



Kneehill County  
 1600-2 Street NW  
 Three Hills, AB T0M 2A0  
 Phone: 403-443-5541  
 Fax: 403-443-5115

# Private Sewage Permit Application

Permit Number

Permit Type:  Owner  Contractor

Development Permit Number: \_\_\_\_\_

Application Date (M/D/Y): \_\_\_\_\_

Estimated Installation Date (M/D/Y): \_\_\_\_\_

Owner Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City: \_\_\_\_\_ Prov: \_\_\_\_\_  
 Postal Code: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Alt Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email Address: \_\_\_\_\_

Contractor Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City: \_\_\_\_\_ Prov: \_\_\_\_\_  
 Postal Code: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Alt Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email Address: \_\_\_\_\_

Project Location: Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Plan: \_\_\_\_\_ Street Address: \_\_\_\_\_  
 Subdivision or Hamlet \_\_\_\_\_ Tax Roll #: \_\_\_\_\_  
 Legal Subdivision: Part of: \_\_\_\_\_ ¼ Sect: \_\_\_\_\_ Twp: \_\_\_\_\_ Rg: \_\_\_\_\_ W of: \_\_\_\_\_  
 Directions: \_\_\_\_\_

System Design Criteria (complete all applicable items):  Soil Log Report from two (2) test pits with Soil Analysis Report (attach copy)  
 Expected Volume of Effluent: \_\_\_\_\_  cubic meters per day  gallons per day  liters per day Number of bedrooms \_\_\_\_\_  
 Project Type:  Commercial (Conventional)  Industrial (Conventional)  Residential (Conventional) Depth to Water Table \_\_\_\_\_  
 Commercial (Advanced)  Industrial (Advanced)  Residential (Advanced)  Work Camp # of Men \_\_\_\_\_

**SITE EVALUATION DIAGRAM:** Attach a detailed site diagram including the system location in relation to buildings, distance to water supply and/or surface water bodies, and other pertinent information (AS PER PART 7 OF THE PRIVATE SEWAGE STANDARD OF PRACTICE 2009).

Project Information:  New Installation  Alteration Description of Work: \_\_\_\_\_  
 Components Used:  Septic Tank; Working Capacity Size \_\_\_\_\_  Lagoon  Packaged Sewage Treatment Plant  
 Holding Tank; Size \_\_\_\_\_  Open (surface) discharge  At Grade (variance required)  
 Disposal Field; Size \_\_\_\_\_  Treatment Mound; Size \_\_\_\_\_  Sand Filter

**PERMIT APPLICANT DECLARATION:** The permit applicant certifies that this installation will be completed in accordance with the Alberta Safety Codes Act (SCA) and Regulations and work will commence within 90 days. The personal information provided as part of this application is collected under the SCA and the Municipal Government Act and in accordance with the Freedom of Information and Protection of Privacy Act. The information collected is required and will be used for issuing permits, safety codes compliance verification and monitoring and property assessment purposes. The name of the permit holder and the nature of the permit is available to the public upon request. If you have any questions about the collection or use of the personal information provided, please contact the Kneehill County FOIP Coordinator.

Installer's Name (please print) \_\_\_\_\_ Installer's Signature \_\_\_\_\_ Homeowner's Signature (Homeowner permits only) \_\_\_\_\_  
 Private Sewage Installer's Certification Number: PS \_\_\_\_\_ Homeowner Declaration: By signing this permit I hereby certify that I own or will own and occupy this dwelling.

**FOR OFFICE USE ONLY**

Permit Fee: \$ \_\_\_\_\_ \*SCC Levy: \$ \_\_\_\_\_ TOTAL FEE: \$ \_\_\_\_\_  
 Payment Method:  Debit  Cash  Cheque Cheque Number: \_\_\_\_\_  
 \* SCC Levy is 4% of the permit fee with a minimum of \$4.50 and a maximum of \$560

**Permit Validation Section to be completed by the Plumbing Safety Codes Officer:**  
 Special Conditions: \_\_\_\_\_  
 Permit Issuer's Name (print or type) \_\_\_\_\_ Permit Issuer's Signature \_\_\_\_\_  
 Permit Issuer's Designation Number: \_\_\_\_\_ Date of Issue (M/D/Y): \_\_\_\_\_



INSPECTION REQUESTS please contact Superior Safety Codes at:  
 Ph. 403.717.2344 or 1-888.717.2344  
 Allow 48 hours notice for inspection



Permit Number: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Private Sewage System Site Evaluation Diagram

Legal Description: \_\_\_\_\_

↑N													<p>Show the proposed location of the onsite sewage system and indicate the distances from the following:</p> <ul style="list-style-type: none"> <li>• trees</li> <li>• floodplains</li> <li>• wells</li> <li>• waste sources</li> <li>• bedrock</li> <li>• outcrops</li> <li>• buildings</li> <li>• property lines</li> <li>• easement lines</li> <li>• ditches or interceptors</li> <li>• banks or steep slopes</li> <li>• fills</li> <li>• driveways</li> <li>• existing sewage systems</li> <li>• underground utilities</li> <li>• soil test pits</li> </ul>
drainage course 	slope direction 				Test Pit 1 <input type="checkbox"/>				Test Pit 2 <input type="checkbox"/>				

Note: Additional information is required to be submitted separately for the system design detail.



Permit Number: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## SITE EVALUATION REPORT

The information requested in this document must be submitted with the permit application as required by the Private Sewage Systems Standard of Practice 2009.

**INCOMPLETE APPLICATIONS WILL BE RETURNED.**

Permit Number (to be assigned by the Permit Issuer): \_\_\_\_\_

Owner's Name: \_\_\_\_\_

Installer's Name: \_\_\_\_\_

Legal Land Description: \_\_\_\_\_

A detailed diagram of the site where the sewage system will be installed **must** be included.

The following information is to be shown on the diagram and must be to scale:

- Property size (in acres)
- All boundary lines including the lengths in feet or meters
- Buildings, roads, driveways and other property improvements; existing or proposed
- Existing easements
- Wells, cisterns or proposed water source locations on the property
- Surface waters, rock outcrops and drainage features
- Topography of the proposed treatment site \*\*
- Soil test pits locations with surface elevations \*\*
- Location of a permanent benchmark and it's elevation \*\*
- Outline of available treatment areas \*\*

\*\* Not required for the installation of a sewage holding tank.



Permit Number: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## SOIL PROFILE REPORTING

The characteristics of each soil profile investigated shall be described using the Canadian System of Soil Classification nomenclature and include the following in the soil profile description:

- Soil Horizons** – the distance from the ground surface to the top and bottom of each soil horizon observed shall be measured and distinctness and topography of the horizon boundaries described.
- Soil Color** for each soil lies and identified, the matrix color and quantity, size, contrast, and color of any redoximorphic features present shall be described.
- Texture** for each horizon identified, the soil texture classification including any appropriate texture modifier shall be reflected in this evaluation report and a **soil sample of the most restricting layer** affecting the design shall be collected and **analyzed at a laboratory** using a recognized grain or particle size analysis method to determine the texture of the same.

**NOTE: Other than Sandy Clay any texture that uses the word SAND in its description must include sand particle size.**

- Soil Structure** and grade of structure identified for each horizon.
- A statement regarding the treatment capability and dispersal capacity of the available site(s).
- Where the soil profile includes features that will require the lateral movement of water through the soil away from the dispersal system, identified constraints on the system design and allowable effluent hydraulic loading rates, as it relates to linear loading rates.
- A summary of the significant limiting conditions of soil profile and site.
- A justification of the locations and number of the soil profiles investigated.
- A description of the development being served including:
  - Characteristics affecting the determination of peak and average wastewater flows to be used in the design,
  - The peak daily wastewater flow volume to be used for the system design, and
  - Anticipated effluent wastewater strength.



Permit Number: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

*soil profile report con't.*

- Copies of laboratory soils analysis reports have been attached.
- Number of soil profiles investigated; a minimum of two (2) test pit excavations shall be investigated at the proposed location for the soil-based treatment component to classify and assess the treatment capacity of the soil.
- Minimum depth of soil investigation (choose appropriate depth as per YOUR design). The soil profiles shall be investigated to a minimum depth below ground surface of:
  - 4 feet for Treatment Mounds.
  - 9 feet for Treatment Fields receiving primary treated effluent (septic tank effluent).
  - 6.5 feet for Treatment Fields receiving secondary treated effluent (treatment plant, sand filter effluent)
  - 6 feet for Open Discharge systems.

**NOTE:** When the site evaluation report is complete the information from the report is to be used to produce your System Design Report. This includes any features that would require peak flow to be increased.



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Date: \_\_\_\_\_

**Alberta Private Sewage Treatment System Soil Profile Log Form**

Owner Name or Job ID											
Legal Land Location								Test pit			
LSD – ¼	Sec	Twp	Rg.	Mer.	Lot	Block	Plan	Easting		Northing	
Vegetation Notes:						Overall Site Slope %					
						Slope position of test pit					

Test Hole No.	Soil Subgroup	Parent Material	Drainage	Depth of Lab (sample #1)	Depth of Lab (sample #2)

Horizon	Depth (cm) (in)	Texture	Lab or HT	Color	Gleying	Mottling	Structure	Grade	Consistence	Moisture	%Coarse Fragment

Depth to Groundwater:	Limiting Soil Layer Characteristic, describe:
Depth to Seasonally Saturated Soil:	Depth to Limiting Soil Layer:
Limiting Topography:	Depth to Highly Permeable Layer:

Key Limiting Features on System Design:

Weather Condition Notes:

Comments (such as root depth and abundance or other pertinent observations):



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Name: \_\_\_\_\_

Date: \_\_\_\_\_

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Depth to Seasonally Saturated Soil:	Depth to Limiting Soil Layer:
Limiting Topography:	Depth to Highly Permeable Layer:
Key Limiting Features on System Design:	
Weather Condition Notes:	
Comments (such as root depth and abundance or other pertinent observations):	