SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1. All applicants must complete Section A (General Information).

2. Will this facility generate sewage sludge? __Yes __No

Will this facility derive a material from sewage sludge? __Yes __No

If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

3. Will this facility apply sewage sludge to the land? __Yes __No

Will sewage sludge from this facility be applied to the land? __Yes __No

If you answered No to both questions above, skip Section C.

If you answered Yes to either, answer the following three questions:

a. Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? __Yes __No

b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? __Yes __No

c. Will sewage sludge from this facility be sent to another facility for treatment or blending? __Yes __No

If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered Yes to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? __Yes __No

If Yes, complete Section D (Surface Disposal).
SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1. Facility Information.
   a. Facility name:
   b. Contact person:
      Title: ____________________________
      Phone: ( ) ______________________
   c. Mailing address:
      Street or P.O. Box: ________________
      City or Town: ____________________
      State: ___________ Zip: ___________
   d. Facility location:
      Street or Route #: ________________
      County: __________________________
      City or Town: ____________________
      State: ___________ Zip: ___________
   e. Is this facility a Class I sludge management facility? ___Yes ___No
   f. Facility design flow rate: ___________ mgd
   g. Total population served: ___________
   h. Indicate the type of facility:
      ___ Publicly owned treatment works (POTW)
      ___ Privately owned treatment works
      ___ Federally owned treatment works
      ___ Blending or treatment operation
      ___ Surface disposal site
      ___ Other (describe): _______________

2. Applicant Information. If the applicant is different from the above, provide the following:
   a. Applicant name:
   b. Mailing address:
      Street or P.O. Box: ________________
      City or Town: ____________________
      State: ___________ Zip: ___________
   c. Contact person:
      Title: ____________________________
      Phone: ( ) ______________________
   d. Is the applicant the owner or operator (or both) of this facility? ___owner ___operator
   e. Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
      ___ facility ___ applicant

3. Permit Information.
   a. Facility's VPDES permit number (if applicable):
   b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or
      applied for that regulate this facility's sewage sludge management practices:
      Permit Number: ___________________
      Type of Permit: ___________________

4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
   facility occur in Indian Country? ___Yes ___No If yes, describe:
5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
   a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, 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 1/4 mile of the property boundaries.

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

7. Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge 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).
   Name: ____________________________
   Mailing address: __________________———
   Street or P.O. Box: ____________________
   City or Town: _________________________ State: ________ Zip: ________
   Phone: (     ) ______________________
   Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:
   ____________________________

   If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility’s expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

<table>
<thead>
<tr>
<th>POLLUTANT</th>
<th>CONCENTRATION (mg/kg dry weight)</th>
<th>SAMPLE DATE</th>
<th>ANALYTICAL METHOD</th>
<th>DETECTION LEVEL FOR ANALYSIS</th>
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<tbody>
<tr>
<td>Arsenic</td>
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<td>Cadmium</td>
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<td>Zinc</td>
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</table>

9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:

   ___ Section A (General Information)
   ___ Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
   ___ Section C (Land Application of Bulk Sewage Sludge)
   ___ Section D (Surface Disposal)
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 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.

Name and official title

Signature __________________________ Date Signed

Telephone number

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.
Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1. Amount Generated On Site.
   Total dry metric tons per 365-day period generated at your facility:____ dry metric tons

2. Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.
   a. Facility name:
   b. Contact Person:
      Title:
   c. Mailing address:
      Street or P.O. Box:
      City or Town:_________ State:______ Zip:
   d. Facility Address:
      (not P.O. Box)
   e. Total dry metric tons per 365-day period received from this facility:_________ dry metric tons
   f. Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:

3. Treatment Provided at Your Facility.
   a. Which class of pathogen reduction is achieved for the sewage sludge at your facility?
      __Class A  __Class B  __Neither or unknown
   b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
   c. Which vector attraction reduction option is met for the sewage sludge at your facility?
      __Option 1 (Minimum 38 percent reduction in volatile solids)
      __Option 2 (Anaerobic process, with bench-scale demonstration)
      __Option 3 (Aerobic process, with bench-scale demonstration)
      __Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
      __Option 5 (Aerobic processes plus raised temperature)
      __Option 6 (Raise pH to 12 and retain at 11.5)
      __Option 7 (75 percent solids with no unstabilized solids)
      __Option 8 (90 percent solids with unstabilized solids)
      __None or unknown
   d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:
   e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:

4. Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge).
   (If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)
   a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
      ___________ dry metric tons
   b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?
      __Yes  __No

5. Sale or Give-Away in a Bag or Other Container for Application to the Land.
   (Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.)
   a. Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility
6. Shipment Off Site for Treatment or Blending.
   (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)
   a. Receiving facility name:
   b. Facility contact:
      Title:
      Phone: (  )
   c. Mailing address:
      Street or P.O. Box:
      City or Town: ______________ State: ______ Zip:
   d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: ______ dry metric tons
   e. List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:
      Permit Number: ______________ Type of Permit: ______________
   f. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? __Yes __No
      Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?
      __Class A ______Class B ______Neither or unknown
      Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:
   g. Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? __Yes __No
      Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
      __ Option 1 (Minimum 38 percent reduction in volatile solids)
      __ Option 2 (Anaerobic process, with bench-scale demonstration)
      __ Option 3 (Aerobic process, with bench-scale demonstration)
      __ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
      __ Option 5 (Aerobic processes plus raised temperature)
      __ Option 6 (Raise pH to 12 and retain at 11.5)
      __ Option 7 (75 percent solids with no unstabilized solids)
      __ Option 8 (90 percent solids with unstabilized solids)
      __ None unknown
      Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge:
   h. Does the receiving facility provide any additional treatment or blending not identified in f or g above? __Yes __No
      If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:
   i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.
   j. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? __Yes __No
      If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
   k. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? __Yes __No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the
7. Land Application of Bulk Sewage Sludge.

(Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)

a. Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: ____ dry metric tons

b. Do you identify all land application sites in Section C of this application? ___Yes ___No

If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).

c. Are any land application sites located in States other than Virginia? ___Yes ___No

If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.

d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the “notice and necessary” information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).

8. Surface Disposal.

(Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)

a. Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: ____ dry metric tons

b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? ___Yes ___No

If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.

c. Site name or number:

d. Contact person:

Title: ____________________

Phone: ( )

Contact is: ___Site Owner ___Site operator

e. Mailing address.

Street or P.O. Box: ____________________

City or Town: _______________ State: ________ Zip: ______________

f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: ____ dry metric tons

g. List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:

Permit Number: ____________________ Type of Permit: ____________________

9. Incineration.

(Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)

a. Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: ____ dry metric tons

b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ___Yes ___No

If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.

c. Incinerator name or number:

d. Contact person:

Title: ____________________

Phone: ( )

Contact is: ___Incinerator Owner ___Incinerator Operator

e. Mailing address.

Street or P.O. Box: ____________________
FACILITY NAME: ____________________  VPDES PERMIT NUMBER: ________________

City or Town: ____________ State: ______ Zip: ____________

f. Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: ____________ dry metric tons

g. List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing of sewage sludge at this incinerator:

   Permit Number: ____________________  Type of Permit: ____________________

   (Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.)
   a. Landfill name: ____________________
   b. Contact person:
      Title: ____________________
      Phone: (___) ____________
      Contact is: __Landfill Owner  __Landfill Operator
   c. Mailing address:
      Street or P.O. Box: ____________________
      City or Town: ____________ State: ______ Zip: ____________
   d. Landfill location:
      Street or Route #: ____________________
      County: ____________________
      City or Town: ____________ State: ______ Zip: ____________
   e. Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: ____________ dry metric tons
   f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill:
      Permit Number: ____________________  Type of Permit: ____________________
      ____________________
   g. Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill? __Yes  __No
   h. Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq.? __Yes  __No
   i. Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered? __Yes  __No

Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week and time of the day sewage sludge will be transported.
SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

1. Identification of Land Application Site.
   a. Site name or number:
   b. Site location (Complete i and ii)
      i. Street or Route#:
         County: ______________________ State: _______ Zip:
         City or Town: ___________________ Longitude: ______________________
         Latitude: ______________________
         Method of latitude/longitude determination
            _____ USGS map _____ Filed survey _____ Other
      ii. Latitude: ______________________ Longitude: ______________________
         Method of latitude/longitude determination
            _____ USGS map _____ Filed survey _____ Other
   c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.

2. Owner Information.
   a. Are you the owner of this land application site? ___Yes ___No
   b. If no, provide the following information about the owner:
      Name:
      Street or P.O. Box:
      City or Town: ______________________ State: _______ Zip:
      Phone: (       )

3. Applier Information:
   a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? ___Yes ___No
   b. If no, provide the following information for the person who applies the sewage sludge:
      Name:
      Street or P.O. Box:
      City or Town: ______________________ State: _______ Zip:
      Phone: (       )
   c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:
      Permit Number: _______________________
      Type of Permit: _______________________

4. Site Type. Identify the type of land application site from among the following:
   ___Agricultural land ___Reclamation site ___Forest
   ___Public contact site ___Other. Describe

5. Vector Attraction Reduction.
   Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? ___Yes ___No
   If yes, answer a and b.
   a. Indicate which vector attraction reduction option is met:
      ___ Option 9 (Injection below land surface)
      ___ Option 10 (Incorporation into soil within 6 hours)
   b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site to reduce the vector attraction properties of sewage sludge:

6. Cumulative Loadings and Remaining Allotments.
   (Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.)
   a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the
CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993?  __Yes __No
If no, sewage sludge subject to the CPLRs may not be applied to this site.
If yes, provide the following information:
Permitting authority:
Contact person:
Phone:(     )

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993?  __Yes __No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares:_________________________ (one hectare = 2.471 acres)
d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.
Facility name:
Facility contact:
Title:
Phone: (     )
Mailing address.
Street or P.O. Box:
City or Town:______________State:_______Zip:
e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Cumulative loading</th>
<th>Allotment remaining</th>
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<tbody>
<tr>
<td>Arsenic</td>
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<td>Cadmium</td>
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Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge.
Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)

pH (S. U.)

Percent Solids (%)

Ammonium Nitrogen (mg/kg)

Nitrate Nitrogen (mg/kg)

Total Kjeldahl Nitrogen (mg/kg)

Total Phosphorus (mg/kg)

Total Potassium (mg/kg)

Alkalinity as CaCO$_3$ (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO$_3$. 
8. Storage Requirements.
   Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.
   Proposed sludge storage facilities must also provide the following information:
   a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
      1) Water wells, abandoned or operating
      2) Surface waters
      3) Springs
      4) Public water supply(s)
      5) Sinkholes
      6) Underground and/or surface mines
      7) Mine pool (or other) surface water discharge points
      8) Mining spoil piles and mine dumps
      9) Quarry(s)
      10) Sand and gravel pits
      11) Gas and oil wells
      12) Diversion ditch(s)
      13) Agricultural drainage ditch(s)
      14) Occupied dwellings, including industrial and commercial establishments
      15) Landfills or dumps
      16) Other unlined impoundments
      17) Septic tanks and drainfields
      18) Injection wells
      19) Rock outcrops
   b. A topographic map of sufficient detail to clearly show the following information:
      1) Maximum and minimum percent slopes
      2) Depressions on the site that may collect water
      3) Drainageways that may attribute to rainfall run-on to or runoff from this site
      4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
   c. Data and specifications for the storage facility lining material.
   d. Plan and cross-sectional views of the storage facility.
   e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.

9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.

10. Landowner Agreement Forms. Provide a properly completed Land Application Agreement – Biosolids Form and necessary attachments (attached at end of VPDES Sewage Sludge Permit Application Form) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

   Are any ground water monitoring data available for this land application site? __Yes __No
   If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.
   (Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)
   a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.

c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service  
Virginia Field Office  
6669 Short Lane  
Gloucester, VA 23061  
TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.) Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

1) Soil symbol  
2) Soil series, textural phase and slope range  
3) Depth to seasonal high water table  
4) Depth to bedrock  
5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:

1) Soil symbol  
2) Soil series, textural phase and slope range  
3) Depth to seasonal high water table  
4) Depth to bedrock  
5) Estimated soil productivity group (for the proposed crop rotation)
f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

- Soil Organic Matter (%)
- Soil pH (std. units)
- Cation Exchange Capacity (meq/100g)
- Total Nitrogen (ppm)
- Organic Nitrogen (ppm)
- Ammonia Nitrogen (ppm)
- Nitrate Nitrogen (ppm)
- Available Phosphorus (ppm)
- Exchangeable Potassium (mg/100g)
- Exchangeable Sodium (mg/100g)
- Exchangeable Calcium (mg/100g)
- Exchangeable Magnesium (mg/100g)
- Arsenic (ppm)
- Cadmium (ppm)
- Copper (ppm)
- Lead (ppm)
- Mercury (ppm)
- Molybdenum (ppm)
- Nickel (ppm)
- Selenium (ppm)
- Zinc (ppm)
- Manganese (ppm)
- Particle Size Analysis or
- USDA Textural Estimate (%)


g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.

h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.
SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1. Information on Active Sewage Sludge Units.
   a. Unit name or number:
   b. Unit location
      i. Street or Route#:
         County:
         City or Town: State: Zip:
      ii. Latitude: Longitude:
         Method of latitude/longitude determination
         USGS map Filed survey Other
   c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.
   d. Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: dry metric tons.
   e. Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: dry metric tons.
   f. Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of $1 \times 10^{-7}$ cm/sec?
      Yes
      No
      If yes, describe the liner or attach a description.
   g. Does the active sewage sludge 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 permits for leachate disposal:
   h. If you answered no to either f or g, answer the following:
      Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?
      Yes
      No
      If yes, provide the actual distance in meters:
   i. Remaining capacity of active sewage sludge unit, in dry metric tons:
      dry metric tons
      Anticipated closure date for active sewage sludge unit, if known:
      (MM/DD/YYYY)
      Provide with this application a copy of any closure plan developed for this active sewage sludge unit.

2. Sewage Sludge from Other Facilities.
   Is sewage sludge sent to this active sewage sludge unit from any facilities other than yours?
   Yes
   No
   If yes, provide the following information for each such facility, attach additional sheets as necessary.
   a. Facility name:
   b. Facility contact:
      Title:
      Phone: (   )
   c. Mailing address.
      Street or P.O. Box:
      City or Town: State: Zip:
   d. List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the facility's sewage sludge management practices:
      Permit Number: Type of Permit:
      __________________
   e. Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
      Class A
      Class B
      Neither or unknown
   f. Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:
   g. Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?
      Option 1 (Minimum 38 percent reduction in volatile solids)
h. Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:

i. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:

3. Vector Attraction Reduction.
   a. Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?
      __ Option 9 (Injection below land surface)
      __ Option 10 (Incorporation into soil within 6 hours)
      __ Option 11 (Covering active sewage sludge unit daily)
   b. Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:

   a. Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit? __Yes __No
      If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.
   b. Has a ground water monitoring program been prepared for this active sewage sludge unit?
      __Yes __No  If yes, submit a copy of the ground water monitoring program with this application.
   c. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated? __Yes __No
      If yes, submit a copy of the certification with this application.

5. Site-Specific Limits.
   Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? __Yes __No  If yes, submit information to support the request for site-specific pollutant limits with this application.
A. This land application agreement is made on _______ between ____________________________ referred to here as “Landowner”, and ____________________________ referred to here as the “Permittee”. This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:
The Landowner is the owner of record of the real property located in ___________________________, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids

<table>
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☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply biosolids on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of biosolids for the purpose of determining compliance with regulatory requirements applicable to such application.

Landowner – Printed Name, Title Signature Mailing Address

Permittee:
_____________________, the Permittee, agrees to apply biosolids on the Landowner’s land in the manner authorized by the VPDES Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia. The Permittee agrees to notify the Landowner or the Landowner’s designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner’s land. Notice shall include the source of residuals to be applied.

☐ I reviewed the documents assigning signatory authority to the person signing for landowner above. I will make a copy of this document available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Permittee – Authorized Representative Printed Name Signature Mailing Address
LAND APPLICATION AGREEMENT - BIO SOLIDS

Permittee: ___________________________  County or City: ___________________________
Landowner: ___________________________

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access
   a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
   b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:
   a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
   d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
   e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:
   Following biosolids application to pasture or hayland sites:
   a. Meat producing livestock shall not be grazed for 30 days,
   b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
   c. Other animals shall be restricted from grazing for 30 days;

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner’s land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

_________________________  ___________________
Landowner’s Signature  Date
LAND APPLICATION AGREEMENT - BIOSOLIDS
Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A Land Application Agreement – Biosolids form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: ________________________________
County or City: __________________________

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LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: ___________________________  City/County: ___________________________
Landowner: __________________________

Supplement A: Additional Land Application Sites

Table 1 continued: Parcels authorized to receive biosolids.

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