

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

UNDERGROUND INJECTION CONTROL

Permit No. UI-0000040

Owner: McLane Company, Inc.
Address: 4747 McLane Parkway, Temple, TX 76504

Continuing Authority: Same as above
Address: Same as above

Facility Name: McLane Distribution Center - Republic
Facility Address: 2788 E. Sawyer Road, Republic, MO 65738

Legal Description: SE ¼, NW ¼, Sec. 3, T28N, R23W, Greene County
UTM Coordinates: X = 461291, Y = 4113077

Receiving Stream: Unnamed Tributary to Pond Creek (U)
First Classified Stream and ID: Pond Creek (P) (1408)

USGS Basin & Sub-watershed No.: (10290106-030001)

FACILITY DESCRIPTION

Underground Injection – SIC #1629

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 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.

June 24, 2011
Effective Date

Sarah Parker Pauley, Director, Department of Natural Resources

June 23, 2016
Expiration Date

John Madras, Director, Water Protection Program

PART A. SPECIAL CONDITIONS FOR UNDERGROUND INJECTION CONTROL PERMIT

1. Water pumped 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.
2. Disinfection of equipment after maintenance/repair/replacement:
 - (a) 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 work.
3. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under 40 CFR Parts 144 – 146 of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

4. There shall be no release of polychlorinated biphenyl compounds (PCBs) to waters of the state at or above the level of quantification currently defined as 1 µg/L or 1 ppb.

PART B. STANDARD CONDITIONS FOR UNDERGROUND INJECTION CONTROL PERMIT

SECTION A – MONITORING AND REPORTING

1. Representative Sampling

There are no regular sampling requirements in this permit. However, the department may require sampling and reporting as a result of illegal discharges, compliance issues, complaint investigations, or evidence of off site impacts from activities at the facility. If such an action is needed, the department will specify in writing the sampling requirements, including such information as location and extent. It is a violation of this permit to fail to comply with said written notifications.

2. Definitions

Definitions as set forth in the Missouri Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 CSR 20-2.010 shall apply to terms used herein.

3. In addition to specified conditions stated herein, this permit is subject to the attached **Part I Standard Conditions** dated October 1, 1980, and hereby incorporated as though fully set forth herein.

SECTION B – MANAGEMENT REQUIREMENTS

1. Adverse Impact

The permittee shall take all necessary steps to minimize any adverse impact to waters of the state resulting from noncompliance with any limitations specified in this permit or set forth in the Missouri Clean Water Law and Regulations (hereinafter the Law and Regulations), including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

2. Permit Modifications

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. violation of any terms or conditions of this permit or the Law;
- ii. having obtained this permit by misrepresentation or failure to disclose fully all 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 and Regulations.

3. Civil and Criminal Liability

Except as authorized by statute nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

4. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state statute or regulations.

5. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit 180 days prior to expiration of this permit.

Missouri Department of Natural Resources
Statement of Basis
For a New Facility
McLane Distribution Center - Republic
NPDES #: UI-0000040

A Statement of Basis (Statement) gives pertinent information regarding the applicable regulations and rational for the development of the NPDES Missouri State Operating Permit (operating permit). Statements of Basis are required for all operating permits for which a Fact Sheet is not required. Statements of Basis briefly describe, among other items, the derivation of the effluent limitation and the reasons for operating permit's Special Conditions. Fact Sheets should be developed for any permit that requires complex calculations or special conditions; and this is particularly true for permit conditions based on Best Professional Judgment (BPJ).

A Statement is not an enforceable part of an operating permit.

Part I – Facility Information

Groundwater wells used for geothermal heating and cooling purposes (a non-consumptive use of groundwater).

This system consists of Two (2) high yield groundwater supply wells with 12" casings, pumps, motors and appurtenances to achieve 650 gallons per minute each and two (2) injection wells with 10" casings and appurtenances to achieve a return rate equivalent to the maximum pump rate of the supply wells.

The Division of Geology and Land Survey program contacted EPA Region 7 for guidance on basic permitting requirements for this type of Underground Injection permit. EPA recommended 2 elements be contained in the permit: 1) Specify that the water is used only for the heat pump. No process or waste water may be introduced to the aquifer. 2) If any work is done on the equipment that comes in contact with water from the aquifer, the equipment must be sanitized before being placed back in service to prevent contamination of the aquifer.

Part II – Operator Certification Requirements

Not Applicable ; This facility is not required to have a certified operator.

Part III – 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.

Date of Statement of Basis: April 19, 2011

Alan Moreau
Water Protection Program
(573) 522-2553
alan.moreau@dnr.mo.gov