

Fact Sheet

For the proposed re-issuance of a permit for Underground Injection Control (permit number NE0210922). This proposal does not involve discharges to the land surface or surface waters of the State of Nebraska.

Issuing Office: Nebraska Department of Environmental Quality (NDEQ)
 Suite 400, The Atrium
 1200 N Street, P.O. box 98922
 Lincoln, Nebraska, 68509-8922

Applicant: Koch Fertilizer, LLC
 1101 West Highway 34
 Aurora, Nebraska 68818

1. Koch Fertilizer, LLC (KF) operates a commercial storage and transfer facility for anhydrous ammonia (SIC Number 5169). The specific operations involve the storage and transfer of anhydrous ammonia at the KF facility.
2. As described in the application, the KF facility is located west of Aurora in Hamilton County, Nebraska. KF currently utilizes groundwater pumped from the site to cool compressors and condensers through a non-contact system. The groundwater is injected into the aquifer through an injection well on site at a rate of approximately 300 gallons per minute. There is no discharge to surface waters of the State of Nebraska.
3. The following table contains the proposed permit conditions for the injection fluid. The parameters and limits are identical to past operational limitations and monitoring requirements. Sampling will continue on a monthly basis, with reporting every quarter.

Parameter	Units	Proposed Limit
Flow Rate (effluent)	gallons/minute	Report
Nitrate as N (effluent)	milligrams/liter	Report
Nitrate as N (supply)	milligrams/liter	Report
Ammonia as N (effluent)	milligrams/liter	10.0
Temperature (effluent)	Fahrenheit	Report
pH (effluent)	Standard Units	6.0 – 9.0

4. On the basis of preliminary staff review, the NDEQ has made a tentative determination to write the permit for injection, which will be regulated as stated in the draft permit.
5. The proposed operating limitation and effluent parameter limitations are included in the draft permit.
6. The following is a brief explanation of the statutory and regulatory provisions on which permit requirements and operational limitations are based. Included are appropriate supporting references used during the permit formulation process.

- a. Issuance of permit NE0207942, November 14, 2000.
 - b. Issuance of minor modification of permit NE0207942, October 22, 2002.
 - c. Issuance of minor modification of permit NE0207942, February 11, 2003.
 - d. Issuance of minor modification of permit Number NE0207942, November 25, 2003.
 - e. Request for permit modification, January 19, 2004.
 - f. Issuance of major modification of permit Number NE0207942, March 9, 2004.
 - g. Issuance of minor modification of permit Number NE0207942, December 30, 2008.
 - h. Issuance of permit NE0210922, September 9, 2010.
 - i. Issuance of minor modification of permit Number NE0210922, March 11, 2015.
 - j. Application for UIC Permit and \$500 filing fee, received March 12, 2015.
 - k. Nebraska Environmental Protection Act and related laws.
 - l. NDEQ Title 122 – Rules and Regulations for Underground Injection and Mineral Production Wells.
 - m. 40 CFR Part 144-147, Underground Injection Control Program, State UIC Program Requirements, UIC Program: Criteria and Standards, State Underground Injection Control Programs.
 - n. NDEQ Title 118 – Ground Water Quality Standards and Use Classification.
7. The following is an explanation of the calculations and derivations of the specific Operational Parameters and Limitations set forth in the draft permit, and the reasons why they are applicable to the injection proposal:
- a. Reason for the Permit
The draft permit has been prepared in accordance with specific regulations contained in Nebraska Title 122 – Rules and Regulations for Underground Injection and Mineral Production Wells. The applicant (KF) has fulfilled the minimum requirements necessary to process a permit. The application for the permit was received on March 12, 2015.
 - b. Water Quality Considerations
The proposed injection activity will, by definition, emplace process wastewater into subsurface aquifers, which are considered to be Underground Sources of Drinking Water (USDW) under State and Federal regulations. Drinking Water Quality effluent limitations apply to the proposed discharge.
 - c. Draft Permit Effluent Limitations and Conditions
 - i. General
The draft permit establishes Operational Parameters and Limitations for process wastewater discharged to the injection well based mainly on Title 118 Standards. The injection well will receive wastewater from the compressor and condenser cooling

process. The groundwater at no time comes into contact with either the anhydrous ammonia or with the atmosphere. The draft permit utilizes effluent parameters and limitations to characterize the wastewater discharged to the injection well if a problem were to develop with the cooling system.

8. Variances

The applicant has not requested any variance or alternatives to any required standards or operational parameters.

9. Written Comments

A copy of the application, draft permit, comments, and other public information are available for review and copying at the Department's office, Suite 400, The Atrium, 122 N Street, Lincoln, Nebraska 68509-8922 between 8:00 am and 5:00 pm, weekdays. This information is also available on the Department's website: www.deq.state.ne.us under "Public Notices."

The public may comment upon or object to the proposed permit, in writing, prior to **May 15, 2015**. All substantive comments and/or objections shall be considered prior to making the final decision regarding this permit. Any interested person may request a public hearing, if no hearing has already been scheduled. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised at the hearing.

All comments and requests for information should be sent to Nancy Harris, Department of Environmental Quality, P.O. Box 98922, Lincoln, Nebraska 68509-8922, (402) 471-4290.