Application for Coverage

Under the South Dakota Surface Water Discharge System
Individual Permit for Biosolids Management

This form is provided by the Secretary of the South Dakota Department of Environment and Natural Resources in accordance with §74:03:18:09 of the Administrative Rules of South Dakota. Facilities must obtain a permit to manage biosolids (treated municipal sludge) or septage. Completion and submittal of this form is required to obtain coverage under a Biosolids Management permit.

Section A: Facility Information

The facility described below is involved in biosolids treatment/management activities and is applying for coverage under the South Dakota Surface Water Discharge System Individual Permit for Biosolids Management.

1. Facility name: ________________________________
2. Facility Address: ________________________________
3. Facility Location: Section_______Township_______Range_______
   Latitude_______Longitude_______
4. Facility Operator: ________________________________
5. Operator Address: Street __________________________ State ______ Zip Code ______
6. Operator Telephone: (______)_________Fax (______)____________________
7. Operator e-mail (if available) ________________________________
8. Billing Address: Street or P.O. Box __________________________ State ______ Zip Code ______

Check all boxes that apply in each of the following sections.

9. Ownership Status: Name of Owner: ________________________________
   □ Federal □ Special District
   □ State □ Public
   □ Local (County or city) □ Private
   □ Other: ________________________________
10. Is the facility or any associated management or application site(s) on:

☐ Federal Land  
☐ Indian Land

if yes, explain:

________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________

11. Facility Type:

☐ Sewage Treatment Plant  
   ☐ Class I (facilities with industrial pretreatment programs or designated as Class I)
   ☐ Wet-weather design flow equal to or greater than 1 million gallons per day
   ☐ Serves 10,000 people or more
   ☐ Design flow less than 1 million gallons per day and serves less than 10,000 people

☐ Compost Facility  
☐ Septage Management Facility  
☐ Beneficial Use Facility

12. What is the capacity of your facility?

Sewage treatment plants specify wet-weather design flow in million gallons per day___________________
Other facilities specify or estimate capacity (explain if necessary)__________________________________
______________________________________________________________________________________

Section B: Facility Operations

1. Sewage Treatment Facility:

   a. Pre-treatment  
      ☐ Settling basins  
      ☐ Screening  
      ☐ Grinding  
      ☐ Other: __________________________

   b. Activated Sludge  
      ☐ Normal activated  
      ☐ Fine bubble  
      ☐ Pure oxygen activated  
      ☐ Sequential batch reactors  
      ☐ Oxidation ditch  
      ☐ Carrousel  
      ☐ Other: _________________________

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c. Fixed Film
- K.S. loaded trickling filters
- Block media high air
- Rotating biological contactors
- Plastic media
- Ordinary stones
- Recirculating gravel filters
- Other: ____________________________

d. Lagoons
- Without aeration or recirculation
- Aerated without recirculation
- Aerated with recirculation
- Aerated settled
- Biolac system
- Other: ____________________________

e. Digestion
- Aerobic
- Mixed aerobic/anaerobic
- Anaerobic
- Thermophilic
- Other: ____________________________

f. Biosolids Treatment/Management
- Drying beds
- Belt-filter presses
- Centrifuge
- Composting
- Bagging
- Alkaline stabilization
- Polymer
- Heat Drying
- Heat Treatment
- Irradiation
- Pasteurization
- Other: ____________________________

2. Septage Management Facilities
- Composting
- Aeration
- Screening
- Grinding
- pH adjustment
- Other: ____________________________
- None
3. Discuss any seasonal or operational variations that affect either the quality or quantity of biosolids/septage that is generated or managed:
____________________________________________________________________________________________
____________________________________________________________________________________________
____________________________________________________________________________________________
____________________________________________________________________________________________
____________________________________________________________________________________________
____________________________________________________________________________________________

4. **Topographic Map.** Provide a topographic map or maps (or other appropriate map(s) if a topographic map is unavailable) that shows the following items of information. Map(s) should include the area one mile beyond all property boundaries of the facility:
   a. Location of all biosolids management facilities, including locations where biosolids is stored, treated, or disposed.
   b. Location of all wells, springs, and other surface water bodies, listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundaries.

**Line Drawing.** Provide a line drawing and/or a narrative description that identifies all biosolids processes that will be employed during the term of the permit, including all processes used for collecting, dewatering, storing, or treating biosolids, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

5. **Contractor Information.** Are any operational or maintenance aspects of this facility related to biosolids generation, treatment, use or disposal the responsibility of a contractor?  
   ☐ Yes  ☐ No
   If yes, provide the following for each contractor (attach additional pages if necessary):
   a. Name:  
   b. Mailing Address:  
   c. Telephone Number:  
   d. Responsibilities of contractor:  

**Section C: Biosolids Quantity & Quality**

1. Annual production of biosolids (based on a five-year average in dry tons):  
2. Amount of biosolids used during last calendar year (dry ton):  
   ☐ Actual  ☐ Estimated  
3. Amount of biosolids maintained in storage (dry tons):  
   ☐ Actual  ☐ Estimated
4. Do you expect major changes in product quantities generated, used, or stored during the next five years?

☐ Yes  ☐ No

If yes, explain:
________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________

5. If a septage management facility, what types of septage will you handle?

☐ Class I

☐ Class II

☐ Class III

6. Typical Biosolids constituent concentrations (not applicable to septage):

☐ Average calculated from previous year’s data.

☐ Concentrations based on most recent data.

☐ Other: _____________________________

Constituent level in ppm (dry weight basis):

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>_____</td>
</tr>
<tr>
<td>Nitrate Nitrogen</td>
<td>_____</td>
</tr>
<tr>
<td>Cadmium</td>
<td>_____</td>
</tr>
<tr>
<td>Ammonia Nitrogen</td>
<td>_____</td>
</tr>
<tr>
<td>Copper</td>
<td>_____</td>
</tr>
<tr>
<td>Total Kjeldahl Nitrogen</td>
<td>_____</td>
</tr>
<tr>
<td>Lead</td>
<td>_____</td>
</tr>
<tr>
<td>Phosphate</td>
<td>_____</td>
</tr>
<tr>
<td>Mercury</td>
<td>_____</td>
</tr>
<tr>
<td>% Total solids</td>
<td>_____</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>_____</td>
</tr>
<tr>
<td>% Volatile solids (% of total)</td>
<td>_____</td>
</tr>
<tr>
<td>Nickel</td>
<td>_____</td>
</tr>
<tr>
<td>pH</td>
<td>_____</td>
</tr>
<tr>
<td>Selenium</td>
<td>_____</td>
</tr>
<tr>
<td>Zinc</td>
<td>_____</td>
</tr>
</tbody>
</table>

7. Indicate pathogen reduction class and alternative employed. Note: All Class A alternatives require sampling and analysis.

☐ Class A – Alternative 1 *Time and Temperature*

☐ Class A – Alternative 2 *Alkaline stabilization*

☐ Class A – Alternative 3 *Process verification*

☐ Class A – Alternative 4 *Batch verification*
☐ Class A – Alternative 5  *Process to Further Reduce Pathogens (PFRP)*

☐ Class A – Alternative 6  *Equivalency determination*

☐ Class B – Alternative 1  *Seven samples analyzed for fecal coliform*

☐ Class B – Alternative 2  *Process to Significantly Reduce Pathogens (PSRP)*

☐ Class B – Alternative 3  *Equivalency determination*

☐ Does not meet pathogen reduction requirements. If not, explain:

________________________________________________________________________________________________
________________________________________________________________________________________________
_____________________________________________________________________________________________

8. Indicate vector attraction reduction alternative employed.

☐ 38% volatile solids reduction, or

☐ Bench sheet

☐ Aerobic process with SOUR test

☐ Aerobic treatment meeting time/temperature

☐ pH adjustment

☐ 75% or greater solids content for biosolids containing only stabilized solids

☐ 90% or greater solids content for biosolids containing any unstabilized solids

☐ Injection below the surface of the ground

☐ Incorporation after application

9. You must submit the following data with your permit application:

☐ Biosolids monitoring data (submit all available data for last two years)

☐ Soils at application site (submit only if biosolids are not exceptional quality and the site is to be used again.)

☐ Surface and groundwater monitoring data (submit only if biosolids are not exceptional quality)

*You may provide your data in the following forms:*

☐ As an attachment to this application

☐ Compiled in annual reports completed and submitted with this application

☐ Include any site specific data with a related Site Specific Land Application Plan
10. Do you currently transfer any biosolids to another facility for further treatment?

☐ Yes  ☐ No

If yes, provide: (attach additional sheets if more than one)

Name of the facility: ___________________________________________________________
Address: Street City State Zip Code
Operator Name: ___________________________________________________________
Operator phone number: (_______) ____________________________________________

11. Does your facility receive biosolids from another treatment works?

☐ Yes  ☐ No

If yes, provide: (attach additional sheets if needed)

Name of the facility: ___________________________________________________________
Address: Street City State Zip Code
Name of the facility: ___________________________________________________________
Address: Street City State Zip Code
Name of the facility: ___________________________________________________________
Address: Street City State Zip Code

Section D: Biosolids Beneficially Used

1. Biosolids are:

☐ Applied directly to the land.

☐ Sold or given away in:

☐ Bulk

☐ Small quantities

☐ Other: ___________________________________________________________
2. If you depend on another party to apply your biosolids, provide the name of the operator/contractor and the location of the facilities managed (attach additional sheets if necessary):

Operator/contractor name ___________________________________________________________

Address

Street                   City       State       Zip Code

Operator/Contractor phone: (________)__________________________

Name of the facility/site: ____________________________________________________________

________________________________________________________________________________

Street                   City       State       Zip Code

Name of the facility/site: ____________________________________________________________

________________________________________________________________________________

Street                   City       State       Zip Code

Name of the facility/site: ____________________________________________________________

________________________________________________________________________________

Street                   City       State       Zip Code

3. Indicate land types or management scenarios you use, and the amount of biosolids (dry tons) in each category during the last calendar year:

☐ Bulk to agricultural land_________ (total dry tons for all agricultural land types)

☐ Food crop___________ (subtotal)

☐ Feed crop___________ (subtotal of agricultural land; total for feed crops)

☐ Range land________ (subtotal for feed crops)

☐ Pasture___________ (subtotal for feed crops)

☐ Fiber crop_________ (subtotal)

☐ Bulk to forest land__________ (total to forest land)

☐ Bulk to public contact site_________ (total to public contact site)

☐ Bulk to land reclamation site_________ (total to land reclamation sites)

☐ Bulk to lawn or home garden________ (total to lawns or home gardens)

☐ Sold or given away in a bag or other container___________ (total in bags or other containers)

☐ Bulk sold or given away to another person who prepares for application to the land________ (total)

☐ Bulk sold or given away to another party for application to the land__________ (total)
4. Total sold, given away, or applied to the land during the previous calendar year (dry tons)_____________

Section E: Land Application Plans (not required for EQ biosolids unless otherwise specified)

You must attach a site specific land application plan for each site where you are presently applying or are proposing to apply biosolids to the land.

1. Are all land application sites currently planned for use identified in an attached site specific land application plan?
   ☐ Yes ☐ No If no, a site specific land application plan must be submitted before biosolids can be applied.

2. If no to 1 above, a General Land Application Plan is required with this application to secure the right to propose new sites at a later date. See Appendices 1 & 2 for contents of site specific and general land application plans.

3. Facilities not providing a land application plan for their exceptional quality biosolids must provide a management contingency plan with this application addressing how they will manage their biosolids in the event they fail exceptional quality standards.

4. Are any local permits required for your facility or for the biosolids application sites?
   ☐ Yes ☐ No

   If yes, list here or describe in attached Site Specific Land Application Plan(s):
   ______________________________________________________________________________________________
   ______________________________________________________________________________________________
   ______________________________________________________________________________________________
   ______________________________________________________________________________________________
   ______________________________________________________________________________________________

Section F: Surface Disposal of Biosolids

1. Do you own or operate a surface disposal site?
   ☐ Yes ☐ No

   a. Unit name or number: ____________________________________________________________

   b. Unit location:

      Street or Route # City State Zip Code

      County Section Township Range

      Latitude________________________________ Longitude__________________________

      Method of latitude/longitude determination

      ☐ USGS ☐ Field Survey ☐ GPS ☐ Other

   c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.

   d. Amount of biosolids placed on the active biosolids unit per 365-day period (total dry tons): ______________
e. Amount of biosolids placed on the active biosolids unit over the life of the unit (total dry tons): _____________

f. Does the biosolids unit have a liner with a maximum hydraulic conductivity of 1E-7 cm/sec?
   - [ ] Yes  [ ] No
   If yes, describe the liner (or attach a description):
   __________________________________________________________________________________________
   __________________________________________________________________________________________
   __________________________________________________________________________________________

g. Does the active biosolids unit have a leachate collection system?
   - [ ] Yes  [ ] No
   If yes, describe the leachate collection system (or attach a description). Also, describe the method used for leachate disposal and provide the numbers of any Federal, State, or local permit(s) for leachate disposal:
   __________________________________________________________________________________________
   __________________________________________________________________________________________
   __________________________________________________________________________________________

h. Is the boundary of the active biosolids unit less than 150 meters from the property line of the surface disposal site?
   - [ ] Yes  [ ] No
   If yes, provide the actual distance in meters: ________________
   Provide the following information:
   Remaining capacity of active biosolids unit (dry tons): ___________________________________________
   Anticipated closure date for active biosolids unit, if known: ___________________________________
   Provide, with this application, a copy of any closure plan that has been developed for this active biosolids unit.

Section G:  Facility Sampling Plan

1. Does your facility have a Biosolids Sampling Plan?
   - [ ] Yes  [ ] No
   a. If yes, submit a copy with this application.
   b. If no, explain how your sampling is done:
      __________________________________________________________________________________________
      __________________________________________________________________________________________
      __________________________________________________________________________________________
   c. [ ] No sampling is done.
Section H:  Landfill Disposal of Biosolids

1. Do you currently dispose or do you plan to dispose of any biosolids on other than an emergency basis?
   ☐ Yes    ☐ No

   If yes,
   ☐ Disposal is a temporary management option which will not exceed five years in length
   ☐ Disposal is planned as a long-term management option

2. Approximate quantities to be disposed (in dry tons) _______________________________________

Section I:  Attachment Checklist

Please check boxes to indicate any attachments you are including with your permit application.

☐ Land Application Plan(s):
   ☐ Site Specific
   ☐ General

☐ Contingency Plan for EQ Biosolids
☐ Facility Biosolids Sampling Plan
☐ Data
☐ Maps
☐ Treatment Plant Schematic
☐ Temporary disposal plan
☐ Other (list all): _______________________________________

Section J:  Appendices

1. Contents of Site Specific Land Application Plans

2. Contents of General Land Application Plans
Certification Statement

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. In addition, I certify that I am aware of the terms and conditions of the Individual Permit for Biosolids Management and I agree to comply with those requirements.”

Signature ___________________________________ Date ________________________

Title ______________________________________ Telephone number ___________

Upon request of the permitting authority, you must submit any other information necessary to assess biosolids/septage use or disposal practices at your facility or identify appropriate permitting requirements.

Submitting Your Permit Application

You must submit your permit application to the following:

South Dakota Department of Environment and Natural Resources
Surface Water Quality Program
PMB 2020
Joe Foss Building
523 East Capitol Avenue
Pierre, South Dakota 57501-3182

Attention:

Joe Stonesifer
State Biosolids Coordinator
(605) 773-3351; fax (605) 773-5286
E-mail: Joe.Stonesifer@state.sd.us
Appendix 1

Contents of Site Specific Land Application Plans

A site specific land application plan is required for every site where non-exceptional quality biosolids are applied to the land.

Site specific land application plan(s) must provide information necessary to determine if a site is appropriate for land application of biosolids. Your site specific land application plan(s) must provide a description of how the site(s) will be managed and, at a minimum, the following information:

1) Whether or not it is known or can be determined that biosolids containing pollutants in excess of the values in Table 3 of Appendix 1 of this permit have ever been applied to the site, and if so:
   - The date(s) when the biosolids were applied (if known);
   - The amount of biosolids applied (if known);
   - The concentration of pollutants in the biosolids (if known);
   - The area(s) of the site to which biosolids were applied (if known);

2) A discussion of the types of crops grown or expected to be grown, their intended end use (e.g. pasture grass for a feed crop, corn as a food crop), and the current distribution of crops on the site;

3) An explanation of how agronomic rates will be determined during the life of the site along with any currently available calculations. Whenever agronomic rates are determined or conditions change (i.e. a change in crops or agronomic rates) an update of the agronomic rate calculations must be filed with the department;

4) Method(s) of application;

5) Seasonal and daily timing of biosolids applications;

6) Any available data from soils, surface water, or groundwater monitoring collected from the site within the last two years, and any proposed new monitoring or continuation of existing monitoring programs;

7) The name of the county where biosolids will be applied;

8) A description of how biosolids will be stored at the site and also addressing related off-site storage;

9) Site map(s) showing:
   - The means of access to the facility and location by street address if applicable; a copy of the assessor’s plat map(s) with the application area(s) clearly shown or the latitude and longitude of the approximate center of each land application site (with section, township, and range), and other means of identifying the location as appropriate and available;
   - The number of acres in the site;
• Location and extent of any wetlands on the site;
• A topographic relief of the application site and surrounding areas;
• Adjacent properties and uses and their zoning classification;
• Any seasonal surface water bodies located on the site or perennial surface water bodies within ¼ mile of the site;
• The location of any wells within ¼ mile of the site that are listed in public records or otherwise known to you, whether for domestic, irrigation, or other purposes;
• The width of buffer zones to surface waters, property boundaries, and other features requiring buffers;
• The presence and extent of any threatened or endangered species or related critical habitat;
• Any portion of the site that falls within a wellhead protection area;
• The location and size of any areas which will be used to store biosolids.

10) If the seasonal groundwater is three feet or less below the surface, a management plan describing how you will protect groundwater. For example, your plan may limit applications to the time of year when groundwater is receding to less than three feet and growing vegetation will use the nitrogen in the biosolids.

11) A description of how access to the site will be restricted (i.e. signs posted around the site or other approved method of access restriction).

12) Written approval of the landowner when bulk biosolids which do not meet standards for exceptional quality biosolids will be applied to the land.
Appendix 2

Contents of General Land Application Plans

A general land application plan is required when all biosolids sites are not identified in the permit application submitted for coverage under the South Dakota Surface Water Discharge Program Individual Permit for Biosolids Management.

1) Describe the geographical area covered by the plan, including the names of all counties where biosolids will be applied;

2) Identify site selection criteria;

3) Describe how sites will be managed;

4) Provide for advance notice to the department new or expanded land application sites. The advance notice must be at least 30 days, to allow time for the department to object prior to the biosolids applications.
STATE OF SOUTH DAKOTA

BEFORE THE SECRETARY OF

THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF THE )
APPLICATION OF )
) CERTIFICATION OF )
) APPLICANT
) STATE OF ____________________________
) COUNTY OF _________________________

I, ________________________________, the applicant in the above matter after being duly sworn upon oath hereby certify the following information in regard to this application:

I have read and understand South Dakota Codified Law Section 1-40-27 which provides:

"The secretary may reject an application for any permit filed pursuant to Titles 34A or 45, including any application by any concentrated swine feeding operation for authorization to operate under a general permit, upon making a specific finding that:

(1) The applicant is unsuited or unqualified to perform the obligations of a permit holder based upon a finding that the applicant, any officer, director, partner, or resident general manager of the facility for which application has been made:
   (a) Has intentionally misrepresented a material fact in applying for a permit;
   (b) Has been convicted of a felony or other crime involving moral turpitude;
   (c) Has habitually and intentionally violated environmental laws of any state or the United States which have caused significant and material environmental damage;
   (d) Has had any permit revoked under the environmental laws of any state or the United States; or
   (e) Has otherwise demonstrated through clear and convincing evidence of previous actions that the applicant lacks the necessary good character and competency to reliably carry out the obligations imposed by law upon the permit holder; or

(2) The application substantially duplicates an application by the same applicant denied within the past five years which denial has not been reversed by a court of competent jurisdiction. Nothing in this subdivision may be construed to prohibit an applicant from submitting a new application for a permit previously denied, if the new application represents a good faith attempt by the applicant to correct the deficiencies that served as the basis for the denial in the original application.

All applications filed pursuant to Titles 34A and 45 shall include a certification, sworn to under oath and signed by the applicant, that he is not disqualified by reason of this section from obtaining a permit. In the absence of evidence to the contrary, that certification shall constitute a prima facie showing of the suitability and qualification of the applicant. If at any point in the application review, recommendation or hearing process, the secretary finds the applicant has intentionally made any material misrepresentation of fact in regard to this certification,
consideration of the application may be suspended and the application may be rejected as
provided for under this section.

Applications rejected pursuant to this section constitute final agency action upon that
application and may be appealed to circuit court as provided for under chapter 1-26."

I certify pursuant to 1-40-27, that as an applicant, officer, director, partner, or resident general
manager of the activity or facility for which the application has been made that I; a) have not
intentionally misrepresented a material fact in applying for a permit; b) have not been convicted
of a felony or other crime of moral turpitude; c) have not habitually and intentionally violated
environmental laws of any state or the United States which have caused significant and material
environmental damage; (d) have not had any permit revoked under the environmental laws of
any state or the United States; or e) have not otherwise demonstrated through clear and
convincing evidence of previous actions that I lack the necessary good character and competency
to reliably carry out the obligations imposed by law upon me. I also certify that this application
does not substantially duplicate an application by the same applicant denied within the past five
years which denial has not been reversed by a court of competent jurisdiction. Further;

“I declare and affirm under the penalties of perjury that this claim (petition, application,
information) has been examined by me, and to the best of my knowledge and belief, is in all
things true and correct.”

Dated this _____ day of ___________________________ , 20____.

_______________________________________________________
Applicant (print)

_______________________________________________________
Applicant (signature)

Subscribed and sworn before me this _____ day of ___________________________ , 20____.

_______________________________________________________
Notary Public (signature)

My commission expires: ___________________________

(SEAL)

PLEASE ATTACH ANY ADDITIONAL INFORMATION NECESSARY TO DISCLOSE
ALL FACTS AND DOCUMENTS PERTAINING TO
SDCL 1-40-27 (1) (a) THROUGH (e).
ALL VIOLATIONS MUST BE DISCLOSED, BUT WILL NOT
AUTOMATICALLY RESULT IN THE REJECTION OF AN APPLICATION