

Introduction

The attached form and guidelines outline the information required for an application for an authorization to apply domestic wastewater (from septic and holding tank) to land in Alberta. Please ensure that each section of the application is completed in a concise and clear manner.

Description of this activity

The *Environmental Protection and Enhancement Act*, section 176 specifies that:

No person shall dispose of waste except

- a) at a waste management facility, or in a container the content of which will be taken to a waste management facility, that is the subject of the appropriate approval, registration or notice required under this Act, or
- b) in accordance with the written authorization of the Director.

A completed application form is required to gather the information required by Alberta Environment and Parks to evaluate and consider approval of land application of domestic wastewater (septic and holding tank wastewater). All information spaces in this application must be filled in or marked not applicable (N/A). Failure to provide all necessary information may cause the application to be rejected and returned to the applicant. All the applications must be submitted electronically at:

- aep.epeaapplications@gov.ab.ca

Alberta Environment and Parks	Phone: 780-427-6311
Regulatory Approvals Center	Fax: 780-422-0154
5 th Floor, South Petroleum Plaza	E-mail: aep.epeaapplications@gov.ab.ca
9915 108 Street	
Edmonton, AB T5K 2G8	

You may contact the nearest Alberta Environment and Parks office (listed below) for further information or clarification. The applicant shall not apply domestic wastewater on land prior to receiving the Letter of Authorization.

Alberta Environment and Parks Regional Offices

Red Deer North Saskatchewan Region
111, 4999-98 Avenue
Edmonton, Alberta T6B 2X3
Phone: (780) 427-7617
Fax: (780) 427-7824

Upper Athabasca Region
Spruce Grove District
Suite1, 250 Diamond Avenue
Spruce Grove, Alberta T7X 4C7
Phone: (780) 960-8600
Fax: (780) 960-8605

South Saskatchewan Region
2nd Floor Deerfoot Square
2938 11 Street NE
Calgary, Alberta T2E 7L7
Phone: (403) 297-7948
Fax: (403) 297-5944

Red Deer North Saskatchewan Region
3rd Floor, 4920- 51 Street
Red Deer, Alberta T4N 6K8
Phone: (403) 340-7052
Fax: (403) 340-5022

Peace Region
2nd Floor, 9621 96 Avenue
Bag 900, Box # 5
Peace River, Alberta T8S 1T4
Phone: (780) 624-6330
Fax: (780) 618-4350

South Saskatchewan Region
2nd Floor, 200 5 Ave South
Lethbridge, Alberta T1J 4C7
Phone: (403) 381-5322
Fax: (403) 382-4428

Lower Athabasca Region
111, 4999-98 Avenue
Edmonton, Alberta T6B 2X3
Phone: (780) 427-7617
Fax: (780) 427-7824

FOIP STATEMENT: Personal information on this form is collected under the authority of section 33(c) of the Freedom of Information and Protection of Privacy (FOIP) Act and will be used to administer the *Environmental Protection and Enhancement Act* and its associated regulations. **This form is a public record that is available to anyone.** All information contained on this form (including personal information) is disclosed by Alberta Environment and Parks to anyone requesting a copy in accordance with Section 2 of the *Environmental Protection and Enhancement Act*, Disclosure of Information Regulation. For further information about the collection and use of this information please contact Alberta Environment and Parks – Regulatory Approvals Centre at aep.epeaapplications@gov.ab.ca or call 780-427-6311.

Please complete the following section in legible print

1. Name and address of the applicant and the company:

a) Name of applicant: _____

Address of applicant: _____

Phone number: _____

Email: _____

b) Company Name of the hauling company/contractor: _____

Address (if different than applicant name): _____

Phone number (if different than applicant name): _____

Email: _____

2. From where will the domestic wastewater (septage and holding tank wastewater) will be collected (mark all the ones that apply):

Septic Tank Holding Tank Other (Specify): _____

Residential Restaurants and Food Establishments Car Wash

Industry (Specify) _____

Other (Specify) _____

3. Average monthly volume of domestic wastewater proposed to be applied on land:

_____ Liters per month or _____ Imperial gallons per month

4. During which months you plan to land apply the domestic wastewater on land?

5. Provide a list of approved **Wastewater Treatment Facilities** in your area that you have contacted to enquire about discharging your hauled domestic wastewater and they have refused or are unable to accept it:

Municipality	Facility	Contact Name & Phone No.	Date Contacted

6. Define Boundaries of Area that you plan to land apply the domestic wastewater (waste you have identified in section 2).

a) General location(s) within the municipality:

And/or

b) **LIST of land that you have already have the owner's authorization**

List proposed location of application sites and other information:

Legal land location: (not required if general boundaries defined)				Previous application dates, if any	Method of application surface or incorporation	Classification Causal[#] or Designated^{##}	Current use: (crop, livestock grazing etc.) ^{###}

[#] Casual application site means a site that receives only one application of domestic wastewater per year

^{##} Designated application site means a site that receives more than one application of domestic wastewater per year

^{###} After applying domestic wastewater to land the future land use will be limited. For more details see Appendix A, section D

7. Do the proposed sites (identified in section 6) meet all the soil characteristic criteria outlined in **Table 1** in Appendix A? Yes; No

Note: A soil test may be required to obtain the information to determine whether the soil characteristics meet the requirements of **Table 1**; if soil tests were not conducted, your determination of soil characteristics must be in written form and kept in your records.

8. Do the proposed sites meet all distance criteria outlined in **Table 2** in Appendix A? Yes; No

9. Method of land application of the domestic wastewater:

a) By injection Yes; No

b) Surface application (when surface application is employed, the disposer shall till the land within 48 hours of the surface application to incorporate the domestic wastewater with the surface soil material) Yes; No

c) Surface application with **No** tilling Yes; No

If it is not tilled, the application rates must be reduced as per **Table 4** in Appendix A and the disposer shall pick up unsightly materials from site within 48 hours.

9.1 Will you meet the application rate outlined in **Table 3 and/or Table 4** in Appendix A?

Yes; No

If no, specify what application rates you wish to apply and reasons:

10. Will you collect domestic wastewater during the months when ground is frozen or covered in snow?

Yes; No

If **yes** please explain how you plan to dispose of the domestic wastewater:

11. Do you commit to keep records in the forms provided in Appendix B? Yes; No

12. Do you commit to obtain written approval from land owners and inform them of the land use restrictions as outlined in Appendix B? Yes; No

I confirm that the information provided above is accurate.

Name of Applicant: _____

Signature: _____

Date: _____

Appendix A

A. Site Requirement for Domestic Wastewater to Land Application

The disposer shall only apply domestic wastewater to land when **NO** ice, snow or frozen conditions exist.

The disposer shall only apply domestic wastewater to land that meets the requirements identified in Table 1.

Table 1. Site Suitability Based on Soil Characteristics

Soil Characteristic	Type of Site			
	Casual Application Aite		Designated Application Site	
	Acceptable	Unacceptable	Acceptable	Unacceptable
PH	-	-	>6.5	<6.5
Texture	-	Sand & gravel	All texture except sand & gravel	Sand & gravel
Slope	<5%	>5%	<5%	>5%
Depth to potable aquifer	-	-	>2m	<2m

B. Separation Distances from Specified Features

The disposer shall apply domestic wastewater in accordance with the separation distances from specified features set out in Table 2.

Table 2. Minimum Separation Distances form Specified Features

Feature	Minimum Distance When Tilled into Soil (in meters)	Minimum Distance without Tilling (in meters)
Rivers, Canals, Creeks, Intermittent Drainage Courses, Lakes, Sloughs, Dugouts	30	100
Water Wells	50	50
Areas Zoned Residential or Devoted to Urban Use	500	800
Occupied dwellings	60	100
Road Allowances	10	20
Public Building Perimeter	10	30
Public Buildings	60	100
School Yard Boundaries (School in Session)	200	500
School Yard Boundaries (School not in session)	20	500
Cemeteries, Playgrounds, Parks, Campgrounds	200	500
Property Boundary	60	100

Appendix A

C. Methods of Application of Domestic Wastewater

The disposer shall not exceed the application rates for casual[#] and designated^{##} application sites as specified in Table 3 and/or Table 4.

- The disposer shall only apply domestic wastewater by injection or surface application
- If surface application is employed, the disposer shall till the land within 48 hours of the surface application to incorporate the domestic wastewater with the surface soil material
- If no tilling into the soil occurs, the application rates shall be reduced as per Table 4 and the disposer shall pick up unsightly materials from site within 48 hours

Table 3: Maximum Single and Annual Application Rates of Domestic Wastewater for Casual & Designated Application Sites When Tilled into Soil

Pumpout type	Maximum Single and Annual Application Rates			
	Casual [#] Application Rates		Designated ^{##} Application Rates	
	Single Application	Annual Application	Single Application	Annual Application
Septic Tank	100m ³ /ha	Not allowed	100m ³ /ha	500m ³ /ha
Holding Tank	100m ³ /ha	Not allowed	100m ³ /ha	300m ³ /ha

[#] Casual application site means a site that receives only one application of domestic wastewater per year

^{##} Designated application site means a site that receives more than one application of domestic wastewater per year

Table 4: Maximum Single and Annual Application Rates of Domestic Wastewater for Casual & Designated Application Without Tilling into Soil

Pumpout type	Maximum Single and Annual Application Rates			
	Casual [#] Application Rates		Designated ^{##} Application Rates	
	Single Application	Annual Application	Single Application	Annual Application
Septic Tank	50m ³ /ha	Not allowed	50m ³ /ha	250m ³ /ha
Holding Tank	50m ³ /ha	Not allowed	50m ³ /ha	150m ³ /ha

[#] Casual application site means a site that receives only one application of domestic wastewater per year

^{##} Designated application site means a site that receives more than one application of domestic wastewater per year

Note: 50 m³/ha equates to 3.5m³ spread over area of 6 m wide by 120 m long

D. Land Use Restrictions after Application of Septage

After application of domestic wastewater, the land **may only be used** for the production of forages, oil seeds, small grains, trees and commercial sod. After application of domestic wastewater, the land **shall NOT be used** for the production of root crops, vegetable and fruit crops, or dairy farming pasturing **within three years** of the application of the domestic wastewater.

Appendix B

Landowner Consent Form

(Required for ALL sites)
(Copy must be given to landowner)

Name of Land Owner: _____ Address: _____

Phone number: _____ Email: _____

Land Location: _____

Information regarding land application of the domestic wastewater (septage/holding tank waste):

- The applicant has received a Letter of Authorization to apply domestic wastewater on land. The Letter of Authorization Number is _____; it will expire on _____
- Proposed date for land application Commencement: _____
Termination: _____
- Method of land application of the domestic wastewater
 - a) By injection Yes; No
 - b) surface application (when surface application is employed, the disposer shall till the land within 48 hours of the surface application to incorporate the domestic wastewater with the surface soil material) Yes; No
 - c) Surface application with **no** tilling Yes; No
(If the domestic wastewater is not tilled, the application rates must be reduced in accordance with the Letter of Authorization and the unsightly materials must be collected from site within 48 hours).

I (the applicator or hauler) confirm that the application rate and requirements as outlined in the Letter of Authorization will be met.

Applicator's or Hauler's Name: _____

Signature: _____ Date: _____

Land Owner's Consent:

Landowner(s) or individual(s) in control of the agricultural land give consent to the land application of domestic wastewater collected by the hauler and **agrees with a commitment that after** application of domestic wastewater, the land may only be used for the production of forages, oil seeds, small grains, trees and commercial sod. Also that after application of domestic wastewater, the land **will not** be used for the production of root crops, vegetable and fruit crops, or dairy farming pasturing **within three years** of the application of the domestic wastewater.

Signature of Landowner: _____ Name (print) _____

Date: _____

Appendix B

Record Keeping Forms

Land Treatment of Domestic Wastewater

Field Investigation Report

(Required for ALL sites)
(Copy must be given to landowner)

Name of Land Owner: _____

Land Location: _____ Inspection date: _____

Identify proximity and location of publicly used land features:

	Distance (meters/feet)	Direction (from application site)
Residential areas	_____	_____
Schools	_____	_____
Other farmyards	_____	_____
Parks, playgrounds	_____	_____
Others	_____	_____

Use the area below to identify the areas where domestic wastewater will be applied to land and the pertinent features and distance to water bodies, residential areas, seasonal drainage pattern, roadways, forested area, water wells etc.:

North


