STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT
for
UNDERGROUND INJECTION CONTROL

Permit No.	UI-0000040
Owner:	McLane/Midwest, Inc.
Address:	4747 McLane Parkway, Temple, TX 76504
Continuing Authority:	McLane/Ozark
Address:	2788 E. Sawyer Rd, Republic, MO 65738
Facility Name:	McLane Distribution Center - Republic
Facility Address:	2788 E. Sawyer Rd, Republic, MO 65738
Legal Description:	Sec. 03, T28N, R23W, Greene County
UTM Coordinates:	Centroid of project area X = 461271, Y = 4113051; two injection wells
Withdrawing Waterbody:	Groundwater (GW); Ozark Aquifer
Receiving Waterbody:	Groundwater (GW); Ozark Aquifer
USGS Basin & Sub-watershed No.:	Not Applicable

In compliance with the Safe Drinking Water Act and authorized by 40 CFR 147 Subpart AA which authorizes the Department to permit activities pursuant to underground injection; this permit does not apply to other regulated areas or to other regulated activities.

FACILITY DESCRIPTION

Heat pump; groundwater withdrawal and injection. Two high yield groundwater supply wells with 12” casings rated at 650 GPM each. Two injection wells with 10” casings to achieve a return rate equivalent to the maximum pump rate of the supply wells. Wells are located in the Ozark Aquifer. No surface discharge is associated with this project. Water is pumped out of the ground from the 12” wells, passed through a Geothermal Heat Pump for heating and air conditioning in the plant, and then re-injected underground via the 10” injection wells. No chemical addition. SIC # 4231; NAICS # 488490 This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned. Domestic wastewater is managed by sending to POTW.

May 1, 2024
Effective Date

April 30, 2029
Expiration Date

John Hoke, Director, Water Protection Program

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

UIC *#IW1 and #IW2*	**TABLE A-1** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**			
The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on **May 1, 2024** and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below:				
EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS	
		DAILY MAXIMUM	ANNUAL AVERAGE	MINIMUM MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M					
PHYSICAL					
Flow – Injection Well #1	MGD	*	*	once/year	24 hr. total
Flow – Injection Well #2	MGD	*	*	once/year	24 hr. total
MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE JANUARY 28, 2025.					

* Monitoring and reporting requirement only. The facility will report the maximum injection rate for any one day in millions of gallons per day, and the average for the year.

B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Part I standard conditions dated August 1, 2014, and hereby incorporated as though fully set forth herein.

C. UNDERGROUND INJECTION CONTROL REQUIREMENTS

1. In accordance with 40 CFR 144.26, the permittee shall submit a Class V Well Inventory Form for each active or new underground injection well drilled, or when the status of a well changes, to the Missouri Department of Natural Resources, Geological Survey Program, P.O. Box 250, Rolla, Missouri 65402. The Class V Well Inventory Form can be requested from the Geological Survey Program or can be found at the following web address: https://dnr.mo.gov/document-search/uic-class-v-injection-well-inventory-mo-780-1774 Only one submittal is required for the life of the Class V well.

2. Injection Well Requirements
   (a) Well drillers must hold a non-restricted permit and must be registered in Missouri per 10 CSR 23-5.060, be current, and in good standing.
   (b) All injection wells must be closed in accordance with 10 CSR 23-4.080.

3. Water pumped to and from the aquifer may only be used for purposes of heat exchange for the geothermal heating & cooling system. No process waters or wastewaters may be injected.

4. Disinfection of equipment after maintenance/repair/replacement. Equipment that comes into contact with water from the aquifer must be sanitized prior to being placed back into service to prevent contamination of the aquifer with bacteria. Follow the newest version of American National Standards Institute / American Water Works Association (ANSI / AWWA) Standard C654 – *Disinfection of Wells* to disinfect equipment and wells. Verification by bacteriological evaluation is recommended after disinfection work.

5. Report “operational shutdown” when injection does not occur during the entire reporting period.

6. The facility shall maintain all service and maintenance records for at least five years. These records shall be made available to Department personnel upon request.

7. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDWs). If the presence of any contaminant may cause a violation of primary drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e).

8. Requirements prior to abandonment.
   (a) The permittee shall submit a well abandonment plan to the Water Protection Program, which contains at least the details to comply with the following abandonment requirements:
      (1) The permittee shall close the well in a manner that prevents the movement of fluid containing any contaminant into an USDW, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR part 141 or may otherwise adversely affect the health of persons.
      (2) If the Department has determined that the proposed well abandonment plan is not acceptable to the site, the permittee must grout the well full length with neat cement or bentonite.
      (3) The permittee shall dispose of or otherwise manage any soil, gravel, sludge, liquids, or other materials removed from or adjacent to the well in accordance with all applicable Federal, State, and local regulations and requirements.
      (4) After a cessation of operations the permittee shall plug and abandon the wells in accordance with the plan unless the permittee:
         (i) Provides a written notice to the Water Protection Program that the well will be used within the next two years; and
         (ii) Describes actions or procedures, satisfactory to the Water Protection Program, that the owner or operator will take to ensure that the well will not endanger USDWs during the period of temporary abandonment. These actions and procedures shall include compliance with the technical requirements applicable to active injection wells unless waived by the Water Protection Program.

9. All injection wells and withdrawal wells must be clearly marked in the field.

D. Special Conditions

1. Spills, Overflows, and Other Unauthorized Discharges.
   (a) Any spill, overflow, or other discharge(s) not specifically authorized are unauthorized discharges.
   (b) If an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.

2. Electronic Discharge Monitoring Report (eDMR) Submission System. The NPDES Electronic Reporting Rule, 40 CFR Part 127, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as "WET Test Chronic Outfall 002 Jan 2023", or "Outfall004-DailyData-Mar2025".

3. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).

4. All records required by this permit may be maintained electronically. These records can be maintained in a searchable format.

5. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with Sections 301, 302, 306, 307, and 403 of the federal Clean Water Act, except for standards imposed under Section 307 for toxic pollutants injurious to human health, and with equivalent provisions of the Missouri Clean Water Law, in accordance with Section 644.051.16 RSMo and CWA §402(k). This permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under CWA §§301(b)(2)(C) and (D), §304(b)(2), and §307(a)(2), if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit, or controls any pollutant not already limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause, including determination new pollutants found in the discharge not identified in the application for the new or revised permit. The filing of a request by the facility for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.

6. Any discharges (or qualified activities such as land application) not expressly authorized in this permit, and not clearly disclosed in the permit application, cannot become authorized or shielded from liability under CWA section 402(k) or Section 644.051.16, RSMo, by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including any other permit applications, funding applications, the SWPPP, discharge monitoring reporting, or during an inspection. Submit a permit modification application, and an antidegradation determination if appropriate, to request authorization of new or expanded discharges.

7. Renewal Application Requirements.
   (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
   (b) Application materials shall include Form 780-1826 for UIC permit renewal.

E. Notice Of Right To Appeal

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to 621.250 and 644.051.6 RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal shall be directed to:

Administrative Hearing Commission
U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557
Jefferson City, MO 65102-1557
Phone: 573-751-2422
Fax: 573-751-5018
Website: https://ahc.mo.gov

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL OF
UI-0000040
MCLANE OZARK

This permit is issued under the authority of the Save Drinking Water Act, authorized by the EPA for State of Missouri administration at 40 CFR 147.1301 which incorporates portions of RSMo 644, 10 CSR 20-6, and 10 CSR 20-7 by reference. Per 40 CFR Part 124.8(a) and 10 CSR 20-6.020(1)(A)2 a factsheet shall be prepared to give pertinent information regarding applicable regulations, rationale for the development of limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or permit) listed below. A factsheet is not an enforceable part of a permit.

PART I. FACILITY INFORMATION

Facility Type:	Industrial: UIC
SIC Code(s):	4225, 5141
NAICS Code(s):	424410
Application Date:	04/14/2023
Expiration Date:	06/23/2016

FACILITY DESCRIPTION

Open loop heat pump; Two high yield groundwater supply wells with 12” casings rated at 650 GPM each. Two injection wells with 10” casings to achieve a return rate equivalent to the maximum pump rate of the supply wells. All of the wells are located in the Ozark Aquifer. No surface discharge is associated with this project. Water is pumped out of the ground from the 12” wells, passed through a Geothermal Heat Pump for heating and air conditioning in the plant, and then re-injected underground via the 10” injection wells.

UNDERGROUND INJECTION CONTROL (UIC)

Class V wells are sub-surface dispersal or injection of any industrial wastewater. The UIC program for Classes I though V is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to §§1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by 577.155 RSMo; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in 577.155 RSMo. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of any drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department will require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). Class VI wells are administered by the Environmental Protection Agency.

The Department implements additional requirements for these types of operations pursuant to 10 CSR 20-6.015(4)(A)1 which instructs the Department to develop permit conditions containing limitations, monitoring, reporting, and other requirements to protect soils, crops, surface waters, groundwater, public health, and the environment. This permit includes provisions necessary to protect groundwater.

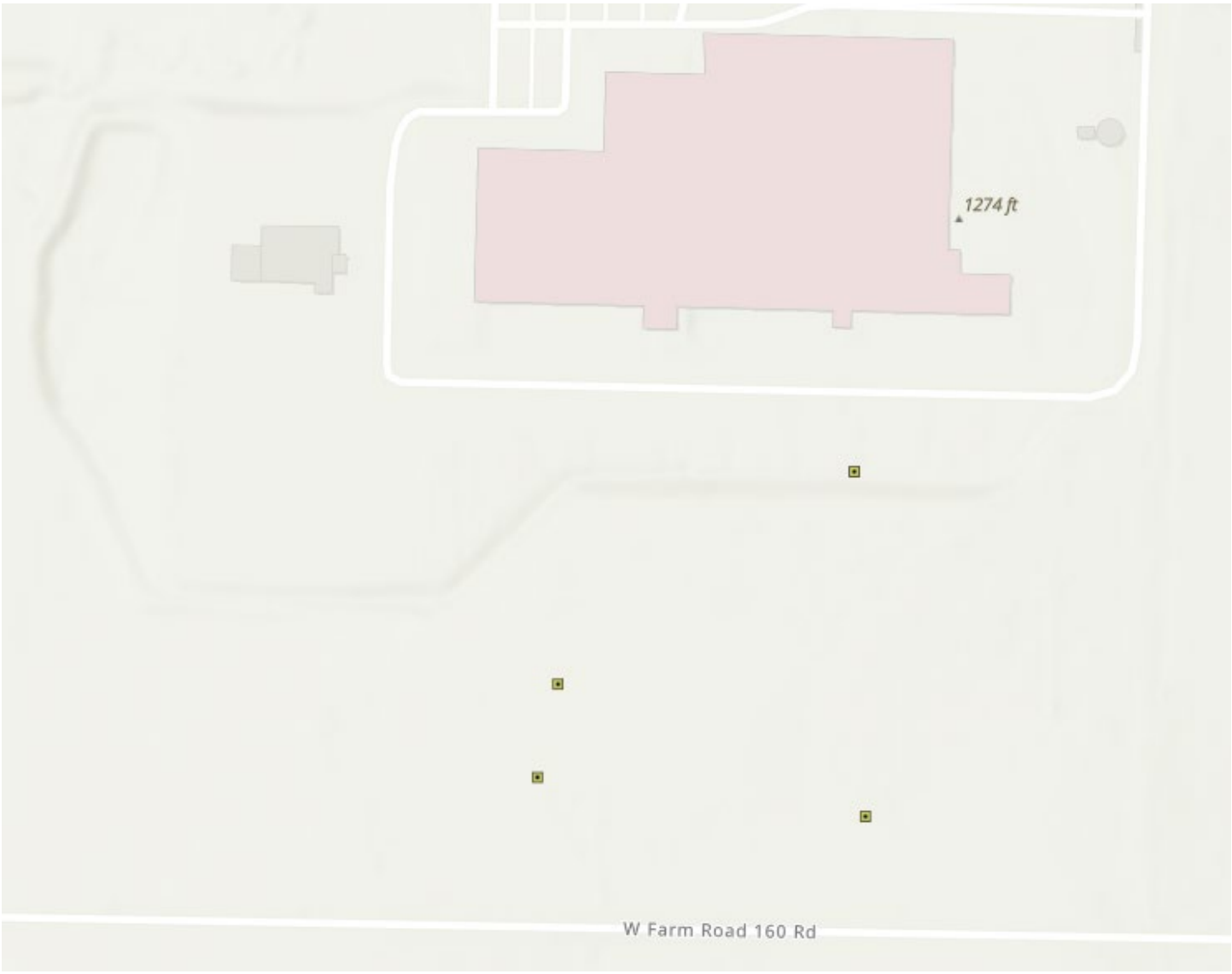
CONTINUING AUTHORITY

Pursuant to 10 CSR 20-6.010(2)(A) and (E), the Department has received the appropriate continuing authority authorized signature from the facility. The Missouri Secretary of State continuing authority charter number for this facility is X001383237; this number was verified to be associated with the facility on September 13, 2023.

OTHER ENVIRONMENTAL PERMITS

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other environmental permits currently held by this facility. This facility has a general stormwater permit, MOR80C568 for stormwater discharges associated with the transportation sector.

FACILITY MAP



Squares are heat pump wells; two injection, two withdrawal.

PART II. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

COMPLIANCE AND ENFORCEMENT

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

✓ Not applicable; the facility is not currently under Water Protection Program enforcement action.

DISCHARGE MONITORING REPORTING – ELECTRONIC (EDMR) SUBMISSION SYSTEM

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by requiring electronic data reporting. To comply with the federal rule, the Department is requiring all facilities to submit discharge monitoring data and reports online. To review historical data, the Department's database has a publically facing search engine, available at https://apps5.mo.gov/mocwis_public/dmrDisclaimer.do

Registration and other information regarding MoGEM can be found at https://dnr.mo.gov/mogem. Information about the eDMR system can be found at https://dnr.mo.gov/env/wpp/edmr.htm.The first user shall register as an Organization Official and the association to the facility must be approved by the Department. To access the eDMR system, use: https://apps5.mo.gov/mogems/welcome.action For assistance using the eDMR system, contact edmr@dnr.mo.gov or call 855-789-3889 or 573-526-2082. To assist the facility in entering data into the eDMR system, the permit describes limit sets designators in each

table in Part A of the permit. Facility personnel will use these identifiers to ensure data entry is being completed appropriately. For example, M for monthly, Q for quarterly, A for annual, and others as identified.

MAJOR WATER USER

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. https://dnr.mo.gov/water/business-industry-other-entities/reporting/major-water-users All major water users are required by 256.400 RSMo to register water use annually. https://dnr.mo.gov/document-search/frequently-asked-major-water-user-questions-pub2236/pub2236

- ✓ Applicable; this facility falls under the definition of major water user but is not yet registered with the Department. The facility must register with the Department. Registration can be completed at this website: https://apps5.mo.gov/MWU/activeDirectoryLogin.jsp

MODIFICATION REQUESTS

Facilities have the option to request a permit modification from the Department at any time under RSMo 644.051.9. Requests must be submitted to the Water Protection Program with the appropriate forms and fees paid per 10 CSR 20-6.011. It is recommended facilities contact the program early so the correct forms and fees are submitted, and the modification request can be completed in a timely fashion. Minor modifications, found in 40 CFR 122.63, are processed without the need for a public comment period. Major modifications, those requests not explicitly fitting under 40 CFR 122.63, do require a public notice period. Modifications to permits must be completed when: a new pollutant is found in the discharge; operational or functional changes occur which affect the technology, function, or outcome of treatment; the facility desires alternate numeric benchmarks; or other changes are needed to the permit.

Modifications are not required when utilizing or changing additives in accordance with the publication https://dnr.mo.gov/document-search/additive-usage-wastewater-treatment-facilities-pub2653/pub2653 nor are required when a temporary change or provisional discharge has been authorized by the regional office. While provisional discharges may be authorized by the regional office, they will not be granted for more than the time necessary for the facility to obtain an official modification from the Water Protection Program. Temporary provisional discharges due to weather events or other unforeseen circumstances may or may not necessitate a permit modification. The facility may ask for a Compliance Assistance Visit (CAV) from the regional office to assist in the decision-making process; CAVs are provided free to the permitted entity.

REGIONAL OFFICES (ROS)

Regional Offices will provide a compliance assistance visit at a facility's request; a regional map with links to phone numbers can be found here: https://dnr.mo.gov/about-us/division-environmental-quality/regional-office. Or use https://dnr.mo.gov/compliance-assistance-enforcement to request assistance from the Region online.

RENEWAL REQUIREMENTS

The renewal special condition permit requirement is designed to guide the facility to prepare and include all relevant and applicable information in accordance with 10 CSR 20-6.010(7)(A)-(C), and if applicable, federal regulations. The special condition may not include all requirements and requests for additional information may be made at the time of permit renewal under 644.051.13(5) RSMo and 40 CFR 122.21(h). Prior to submittal, the facility must review the entire submittal to confirm all required information and data is provided; it is the facility's responsibility to discern if additional information is required. Failure to fully disclose applicable information with the application or application addendums may result in a permit revocation per 10 CSR 20-6.010(8)(A) and may result in the forfeiture of permit shield protection authorized in 644.051.16 RSMo. Forms are located at: https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater

- ✓ This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
- ✓ The facility may email cleanwaterpermits@dnr.mo.gov to submit the application to the Program. A paper copy is not necessary if submitted via email. For larger applications, a drop-box type service may also be used.
- ✓ Application materials shall include complete Form UIC.

STANDARD CONDITIONS

The standard conditions Part I attached to this permit incorporate all sections of 10 CSR 20-6.010(8) and 40 CFR 122.41(a) through (n) by reference as required by law. These conditions, in addition to the conditions enumerated within the standard conditions must be reviewed by the facility to ascertain compliance with this permit, state regulations, state statutes, federal regulations, and the Clean Water Act.

PART III. EFFLUENT LIMIT DETERMINATIONS

INJECTION WELLS #001 AND #002

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	UNIT	DAILY MAX	ANNUAL AVERAGE	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW; EACH INJECTION WELL	MGD	*	*	NEW	ONCE/YEAR	ANNUALLY	24 HR. TOT

* monitoring and reporting requirement only

Flow
Per 40 CFR Part 122.44(i)(1)(ii) the volume of effluent discharged from each outfall is needed to ensure compliance with permitted effluent limitations. If the facility is unable to obtain effluent flow, then it is the responsibility of the facility to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total maximum daily flow and average in millions of gallons per day (MGD), this is a new reporting requirement.

PART IV. ADMINISTRATIVE REQUIREMENTS

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE
The Department shall give public notice a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in or with concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and facility must be notified of the denial in writing. https://dnr.mo.gov/water/what-were-doing/public-notices The Department must issue public notice of a draft operating permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wishing to submit comments regarding this proposed operating permit, please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments. All comments must be in written form.

✓ The Public Notice period for this operating permit was from March 8, 2024 through April 8, 2024. No comments were received.

DATE OF FACT SHEET: APRIL 9, 2024

COMPLETED BY:
PAM HACKLER, ENVIRONMENTAL ANALYST PROGRAM SCIENTIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - INDUSTRIAL UNIT
(573) 526-3386
pam.hackler@dnr.mo.gov

STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions
Section A – Sampling, Monitoring, and Recording

1. **Sampling Requirements.**
   a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
   b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

2. **Monitoring Requirements**.
   a. Records of monitoring information shall include:
      i. The date, exact place, and time of sampling or measurements;
      ii. The individual(s) who performed the sampling or measurements;
      iii. The date(s) analyses were performed;
      iv. The individual(s) who performed the analyses;
      v. The analytical techniques or methods used; and
      vi. The results of such analyses.
   b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.

3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

4. **Test Procedures**. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.

5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. **Illegal Activities.**
   a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
   b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. **Planned Changes.**
   a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
      i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
      ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
      iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
      iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

2. **Non-compliance Reporting.**
   a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

b. The following shall be included as information which must be reported within 24 hours under this paragraph.
   i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
   ii. Any upset which exceeds any effluent limitation in the permit.
   iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.

c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.

3. **Anticipated Noncompliance**. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.

4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.

5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.

6. **Other Information**. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

7. **Discharge Monitoring Reports.**
   a. Monitoring results shall be reported at the intervals specified in the permit.
   b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
   c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

Section C – Bypass/Upset Requirements

1. **Definitions.**
   a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
   b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
   c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2. **Bypass Requirements.**
   a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.
   b. Notice.
      i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
      ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
   c. Prohibition of bypass.
      i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
         1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
         2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
         3. The permittee submitted notices as required under paragraph 2. b. of this section.
      ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. **Upset Requirements.**
   a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
   b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
      i. An upset occurred and that the permittee can identify the cause(s) of the upset;
      ii. The permitted facility was at the time being properly operated; and
      iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
      iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
   c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
   a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
   b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement

imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed $10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $25,000. Penalties for Class II violations are not to exceed $10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $125,000.

d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed $10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. **Duty to Reapply.**
   a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
   b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
   c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)

3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

5. **Proper Operation and Maintenance**. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

6. **Permit Actions.**
   a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
      i. Violations of any terms or conditions of this permit or the law;
      ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
      iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
      iv. Any reason set forth in the Law or Regulations.
   b. 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.

7. **Permit Transfer.**
   a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
   b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
   c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.

8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
    a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
    b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
    c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
    d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

12. **Closure of Treatment Facilities.**
    a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
    b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.

13. **Signatory Requirement.**
    a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
    b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
    c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.

14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

rec'd 4/14/2023 AP 42148

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM WATER POLLUTION BRANCH
P.O. BOX 176, JEFFERSON CITY, MO 65102

FORM UIC – APPLICATION FOR CLASS V PERMIT

FOR AGENCY USE ONLY	
CHECK NO.	
DATE RECEIVED	FEE SUBMITTED

PART A – DO NOT ATTEMPT TO COMPLETE THIS FORM BEFORE READING THE ACCOMPANYING INSTRUCTIONS.

1.00 ACTION REQUESTED

☐ Con struction Permit Application ☑ Operating Permit Application

2.00 FACILITY INFORMATION

FACILITY NAME	TELEPHONE NUMBER
McLane Distribution Center - Republic	417-832-4000
ADDRESS	FAX NUMBER
2788 E. Sawyer Rd. Republic, MO 65738	

2.1 CONSTRUCTION PERMIT NUMBER, IF APPLICABLE

2.2 OPERATING PERMIT NUMBER, IF APPLICABLE
UI-0000040

2.3 FACILITY LOCATION (ATTACH A 1" = 2000' SCALE USGS TOPOGRAPHIC MAP SHOWING LOCATION)
SE ¼, NW ¼, Sec. 3 , TOWNSHIP 28N , RANGE 23W , COUNTY Greene

3.00 OWNER INFORMATION

OWNER NAME	TELEPHONE NUMBER
McLane Company, Inc.	254-771-7500
ADDRESS	FAX NUMBER
4747 McLane Parkway Temple, TX 76504	417-832-4040

4.00 CONTINUING AUTHORITY INFORMATION

NAME	TELEPHONE NUMBER
Chris Short	417-832-4003
ADDRESS	FAX NUMBER
2788 E. Sawyer Rd Republic, MO 65738	417-832-4040

5.00 FACILITY CONTACT INFORMATION

NAME	TITLE	TELEPHONE NUMBER
Chris Short	VPD	417-832-4003

6.00 GENERAL INFORMATION

6.1 BRIEF DESCRIPTION OF PURPOSE OF INJECTION. INCLUDE ANALYSES AND CONCENTRATIONS OF ANY POLLUTANTS TO BE REMEDIATED. (ATTACH A SEPARATE SHEET IF NECESSARY)
Geothermal System Well

6.2 BRIEF DESCRIPTION OF FACILITIES TO ACCOMPLISH INJECTION. ATTACH A SIMPLIFIED GEOLOGIC CROSS SECTION SHOWING DEPTH OF BEDROCK, DEPTH OF AQUIFERS, AND DEPTH OF INJECTION. ALSO ATTACH MATERIAL SAFETY DATA SHEETS FOR EACH OF THE INJECTED MATERIALS. IF INJECTION WELL IS TO BE CASED, PROVIDE SCHEMATIC.
Two high yeild groundwater supply wells with 12" casings rated at 650 GPM each. Two injection wells with 10" casings to acheive a return rate equivalent to the maximum pumprate of the supply wells. wells are located in the Ozark Aquifer. No discharge is associated with this project. Water is pumped out of the ground from the 12" wells, passed through a Geothermal Heat Pump for heating and air conditioning in the plant, and then re-injected undergound via the 10" injection wells.

6.3 IF BIOLOGICAL AGENTS ARE TO BE INTRODUCED IN THIS PROCESS, A BIOLOGICAL PROFILE AND LITERATURE RESEARCH MUST BE SUBMITTED WITH THIS APPLICATION.

6.4 WILL THIS PROCESS INVOLVE A HAZARDOUS WASTE AS DEFINED IN 10 CSR 25-4.010?
☐ YES ☑ NO

6.5 WILL THIS PROCESS RESULT IN DISCHARGE TO SURFACE WATER?
☐ YES ☑ NO If yes, an NPDES permit must be obtained.

6.00 GENERAL INFORMATION (CONTINUED)

6.6 HOW MANY TOTAL POUNDS OF CHEMICALS OR BIOLOGIC MATERIALS WILL BE INJECTED?

0

6.7 IF THIS INJECTION IS INTO AN AQUIFER, HOW WILL THE INJECTED CHEMICALS BE WITHDRAWN OR REDUCED TO INJECTION LEVELS?

N/A

6.8 IF THE CHEMICALS OR BIOLOGIC AGENTS TO BE INJECTED ARE ALREADY PRESENT IN THE GROUNDWATER, GIVE CONCENTRATIONS:

CHEMICAL/BIOLOGIC AGENT	PRE-INJECTION CONCENTRATION (mg/L)
1. 1.	
2. 2.	
3. 3.	

7.00 OTHER WELL TYPES ON SITE

YES	NO	TYPE	# AT LOCATION	WELL STATUS		
				ACTIVE	INACTIVE PLUGGED	INACTIVE NOT PLUGGED
☐	☑	ABANDONED WATER WELL		☐	☐	☐
☐	☑	AQUIFER RECHARGE WELL		☐	☐	☐
☐	☑	AQUIFER REMEDIATION WELL		☐	☐	☐
☐	☑	AUTOMOBILE SERVICE STATION DISPOSAL WELL		☐	☐	☐
☐	☑	GROUND SOURCE HEAT PUMP (OPEN LOOP)		☐	☐	☐
☐	☑	IMPROVED SINKHOLE		☐	☐	☐
☐	☑	INDUSTRIAL DRAINAGE WELL		☐	☐	☐
☐	☑	MINE BACKFILL WELL		☐	☐	☐
☐	☑	SEPTIC TANK WITH LATERAL FIELD THAT HAS THE POTENTIAL TO BE USED BY MORE THAN 20 PEOPLE PER DAY.		☐	☐	☐
☐	☑	OTHER		☐	☐	☐

7.1 WILL INJECTION WELLS BE CASED?

☑ YES ☐ NO

IF YES, A PERMIT MAY BE REQUIRED FROM THE DIVISION OF GEOLOGY AND LAND SURVEY, P.O. BOX 250, ROLLA, MO 65402-0250 OR CALL (573) 368-2143.

8.00 SIGNATURE INFORMATION

NAME AND OFFICIAL TITLE (TYPE OR PRINT)

Chris Hughey Maintenance Supervisor

TELEPHONE NUMBER

417-832-4041

SIGNATURE

DATE SIGNED

4/13/23

9.00 DATA

9.1 THIS SECTION MUST BE COMPLETED IF INJECTION IS INTO AN AQUIFER, IT MUST BE COMPLETED PRIOR TO INJECTION, AT LEAST ONE ANALYSIS MUST BE PREFORMED FOR EACH POLLUTANT LISTED. IF INJECTION IS NOT TO AN AQUIFER, SKIP AND GO TO PART 9.2.

POLLUTANT	MAXIMUM DAILY VAULE	
	CONCENTRATION	MASS
Biochemical Oxygen Demand (BOD)		
Chemical Oxygen Demand (COD)		
Total Organic Carbon (TOC)		
Ammonia as N		
Flow	VALUE	
Temperature (winter)	VALUE	
Temperature (summer)	VALUE	
pH	MINIMUM	MAXIMUM

9.2 MARK "X" IN COLUMN (a) FOR EACH POLLUTANT YOU KNOW OR HAVE REASON TO BELIEVE IS PRESENT. MARK "X" IN COLUMN (b) FOR EACH POLLUTANT YOU BELIEVE TO BE ABSENT. IF YOU MARK COLUMN (a) FOR ANY POLLUTANT, YOU MUST PROVIDE THE RESULTS OF AT LEAST ONE ANALYSIS FOR THAT POLLUTANT. COMPLETE ONE TABLE FOR EACH WELL. SEE THE INSTRUCTIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.

POLLUTANT AND CAS. NO. (IF AVAILABLE)	MARK "X"		MAXIMUM DAILY VALUE	
	(a) PRESENT	(b) ABSENT	CONCENTRATION	MASS
Bromide (24959-67-9)	☐	☑		
Total Residual Chloine	☐	☑		
Color	☐	☑		
Fecal Coliform	☐	☑		
Floride (16984-48-8)	☐	☑		
Nitrate/Nitrite (as N)	☐	☑		
Nitrogen, Total Organic (as N)	☐	☑		
Oil and Grease	☐	☑		
Total Phosphorus (as P) (7723-14-0)	☐	☑		
Radioactivity	☐	☑		
Alpha, Total	☐	☑		
Beta, Total	☐	☑		
Radium, Total	☐	☑		

9.00 DATA (CONTINUED)				
POLLUTANT AND CAS. NO. (IF AVAILABLE)	MARK "X"		MAXIMUM DAILY VALUE	
	(a) PRESENT	(b) ABSENT	CONCENTRATION	MASS
Sulfate (as SO^4) (14808-79-8)	☐	☑		
Sulfide (as S)	☐	☑		
Sulfite (as SO^3)	☐	☑		
Surfactants	☐	☑		
Aluminum, Total (7429-90-5)	☐	☑		
Barium, Total (7440-39-3)	☐	☑		
Boron, Total (740-42-8)	☐	☑		
Cobalt, Total (7440-48-4)	☐	☑		
Iron, Total (7439-89-6)	☐	☑		
Magnesium, Total (7439-95-4)	☐	☑		
Molybdenum, Total (7439-98-7)	☐	☑		
Manganese, Total (7439-96-5)	☐	☑		
Tin, Total (7440-31-5)	☐	☑		
Titanium, Total (7440-32-6)	☐	☑		
METALS, CYANIDE, AND TOTAL PHENOLS				
1M. Antimony, Total (7440-36-0)	☐	☑		
2M. Arsenic, Total (7440-38-2)	☐	☑		
3M. Beryllium, Total (7440-41-7)	☐	☑		
4M. Cadmium, Total (7440-43-9)	☐	☑		
5M. Chromium, Total (7440-47-3)	☐	☑		
6M. Copper, Total (7550-50-8)	☐	☑		
7M. Lead, Total (7439-97-6)	☐	☑		
8M. Mercury, Total (7439-97-6)	☐	☑		
9M. Nickel, Total (7440-02-0)	☐	☑		
10M. Selenium, Total (7782-49-2)	☐	☑		
11M. Silver, Total (7440-22-4)	☐	☑		
12M. Thallium, Total (7440-28-0)	☐	☑		
13M. Zinc, Total (7440-66-6)	☐	☑		
14M. Cyanide, Total (57-12-5)	☐	☑		
15M. Phenols, Total	☐	☑		
GC/MS FRACTION – VOLATILE COMPOUNDS				
1V. Acrolein (107-02-8)	☐	☑		
2V. Acrylonitrite (107-13-1)	☐	☑		
3V. Benzene (71-43-2)	☐	☑		
4V. Bis (Chloromethyl) Ether (542-88-1)	☐	☑		
5V. Bromoform (75-25-2)	☐	☑		
6V. Carbon Tetracholoride (56-23-5)	☐	☑		
7V. Cholorenzene (108-90-7)	☐	☑		

9.00 DATA (CONTINUED)				
POLLUTANT AND CAS. NO. (IF AVAILABLE)	MARK "X"		MAXIMUM DAILY VALUE	
	(a) PRESENT	(b) ABSENT	CONCENTRATION	MASS
8V. Cholodibromomethane (124-48-1)	☐	☑		
9V. Chloroethane (75-00-3)	☐	☑		
10V. 2-Chloroethylvinyl Ether (110-75-8)	☐	☑		
11V. Chloroform (67-66-3)	☐	☑		
12V. Dichlorobromomethane (75-27-4)	☐	☑		
13V. Dichlorodifluoromethane (75-71-8)	☐	☑		
14V. 1,1 – Dichloroethane (75-34-3)	☐	☑		
15V. 1,2 – Dichloroethane (107-06-2)	☐	☑		
16V. 1,1 – Dichloroethylene (75-35-4)	☐	☑		
17V. 1,2 – Dichloropropane (78-87-5)	☐	☑		
18V. 1,2 – Dichloropropylene (542-75-6)	☐	☑		
19V. Ethylbenzene (100-41-4)	☐	☑		
20V. Methyl Bromide (74-83-9)	☐	☑		
21V. Methyl Chloride (74-87-3)	☐	☑		
22V. Methylene Chloride (75-09-2)	☐	☑		
23V. 1,1,2,2 – Tetrachlorothane (79-35-4)	☐	☑		
24V. Tetrachloroethylene (127-18-4)	☐	☑		
25V. Toluene (106-88-3)	☐	☑		
26V. 1,2 – Trans Dichloroethylene (156-60-5)	☐	☑		
27V. 1,1,1 – Trichloroethane (71-55-6)	☐	☑		
28V. 1,1,2 – Trichloroethane (79-00-5)	☐	☑		
29V. Trichloroethylene (79-01-6)	☐	☑		
30V. Tricholorluoromethane (75-89-4)	☐	☑		
31V. Vinyl Chloride (75-01-4)	☐	☑		
GS/MS FRACTION – ACID COMPOUNDS				
1A. 2 – Chloropheno (95-57-8)	☐	☑		
2A. 2,4 – Dichlorophenol (120-83-2)	☐	☑		
3A. 2,4 – Dimethylphenol (105-67-9)	☐	☑		
4A. 4, 6 – Dinitro – O – Cresol (534-52-1)	☐	☑		
5A. 2,4 – Dinitrophenol (51-28-5)	☐	☑		
6A. 2 – Nitrophenol (88-75-5)	☐	☑		
7A. 4 – Nitrophenol (100-82-7)	☐	☑		
8A. P – Chloro – M – Cresol (59-50-7)	☐	☑		
9A. Pentachlorophenol (87-86-5)	☐	☑		
10A. Phenol (106-95-2)	☐	☑		
11A. 2,4,6 – Trichlorophenol (88-06-2)	☐	☑		

9.00 DATA (CONTINUED)				
POLLUTANT AND CAS. NO. (IF AVAILABLE)	MARK "X"		MAXIMUM DAILY VALUE	
	(a) PRESENT	(b) ABSENT	CONCENTRATION	MASS
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS				
1B. Acenaphthene (83-32-9)	☐	☑		
2B. Acenaphtylene (208-96-8)	☐	☑		
3B. Anthracene (120-12-7)	☐	☑		
4B. Benzidine (92-87-5)	☐	☑		
5B. Benzo (a) Anthracene (56-55-3)	☐	☑		
6B. Benzo (a) Pyrene (50-32-8)	☐	☑		
7B. 3,4 – Benzofluoranthene (205-99-2)	☐	☑		
8B. Benzo (ghi) Perylene (191-24-2)	☐	☑		
9B. Benzo (k) Fluoranthene (207-08-9)	☐	☑		
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	☐	☑		
11B. Bis (2-Chloroethyl) Ether (111-44-4)	☐	☑		
12B. Bis (2-Chloroisopropyl) Ether (39638-32-9)	☐	☑		
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	☐	☑		
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	☐	☑		
15B. Butyl Benzyl Phthalate (85-68-7)	☐	☑		
16B. 2-Chloronaphthalene (91-58-7)	☐	☑		
17B. 4-Chloronaphenyl (7005-72-3)	☐	☑		
18B. Chrysene (218-01-9)	☐	☑		
19B. Dibenzo (a,h) Anthracene (53-70-3)	☐	☑		
20B. 1,2 – Dichlorobenzene (95-50-1)	☐	☑		
21B. 1,3 – Dichlorobenzene (541-73-1)	☐	☑		
22B. 1,4 – Dichlorobenzene (106-46-7)	☐	☑		
23B. 3,3 – Dichlorobenzidine (91-94-1)	☐	☑		
24B. Diethyl Phthalate (84-66-2)	☐	☑		
25B. Dimethyl Phthalate (113-11-3)	☐	☑		
26B. Di-N-Butyl Phthalate (84-74-2)	☐	☑		
27B. 2,4 – Dinitrotoluene (121-14-2)	☐	☑		
28B. 2,6 – Dinitrotoluene (606-20-2)	☐	☑		
29B. Di – N – Octyl Phthalate (117-84-0)	☐	☑		
30B. 1,2–Diphenylhydrazine (as Azobenzene) (122-66-7)	☐	☑		
31B. Fluoranthene (206-44-0)	☐	☑		
32B. Fluorene (86-73-7)	☐	☑		
33B. Hexachlorobenzene (118-71-1)	☐	☑		
34B. Hexachlorobutadiene (87-68-3)	☐	☑		
35B. Hexachlorocyclopentadiene (77-47-4)	☐	☑		
36B. Hexachloroethane (67-72-1)	☐	☑		
37B. Indeno (1,2,3-c,d) Pyrene (193-39-5)	☐	☑		

9.00 DATA (CONTINUED)				
POLLUTANT AND CAS. NO. (IF AVAILABLE)	MARK "X"		MAXIMUM DAILY VALUE	
	(a) PRESENT	(b) ABSENT	CONCENTRATION	MASS
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (CONTINUED)				
38B. Isophorone (78-59-1)	☐	☑		
39B. Napthalene (91-20-3)	☐	☑		
40B. Nitrobenzene (98-95-3)	☐	☑		
41B. N-Nitrosodimethylamine (62-75-9)	☐	☑		
42B. N-Nitrosodi-N-Propylamine (621-64-7)	☐	☑		
43B. N-Nitrosodiphenylamine (83-30-6)	☐	☑		
44B. Phenanthrene (85-01-8)	☐	☑		
45B. Pyrene (129-00-0)	☐	☑		
46B. 1,2,4 – Trichlorobenzene (120-82-1)	☐	☑		
GC/MS FRACTION - PESTICIDES				
1P. Aldrin (309-00-2)	☐	☑		
2P. α-BHC (319-84-6)	☐	☑		
3P. β-BHC (319-85-7)	☐	☑		
4P. χ-BHC (58-89-9)	☐	☑		
5P. δ-BHC (319-86-8)	☐	☑		
6P. Chlordane (57-74-9)	☐	☑		
7P. 4,4 – DDT (50-29-3)	☐	☑		
8P. 4,4 – DDE (72-55-9)	☐	☑		
9P. 4,4 – DDD (72-54-8)	☐	☑		
10P. Dieldrin (60-57-1)	☐	☑		
11P. α-Endosulfan (115-29-7)	☐	☑		
12P. β-Endosulfan (115-29-7)	☐	☑		
13P. Endosulfan (1031-07-8)	☐	☑		
14P. Endrin (72-20-8)	☐	☑		
15P. Endrin (7421-93-4)	☐	☑		
16P. Heptachlor (76-44-8)	☐	☑		
17P. Heptachlor Epoxide (1024-57-3)	☐	☑		
18P. PCB-1242 (53469-21-9)	☐	☑		
19P. PCB-1254 (11097-69-1)	☐	☑		
20P. PCB-1221 (11104-28-2)	☐	☑		
21P. PCB-1232 (11141-16-5)	☐	☑		
22P. PCB-1248 (12672-29-6)	☐	☑		
23P. PCB-1260 (11096-82-5)	☐	☑		
24P. PCB-1016 (12674-29-6)	☐	☑		
25P. Toxaphene (8001-35-2)	☐	☑		
DIOXIN				
2,3,7,8 – Tetrachlorodibenzo-P-Dixon (1764-01-6)	☐	☑	DESCRIBE RESULTS	

INSTRUCTIONS FOR FORM UIC – APPLICATOIN FOR CLASS V PERMIT

Please read these instructions carefully before completing the application. Send a signed application along with appropriate permit fee to the Water Proteciton Program, Water Pollution Branch, PO Box 176, Jefferson City, MO 65102. Please make your check payable to State of Missouri.

1.0 ACTION REQUESTED

Construction Permit Application – Check only if the application is for a permit to construct an injection/recovery well system.

Operating Permit Application – Check only if the application is for a permit to operate an injection/recovery well system.

Operating Permit Renewal Application – Check only if the application is for a renewal of an existing permit.

2.0 FACILITY INFORMATION

Name – The site-specific name of the facility where the injection/recovery operation is to be conducted.

Address – Physical address of the site-specific facility.

2.1 Construction Permit Number – provide the UIC construction permit number that the injection/recovery system was constructed under, if this application is for an operating permit for the same facility.

2.2 Operating Permit Number – include only the facility's NPDES or UIC permit number(s) if one or more are in effect. If multiple Class V permits are presently in effect, attach a separate list.

2.3 Facility Location – provide location data.

3.0 OWNER INFORMATION

Name the individual, institution, agency or corporation that owns the facility.

4.0 CONTINUING AUTHORITY INFORMATION

Name the permanent organization that will serve as the continuing authority for the operation, maintenance, and modernization of the facility.

5.0 FACILITY CONTACT

Name the individual within the facility, or operator, most able to supply information about the direct operation of the injection/recovery operation.

6.0 GENERAL INFORMATION

6.1 Purpose of injection/recovery – attach separate pages if needed. Include all or portions of an engineering report containing information needed by the owner, continuing authority, and the Department of Natural Resources to fully describe the purpose of the injection/recovery system.

6.2 Description of the injection/recovery process – attach separate pages if needed. Include all or portions of the engineering report required by #2 above, or submit a separate detailed description of all elements or the product, treatment and injection system required to allow the owner, continuing authority or the Department of Natural Resources to adequately review the system.

The geologic report should contain, at a minimum: a description of the injection/recovery well pattern; a description of the injection zone including details of lithology, hydrology, and unique features of the injection zone and relevant formation; injection and recovery timeframes; systems of transporting, storing, mixing, metering, and introducing injection materials; recovery fluid gathering systems, treatment or recycling, and disposal systems.

6.3 Biological Agents – list and describe all biological agents to be injected, including: scientific names; whether or not the agents are native to the formations involved; list of available literature relevant to the use of the agents for the injection operation; their population and nutrient dynamics under proposed operating conditions; discussion and supporting literature regarding potential health and/or environmental impacts of the agents and their metabolites in and downgradient of the injection zone; and after completion of the operation; results of laboratory tests conducted by or for the facility relevant to the injection/recovery operation.

6.4 Hazardous Waste – will the process involve hazardous wastes as defined by federal and state hazardous waste laws?

6.5 Surface Discharge – if needed, contact the Water Protection Program, Water Pollution Branch for a State Operating Permit application at least 180 days prior to any planned discharge.

6.6 Give total estimated amounts of materials to be injected.

6.7 Describe how injected chemicals will be withdrawn to pre-injection levels.

6.8 Provide analytical data on the pre-injection concentrations of substances to be injected, if these substances are already present in the groundwater. Examples: manganese, if potassium permanganate is injected; or BOD, if a biological agent is to be injected.

INSTRUCTIONS FOR FORM UIC – APPLICATION FOR CLASS V PERMIT (CONTINUED)

7.0 OTHER WELL TYPES ON SITE

If there are existing wells already on site, give the type, number at location and status.

8.0 SIGNATURE

The application **must** be signed by a geologist registered in the State of Missouri or other groundwater professional registered in the State of Missouri.

9.0 DATA

9.1 This section must be completed if injection is into an aquifer. It must be completed prior to injection. At least one (1) analysis must be completed for each pollutant listed.

9.2 Mark an "X" for each pollutant believed to be present or absent in groundwater. If present, at least one (1) analysis must be completed for that pollutant.

ADDITIONAL FORMS

To apply for termination of this permit, you must submit a completed Form J. Also attach analyses from samples taken after project completion. These analyses must indicate that concentrations of remediated pollutants have not increased from pre-project concentrations.