

Town of Vermilion

5021 49 Avenue Vermilion, AB T9X 1X1 Phone: 780 853 5358 Fax: 780 853 4910

www.vermilion.ca

The Inspections Group Inc.

12010 - 111 Avenue NW Edmonton, AB T5G 0E6

Phone: 780 454 5048 / 866 554 5048 780 454 5222 / 866 454 5222

www.inspectionsgroup.com

PRIVATE SEWAGE DISPOSAL SYSTEM APPLICATION FORM

Application Date: DD / MMM	/ YYYY		Estimated Project Start	Date: DD / MMM / YYYY
Applicant Type: Homeowner				our & Material) \$
The Permit Holder hereby certifies that this installation days of issue of the permit, (b) is suspended or aban	on will be completed in a doned for a period of 126	accordance with the Alberta Sa 0 days. An extension can be co	ifety Codes Act. A permit may expire if the nsidered when applied for in writing prior to	ne undertaking to which it applies: (a) is not commenced within 90 o permit expiry date.
Owner Name:		N	ailing Address:	
City:	Prov:	Postal Code:	Phone:	Fax:
		Cell:	Email	:
Owner's Signature / Declaration (Sin "I hereby declare I am the owner of the pren for compliance with the applicable Act and F	nises in which the wo		eside or will reside on the property. I	am doing the work myself, and assume responsibility
Contractor Name:		N	ailing Address:	
City:	Prov:	Postal Code:	Phone:	Fax:
Cell:	Email:			
	D. A. Dataseta	2 Additional Name		
PSDS Installer's Number		Sewage Installer's Nan	16	Installer's Signature
Project Location in The Town of				
Street Address:				
				West of:
				Plan:
Directions:				
INSTALLATION: New installation Alteration Expected Volume of Sewage: m3 per day Litres per day	☐ Work Can	oial al mber of Bedrooms mp mber of Men	TREATMENT / DISPOSAI (COMPLETE ALL APPLIC Treatment Mound Sewage Lagoon Sand Filter Septic Tank Size	
☐ New installation ☐ Alteration Expected Volume of Sewage: ☐ m3 per day	Commerc Residentia Nur Work Can	oial al mber of Bedrooms np	(COMPLETE ALL APPLIC ☐ Treatment Mound ☐ Sewage Lagoon ☐ Sand Filter ☐ Septic Tank Size	CABLE ITEMS): ☐ Disposal Field ☐ Open (Surface) Discharge ☐ Packaged Sewage Treatment Plant
 New installation Alteration Expected Volume of Sewage: m3 per day Litres per day 	Commerc Residentia Nur Work Can	oial al mber of Bedrooms mp mber of Men	(COMPLETE ALL APPLIC ☐ Treatment Mound ☐ Sewage Lagoon ☐ Sand Filter ☐ Septic Tank Size ☐ Sewage Holding Tank	CABLE ITEMS): ☐ Disposal Field ☐ Open (Surface) Discharge ☐ Packaged Sewage Treatment Plant Size:
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 New installation Alteration Expected Volume of Sewage: 	Commerce Residentia Nur Work Can Nur Other	al mber of Bedrooms np mber of Men	COMPLETE ALL APPLIC ☐ Treatment Mound ☐ Sewage Lagoon ☐ Sand Filter ☐ Septic Tank Size ☐ Sewage Holding Tank ☐ Other SITE EVALUATION REPORT	CABLE ITEMS): ☐ Disposal Field ☐ Open (Surface) Discharge ☐ Packaged Sewage Treatment Plant Size: RT. GI OFFICE USE ONLY
 New installation Alteration Expected Volume of Sewage: m3 per day Litres per day Gallons per day Description of Work:	Commerc Residentia Nur Work Can Nur Other	al mber of Bedrooms np mber of Men	COMPLETE ALL APPLICE ☐ Treatment Mound ☐ Sewage Lagoon ☐ Sand Filter ☐ Septic Tank Size ☐ Sewage Holding Tank ☐ Other SITE EVALUATION REPORT TIGE Issuing Officer's Name:	CABLE ITEMS): ☐ Disposal Field ☐ Open (Surface) Discharge ☐ Packaged Sewage Treatment Plant Size: RT. GI OFFICE USE ONLY
□ New installation □ Alteration Expected Volume of Sewage: □ m3 per day □ Litres per day □ Gallons per day Description of Work: Payment Type: □ Cash □ Cheen	Commerce Residentia Nur Work Can Nur Other COMPLET	al mber of Bedrooms np mber of Men	COMPLETE ALL APPLICE ☐ Treatment Mound ☐ Sewage Lagoon ☐ Sand Filter ☐ Septic Tank Size ☐ Sewage Holding Tank ☐ Other SITE EVALUATION REPORT TIGE Issuing Officer's Name:	CABLE ITEMS): ☐ Disposal Field ☐ Open (Surface) Discharge ☐ Packaged Sewage Treatment Plant Size: RT. GI OFFICE USE ONLY
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PSDS Application Summary Design Report

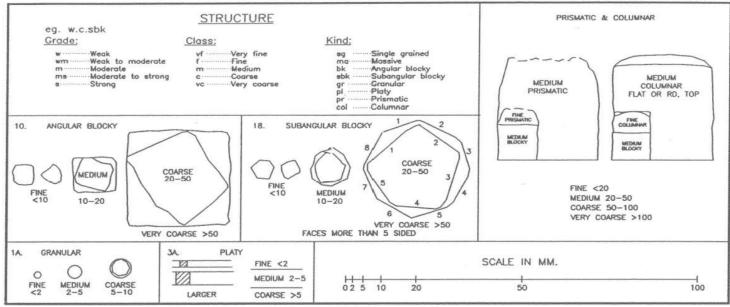
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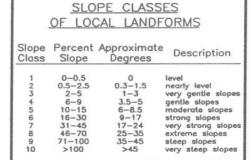
				Legal La	and Descriptio	n			
1/4 section	Section	Township	Range	West	of	Lot		Block	Plan
Address	Street			Munici		Lo	ot Size (acr	es)	
				Develo	pment Details				
Туре:	☐ Reside	ential		☐ Co	mmercial			□ Other	
		Construction		1	novation/Repa		_	☐ Tempo	rary
Number of E	Bedrooms	Number of 0	Occupants	Averag	e Daily Flow	Peak Da	aily I	Flow	
Additional S	izing Info			ļ		<u> </u>			
radicionars	121116 11110.			Soil Inf	ormation				
# of Test Pit	s	(1 MINIMU	M for Open	Discharge	e, 2 MINIMUM f	or all oth	ers)		
			-	_	e Setback Distar				
Loading Rate	e		Linear Load	ling Rate					
Texture		Shape		Grade _		(Soil Pro	ofile	Used for D	esign)
				System	Details				
=		(Check all ap	-						
	_	☐ Sand N			pen Discharge	•		n Gravel	
☐ Septic		☐ Gravit	•	_	t-Grade			bers	
□ Treatn	nent Plant	☐ Pressu	ıre Field	∐ La	igoon	□ Ot	her		
Tank Size _		(Ga	llons)	Dose V	olume	(Gall	lons)	
		(GP			ressure				
Trench Bot	tom	 (Sq	Ft)		yer			-	
Trench Len	gth	(Ft)		Chamb	er Size	(i	inch	1)	
Orifice Size	!	(incl	۱)	Squirt H	Height	(F	eet)	
Tank/Plant	: Make and	Model							
-		e and Mode	 el						
_		Make and N							
				Calland	D'	_			
Tank to Oc	cupied Buil	ding			k Distances	orty Line			
	cupied Buil ater Source			<u> </u>	Nearest Prop Soil Treatmen		٠.		
			nerty Line		be accurate)	11.			
North:	iene compe	South:	sperty Line	East:	be accurate,	West:			
	nent Compo	onent to Wa	ater Source			11.000.		Type:	
		onent to Wa					_	Type:	
		onent to Oc					_	(Nearest)	
				Additio	nal Informatio	on			
					art 7 of the Sta				
	Incomplete	e applicatio	ns will res	ult in de	lays or refusal	ot Perm	it is	suance.	

Alberta Private Sewage Treatment System Soil Profile Log Form Owner Name or Job ID. Legal Land Location Test Pit GPS Coordinates LSD-1/4 Sec Twp Rg Mer Lot Block Plan Easting Northing Overall site slope % Vegetation notes: Slope position of test pit: Test hole No. Depth of Lab sample #1 Depth of Lab sample #2 Soil Subgroup Parent Material Drainage Depth Hori-Lab or Colour Gleying Mottling Structure Grade Consistence Moisture % Coarse Texture HT Fragments zon (cm) (in) 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:

Onsite Sewage System Site Evaluation Lot Diagram Sketch and Notes Project Name: Lot or Legal Description: Show the proposed ÎN 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 ditches or interceptors banks or steep fills driveways existing sewage systems underground utilities soil test pit and borehole locations Test Pit P1 □ drainage course slope direction borehole BH 1 Comments: Property line GPS coordinates: GPS coordinates of well: GPS coordinate of tank: GPS coordinates of soil treatment component corners:

Figure 4: Diagrammatic representation of soil structure





	SURFACE	STONINESS					
		Surface Area	Distance Apart (cm)				
S0 S1 S2 S3 S4 S5	non-stony slightly stony moderately stony very stony exceedingly stony excessively stony	<0.01% 0.01-0.1% 0.1-3% 3-15% 15-50% 50%	>30 10-30 2-10 1-2 0.1-5 0.1				

SLC	PE POSITION
С	- crest
u	 upper slope
m	- mid slope
t	- lower slope
t	- toe
d	- depression
1	- level

U	RAINAGE
VR	 very rapidly
R	- rapidly
w	- well
M	- moderately well
1	- imperfectly
P	- poorly
VP	- very poorly

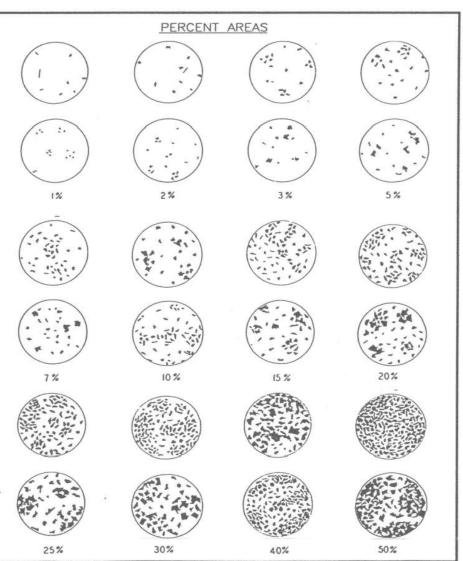


Table 10. Types, kinds and classes of soil structure.

Type Blocklike - soil particles arranged around a point and bounded by flat or rounded surfaces BK	Kind (Kind Code) Angular blocky (ABK) peds bounded by flattened, rectangular faces intersecting at relatively sharp angles	Structure Class and Code VF: very fine angular blocky F: fine angular blocky M: medium angular blocky C: coarse angular blocky VC: very coarse angular blocky Size 1 (mr)	m)
	Subangular blocky (SBK): peds bounded by slightly rounded, subrectangular faces with vertices ² of their intersections mostly subrounded	VF: very fine subangular blocky F: fine subangular blocky M: medium subangular blocky C: coarse subangular blocky VC: very coarse subangular blocky >50	
	Granular (GR): spheroidal peds bounded by curved or very irregular faces that do not adjoin those of adjacent peds	VF: very fine granular <1 F: fine granular 1-2 M: medium granular 2-5 C: coarse granular 5-10 VC: very coarse granular >10	
Platelike: soil particles arranged around a horizontal plane and generally bounded by relatively flat horizontal surfaces PL	Platy (PL): peds flat or platelike; horizontal planes more or less well developed	VF: very fine platy <1 F: fine platy 1-2 M: medium platy 2-5 C: coarse platy 5-10 VC: very coarse platy >10	
Prismlike: soil particles arranged around a vertical axis and bounded by relatively flat vertical surfaces. PR	Prismatic (PR): vertical faces of peds well defined and vertices ² angular (edges sharp); prism tops essentially flat	VF: very fine prismatic <10 F: fine prismatic 10-20 M: medium prismatic 20-50 C: coarse prismatic 50-100 VC: very coarse prismatic >100	
	Columnar (COL): vertical edges near top of columns not sharp (vertices ² subrounded); column tops flat, rounded, or irregular	VF: very fine columnar <10 F: fine columnar 10-20 M: medium columnar 20-50 C: coarse columnar 50-100 VC: very coarse prismatic >100	
Structureless: no observable aggregation of primary particles or no definite	Single grained (SGR):	Loose, incoherent mass of individual prima particles, as in sands	ıry
orderly arrangement around natural lines of weakness MA	Massive (MA):	amorphous; a coherent mass showing no evidence any distinct arrangement of soil particles; separat into clusters of particles; not peds	

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.

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.					

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.

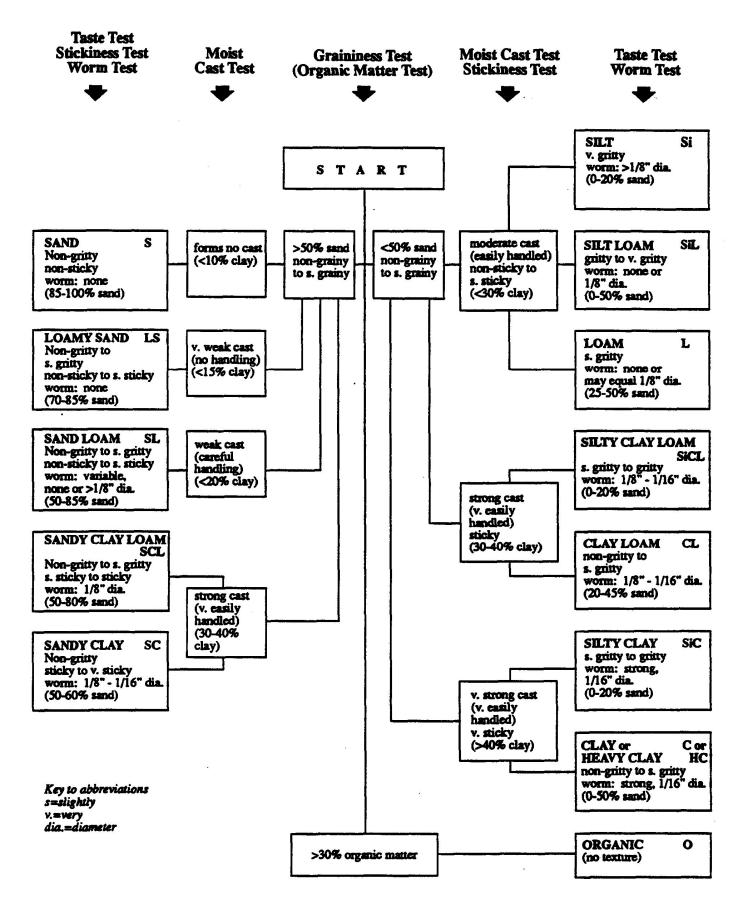
Definition of vertex (plural, vertices): the intersection of two planes of a geometrical figure.

Structure Grade Descriptions

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 unit of chroma or 2 units of value if hue differs by 2.5 units.				



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