continue to monitor 303(d) lists (<http://adem.alabama.gov/programs/water/303d.cnt>) on a quarterly basis to determine if UNA is a possible source for other pollutants.

ATTACHMENT 1 – UNIVERSITY OF NORTH ALABAMA MAP OF OUTFALLS



ATTACHMENT 2 – DRY WEATHER SCREENING FORM, 2025

2025 DRY WEATHER SCREENING

Page 1 of 9

Dry Weather Outfall Screening Form	
University of North Alabama	Outfall ID No.: 1
Date of screening (MM/DD/YY): 02-04-25	Outfall Location: 1660 Tune Ave., Florence, AL (Receiving entrance)
Weather conditions: Sunny, 74°F Last Rainfall: 01-31-25, 6 pm	Time of screening: 1:00 pm
Sampling performed by: Angela Zwissler	
Outfall Description	
Outfall Type/Material: Closed Pipe (check): <input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> HPDE <input type="checkbox"/> Other Open Channel (check): <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Grassy <input checked="" type="checkbox"/> Other	
Receiving stream and watershed name: Unnamed Tributary to Cypress Creek	
Land use/industries in drainage area: Residential, Commercial	
Latitude and Longitude: 34°48'22.0"N 87°41'12.1"W	
Field Observations and Measurements	
Flow from Outfall? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flow Description: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial	
Odor: <input checked="" type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Sulfide (rotten eggs) <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Easily Detected <input type="checkbox"/> 3-Noticable from a distance	
Color: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> White <input type="checkbox"/> Gray <input type="checkbox"/> Orange/Rust <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Brown/Black <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Clearly visible in bottle <input type="checkbox"/> 3-Clearly visible in flow	
Sediment/turbidity: <input checked="" type="checkbox"/> None <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque <input type="checkbox"/> Silty <input type="checkbox"/> Muddy <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Slight cloudiness <input type="checkbox"/> 2-Cloudy <input type="checkbox"/> 3-Opaque	
Floatables: <input checked="" type="checkbox"/> None <input type="checkbox"/> Litter <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Suds <input type="checkbox"/> Sewage <input type="checkbox"/> Other	
Relative severity: 0-None 1-Few/Slight 2-Some 3-Heavy	
Summary	
Outfall Potential for Illicit Discharge: <input checked="" type="checkbox"/> Unlikely - or - No Flow <input type="checkbox"/> Possible (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with severity of 2 or 3) <input type="checkbox"/> Obvious or confirmed	

2025 DRY WEATHER SCREENING

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Photos, Outfall #1



Where it exits
campus

2025 DRY WEATHER SCREENING

Page 3 of 9

Dry Weather Outfall Screening Form	
University of North Alabama	Outfall ID No.: 2
Date of screening (MM/DD/YY): 02-04-25	Outfall Location: 706 Waterloo Rd, Florence, AL
Weather conditions: <u>Overcast 70°F</u> Last Rainfall: <u>01-31-25, 6 pm</u>	Time of screening: 11:00 am
Sampling performed by: Angela Zwissler	
Outfall Description	
Outfall Type/Material: Closed Pipe (check): <input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> HPDE <input type="checkbox"/> Other Open Channel (check): <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Grassy <input type="checkbox"/> Other	
Receiving stream and watershed name: Unnamed Tributary to Cypress Creek	
Land use/industries in drainage area: Residential, University	
Latitude and Longitude: <u>34°48'22.0"N</u> <u>87°41'12.1"W</u>	
Field Observations and Measurements	
Flow from Outfall? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flow Description: <input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial	
Odor: <u>0</u> None <input type="checkbox"/> Sewage <input type="checkbox"/> Sulfide (rotten eggs) <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Easily Detected <input type="checkbox"/> 3-Noticable from a distance	
Color: <u>0</u> Clear <input type="checkbox"/> White <input type="checkbox"/> Gray <input type="checkbox"/> Orange/Rust <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Brown/Black <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Clearly visible in bottle <input type="checkbox"/> 3-Clearly visible in flow	
Sediment/turbidity: <u>0</u> None <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque <input type="checkbox"/> Silty <input type="checkbox"/> Muddy <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Slight cloudiness <input type="checkbox"/> 2-Cloudy <input type="checkbox"/> 3-Opaque	
Floatables: <input type="checkbox"/> None <input checked="" type="checkbox"/> Litter <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Suds <input type="checkbox"/> Sewage <input type="checkbox"/> Other	
Relative severity: 0-None 1-Few/Slight 2-Some 3-Heavy	
Summary	
Outfall Potential for Illicit Discharge: <input checked="" type="checkbox"/> Unlikely - or - No Flow <input type="checkbox"/> Possible (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with severity of 2 or 3) <input type="checkbox"/> Obvious or confirmed	

2025 DRY WEATHER SCREENING

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Photos, Outfall #2

Looking north toward
Flowers Hall



Looking south toward
Wildwood Park



2025 DRY WEATHER SCREENING

Page 5 of 9

Dry Weather Outfall Screening Form	
University of North Alabama	Outfall ID No.: 3
Date of screening (MM/DD/YY): 02-03-25	Outfall Location: East Campus-Decatur Ave, Florence, AL
Weather conditions: sunny, 74°F Last Rainfall: 01-31-25, 6 pm	Time of screening: 1:20 pm
Sampling performed by: Angela Zwissler	
Outfall Description	
Outfall Type/Material: Closed Pipe (check): <input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> HPDE <input type="checkbox"/> Other Open Channel (check): <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Grassy <input type="checkbox"/> Other	
Receiving stream and watershed name: Unnamed Tributary to Cypress Creek	
Land use/industries in drainage area: Residential	
Latitude and Longitude: 34°821798"N -87°657478"W	
Field Observations and Measurements	
Flow from Outfall? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flow Description: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial	
Odor: <input checked="" type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Sulfide (rotten eggs) <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Easily Detected <input type="checkbox"/> 3-Noticable from a distance	
Color: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> White <input type="checkbox"/> Gray <input type="checkbox"/> Orange/Rust <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Brown/Black <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Clearly visible in bottle <input type="checkbox"/> 3-Clearly visible in flow	
Sediment/turbidity: <input checked="" type="checkbox"/> None <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque <input type="checkbox"/> Silty <input type="checkbox"/> Muddy <input type="checkbox"/> Other	
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Slight cloudiness <input type="checkbox"/> 2-Cloudy <input type="checkbox"/> 3-Opaque	
Floatables: <input type="checkbox"/> None <input checked="" type="checkbox"/> Litter <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Suds <input type="checkbox"/> Sewage <input type="checkbox"/> Other	
Relative severity: 0-None 1-Few/Slight 2-Some 3-Heavy	
Summary	
Outfall Potential for Illicit Discharge: <input checked="" type="checkbox"/> Unlikely - or - No Flow <input type="checkbox"/> Possible (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with severity of 2 or 3) <input type="checkbox"/> Obvious or confirmed	

2025 DRY WEATHER SCREENING

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Photos, Outfall #3



2025 DRY WEATHER SCREENING

Page 7 of 9

Dry Weather Outfall Screening Form	
University of North Alabama	Outfall ID No.: 4
Date of screening (MM/DD/YY): 02-03-25	Outfall Location: Parking Lot W, Cedar St, Florence, AL
Weather conditions: sunny, 74°F Last Rainfall: 01-31-25, 6 pm	Time of screening: 2:00 pm
Sampling performed by: Angela Zwissler	

Outfall Description
Outfall Type/Material: Closed Pipe (check): <input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> HPDE <input type="checkbox"/> Other Open Channel (check): <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input checked="" type="checkbox"/> Grassy <input type="checkbox"/> Other
Receiving stream and watershed name: Unnamed Tributary to Cypress Creek
Land use/industries in drainage area: Residential
Latitude and Longitude: 34°804966N -87°683554"W

Field Observations and Measurements
Flow from Outfall? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Flow Description: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial
Odor: <input checked="" type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Sulfide (rotten eggs) <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Other
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Easily Detected <input type="checkbox"/> 3-Noticable from a distance
Color: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> White <input type="checkbox"/> Gray <input type="checkbox"/> Orange/Rust <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Brown/Black <input type="checkbox"/> Other
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Faint <input type="checkbox"/> 2-Clearly visible in bottle <input type="checkbox"/> 3-Clearly visible in flow
Sediment/turbidity: <input checked="" type="checkbox"/> None <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque <input type="checkbox"/> Silty <input type="checkbox"/> Muddy <input type="checkbox"/> Other
Relative severity: <input type="checkbox"/> 0-None <input type="checkbox"/> 1-Slight cloudiness <input type="checkbox"/> 2-Cloudy <input type="checkbox"/> 3-Opaque
Floatables: <input type="checkbox"/> None <input checked="" type="checkbox"/> Litter <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Suds <input type="checkbox"/> Sewage <input type="checkbox"/> Other
Relative severity: 0-None 1-Few/Slight 2-Some 3-Heavy

Summary
Outfall Potential for Illicit Discharge: <input checked="" type="checkbox"/> Unlikely - or - No Flow <input type="checkbox"/> Possible (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with severity of 2 or 3) <input type="checkbox"/> Obvious or confirmed

2025 DRY WEATHER SCREENING

Page 8 of 9

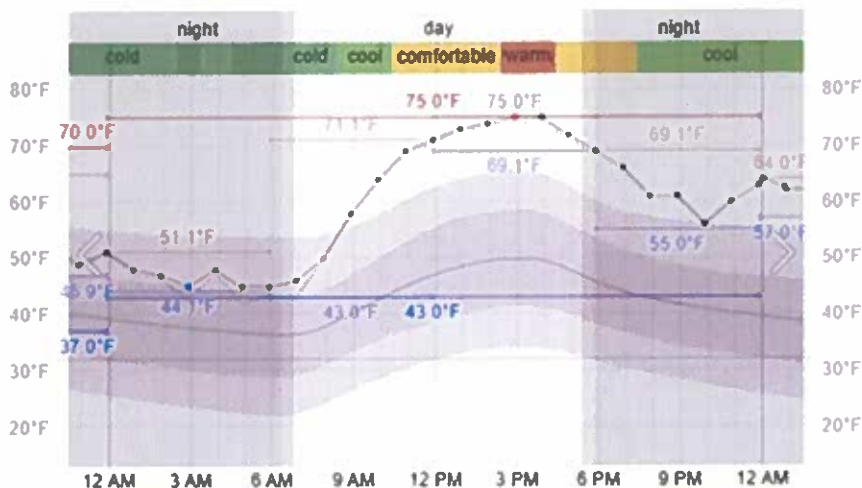
Photo, Outfall #4



2025 DRY WEATHER SCREENING

Page 9 of 9

Temperature on Monday, February 3, 2025 in Florence

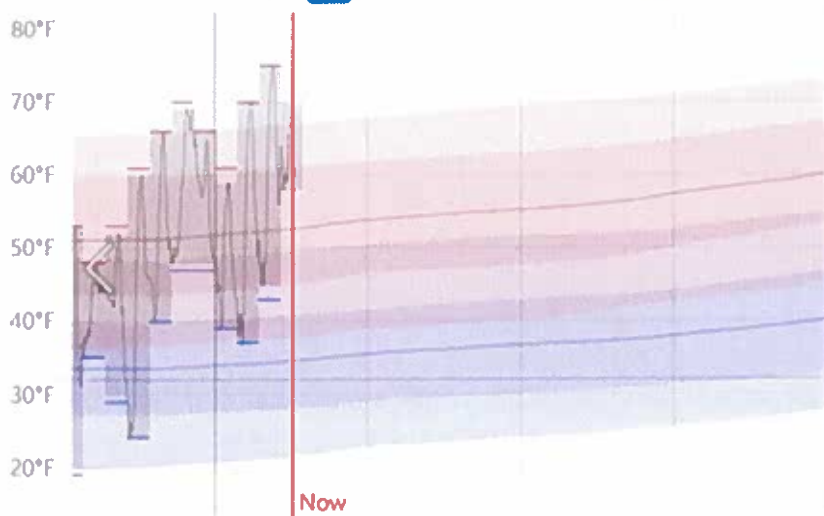


You're permitted to use this graph as long as you provide prominent attribution with a link back close to the use of the graph. For example: [WeatherSpark.com](https://www.weatherSpark.com)

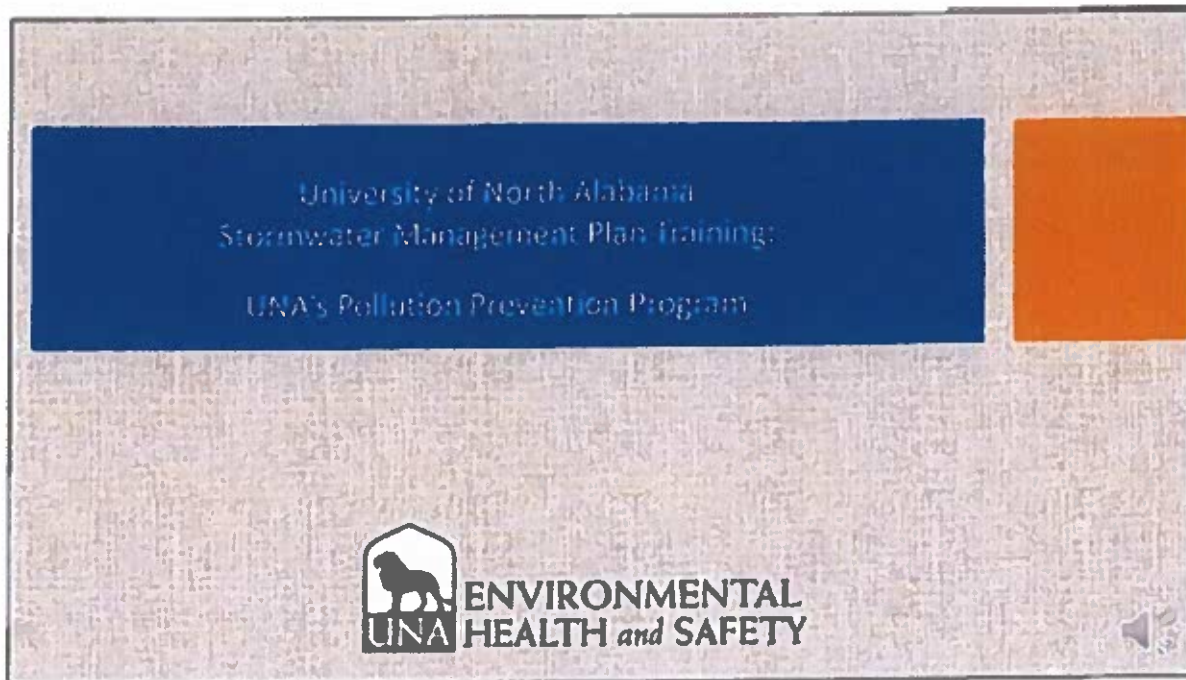
Weather for February 4, 2025

Florence Temperature History February 2025

← Winter 2025 [Link](#) [Download](#) [Compare](#) [Average](#)
History: J Feb M A M J J A S O N D 2024 2023 2022 2021



ATTACHMENT 3 - ANNUAL TRAINING MATERIAL



Why are we receiving this training?

- The Alabama Department of Environmental Management (ADEM) has granted the University coverage under a Phase II Small MS4¹ General Permit.
- Permit Requirements
 - Develop a Stormwater Management Program Plan (SWMPP)
 - ✓ The SWMPP requires that training be provided to the campus community on methods of preventing litter, floatables and debris from entering the MS4.


¹ MS4 = Municipal Separate Storm Sewer System

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Refresher Training

You will receive refresher training every year.



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This training will cover:

1. Why does this topic apply to UNA: What is an MS4?
2. Methods of preventing litter and debris from entering the MS4
3. Identification of storm drains
4. Illicit discharges and their impact
5. Steps you can take to reduce stormwater pollution

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Your work impacts stormwater pollution

1. How you perform your work has an impact on UNA's ability to comply with its Stormwater Permit.
2. Also consider your contractors for both small jobs and large construction projects. If they do not perform correctly, negative consequence can apply to UNA as well as the contractor.

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Your work impacts stormwater pollution

1. How you perform your work has an impact on UNA's ability to comply with its Stormwater Permit.
2. You should also consider your contractors for both small jobs and large construction projects. If they do not perform correctly, negative consequence can apply to UNA as well as the contractor.
 - **Ensure your contractors know how to be successful before work begins.**

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Ensure your contractors know how to be successful before work begins

1. Is there potential for pollutants, sediment, or chemicals to reach a storm drain? Look downhill.
 - How will they contain pollutants and/or protect storm drains?
 - How often will you, the contractor's contact, be monitoring performance?
2. Housekeeping is important. Will they remove trash and chemicals from campus?
3. Do they understand the possible consequences for not following UNA's requirements?

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MS4 - Municipal Separate Storm Sewer System

What is an MS4?

A conveyance or system of conveyances that is:

- Designed or used to collect or convey stormwater
- Owned by a public entity that discharges to waters of the U.S.
- Not a part of a combined sewer or Publically Owned Treatment Works (POTW)

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Examples of conveyances

A conveyance is designed or used to collect or convey stormwater

- Roads with drainage systems
- Municipal streets
- Catch basins
- Curbs
- Man-made channels
- Ditches
- Gutters
- Storm drains



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Why is UNA an MS4¹?

The University is an institution which houses students and is considered to be a small city within a city.

¹ MS4 = Municipal Separate Storm Sewer System



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How is stormwater pollution created?

When it rains, water that is not absorbed into the ground or intercepted by vegetation flows over land, streets and other conveyances into storm drains. This flow is called runoff.



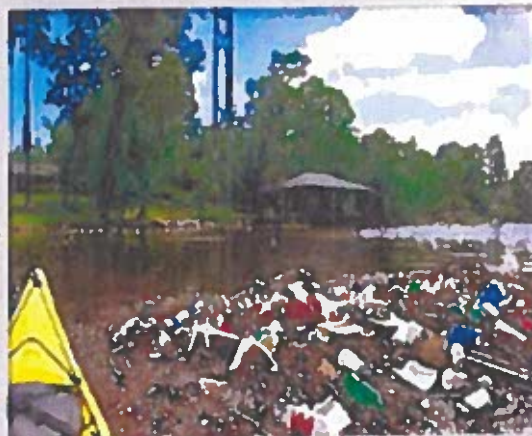
How is stormwater pollution created?

Runoff and any pollutants it picks up along the way...



How is stormwater pollution created?

...flows untreated into
creeks, rivers, and
coastal water.



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Examples of pollutants

• Litter



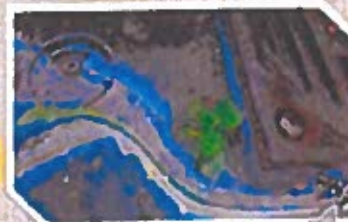
• Fertilizer



• Chemical-containing process water



• Oil



• Sediment



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What does this mean for UNA?

- Stormwater pollution can end up in Cypress Creek and the Tennessee River.
- These bodies of water provide:
 - a source of drinking water
 - a habitat for fish and other wildlife
 - a place of swimming, fishing, and boating



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Effects of pollution

- Hazardous products can poison aquatic life.
- Polluted stormwater can affect drinking water sources.
- Sediment in runoff clouds the water and makes it difficult for aquatic plants to grow which destroys aquatic habitat.



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Effects of pollution




- Litter can choke, suffocate, or disable ducks, fish, turtles, and birds.

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Effects of pollution



- Litter can choke, suffocate, or disable ducks, fish, turtles, and birds.
- Bacteria and pathogens from pet waste washed into swimming areas can create health hazards.

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Effects of pollution



- Litter can choke, suffocate, or disable ducks, fish, turtles, and birds.
- Bacteria and pathogens from pet waste washed into swimming areas can create health hazards.

- Fertilizer applied in excess can cause algae blooms. When algae die, they sink and decompose in a process that removes oxygen from the water. Aquatic organisms can't exist in water with low levels of dissolved oxygen.



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How to work in a compliant manner

1. Be aware of storm drain locations
2. Recognize pollution sources
3. Take appropriate actions

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How to identify storm drains

The University has applied storm drain markers on curb storm drains throughout campus.



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How to identify storm drains

There are other walk-over/drive-over drains that are just as important as the marked drains.

Keeping litter and debris out of these is also critical to our Stormwater Management Plan.



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Best Management Practices (BMPs)

1. Put nothing in the storm drain
2. Do not create litter/pick up litter
3. Repair leaking vehicles
4. Store chemicals away from street and storm drains
5. Do not discharge chemical-containing water to a location that can reach the storm drains.



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Standard Operating Procedure Training

UNIVERSITY OF NORTH ALABAMA STORMWATER MANAGEMENT PROGRAM
GOOD HOUSEKEEPING STANDARD OPERATING PROCEDURES

Date: April 1, 2024 SOP Review and Update: Annual
Prepared By: James E. Smith, Jr., Director
Purpose: Establish a good operating procedure for good housekeeping and to provide the means of performing the good housekeeping

TITLE	PAGE
1. Good Housekeeping Introduction	1
2. Purpose of the Program	2
3. Minimum Storage Facilities and Storage Areas	3
4. Equipment and Vehicle Washing	3
5. Vehicle and Equipment Maintenance and Repairs	3
6. Safety Procedures	4
7. Management of Hazardous Waste	4
8. Fuel and Oil Handling and Recovery	5
9. Storage and Disposal of Hazardous Materials, Petroleum Products and Other	6
10. Vegetation Control, Erosion Control and Control of Construction	6

Based on job duties,
some personnel receive
additional training on
**GOOD HOUSEKEEPING
STANDARD OPERATING
PROCEDURES.**

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Additional ways you can make a difference:

- Participate with UNA personnel in a pollution reduction project such as the *Citywide Clean-Up Day* or *Tennessee River Litter Tournament*.



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Illicit discharges and their impact



- Illicit discharges are discharges that are not entirely composed of stormwater, except those authorized by our Stormwater Permit.
- Like other forms of pollution, these are potentially harmful and must be avoided.

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Illicit discharges look like:



- Pouring waste material in a storm drain.
- It can also look like a hose or pipe with clear, transparent liquid coming out onto the pavement. The discharge may contain process chemicals.

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Report illicit discharges



CLICK HERE TO REPORT A
STORMWATER CONCERN TO
FACILITIES ADMINISTRATION
OR CALL 256.765.4804

If you observe a suspected or actual illicit discharge, you should contact Facilities Administration and Planning by clicking on the link at the Stormwater page, or calling the phone number listed.

<https://una.edu/facilities/environmental-health-and-safety/storm-water-management.html>

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It may take extra effort to comply, but the results are worth it.



Thank you for your participation!

- Questions and comments about the University's Stormwater Management Plan are welcome.
- Contact the Department of Environmental Health and Safety at 256-765-4804.



ATTACHMENT 4 – ANNUAL TRAINING ROSTER

Stormwater Management Plan Training (1071770)

	Student	Grade	ID	SIS Login ID	Section
1	Beckman, William	100	11178	wbeckman	Environmental Health and Safety 2025
2	Brewer, Darrell	100	98968	dbrewer2	Environmental Health and Safety 2025
3	Brewer, Tina R	100	86640	tbrewer5	Environmental Health and Safety 2025
4	Broussard, Gerald	100	92830	gbroussard	Environmental Health and Safety 2025
5	Burton, James	100	4547	jburtan1	Environmental Health and Safety 2025
6	Butler, Joseph	100	4078	jabutler1	Environmental Health and Safety 2025
7	Casey, Brenda	100	4386	bdcasey1	Environmental Health and Safety 2025
8	Castle, Shannon	100	126676	scastle1	Environmental Health and Safety 2025
9	Clephas, Jay	100	102141	jclophas	Environmental Health and Safety 2025
10	Coffman, Marion	100	27445	mcoffman2	Environmental Health and Safety 2025
11	Cook, Glenda	100	59030	gcCook5	Environmental Health and Safety 2025
12	Cooper, Randle	100	4517	ricoper	Environmental Health and Safety 2025
13	Elom, Matthew	100	4468	melom	Environmental Health and Safety 2025
14	Erkkson, Pamela	100	59012	perickson	Environmental Health and Safety 2025
15	Feek, Sarah Hopie	100	100325	sfeek	Environmental Health and Safety 2025
16	Fields, Keith	100	4052	kafields	Environmental Health and Safety 2025
17	Finley, William	100	4127	wbfinley	Environmental Health and Safety 2025
18	Ford, Leslie	100	117408	lford6	Environmental Health and Safety 2025
19	Gregory, Andy	100	123692	agregory5	Environmental Health and Safety 2025
20	Harden, Dwayne	100	94821	dharden1	Environmental Health and Safety 2025
21	Hart, Jeremy	100	4658	jwhart	Environmental Health and Safety 2025
22	Hodge, Hayden	100	126669	hhodge2	Environmental Health and Safety 2025
23	Hooper, Vince	100	114420	vhooper	Environmental Health and Safety 2025
24	Hudson, Kevin	100	20086	kchudson	Environmental Health and Safety 2025
25	Lamar, Steven	100	123693	slamar2	Environmental Health and Safety 2025
26	Landrum, Jamie	100	4412	jlalandrum	Environmental Health and Safety 2025
27	Lopez, Servando	100	51399	slopez	Environmental Health and Safety 2025
28	Malone, Christopher A	100	98967	cmalone11	Environmental Health and Safety 2025
29	McCroskey, Cassandra	100	66142	cmccroskey1	Environmental Health and Safety 2025
30	McLaughlin, Calvin	100	59033	cmclaughlin1	Environmental Health and Safety 2025
31	Michael, Dewey	100	102142	dmichael2	Environmental Health and Safety 2025
32	Miller, Adrian	100	115159	amiller38	Environmental Health and Safety 2025
33	Montgomery, Darrell	100	100711	dmontgomery6	Environmental Health and Safety 2025
34	Montgomery, Kirk	100	102319	pmontgomery1	Environmental Health and Safety 2025
35	Murphy, Danny	100	66192	dmurphy3	Environmental Health and Safety 2025
36	Murphy, David	100	4513	dcmurphy	Environmental Health and Safety 2025
37	Murphy, Tracy	100	4429	trmurphy	Environmental Health and Safety 2025
38	Parker, Beverley	100	59011	bparker5	Environmental Health and Safety 2025
39	Parker, Marcus	100	95656	mparker21	Environmental Health and Safety 2025
40	Parker, Roy C	100	69157	rparker7	Environmental Health and Safety 2025
41	Peeden, Bradley	100	3945	bbpeeden	Environmental Health and Safety 2025

Stormwater Management Plan Training (1071770)

	Student	Grade	ID	SIS login ID	Section
42	Perason, Christina	100	66143	cpearson1	Environmental Health and Safety 2025
43	Perkins, Elsa	100	27435	eperkins	Environmental Health and Safety 2025
44	Pettus, Tammy	100	77691	tpettus2	Environmental Health and Safety 2025
45	Phillips, Donald	100	4049	diphillips	Environmental Health and Safety 2025
46	Price, Mickey	100	4645	mdprice	Environmental Health and Safety 2025
47	Rhodes, Garland	100	59028	grhodes	Environmental Health and Safety 2025
48	Sams, Benjamin	100	114600	bsams1	Environmental Health and Safety 2025
49	Shook, Brian	100	59009	bshook1	Environmental Health and Safety 2025
50	Shook, Hannah	100	69884	hshook1	Environmental Health and Safety 2025
51	Simbeck, Jullious	100	27459	jsimbeck	Environmental Health and Safety 2025
52	Simmons, Justin	100	120557	jdimmers1	Environmental Health and Safety 2025
53	Simmons, Michael	100	77754	msimmons9	Environmental Health and Safety 2025
54	Siro, Wungathing	100	117494	wsiro	Environmental Health and Safety 2025
55	Smith-Moore, Amy	100	100850	asmithmoore	Environmental Health and Safety 2025
56	Stults, Jeremiah	100	27448	jstults	Environmental Health and Safety 2025
57	Taylor, Larry	100	12432	ltaylor6	Environmental Health and Safety 2025
58	Terry, Dathan	100	103722	dterry10	Environmental Health and Safety 2025
59	Thompson, Cameron	100	28096	cthompson14	Environmental Health and Safety 2025
60	Thompson, Michael	100	98037	mthompson37	Environmental Health and Safety 2025
61	Thompson, Ronita	100	27460	rthompson13	Environmental Health and Safety 2025
62	Wallace, Tony	100	4596	tkwallace	Environmental Health and Safety 2025
63	Watkins, Phillip	100	59053	pwatkins2	Environmental Health and Safety 2025
64	White, Kendra	100	66221	kwhite15	Environmental Health and Safety 2025
65	Wood, Justin T	100	72006	jwood11	Environmental Health and Safety 2025
66	Woods, LaTonya	100	59008	lwoods3	Environmental Health and Safety 2025
67	Young, Kelly	100	59048	kyoung14	Environmental Health and Safety 2025

ATTACHMENT 5 – MUNICIPAL FACILITIES INSPECTION FORM

MUNICIPAL FACILITIES INSPECTION

Conducted by: Angela Zwissler

Date: _____

Purpose: Inspect locations with potential for stormwater pollution discharge for good housekeeping practices and BMPs, per UNA SWMPP and NPDES Permit

Instructions: Document inspection at least once/quarter. File in EHS Central Files. "Yes" means that the elements are satisfactory for the location. "NI" means the element(s) needs improvement and follow-up is required.

	Location	Good HHS BMPs	Comments (use reverse if needed)	Action Taken (use reverse if needed)	Comple- tion Date
1	541 College St.				
2	Cooling Tower - 601 Cramer Way				
3	Cooling Tower - Collier Library				
4	Cooling Tower - ITS				
5	Cooling Tower - Flowers Hall				
6	Cooling Tower - GUC				
7	Cooling Tower - Kilby School				
8	Cooling Tower - Belland Mine Market				
9	Cooling Tower - Wesleyan Hall				
10	Connie B. McKinney Center				
11	Fuel Pumps				
12	Grounds Dept. Equipment Storage				
13	Parking Deck and Lots				
14	Science Mechanical Room				
15	Steam Plant				
16	Vehicle Maintenance				