## STATE OF NEBRASKA DEPARTMENT OF WATER, ENERGY, AND ENVIRONMENT

APPLICATION FOR A PERMIT TO APPROPRIATE NATURAL FLOW FOR INDUCED GROUND WATER RECHARGE

|  | INSTRUCTIONS   |   | For Department Use Only   |  |  |
|--|--|---|---|--|--|
| foll<br>info<br>of 1<br>to c<br>by<br>just                                     | lowing information shall be submormation shall be compiled and subtraction shall inches by 4 inchest clearly depict the subject matter, but 11 inches. A complete table of confict that it is a complete table of all inchest. Given the subtraction for the applicability of the state of all existing and proposition of the subtraction of the subtraction for the subtraction for the applicability of the subtraction for the subtr | ting in ink or typing the appropriate information. The itted with this form and made a part hereof. All abmitted in a loose-leaf binder with maximum dimensions as. Maps, plans and drawings must be of a size sufficient but must be folded to dimensions not to exceed 11 inches contents shall be provided. When using a model, supply the model to the actual geological conditions of the well or we results of any performed sensitivity analysis.  Dosed production wells included under the application, registration numbers; exact location by 40-acre subdivision, tall depth; pumping capacity; and date each was arties and how each was determined, including but not | Filed in the office of the Department of Water, Energy, and Environment at: |  |  |
| C. D. E. F. G. H.  | to, recharge rate, transmissivity, hydraulic conductivity, saturated thickness, depth to water, type of aquifer (confined/unconfined).  C. Assuming that combination of wells expected to create the greatest induced recharge, a tabulation showing computed drawdown and induced recharge and how it was determined.  D. A geologic log, to include an indication of static water level, for each production and test well.  For each production well, a log showing the size and vertical placement of each pump, all plain casing and screened sections and any artificial gravel pack.  A table that illustrates the times of year when induced recharge is expected to occur, and that quantifies the expected rates (gpm) and volumes (ac-ft) of induced recharge.  G. A narration of the minimum flow necessary within that stream reach where induced recharge is intended, to sustain satisfactory operation of the well field facilities.  H. A narration of the period of time that well field facilities would continue to meet minimal essential needs of the public water supplier if there were no flow in the source of supply.  Scaled maps showing:  1) All production and test wells and the stream reach where induced recharge is intended.  2) A depiction of the aquifer piezometric surface under nonpumping conditions and for pumping conditions assuming that combination of wells expected to create the greatest induced recharge.  3) The areal extent and a cross-section of that portion of the aquifer analyzed for this application.  4) Location and identification of use of any wells not included in this application with a cone of depression that may intersect applicant's well field.  5) Existing surface water users within the area of the stream reach were induced ground water recharge occurs.  |   |   |  |  |
|  | Applications for wells constructed on or after September 9, 1993, shall include information on public interest factors described in § 46-235(3b) and (4b), R.R.S., 1943, as amended.   |   |   |  |  |
| The following information may be submitted at the discretion of the applicant: |  |   |   |  |  |
| A.   | A. A statement indicating rate and volume of induced ground water recharge presently used and the anticipated use for the next 25 years.   |   |   |  |  |
| B.   | 3. A statement indicating rate and volume of ground water use anticipated from well field during the next 25 years.  |   |   |  |  |
|  |  | Tele  | phone Number ()   |  |  |
| (  | City   | State   | Zip Code  |  |  |

| 2. Name of contact person  | Telephone Number ()   |  |  |  |
|--|---|--|--|--|
| Address  |   |  |  |  |
| City   | StateZip Code   |  |  |  |
| 3. Identify the source of water (name of stream):  |   |  |  |  |
| 4.(a) State estimated time required for completion of all water diversion facilities:  | (b) State the earliest date when water will have been used for beneficial purposes: |  |  |  |
| 5. The information given in sections C and F should be used to determine the amount of appropriation desired, state desired amount of appropriation                                  |   |  |  |  |
| 6. Does this project involve a federal nexus? Yes No   |   |  |  |  |
| 7. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. |   |  |  |  |
| Signature of Public Water Supplier's Authorized Agent/Title  |   |  |  |  |

This form must be completed in full. An incomplete or defective application will be returned with 90 days being allowed for resubmission. Failure to resubmit a corrected application within this time period shall cause dismissal of the application and consequent loss of priority.

Forward this application to:

Nebraska Department of Water, Energy, and Environment 245 Fallbrook Blvd., Suite 100 Lincoln, NE 68521-6729

Phone: (402)471-2186