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Alabama Department of Environmental Management
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(334) 271-7700 ■ FAX (334) 271-7950

April 5, 2024

Ms. Cheryl Mowdy
The University of Alabama
PO Box 870142
Tuscaloosa, AL 35487

RE: **UIC PERMIT NUMBER ALSI9963040**
University of Alabama MS4 Ph II
10th Avenue & Paul Bryant Drive
Tuscaloosa, Tuscaloosa County, AL

Dear Ms. Mowdy:

A **Draft** copy of the permit is enclosed for your review.

If you have any comments on the draft permit, please submit them to this office **within the next thirty (30) days** so that any issues of concern might be resolved.

If you have any questions concerning this permit, please contact me at (334) 271-7959 or jessica.spence@adem.alabama.gov.

Sincerely,

A handwritten signature in cursive script that reads "Jessica Spence".

Jessica Spence
UIC Program

Enclosure

JS/

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608-1211
(251) 304-1176
(251) 304-1189 (FAX)



UNDERGROUND INJECTION CONTROL PERMIT

PERMITTEE: University Of Alabama

FACILITY/LOCATION: University of Alabama MS4 Ph II
10th Avenue & Paul Bryant Drive
Tuscaloosa, Tuscaloosa County, Alabama
Lat: N 33.205846°/Long: W -87.549972°

PERMIT NUMBER: ALSI9963040

INJECTION WELL CLASS: Class V

SOURCE OF POLLUTANTS: Injection of stormwater runoff through a subsurface stormwater basin.

In accordance with and subject to the provisions of the Safe Drinking Water Act, as amended, 42 U.S.C. §§ 300f-300j (the "SDWA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14, (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§ 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to construct and operate injection well(s) of the above-described class.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

PART I Authorization to Operate

- A. The permittee is authorized to operate a Class V Injection Well, at the facility described in the permit application and in the cover page of this permit, in accordance with the provisions set forth in this permit.
- B. This permit and the authorization to inject shall remain in effect until the expiration date stated on the cover page of this permit. If the permittee desires to continue injection past the expiration date of this permit, the permittee shall request a permit reissuance at least 180 days prior to expiration of this permit.

PART II Injection Well Requirements

- A. The authorized injection well is defined as the subsurface stormwater basin identified in the permit application dated June 4, 2019. The injection well shall be located beneath the Tutwiler Triangular Lot at the intersection of 10th Avenue and Paul Bryant Drive.
- B. Only stormwater runoff described in the original permit application shall be injected. Injection of sewage, industrial waste or other waste(s) is prohibited.
- C. Approval by ADEM shall be obtained prior to modification of any injection well or supporting surface. Modification shall mean any action that will change the configuration of the well beneath the surface, the methods of monitoring injection, or will result in injection of a fluid not specifically authorized by this permit.

PART III Monitoring and Operating Requirements

- A. Injection Fluid
 - 1. The permittee shall not inject any substance that is defined as hazardous or toxic by Federal or State laws or regulations or any substance not identified in the application for this permit. The proposed use of substances other than those identified in the permit application must be reviewed and approved by ADEM prior to use.
 - 2. The permittee shall monitor the stormwater prior to entering the injection well as specified in Appendix A of this permit.
- B. Groundwater Monitoring Requirements

The permittee shall sample the monitor and limit the groundwater as specified in Appendix B of this permit and in accordance with the Groundwater Monitoring Plan included in the permit application.
- C. ADEM may change the sampling requirements if the sampling data indicates a need to do so.
- D. Test Procedures

Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 of the Federal Register and guidelines published pursuant to Section 304(h) of the Federal Water Pollution Control Act (FWPCA). If more than one method of analysis of a substance is approved for use, a method having a detection limit lower than the permit limit shall be used. If the detection limit of

all methods is higher than the permit limit, the method having the lowest detection limit shall be used and a report of less than detection limit shall constitute compliance. However, should the Environmental Protection Agency (EPA) approve a method with a lower detection limit during the term of this permit the permittee shall use the newly approved method.

E. Operation

The permittee shall adopt the following best management practices:

1. Properly operate and maintain in good working order all treatment or control facilities or systems (and related appurtenances) installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the terms and conditions of this permit.
2. Comply with Federal, State, and local solid and liquid waste disposal regulations.
3. Solids or any other pollutant or other waste removed from the stormwater retention basins shall be managed in a manner that complies with all applicable ADEM rules and regulations.

F. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices.

PART IV Records, Reports, & Submittals

A. Records

1. The permittee shall record the information listed below for all monitoring activities:
 - a) The date, exact place, and time of sampling or sampling measurement(s);
 - b) The name of individual(s) who perform the sampling or measurement(s);
 - c) The date(s) analyses were performed;
 - d) The name of the individual(s) who performed the analyses;
 - e) The analytical or technical methods used;
 - f) The results of each analysis performed; and
 - g) The completed chain-of-custody forms for all samples collected.
2. The permittee shall retain all records concerning the data used to complete the permit application, the operation of the wells, and the nature and composition of pollutants

injected; to include records of the calibration of instruments, meters and gauges, quality control records, and recordings from continuous monitoring instrumentation for the previous three years of operation.

3. When requested by ADEM, the permittee shall deliver to the ADEM copies of any of the records maintained in accordance with this permit.

B. Reports

1. The reporting period for all monitoring performed under this permit shall be quarterly. Upon the effective date of this permit, the permittee shall submit not later than 28 days after the reporting period, a monitoring report which shall include:
 - a) The date and exact place, and time of sampling or sampling measurement(s);
 - b) The results of each analysis and measurement performed.
2. The permittee shall report to ADEM any of the following:
 - a) Any planned action which will change the use of the injection well, will result in injection of a fluid different from that authorized by this permit, will change the method of operations of any injection well, or will change the method of the monitoring of well operations or injected fluids.
 - b) Any planned transfer of ownership of all or part of the permitted facility.
 - c) Any relevant facts of which the permittee becomes aware which should have been submitted in a permit application and any corrections to data previously submitted in a permit application.
 - d) The Permittee shall report to the Department, the local county health department, and any other affected entity such as public water systems, within 24- hours of becoming aware of any spill or discharge to the stormwater injection well system. A written report shall be submitted no later than five (5) days after becoming aware of the occurrence of such discharge and shall include the following information:
 - (i) A description of the discharge
 - (ii) The period over which the discharge occurred, including exact dates and times or, if not corrected, the anticipated time the discharge is expected to continue; and
 - (iii) A description of the steps taken to reduce or eliminate the discharge and to prevent its reoccurrence.
3. Within 30 days upon the effective date of this permit the permittee must enroll and participate in the Department's Alabama Environmental and Permitting Compliance System (AEPACS) (<https://adem.alabama.gov/aepacs>). Once the permittee is enrolled in the system, the permittee must utilize the system for the submittal of DMRs. If the system is down due to technical problems originating with the Department's system, the permittee

is not relieved of the obligation to submit DMR data by the required submittal date via faxing, e-mailing, mailing.

4. Studies, engineering reports, plans and specifications, plugging and abandonment plans, logging reports, and other technical documents submitted to comply with this permit shall be prepared by or under the supervision of qualified persons defined by the Underground Injection Control (UIC) Regulations of ADEM.

PART V Spill Prevention, Control and Management

The Permittee shall prepare, implement and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 CFR Part 112 for potential spills which could enter the injection well system. The Permittee shall implement appropriate structural and/or non-structural spill prevention, control and/or management to address any spills of pollutants potentially entering the injection well system. The Permittee shall maintain onsite or have readily available sufficient oil & grease absorbing material and flotation booms to contain and clean up fuel or chemical spills and leaks. Soil contaminated by chemical spills, oil spills, etc. must be immediately cleaned up, remediated or be removed and disposed of in a Department approved manner. The Permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation of this permit, including such accelerated or additional monitoring of the stormwater discharge and/or the receiving injection well as necessary to determine the nature and impact of the noncomplying discharge.

PART VI Plugging and Abandonment

The permittee shall perform any abandonment and closure actions that may be required by ADEM to remove a threat to groundwater quality or to the health of persons which is caused by the injection activity.

PART VII Permit Modification, Revocation, Suspension, and Termination

- A. ADEM may impose emergency additional conditions to this permit when necessary to protect waters of the state from pollution. These conditions may include suspension of the permit to inject and shall remain in effect until the permit is modified, revoked, suspended or terminated in accordance with the UIC Regulations of ADEM.
- B. Non-emergency permit modification, revocation, suspension, and termination actions shall be accomplished in accordance with ADEM Administrative Code Rule 335-6-8.

PART VIII General Provisions

- A. The permittee shall comply with all provisions of the UIC Regulations of ADEM and shall comply with all provisions of this permit and shall reduce or halt injection if needed to maintain compliance with the permit and regulations.
- B. The permittee shall comply with all applicable Federal and State hazardous waste management regulations.
- C. The permittee shall allow members of ADEM staff to:

1. Access property and records of the permittee for purposes of inspection.
 2. Collect samples of the injected fluids, process and wastewater streams associated with the permitted injection wells.
 3. Collect samples from any monitoring wells.
 4. Obtain copies of records upon request.
- D. The permittee shall immediately take all reasonable steps to minimize or correct any adverse environmental impact resulting from the operation of the permitted injection wells.
- E. This permit does not convey any property rights of any sort, or any exclusive privilege.
- F. The filing of a request by the permittee for a permit modification, revocation, and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- G. Any noncompliance with this permit constitutes a violation of the Alabama Water Pollution Control Act and/or the UIC Regulations and is grounds for enforcement action such as permit termination, revocation, modification; or denial of a permit renewal application.
- H. Injection to waters of the state, which in this case is groundwater, in accordance with this permit shall not result in the exceedance of a Maximum Contaminant Level (MCL) as established by the Environmental Protection Agency. Injection to groundwater, in accordance with this permit shall not result in a violation of a surface water quality standard.
- I. All provisions of ADEM Admin. Code Rule 335-6-8-.12 are incorporated as terms and conditions of this permit by reference.
- J. The permittee authorized to discharge under this permit, who wishes to continue to discharge upon the expiration of this permit, shall submit an application for reissuance, using the Department's Alabama Environmental Permitting and Compliance System (AEPACS), unless the Permittee submits in writing valid justification as to why the electronic submittal process cannot be utilized and the Department approves in writing the utilization of hard copy submittals. The AEPACS can be accessed at the following link: <http://adem.alabama.gov/AEPACS>. Such application shall be submitted at least 180 days prior to the expiration date of this permit. Permit requests for initial issuance and modifications of the existing permit should all be submitted through the AEPACS system.

APPENDIX A

Stormwater entering the subsurface stormwater basin monitored by the permittee as specified below:

<u>STORMWATER INFLUENT CHARACTERISTICS</u>	<u>UNITS</u>	<u>STORMWATER LIMITS</u>	<u>MONITORING REQUIREMENTS FREQUENCY</u>	<u>SAMPLE TYPE</u>
Total Lead	µg/l	Report	Quarterly	Grab
Total Chromium	µg/l	Report	Quarterly	Grab
Total Aluminum	µg/l	Report	Quarterly	Grab
Benzene	µg/l	Report	Quarterly	Grab
Carbon Tetrachloride	µg/l	Report	Quarterly	Grab
1,2-Dichloroethane	µg/l	Report	Quarterly	Grab
Trichloroethylene	µg/l	Report	Quarterly	Grab
1,4-Dichlorobenzene	µg/l	Report	Quarterly	Grab
1,1-Dichloroethylene	µg/l	Report	Quarterly	Grab
1,1,1-Trichloroethan	µg/l	Report	Quarterly	Grab
Vinyl Chloride	µg/l	Report	Quarterly	Grab
cis-1,2-Dichloroethylene	µg/l	Report	Quarterly	Grab
1,2-Dichloropropane	µg/l	Report	Quarterly	Grab
Ethylbenzene	µg/l	Report	Quarterly	Grab
Chlorobenzene	µg/l	Report	Quarterly	Grab
1,2-Dichlorobenzene	µg/l	Report	Quarterly	Grab
Styrene	µg/l	Report	Quarterly	Grab
Tetrachloroethylene	µg/l	Report	Quarterly	Grab
Toluene	µg/l	Report	Quarterly	Grab
1,4-Dichloroethylene	µg/l	Report	Quarterly	Grab
Xylene (Total)	µg/l	Report	Quarterly	Grab
Dichloromethane	µg/l	Report	Quarterly	Grab
1,2,4-Trichlorobenzene	µg/l	Report	Quarterly	Grab
1,1,2-Trichloroethane	µg/l	Report	Quarterly	Grab
Benzo(a)pyrene	µg/l	Report	Quarterly	Grab
Benzo(b)fluoranthene	µg/l	Report	Quarterly	Grab

APPENDIX B

The groundwater monitoring well shall be limited and monitored by the permittee as specified below:

<u>GROUNDWATER CHARACTERISTICS</u>	<u>UNITS</u>	<u>DISCHARGE LIMITS</u>	<u>MONITORING REQUIREMENTS</u>	
			<u>FREQUENCY</u>	<u>SAMPLE TYPE</u>
Total Lead	µg/l	15	Quarterly	Grab
Total Chromium	µg/l	100	Quarterly	Grab
Total Aluminum	µg/l	Report	Quarterly	Grab
Benzene	µg/l	5	Quarterly	Grab
Carbon Tetrachloride	µg/l	5	Quarterly	Grab
1,2-Dichloroethane	µg/l	5	Quarterly	Grab
Trichloroethylene	µg/l	5	Quarterly	Grab
1,4-Dichlorobenzene	µg/l	75	Quarterly	Grab
1,1-Dichloroethylene	µg/l	7	Quarterly	Grab
1,1,1-Trichloroethan	µg/l	200	Quarterly	Grab
Vinyl Chloride	µg/l	2	Quarterly	Grab
cis-1,2-Dichloroethylene	µg/l	70	Quarterly	Grab
1,2-Dichloropropane	µg/l	5	Quarterly	Grab
Ethylbenzene	µg/l	700	Quarterly	Grab
Chlorobenzene	µg/l	100	Quarterly	Grab
1,2-Dichlorobenzene	µg/l	600	Quarterly	Grab
Styrene	µg/l	100	Quarterly	Grab
Tetrachloroethylene	µg/l	5	Quarterly	Grab
Toluene	µg/l	1,000	Quarterly	Grab
1,4-Dichloroethylene	µg/l	100	Quarterly	Grab
Xylene (Total)	µg/l	10,000	Quarterly	Grab
Dichloromethane	µg/l	5	Quarterly	Grab
1,2,4-Trichlorobenzene	µg/l	70	Quarterly	Grab
1,1,2-Trichloroethane	µg/l	5	Quarterly	Grab
Benzo(a)pyrene	µg/l	0.2	Quarterly	Grab
Benzo(b)fluoranthene	µg/l	Report	Quarterly	Grab
Chloroform	µg/l	80	Quarterly	Grab
trans-1,4-Dichloro-2-butene	µg/l	Report	Quarterly	Grab

ADEM Permit Rationale

Date: March 29, 2024
Prepared By: Jessica Spence

Permittee Name: University Of Alabama
c/o Ms. Cheryl Mowdy
PO Box 870142
Tuscaloosa, AL 35487

Facility/Site Name: University of Alabama MS4 Ph II

Location: 10th Avenue & Paul Bryant Drive
Tuscaloosa, Tuscaloosa County, AL 35487
Latitude: 33.205846/Longitude: -87.549972

UIC Permit Number: ALSI9963040

Draft permit is: Reissuance

Injection Description: Injection of stormwater runoff through a subsurface stormwater basin.

Discussion: Standard permit drafted.

1. No hazardous injection
2. Sampling point required
3. Stormwater influent must be sampled quarterly
4. Monitoring well must be sampled quarterly
5. Results must be submitted in a timely manner
6. Best Management Practices included in permit
7. AEPACS Participation Requirement
8. AEPACS required to be utilized for permit reissuances/modifications/transfers