

Bag 1010 Bonnyville, AB T9N 2J7  
P: 780-826-3171 F: 780-826-4524

**M. D. OF BONNYVILLE NO. 87  
PRIVATE SEWAGE  
DISPOSAL SYSTEM PERMIT**

Sewage Permit Label

**Please call the MD office prior to concealment to book an inspection.  
Minimum 48 hours notice is required.**

PSDS Permit #: \_\_\_\_\_ Roll #: \_\_\_\_\_ Application Date: \_\_\_\_\_  
Development Permit #: \_\_\_\_\_ Permit Issue Date: \_\_\_\_\_  
Permit Type:  Residential Property Owner  Certified PSDS Contractor

Does this installation require building and development permits: Yes  No

Legal Location: PLAN \_\_\_\_\_ BLK \_\_\_\_ LOT \_\_\_\_ PART \_\_\_\_ 1/4 SEC \_\_\_\_ TWP \_\_\_\_ RG \_\_\_\_ W4M  
Rural Address: \_\_\_\_\_ Parcel Size: \_\_\_\_\_ (acres)

Owner Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Other Phone Number: \_\_\_\_\_  
Email: \_\_\_\_\_

WE PROPOSE TO DO AN INSTALLATION AT THE ABOVE PREMISES ZONED AS:  New  Replacement  
 Residential  Commercial  Industrial  Institutional  Recreational

DESCRIPTION OF INSTALLATION: \_\_\_\_\_

**System Design Criteria:**

Expected daily volume of effluent: \_\_\_\_\_ # of Bedrooms: \_\_\_\_\_  
Depth of Water Table if less than 3m from ground surface: \_\_\_\_\_  
Water Softener: Yes  No  Iron Filter: Yes  No   
Reverse Osmosis: Yes  No

**Water Supply Detail:**

Municipal/Community  Dug Well   
Drilled Well  Bored Well   
Casting Depth (Feet): \_\_\_\_\_ Capacity (Gallons): \_\_\_\_\_  
Cistern:  Concrete  Fibreglass  Other \_\_\_\_\_

**FOR INSPECTOR USE ONLY**

**The Permit Holder hereby certifies that this installation will be completed in accordance with the Alberta Safety Codes Act and Regulations and shall be commenced within 90 days. The permit may expire in one year. Owner's signature/declaration (homeowner permits only) "I hereby declare I am the owner of the premises in which the work will be conducted and reside on the property. I am doing the work myself and assume responsibility for compliance with the applicable Act and Regulations.**

Total Permit Fee: \_\_\_\_\_ Job Value: \_\_\_\_\_  
Payment:  Cheque  Cash  Interac  
 MasterCard  Visa  Invoice Account

Permit Issuer Name: \_\_\_\_\_  
Designation #: \_\_\_\_\_  
Permit Issuer Signature: \_\_\_\_\_  
Agency: \_\_\_\_\_ Admin: \_\_\_\_\_  
(6112) (6114)  
Safety Code: \_\_\_\_\_ R#: \_\_\_\_\_  
(6113)

**OFFICE USE ONLY**

Permit Holder Signature: \_\_\_\_\_  
Permit Holder Name: \_\_\_\_\_  
Certification Number: \_\_\_\_\_  
Estimated Start Date: \_\_\_\_\_  
Estimated Completion Date: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Postal Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

**Site Evaluation Details:**

Date of Site Evaluation: \_\_\_\_\_ Time of Day: \_\_\_\_\_ Number of test pits: \_\_\_\_\_

Name of Certified Laboratory: \_\_\_\_\_

Design soil texture Classification (attach lab reports and soil bore logs): \_\_\_\_\_

Effluent Loading Rate (gal/sq ft/day): \_\_\_\_\_ Linear Loading Rate (gal/l ft/day) \_\_\_\_\_

**Plot Plan:**

Attach a drawing showing the layout including:

Location and distances of the septic/holding tank/package treatment plant from the house or building, any water sources any bodies of water, property lines, driveways or roadways.

Location and distances of the disposal field from the house or building, any water sources, any bodies of water, property lines and driveways or roadways.

Proposed Treatment and Disposal System:

**Tank Information:**

**Septic**

- Concrete
- Fibreglass
- Plastic
- Other: \_\_\_\_\_

**Holding**

- Concrete
- Fibreglass
- Plastic
- Other: \_\_\_\_\_

**Packaged Treatment Plant**

- Concrete
- Fibreglass
- Plastic
- Other: \_\_\_\_\_

Make/Model: \_\_\_\_\_ CSA Standard # \_\_\_\_\_ Working Capacity (gal) \_\_\_\_\_

**Discharge Information:**

Pump  Siphon

Make/Model: \_\_\_\_\_ Horsepower: \_\_\_\_\_

Disposal Field  Treatment Mound  Other: \_\_\_\_\_

Media: \_\_\_\_\_ Gravel-depth (inches) \_\_\_\_\_ Chambers-width (feet/inches) \_\_\_\_\_

Total Length of Perforated Pipe/Chamber (feet): \_\_\_\_\_ Number of runs: \_\_\_\_\_

Length of Each Run (feet): \_\_\_\_\_ Trench width (feet): \_\_\_\_\_ Number of trenches: \_\_\_\_\_

Total Area of Trench Bottom (sq ft): \_\_\_\_\_

**Attach completed pressure distribution worksheets, trench bottom worksheets and/or mound worksheets from the Alberta Standard of Practice Handbook to support your system design and sizing.**

**If this sewer system is concealed prior to application approval OR prior to final inspection, pictures of the installation and squirt height test are required to be submitted to the MD and/or the Safety Codes Officer (Inspector). This is to ensure the system has been installed to comply with the Alberta Private Sewage Standard of Practice as well as the Safety Codes Act.**

In addition to the 2 page application, you will need to provide a comprehensive design of the private sewage system. Templates and calculation worksheets are available on Alberta Municipal Affairs website [http://www.municipalaffairs.alberta.ca/CP\\_PSDS\\_DesignToolsAndForms](http://www.municipalaffairs.alberta.ca/CP_PSDS_DesignToolsAndForms). The MD office can also provide these documents to you in paper form or by email.

#### Section 2.1.2.6 of the Alberta Private Sewage Systems Standard of Practice 2015 Edition

- 1)** On-site wastewater treatment systems designed under the prescriptive requirements of this Standard shall not receive substances and wastewater that could adversely affect the operation of the system, which include, but are not limited to, the following:<sup>1</sup>
- a. Storm water
  - b. Surface water
  - c. Abattoir waste
  - d. Sub-surface seepage water from weeping tile systems, foundation drains, or subsoil foundation drainage pipes
  - e. Clearwater waste from a hot tub, spa or hydro massage bath that is not of the fill-and-drain design, unless the design of the septic system specifically includes capacity for the additional wastewater flow and instantaneous flow conditions the fixture will cause along with the potential disinfectants in the water
  - f. Clearwater waste from a swimming pool, except that the waste from the area drains around the pool area may discharge into a system
  - g. Commercial or industrial process wastes
  - h. Waste from a water filter or other water treatment device, if the on-site wastewater treatment system has not been designed to receive and treat the discharge from the filter or treatment device  
2, 3, 4
  - i. Wastes from an iron filter (doesn't matter if it uses chemicals or not)
  - j. Other wastes not considered in the design of the system

<sup>1</sup> Intent: Sentence (1) – The wastewater treatment systems identified in this Standard are intended for treating wastewater. Substances, contaminants and wastewater constituents not typically expected in domestic wastewater require special consideration.

<sup>2</sup> Warning: Clause (1)(h) – The use of water softeners and the discharge of regeneration wastes are not specifically prohibited from discharging to an on-site wastewater treatment system. The use of sodium salts in a water softener is generally more harmful to the soil-based treatment component of a treatment system than the use of potassium-based salts. Increased sodium levels will be present in the domestic water used daily in the house, and may be further increased by the inefficient backwash functioning of a water softener that does not control the regeneration by flow volume. High levels of sodium can reduce the effectiveness of the on-site wastewater treatment system and reduce its life expectancy, particularly when it is located in fine-textured clay soils. Sodium occurring naturally in the groundwater or introduced to the water supply by a water softener using sodium salts may affect the ability of the soil to absorb the effluent. High sodium absorption ratio effluent and the presence of expansive clays, such as montmorillonite clay in the soil may cause a soil-based treatment component to fail. Additional considerations from those set out in the Standard may be required.

<sup>3</sup> Note: Clause (1)(h) – The use of potassium salts as a regeneration agent in a water softener is not expected to have the same negative effect on expansive clays as the use of sodium salts.

<sup>4</sup> Warning: Clause (1)(h) – The discharge of waste from water treatment devices can generate large volumes of water that are not included in flow estimates set out in this Standard. They may generate volumes that cannot be accurately predicted or include substances that are difficult to treat or can harm the system and cause a failure.

Clearwater waste, (as defined in the Standard Of Practice), from a water softener and/or reverse osmosis system may discharge into a sewage treatment system when the soil-based treatment component of the overall system is sized to receive the additional flow from the water treatment equipment. Clearwater waste from a water softener, reverse osmosis or iron filter that were not part of the initial design, may be separately discharged into a designated drywell. (A drywell is a vertical drainage shaft or chamber constructed with perforations along its wall that aids the drainage of clearwater waste into the surrounding soil. A drywell is surrounded by crushed drainage rock to enhance infiltration capabilities and provides an additional void space for storage)