



Land Application of Biosolids Permit Application

Alaska Department of Environmental Conservation
Solid Waste Program

DEC Office Only:

Facility Name: _____

Authorization #: _____

Instructions:

This application is for a new permit or a permit renewal for the Land Application of Biosolids (treated sewage solids or septage).

If you are treating sewage solids or septage to meet the pathogen reduction and/or vector attraction reduction requirements of 40 CFR 503, a separate biosolids treatment facility application will be required.

However, if the treatment is limited to the addition of lime, or only requires sampling to create Class B biosolids, and the biosolids will be applied to land owned and controlled by the permit applicant, you may include the information required in the Land Application of Biosolids Supplemental Monitoring Requirements and qualify for a Type Y Comprehensive permit.

In the application, the term **“facility”** refers to all land, structures, other appurtenances, and improvements on land used for treatment or storage of sewage solids, septage, or biosolids. **“Application site”** refers to the boundaries of the property where biosolids are applied to land.

If a required item is not applicable, please explain why. Include all the applicable information for each item regardless if it has been previously submitted. The specific location of information within each submitted document or attachment must also be noted for each item

For a new facility or significant change to an existing facility, prepare a draft application with a list of questions and schedule a meeting with the ADEC Solid Waste Program.

DEC Contact Information For Biosolids

The Alaska Department of Environmental Conservation
Division of Environmental Health
Solid Waste Program
<http://dec.alaska.gov/ch/sw>

Anchorage

555 Cordova Street
Anchorage, AK 99501
(907) 269-7622
FAX (907) 269-7600

Fairbanks & Juneau

610 University Avenue
Fairbanks, AK 99709
(907) 451-2135
FAX (907) 451-2188

Section 1. Application Site Information – Please complete a copy of this section for each separate application site.

Application Site Identification:

Application Site Address:

City: Zip:

Legal Property Description:

Section: Township: Range: Meridian:

General Description of Location:

Latitude: Longitude:

Agricultural or Silvicultural purpose of the land:

Landowner: Contact Name:

Address: City: State: Zip:

Email: Phone:

Section 2. Contact Information

Permit Applicant (Co. or Entity):

Contact Name:

Address:	City:	State:	Zip:
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Email:	Phone:
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Type of Entity:	Government	Corporation	Other:
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State of Incorporation or Registration:	Alaska Business License Number:
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IRS Tax ID Number:

Biosolids Applicator (if different than applicant):

Contact Name:

Address:	City:	State:	Zip:
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Email:	Phone:
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Agent/Consultant:

Contact Name:

Address:	City:	State:	Zip:
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Email:	Phone:
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Section 3. Fees

A check or money order for the appropriate fee [listed in 18 AAC 60.700(a) Table E-2] must be submitted with the permit application. If not included, the application will be returned to the applicant.

Submit payment for the first year's annual fee with the initial application for a facility. No fee is required for permit renewal applications; annual fees will be billed each year.

You will be billed separately for time spent reviewing waiver requests.

This application is for a:	New Permit	Permit Renewal
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Section 4. Cover Letter and Certifications

Submit a cover letter with the following information and signature.

1.	A statement indicating you wish to obtain a permit to apply biosolids to land.
2.	A brief general description of the topography, geology, climate, surface hydrology and groundwater hydrology of the land application site(s).
3.	A brief description of any onsite processes that will be applied to the sewage solids or septage prior to application.
4.	The information for the permitted facility that prepares the biosolids, or a citation of the pathogen reduction method (40 CFR 503.32) and the vector attraction reduction method (40 CFR 503.33) to be met for the biosolids.
5.	Provide a brief description of the procedures that will be used to apply the biosolids to the land.
6.	A statement that you are aware of all applicable local ordinances and zoning requirements and a list of any other necessary permits or authorizations.
7.	The applicant must submit a signed cover letter.
8.	The applicant must submit the following signed statement, which may be added exactly as shown in the box below to the cover letter, or the applicant may sign this sheet and submit it as an attachment to the cover letter.

I certify, under penalty of perjury, that all of the information and exhibits in this cover letter and application are true, accurate, and complete.

Printed Name:	Title:
Signature:	Date:

All applications must be signed as follows per 18 AAC 15.030:

- **Corporations:** A principal executive officer, an officer that is no lower than the level of vice president, or a duly authorized representative who is responsible for the overall management of the project or operation.
- **Municipal, state, federal, or other public entity:** A principal executive officer, ranking elected official, or duly authorized employee.
- **Partnerships:** A general partner.
- **Sole proprietorship:** The proprietor

Section 6. Location Information

For each application site, please fill out a separate copy of this page and attach the required location and design documentation. Please identify the specific attachment page that addresses each requested item

1. Property Ownership				<u>Attachment #/Page</u>
a. Attach a copy of the deed or another legal document that identifies the landowner(s) of the land application site(s).				
b. If the applicant is not the landowner, attach a written and notarized statement or a copy of any lease agreement signed by the landowner showing that the landowner consents to the land application of biosolids.				
2. Surface Water Information				
a. Distance to nearest surface water body:		feet		
b. Provide information on potential for surface water (storm water or ponds, streams, etc.) to run-on to the facility.				
c. Provide information on the potential for septage or biosolids carried by run-off from the facility to impact nearby surface waters.				
4. Soil Conditions				
a. Describe the soil conditions of the application site, and attach the map in #5.f. of this section. Must be completed for each application site – include Site ID in the description if including more than one site.				
b. List the crop(s) that will be grown on the site, and the nitrogen requirements for each crop.				
<u>Crop</u>	<u>Planting month</u>	<u>Harvest Month</u>	<u>Nitrogen requirement</u>	

Section 6. Location Information (continued)

5.	Maps Attach maps and/or aerial photographs as needed to show the following. You may submit maps that show more than one of the required items. For example, one map can show property boundaries, wetland and surface water locations, etc.	<u>Attachment #/Page</u>
	a. Location of all facility and application site property boundaries.	
	b. Location and flow direction of surface water bodies, streams, and containment or diversion structures, and public drinking water supplies within 2 miles of the facility and application site property boundaries.	
	c. Location of all residential drinking water wells within one-half mile of each application site. There should be no wells within 100 feet of any land application site.	
	d. Location of each of the major soil types on the application site(s), including descriptions, depths, and permeability, cation exchange capacity, and pH.	

Section 7. Facility Design

A complete set of the most recent design drawings and maps that include the following information must be submitted. Please ensure that the documentation represents current conditions of the entire facility.

1.	Site map(s) which show site conditions, including:	<u>Attachment #/Page</u>
	a. All previous, existing and planned land application areas. The drawings should demonstrate all biosolids will be applied at least 50 feet from the property boundary and at least 33 feet from any surface water body.	
	b. Fences, gates, berms and other access control devices around the application site(s).	
	c. Access roads to and within the facility.	
	d. Storage area(s) for biosolids.	
2.	Plan view drawings with contour lines <u>and</u> cross section drawings that show:	
	a. All roads, ditches, trenches, and berms associated with the facility.	
	b. Storage areas (or manufacturer specifications if a commercial product is used)	
3.	Construction detail drawings <u>and</u> cross sections that show:	
	a. Storm water drainage structures, culverts and other surface water control devices.	
	b. Storage areas (or manufacturer specifications if a commercial product is used)	
4.	Design calculations, data and documentation must include the following and supporting calculations.	
	a. An estimate (including calculations) of the maximum inventory of septage and biosolids that may be stored onsite at the facility at any given time.	
	b. An estimate of the total weight (or volume) of biosolids to be land applied each calendar year.	

Section 8. Operations Plan

The operations plan should be a **separate document** that provides sufficient detail and information that the applier could use it to perform all necessary tasks required for land application.

The operations plan is a flexible document that should be reviewed annually and updated as necessary. The following table represents the minimum requirements which must be included. Additional information should be added, as needed to ensure the facility operates in compliance with the State Solid Waste Regulations and 40 CFR 503. A copy of the operations plan should be kept at the facility and it must include the following information.

Please include a reference page and section of the operations plan where each item is addressed.

1.	Access control	<u>page/section</u>
	a. If the biosolids to be applied are rated Class B, list the requirements for site restrictions required by 40 CFR 503.32(b)(5).	
	b. List any additional necessary site controls	
	c. Measures to control access to the facility, including gates, fences, berms or other means of preventing access; hours of operation; signage; and other control measures.	
	d. Any signage at the facility.	
2.	Agronomic rate of application	
	a. Describe how the agronomic rate of application will be determined.	
	b. If sampling is required by the applicant or applicator, list the test method for each of the required analyses [pH, total Kjeldahl nitrogen (TKN), Nitrate nitrogen (NO ₃ -N), Ammonia nitrogen (NH ₄ -N)], phosphorus (P) and potassium (K)].	
	c. Include the sampling locations on the map in Section 6. #5.e. for each application area sampled, and list sampling depth(s).	
	d. Include the timing and frequency of sampling.	
	e. Include a description of the sampling method and proper handling and shipping of the sample containers and the name of the testing laboratory	
3.	Material acceptance and handling policy	
	a. Screening procedures to ensure that only domestic septage or biosolids are stored and applied at the facility.	
4.	Biosolids Storage	
	a. Describe the methods and facilities used to store biosolids and how these maintain the pathogen and vector attraction reduction goals. Biosolids may not be stored for greater than 60 days.	
	b. Describe how run-off from the storage area will be controlled, collected, and disposed or re-used.	
5.	Biosolids Application	
	a. Describe the methods and equipment used for application of the biosolids to the field.	
	b. Describe how the equipment will be monitored to ensure that the proper application rate is met.	
	c. Include photographs of the application equipment.	

Section 8. Operations Plan (continued)		
6.	Odor Control Plan	<u>page/section</u>
	a. Describe how odors will be monitored and controlled at the site. Include drawings of any odor control devices in Section 7.	
7.	Litter, vector and nuisance control plan	
	a. Procedures to ensure wildlife and domestic animals do not endanger the public or facility staff, are not harmed by contact with the waste, and do not become a nuisance.	
	b. Procedures to control dust, noise, traffic, litter, disease vectors and other effects from facility operations so they do not become a nuisance or hazard outside of the facility boundary.	
8.	Surface & Storm Water Control Plan	
	a. Describe how run-off from the application site will be controlled to ensure that all biosolids remain onsite and do not pollute any surface water. Include how the system is controlled, monitored, and any if necessary, polluted run-off is collected and disposed or reused.	
	b. Describe how run-on water from upgradient sources will be controlled to reduce production of leachate from the biosolids if stored.	
9.	Corrective action plan describe the actions for:	
	a. Cleaning up any improper or unauthorized waste.	
	b. Repairing any damage to the facility.	
	c. Addressing any violations of regulations or permit conditions.	
10.	Applicator training	
	a. Identify any training that will be required for an applicator, including on-the-job training.	
	b. Describe how that training will be documented and filed in the operating record.	
11.	Visual Monitoring	
	a. Description of the procedures for visual monitoring of the facility to ensure that permit requirements are met. Including each location that will be visited and the expected items to be observed at each location. <i>[Application sites should be monitored for at least 60 days after application and storage facilities must be monitored monthly.]</i>	
	b. A Checklist or visual monitoring form specific to your facility including, at a minimum, the following: <ul style="list-style-type: none"> • Signs of damage to the facility – structures, monitoring devices, storage areas, etc. • Evidence of run on to the storage areas • Evidence of polluted run off from the facility or application site(s) • Waste is properly contained • Evidence of fire or combustion in stored waste • Evidence of stress to fish or wildlife • Any permit violations 	

Section 8. Operations Plan (continued)		
12.	Recordkeeping	page/section
	a. Describe how each load of biosolids received will be identified and how records associated with each application will be organized. Include copies of any forms used for tracking biosolids from delivery at the facility to land application.	
	b. Include a copy of the certification statements from 40 CFR 503.17 that will be used for each application.	
13.	Operating record	
	a. The operating record should at a minimum include the permit, permit application, visual monitoring records, inspection records, training records, testing and analytical data, any other required permits, the operations plan, and batch records with the appropriate certification.	
	b. The plan must state where the operating record will be located.	
14.	Reporting	
	c. Agreement that you will submit an annual report with the information required in the permit conditions.	

Recommended EPA Biosolids Reference Links	
<u>40 CFR 503</u>	<u>A Plain English Guide to the EPA Part 503 Biosolids Rule</u>
<u>www.epa.gov/biosolids</u>	<u>FAQs on Sewage Sludge/Biosolids Annual Reporting</u>
<u>Control of Pathogens and Vector Attraction in Sewage Sludge</u>	
<u>Process Design Manual Land Application of Sewage Sludge and Domestic Septage</u>	
<u>A Guide for Land Appliers on the Requirements of the Federal Standards for the Use or Disposal of Sewage Sludge, 40 CFR Part 503</u>	
<u>Preparing Sewage Sludge for Land Application or Surface Disposal</u>	