

|        |                    |     |     |
|--------|--------------------|-----|-----|
| FOR    | APPLICATION NUMBER |     |     |
| AGENCY | NE                 |     |     |
| USE    | DATE RECEIVED      |     |     |
| ONLY   | YEAR               | MO. | DAY |



### APPLICATION FOR A CLASS V INJECTION WELL AUTHORIZATION

**This application covers ONLY Class V (five) injection wells that meet the requirements of Title 122, Chapter 6.** Please answer **EVERY** item on this application to the best of your knowledge. **An incomplete application may be returned.** If you have questions while filling out this application please refer to Title 7122, Chapter 10 or call (402) 471-4290 and someone will assist you.

#### 1. Facility Information

|  |  |           |  |
|--|--|-----------|--|
| Name of Facility:                                    |  |           |  |
| Operator's Name:                                     |  |           |  |
| Street Address:                                      |  | City/Zip: |  |
| Telephone Number:                                    |  | County:   |  |
| Entity Status (i.e. Federal, State, Private, Other): |  |           |  |

#### 2. Owner's Information

|  |  |           |  |
|--|--|-----------|--|
| Owner's Name:  |  |           |  |
| Mailing Address:   |  | City/Zip: |  |
| Telephone Number:  |  | County:   |  |
| Ownership Status (i.e. President, Partner, Stockholder): |  |           |  |
| Entity Status (i.e. Federal, State, Private, Other):     |  |           |  |
| Owner's Signature:                                       |  |           |  |

#### 3. What type of Class V Well will be utilized? (Refer to list at the end of the application or Title 122, Chapter 2, Section 005.17)

|  |
|--|
|  |
|--|

#### 4. Legal Location of the Injection Well including county and GPS Coordinates of Injection Well:

|         |  |
|---------|--|
| County: |  |
|---------|--|

LEGAL LOCATION:

GPS (Decimal Lat/Long):

**5. Attach a scaled map of the entire property on which the injection is proposed.** The map should include but not be limited to the following items:

- a. All other injection wells (i.e. septic systems, heat pump returns)
- b. All major structures (i.e. buildings, streets, property lines)
- c. All underground utilities
- d. All water wells (i.e. irrigation, drinking, monitoring)

**6. Attach a scaled map or aerial photograph locating all water wells within a ½ mile radius of the proposed injection well.**

**7. Give a detailed description of the fluid to be injected, attach laboratory data if available:**

**8. What is the volume of fluid to be injected in a specific time period?** (i.e. 20 gallons per hour)

**9. Describe the nature of the business or activity that generates the waste:** (i.e. Auto Repair Shop)

**10. What is the status of the injection well?** (i.e. in use, proposed, under construction)

**11. Attach design or construction details of the proposed injection well as outlined in Title 122, Chapter 17, Section 005.** All well designs should be submitted by a Professional Engineer licensed in the State of Nebraska.

**12. Complete one of the following tables for setback distances of the proposed injection well.**

Please read the description at the beginning of each table to ensure the proper table is being completed.

- a. A Domestic Wastewater Disposal Well (5W11, 5W31, 5W32, 5W12) for a septic system or wastewater treatment plant effluent. These wells must meet the 4-foot separation from groundwater. Distances are in feet.

| Receptor   | Minimum Setback |           | Actual Distance |           |
|--|-----------------|-----------|-----------------|-----------|
| Surface Water                                      | 50              |           |                 |           |
| Domestic Water Well                                | 100             |           |                 |           |
| Community Water Well                               | 1000            |           |                 |           |
| All Other Water Wells                              | 100             |           |                 |           |
| Water Line (Pressure-Main)                         | 25              |           |                 |           |
| Water Line Pressure-Service Connection             | 25              |           |                 |           |
| Water Line (Suction)                               | 100             |           |                 |           |
| Property Lines                                     | 5               |           |                 |           |
| Foundations used for living quarters               | Yours           | Neighbors | Yours           | Neighbors |
| Full basements or foundations below septic system  | 30              | 40        |                 |           |
| Non-basement foundations higher than septic system | 20              | 30        |                 |           |
| Slab on grade <b>not</b> used as living quarters   | 10              | 20        |                 |           |

- b. An injection well constructed above the groundwater table but not listed in the Domestic Wastewater Disposal category. These wells must meet the 4-foot separation from groundwater and cannot be greater than 20 feet deep.

| Receptor  | Minimum Setback |  | Actual Distance |  |
|---|-----------------|--|-----------------|--|
| Domestic Water Well                                 | 100             |  |                 |  |
| Community Water Well                                | 1000            |  |                 |  |
| Non-Community Water Well                            | 500             |  |                 |  |
| All Other Water Wells                               | 100             |  |                 |  |
| Sewer Lines   | 25              |  |                 |  |
| Pressure Water Lines                                | 25              |  |                 |  |
| Suction Water Lines                                 | 100             |  |                 |  |
| Property Lines                                      | 5               |  |                 |  |
| Basements/Footings                                  | 30              |  |                 |  |
| Domestic Wastewater Disposal Wells                  | 100             |  |                 |  |
| Other injection wells of this type                  | 25              |  |                 |  |
| Other injection wells that fall into the next table | 25              |  |                 |  |
| Septic Tanks  | 50              |  |                 |  |
| Surface Water                                       | 50              |  |                 |  |

**c. An injection well constructed into or through a groundwater aquifer.**

| Receptor  | Minimum Setback | Actual Distance |
|---|-----------------|-----------------|
| Domestic Water Well                                 | 100             |                 |
| Community Water Well                                | 1000            |                 |
| Non-Community Water Well                            | 500             |                 |
| All Other Water Wells                               | 25              |                 |
| Sewer Lines   | 25              |                 |
| Pressure Water Lines                                | 25              |                 |
| Suction Water Lines                                 | 50              |                 |
| Property Lines                                      | 5               |                 |
| Basements/Footings                                  | 10              |                 |
| Domestic Wastewater Disposal Wells                  | 100             |                 |
| Other injection wells of this type                  | 25              |                 |
| Other injection wells that fall into the next table | 25              |                 |
| Septic Tanks  | 50              |                 |
| Surface Water                                       | 50              |                 |

**13. What is the depth to groundwater (in feet) at the property?**

**14. How was the depth to groundwater obtained? (i.e. measured in well, drilling logs)**

**15. Describe the geologic material or formation into which the injection is planned.**

  
  
  


**16. Name and signature of the person completing this form.**

**Name of the person completing this form:**

Telephone Number:

Email Address:

Signature:

### **Important Class V Well Construction Facts**

- All Domestic Wastewater Disposal Wells (Title 122, Chapter 2, Section 005.17C), including septic systems must be constructed in accordance with Title 124 – Rules and Regulations for the Design, Operation, and Maintenance of On-Site Wastewater Treatment Systems.
- All Class V wells constructed above the groundwater table must maintain a separation distance from the deepest point of the well to the surface of the groundwater of 4 feet. This includes septic systems.
- No Class V well constructed above the ground water table shall exceed 20 feet in depth.
- Well casing used for all Class V wells, except Domestic Wastewater Disposal Wells, shall be pressure rated a minimum of 160 psi. The formula for calculating the minimum pressure rating is located in Title 122, Chapter 17, Section 005.04C1.
- Injection wells cannot inject into more than one aquifer.
- If ground water is removed from an aquifer, it must be injected back into that same aquifer (i.e. open loop heat pump wells, cooling water wells, remediation wells).
- Cement/bentonite grout is the only allowed media to fill the annulus of an injection well.
- There are 3 separate Tables in Title 122 listing the different setback distances for each type of injection well. All of the Tables can be found in Chapter 17, Section 005.

**Questions about this application: (402) 471-4290**

**Return Completed Application to:**

**Nebraska Department of Environment and Energy  
Ground Water Unit/UIC Program  
P.O. Box 98922  
Lincoln, NE 68509**

| <b>Class V Category</b>                         | <b>Class V Subcategory</b>                                | <b>Class V Code Number</b> |
|---|---|----------------------------|
| <b>Drainage</b>                                 | Storm Water Drainage                                      | 5D2                        |
|   | Improved Sinkholes  | 5D3                        |
|   | Industrial Drainage                                       | 5D4                        |
|   | Special Drainage  | 5G30                       |
| <b>Geothermal Reinjection</b>                   | Electric Power Reinjection                                | 5A5                        |
|   | Direct Heat Reinjection                                   | 5A6                        |
|   | Heat Pump/AC Return Flow (open loop)                      | 5A7                        |
|   | Ground Water Aquaculture Return Flow                      | 5A8                        |
| <b>Domestic Wastewater Disposal</b>             | Septic System (undifferentiated disposal)                 | 5W11                       |
|   | Septic System (well disposal)                             | 5W31                       |
|   | Septic System (drainfield disposal)                       | 5W32                       |
|   | Wastewater Treatment Plant Effluent Disposal              | 5W12                       |
| <b>Mineral and Fossil Fuel Recovery Related</b> | Mining, sand & other backfill                             | 5X13                       |
|   | Solution Mining   | 5X14                       |
|   | In-situ Fossil Fuel Recovery                              | 5X15                       |
|   | Spent-Brine Return Flow, after halogen extr.              | 5X16                       |
| <b>Oil Field Production Waste Disposal</b>      | Air Scrubbed Waste Disposal                               | 5X17                       |
|   | Water Softener Regeneration Brine Disposal                | 5X18                       |
| <b>Industrial/Commercial/Utility Disposal</b>   | Cooling Water Return Flow                                 | 5A19                       |
|   | Industrial Process Water & Waste Disposal                 | 5W20                       |
| <b>Recharge</b>                                 | Aquifer Recharge  | 5R21                       |
|   | Saline Water Intrusion Barrier                            | 5B22                       |
|   | Subsidence Control  | 5S23                       |
| <b>Miscellaneous</b>                            | Experimental Technology                                   | 5X25                       |
|   | Aquifer Remediation Related                               | 5X26                       |
|   | Other (specify purpose & injection fluid)                 | 5X27                       |
| <b>Prohibited Injection Wells</b>               | Agricultural Drainage Wells                               | 5F1                        |
|   | Untreated Sewage Waste Disposal Wells                     | 5W9                        |
|   | Cesspools   | 5W10                       |
|   | Radioactive Waste Disposal Wells                          | 5N24                       |
|   | Motor Vehicle Waste Disposal Wells                        | 5X28                       |
|   | Abandoned Drinking Water Wells used for Disposal of Waste | 5X29                       |