Red TOWN OF TER	<b>Town of Redwater</b> 4924 -47 Street PO Box 397 REDWATER AB T0A 2W0 Phone: (780) 942 3519 Fax: (780) 942 4321 www.redwater.ca	12010 – 111 Avenue Edmonton AB T5G Phone: (780) 454 50 Fax: (780) 454 52	The Inspections Group Inc. 12010 – 111 Avenue NW Edmonton AB T5G 0E6 Phone: (780) 454 5048 Toll Free: (866) 554 5048 Fax: (780) 454 5222 Toll Free: (866) 454 5222 www.inspectionsgroup.com				
PRI	VATE SEWAGE DISPOSAL	SYSTEM APPLICATION FORM					
Application Date: DD / MMM / YYYY	(	Estimated Project Start Date:	DD / MMM / YYYY				
		Estimated Project Completion Date:	DD / MMM / YYYY				
	will be completed in accordance with the Alberta Safe	Cost of Installation (Labour & Material)\$ ety Codes Act. A permit may expire if the undertaking to which red when applied for in writing prior to permit expiry date.	it applies: (a) is not commenced within 90 days				
Owner Name:	Ma	ailing Address:					
City:	Prov: Postal Code:	Phone:	_Fax:				
Owner's Signature / Declaration (Single Fa "I hereby declare I am the owner of the premises in w applicable Act and Regulations"	mily Residential Only)	Email:					
Company Name:	Ma	ailing Address:					
City:	Prov: Postal Code:	Phone:	_Fax:				
Cell:	Email:						
PSDS Installer's Number	Print Private Sewage Installer's Name	Installer's Sign	ature				
Project Location in the Town of Redwater: Street Address:		Tax Roll #:					
Legal Subdivision: Part of:	Section: Towns	hip: Range:	West of:				
Subdivision Name:	Lot:	Block: Plan:					
Directions:							
INSTALLATION:	TYPE OF WORK:	TREATMENT / DISPOSAL METHODS					
New installation	Commercial	COMPLETE ALL APPLICABLE ITEMS):	Field				
Alteration							
Expected Volume of Sewage:	Residential	Sewage Lagoon Open (Su	rface) Discharge				
	Number of Bedrooms	Sand Filter Packaged	Sewage Treatment Plant				
🔲 m3 per day	Work Camp	Septic Tank Size					
Litres per day	Number of Men	Sewage Holding Tank Size:					
Gallons per day	Other	□ Other					
Description of Work:							
I the permit applicant understand and acknow		SITE EVALUATION REPORT. Prior to Covering or Final					
at my request. Any additional inspections inspection (plus Levy).		100 per Accept Accept Decline Decline	Cother:				
Payment Type: Cash Cheque	C/C Agreement	*Additional inspections may be charged TIGI OFFICE US					
Permit Fee: \$		Issuing Officer's Name:					
+ SCC Levy*: \$		Issuing Officer's Signature:					
Total Cost: \$	Receipt #:	Designation Number:					
*\$4.50 or 4% of the permit fee maximum \$560	0.00	Permit Issue Date: :DD /MMM_					
		THE INSPECTIONS GROUP INC.					

The personal information provided as part of this application is collected under the Safety Codes Act and the Municipal Government Act and in accordance with the Freedom of Information and Protection of Privacy Act. The information 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 Municipality.

#### **PSDS Application Summary Design Report**

(Please Print Clearly)

				Legal Land	Descriptio	n							
1/4 section	Section	Township	Range	West of		L	ot	Block	Plan				
Address	Street			Municipalit	Municipality Lot Size								
				Developm	ent Details								
Туре:	Reside			Comm				Other					
		Constructio			ation/Repa	1	<u> </u>	Temp	orary				
Number of I	Bedrooms	Number of	Occupants	Average Da	ally Flow	Peak	Daily	Flow					
Additional C	izing Info.												
Additional Sizing Info: Soil Information													
soli information # of Test Pits (1 MINIMUM for Open Discharge, 2 MINIMUM for all others)													
# of Test Pits (1 MINIMUM for Open Discharge, 2 MINIMUM for all others) Depth Of Pits (1 foot MINIMUM below Verticle Setback Distance)													
-	Loading Rate (1 foot MINIMUM below Verticle Setback Distance)												
		Shape		Grade		(Soil	Profile	e Used for	Design)				
				System De					0 /				
Component	s to be used	(Check all ap	plicable)	-									
🗆 Holdir	ng Tank	Sand I	Nound	🗌 Open	Discharge		Pipe i	in Gravel					
Septic		🗌 Gravit	y Field	🗌 At-Gr	ade		Cham	nbers					
🗆 Treatr	nent Plant	🗌 Pressu	ire Field	🗌 Lagoo	n		□ Other						
Tank Size _		(Ga	llons)	Dose Volur	llons)								
Flow Rate_		(GP	M)	Head Press									
Trench Bot	tom	(Sq	Ft)	Sand Layer(SqFt)									
		(Ft)		Chamber S				-					
Orifice Size		(incl	ר)	Squirt Heig	ht		_(Fee	t)					
-		e and Mode											
Emuent Fil	ter/screen	Make and I	viodel										
				Setback Di	stances								
Tank to Oc	cupied Buil	ding:	_	1	earest Prop	ertv L	ine:	_					
	ater Source	_			il Treatmen								
Soil Treatm	nent Compo	onent to Pro	operty Line	s (Must be a									
North:	· · ·	South:	<u> </u>	East:	· · · ·	West	:						
Soil Treatm	nent Compo	onent to Wa	ater Source	:				Туре:					
Soil Treatm	nent Compo	onent to Wa	ater Course	2:				Туре:					
Soil Treatm	nent Compo	onent to Oc	cupied Buil	lding:				(Nearest)					
				Additional	Informatio	on							
	NOTE -1				( . )		1.1-						
				meet Part									
	Incomplet	e applicatio	ons will res	ult in delays	or retusal	ot Pe	rmit i	ssuance.					

# Alberta Private Sewage Treatment System Soil Profile Log Form

Owner	Name or	Job ID.																
					Legal La	and Locat	tion								Tes	t Pit GP	S Coordinates	
LSD	-1/4	Sec	Twp	Rg	Mer		Lot	B	loc	ock I		Plan			Easting		Northi	ng
Vegetati	on notes	•				<u> </u>			(	Overall	site slope %						1	
8											osition of tes							
Test hol	e No.		Soil Subgro	oup		Par	ent Materia	ıl		Ι	Drainage		Depth	of Lab sam	ple #1		Depth of Lab samp	ole #2
Hori- zon		epth (in)	Texture	e Lab H		Colour		Gleying			Mottling	Structur	e	Grade	Consisten	nce	Moisture	% Coarse Fragments
Depth to 0	Groundwat	er					Limiting	Soil Laye	r (	Characte	eristic, descri	be						
Depth to S	Seasonally	Saturated S	oil				Depth to	Limiting	So	il Layer								
Limiting '	Гopograph	у					Depth to	Highly Pe	ern	neable L	Layer							
Key Lir System		eatures or	L I															
Weather (	Condition r	notes:	<b>I</b>															
Comment	s: such as 1	oot depth a	nd abundaı	ice or othe	e pertinent	observa	tions:											

### **Onsite Sewage System Site Evaluation Lot Diagram Sketch and Notes**

	Date:			 tion:	Descrip	or Legal	Lot	 	Name:	Project
Show the         proposed         location of         the onsite         sewage         system and         the following         items         indicating         their         distances         from the         proposed         system:         trees         floodplains         wells         water         sources         surface water         bedrock         outcrops         buildings         property         lines         easement         lines         itches or	Date:				Descrip	or Legal			Name:	Project
ditches or interceptors banks or steep slopes										
fills driveways existing sewage systems										
underground utilities soil test pit and borehole locations										
		P1	Test Pit	borehole BH 1		rection	slope di		e course	drainage

Comments:

Property line GPS coordinates: GPS coordinates of well: GPS coordinate of tank: GPS coordinates of soil treatment component corners:

Additional information is required separately for the system design detail.

#### Figure 4: Diagrammatic representation of soil structure

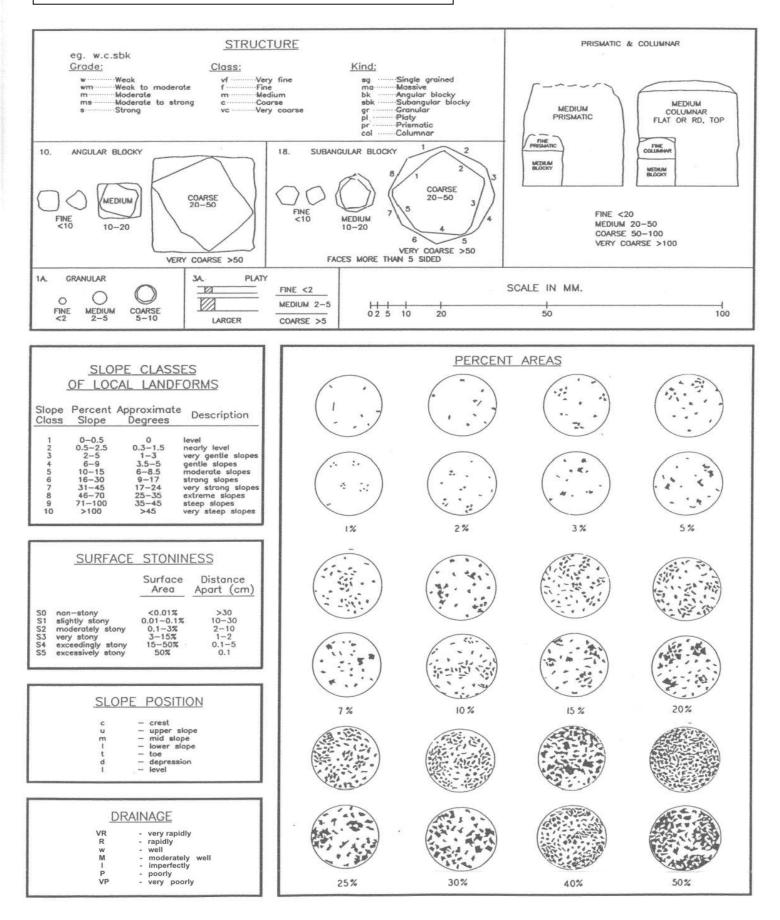


Table 10. Types, kinds and classes of soil structure.

Kind (Kind Code) Angular blocky (ABK) peds bounded by flattened, rectangular faces intersecting at relatively sharp angles	<ul> <li>Structure Class and Code</li> <li>VF: very fine angular blocky</li> <li>F: fine angular blocky</li> <li>M: medium angular blocky</li> <li>C: coarse angular blocky</li> <li>VC: very coarse angular blocky</li> </ul>	Size <sup>1</sup> (mm) <5 5-10 10-20 20-50 >50				
<b>Subangular blocky (SBK):</b> peds bounded by slightly rounded, subrectangular faces with vertices <sup>2</sup> of their intersections mostly subrounded	<ul> <li>VF: very fine subangular blocky</li> <li>F: fine subangular blocky</li> <li>M: medium subangular blocky</li> <li>C: coarse subangular blocky</li> <li>VC: very coarse subangular blocky</li> </ul>	<5 5-10 10-20 20-50 >50				
<b>Granular (GR):</b> spheroidal peds bounded by curved or very irregular faces that do not adjoin those of adjacent peds	<ul> <li>VF: very fine granular</li> <li>F: fine granular</li> <li>M: medium granular</li> <li>C: coarse granular</li> <li>VC: very coarse granular</li> </ul>	<1 1-2 2-5 5-10 >10				
<b>Platy (PL):</b> peds flat or platelike; horizontal planes more or less well developed	<ul> <li>VF: very fine platy</li> <li>F: fine platy</li> <li>M: medium platy</li> <li>C: coarse platy</li> <li>VC: very coarse platy</li> </ul>	<1 1-2 2-5 5-10 >10				
<b>Prismatic (PR):</b> vertical faces of peds well defined and vertices <sup>2</sup> angular (edges sharp); prism tops essentially flat	<ul> <li>VF: very fine prismatic</li> <li>F: fine prismatic</li> <li>M: medium prismatic</li> <li>C: coarse prismatic</li> <li>VC: very coarse prismatic</li> </ul>	<10 10-20 20-50 50-100 >100				
<b>Columnar (COL):</b> vertical edges near top of columns not sharp (vertices <sup>2</sup> subrounded); column tops flat, rounded, or irregular	<ul> <li>VF: very fine columnar</li> <li>F: fine columnar</li> <li>M: medium columnar</li> <li>C: coarse columnar</li> <li>VC: very coarse prismatic</li> </ul>	<10 10-20 20-50 50-100 >100				
Single grained (SGR): Massive (MA):	Loose, incoherent mass of individual primary particles, as in sands					
	<ul> <li>bounded by flattened, rectangular faces intersecting at relatively sharp angles</li> <li>Subangular blocky (SBK): peds bounded by slightly rounded, subrectangular faces with vertices<sup>2</sup> of their intersections mostly subrounded</li> <li>Granular (GR): spheroidal peds bounded by curved or very irregular faces that do not adjoin those of adjacent peds</li> <li>Platy (PL): peds flat or platelike; horizontal planes more or less well developed</li> <li>Prismatic (PR): vertical faces of peds well defined and vertices<sup>2</sup> angular (edges sharp); prism tops essentially flat</li> <li>Columnar (COL): vertical edges near top of columns not sharp (vertices<sup>2</sup> subrounded); column tops flat, rounded, or irregular</li> <li>Single grained (SGR):</li> </ul>	bounded by flattened, rectangular faces intersecting at relatively sharp anglesF: fine angular blocky M: medium angular blocky C: coarse angular blocky VC: very coarse angular blocky VC: very coarse angular blocky VC: very coarse angular blocky Subangular blocky (SBK): peds bounded by slightly rounded, subrectangular faces with vertices² of their intersections mostly subroundedF: fine subangular blocky C: very coarse subangular blocky M: medium subangular blocky C: very coarse subangular blocky C: coarse subangular blocky C: coarse subangular blocky C: coarse subangular blocky C: very coarse subangular blocky C: very coarse subangular blocky C: coarse subangular blocky VC: very coarse subangular blocky VC: very coarse subangular blocky C: coarse subangular blocky VC: very coarse granular VC: very coarse platy VC: very coarse prismatic C: coarse prismatic C: coarse prismatic C: coarse prismatic C: coarse columnar M: medium prismatic C: coarse columnar M: medium columnar C: coarse columnar M: medium columnar C: coarse columnar M: medium columnar C: very coarse prismaticPlaty (PL): peds flat or platelike; horizontal planes more or less well developedVF: very fine platy M: medium prismatic C: coarse prismaticPrismatic (PR): vertices² subrounded); column tops flat, rounded, or irregularVF: very fine				

Cloddy (CDY): not a structure; used to indicate the condition of some ploughed surface, grade, class, and shape too varied to be described in standard terms.

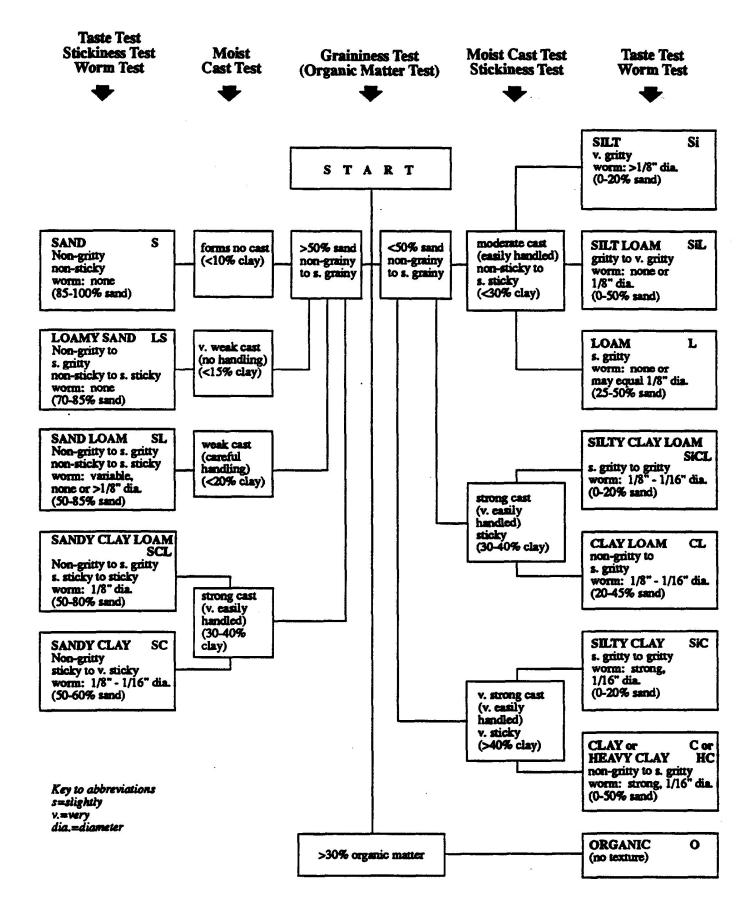
<sup>1</sup> The size limits refer to measurements in the smallest dimension of platy, prismatic, and columnar peds and to the largest of the nearly equal dimensions of blocky and granular peds.
 <sup>2</sup> Definition of vertex (plural, vertices): the intersection of two planes of a geometrical figure.

Consistence – moist soil								
Loose:	No intact sample can be obtained.							
Friable:	Structure breaks down with slight force between the fingers.							
• Firm:	Structure breaks down with moderate force between the fingers.							
• Extremely firm:	Structure breaks down with moderate force between the hands or							
	slight foot pressure.							
Rigid:	Structure breaks down only with foot pressure.							

Code		Structure Grade Definition
0	Massive /or single grained used to describe sands	This describes a soil that has no developed structure. There is no aggregation of primary particles or no definite orderly arrangement around natural lines of weakness.
1	Weak	Peds are either indistinct and barely evident in place, or observable in place but incompletely separated from adjacent peds. When disturbed, the soil material separates into a mixture of only a few entire peds, many broken peds and much unaggregated material.
2	Moderate	Peds are moderately durable, and are evident but not distinct in the undisturbed soil. When disturbed, the soil material parts into a mixture of many well formed, entire peds, some broken peds, and little unaggregated material. The peds may be handled without breaking and they part from adjoining peds to reveal nearly entire surfaces which have properties distinct from those caused by fracturing.
3	Strong	Peds are durable and evident in the undisturbed soil, adhere weakly to one another, withstand displacement and separate cleanly when the soil is disturbed. When removed, the soil material separates mainly into entire peds Surfaces of unbroken peds have distinctive properties, compared to surfaces that result from fracturing.

## Mottling Descriptions

Parameter	Code	Description						
Abundance	Few	<2% of the exposed surface						
	Common	2-20% of the exposed surface						
	Many	>20% of the exposed surface						
Size	Fine	< 5 mm						
	Medium	5-15 mm						
	Coarse	>15 mm						
Contrast	Faint	Evident only on close examination. Faint mottles commonly have the same hue as the colour to which they are compared and differ by no more than 1 unit of chroma or 2 units of value. Some faint mottles of similar but low chroma and value can differ by 2.5 units of hue.						
	Distinct	Readily seen, but contrast only moderately with the colour to which they are compared. Distinct mottles commonly have the same hue as the colour to which they are compared, but differ by 2 to 4 units of chroma or 3 to 4 units of value; or differ from the colour to which they are compared by 2.5 units of hue but by no ore than 1 unit of chroma or 2 units of value.						
	Prominent	Contrast strongly with the colour to which they are compared. Prominent mottles are commonly the most obvious colour feature in a soil. Prominent mottles that have medium chroma and value commonly differ from the colour to which they are compared by at least 5 units of hue if chroma and value are the same; or at least 1 units of chroma or 2 units of value if hue differs by 2.5 units.						



	SYSTEM DRAWING													
✓ (	<ul> <li>✓ Complete drawing of proposed system, layout of laterals, position and location of tank etc.</li> </ul>													
														9
Comment														
												· · · · · · · · · · · · · · · · · · ·		