ZIERKE SOIL TESTING

Martin Davis 9637 Stonebridge Trl N Stillwater, MN 55082

May 7th, 2024

Dear Martin Davis,

At your request, I have conducted a septic inspection to determine the compliance status of your septic system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your system is <u>non-compliant</u> due to root infiltration in your tanks that is preventing the tank from being fully inspected. This system is considered "failing to protect groundwater" and <u>is not considered an imminent threat to public health</u>. I am required to provide copies of this report to you and to Washington County. You should contact them as to the next steps that will be required to bring the system into compliance.

Sincerely,

Benjamin Zierke

MPCA Lic 119, Cert 9594

Berjamin Zierke

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346 EMAIL benzierke@gmail.com



Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS) 520 Lafayette Road North St. Paul, MN 55155-4194

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Property information	Local tracking number:
Parcel ID# or Sec/Twp/Range: 1703020140003	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 9637 Stonebridge Trail N Stillwater, MN 550	082
Owner/representative: Martin Davis	Owner's phone: 651-968-7726
Brief system description: 1500 gallon precast septic tank, 1000	gallon precast lift tank, rock trench drainfield
.	
System status	
System status on date (mm/dd/yyyy): _5/7/2024	
☐ Compliant – Certificate of compliance*	
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.
abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.) *Note: Compliance indicates conformance with Minn.	An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt
R. 7080.1500 as of system status date above and does not guarantee future performance.	of this notice or within a shorter period if required by local ordinance or under section 145A.04 subdivision 8.
Reason(s) for noncompliance (check all applicab	ole)
☐ Impact on public health (Compliance component #1)	– Imminent threat to public health and safety
☐ Tank integrity (Compliance component #2) – Failing	to protect groundwater
☐ Other Compliance Conditions (Compliance components)	ent #3) – Imminent threat to public health and safety
☐ Other Compliance Conditions (Compliance components)	,
-	2500 (Compliance component #3) – Failing to protect groundwater
☐ Soil separation (Compliance component #5) – Failing	
☐ Operating permit/monitoring plan requirements (Con	npliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
have grown all the way around the float above the pump roots. The roots will have to be removed and tank bottom	filtration around the bottom riser sections on both tanks. The roots as well - the pump could malfunction due to the float being tangled in checked. Go-pro footage of the tank showed that the sidewalls and e likely to continue due to the two large maple trees near the tank - I the tanks are deep (~100").
Certification	
	to determine the compliance status of this system. No determination of wn conditions during system construction, possible abuse of the system,
By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	and correct, to the best of my knowledge, and that this information can be
Business name: Zierke Soil Testing	Certification number: 9594
Inspector signature: Bergamin Herker	License number: 119
(This document has been electronically sign	ned) Phone: <u>651-249-1346</u>
Necessary or locally required supporting do	cumentation (must be attached)
	equired forms

https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021 800-657-3864

Compliance criteria:		Attached supporting document	tation:
System discharges sewage to the ground surface	☐ Yes* ☒ No	☐ Other: ☐ Not applicable	
System discharges sewage to drain ille or surface waters.	☐ Yes* ☒ No		
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No		
Any "yes" answer above indicates mminent threat to public health ar			
Describe verification methods and	results:		
None of the above observed.			
nk integrity – Compliance	component #2	of 5	
	component #2		tation:
Compliance criteria:	·	Attached supporting document	
Compliance criteria: System consists of a seepage pit,	component #2		
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	·	Attached supporting document ⊠ Empty tank(s) viewed by inspector	or
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	Yes* ⊠ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business:	or Olson's
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	·	Attached supporting document ☑ Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business	Olson's Dusiness: 216
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	Yes* ⊠ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business business of maintenance business.	Olson's Dusiness: 216 5/6/2024
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	Yes* ⊠ No	Attached supporting document ☐ Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business of maintenance: ☐ Existing tank integrity assessment	Olson's Dusiness: 216 5/6/2024
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth?	Yes* ⊠ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business but of maintenance: Existing tank integrity assessment	Olson's Dusiness: 216 5/6/2024 t (Attach)
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth?	Yes* ⊠ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business but of maintenance: Existing tank integrity assessment	Olson's Dusiness: 216 5/6/2024
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates.	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business but of maintenance: Existing tank integrity assessment	Olson's Ousiness: 216 5/6/2024 It (Attach) e within three years) assessment complies w.
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks:	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance to Date of maintenance: Existing tank integrity assessment Date of maintenance (mm/dd/yyyy): (must be Minn. R. 7082.0700 subp. 4 B (1))	Olson's Ousiness: 216 5/6/2024 It (Attach) e within three years) assessment complies within three within
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates.	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No	Attached supporting document ☑ Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance to Date of maintenance: ☐ Existing tank integrity assessment Date of maintenance (mm/dd/yyyy): (must be completed from the completed from the complete	Olson's Ousiness: 216 5/6/2024 It (Attach) which is three years) assessment complies w output O
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates.	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No	Attached supporting document Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance to Date of maintenance: Existing tank integrity assessment Date of maintenance (mm/dd/yyyy): (must be Minn. R. 7082.0700 subp. 4 B (1))	Olson's Ousiness: 216 5/6/2024 It (Attach) which is three years) assessment complies w output O
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates.	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Area the system er.	Attached supporting document ☑ Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance to Date of maintenance: ☐ Existing tank integrity assessment Date of maintenance (mm/dd/yyyy): (must be completed from the completed from the complete	Olson's Ousiness: 216 5/6/2024 It (Attach) which is three years) assessment complies w output O

Р	Property Address: 9637 Stonebridge Trail N Stillwater, MN 55082	
В	Business Name: Zierke Soil Testing	Date: <u>5/7/2024</u>
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	ecured?
	☐ Yes* ☐ No ☐ Unknown	our ou .
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe	ty? ☐ Yes* No ☐ Unknown
	*Yes to 3a or 3b - System is an imminent threat to public health and safety.	, – – –
	3c. System is non-protective of ground water for other conditions as determined by inspector?	☐ Yes*
	3d. System not abandoned in accordance with Minn. R. 7080.2500?	 ☐ Yes* ⊠ No
	*Yes to 3c or 3d - System is failing to protect groundwater.	
	Describe verification methods and results:	
	Attacked and an artists of a companies of the second of the second of the second or the second or the second of th	
	Attached supporting documentation: Not applicable	
		_
4.	Operating permit and nitrogen BMP* – Compliance component #4 c	of 5 ⊠ Not applicable
4.	Operating permit and nitrogen BMP* – Compliance component #4 c	of 5 ⊠ Not applicable If "yes", A below is required
4.	Operating permit and nitrogen BMP* – Compliance component #4 component system operated under an Operating Permit?	If "yes", A below is required
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 c	If "yes", A below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* – Compliance component #4 of Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design If the answer to both questions is "no", this section does not need to be completed.	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design If the answer to both questions is "no", this section does not need to be completed Compliance criteria:	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design If the answer to both questions is "no", this section does not need to be completed Compliance criteria: a. Have the operating permit requirements been met?	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
<u>4.</u>	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 compliance co	If "yes", A below is required If "yes", B below is required

https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

ısiness Name: Zierke	Soil Testing			Date: _	5/7/2024
Soil separation	– Compliance cor	nponei	nt #5 o	f 5	
Date of installation	8/10/1987 (mm/dd/yyyy)	_ Unkn	own		
Shoreland/Wellhead beverage lodging?		☐ Yes	⊠ No	Attached supporting documentation: Soil observation logs completed for t	he report
Compliance criteria (select one): 5a. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:		⊠ Yes □ No	□ No*	☐ Two previous verifications of required ve☐ Not applicable (No soil treatment area)☐	-
Drainfield has at le separation distance saturated soil or be					
or Wellhead Protection food, beverage, or Drainfield has a this separation distance	ter or for non- ims located in Shoreland ction Areas or serving a lodging establishment: ree-foot vertical e from periodically	☐ Yes	□ No*	Indicate depths or elevations A. Bottom of distribution media B. Periodically saturated soil/bedrock C. System separation D. Required compliance separation*	96.9' 93.0'+ 3.9'+ 2.0'
systems built unde Type IV or V syste Rules 7080. 2350 (Intermediate Insp 2,500 gallons per of License required >	ther", or "Performance" er pre-2008 Rules; ms built under 2008 or 7080.2400 ector License required ≤ day; Advanced Inspector 2,500 gallons per day) ne designed vertical e from periodically	☐ Yes	□ No*	*May be reduced up to 15 percent if all Ordinance.	owed by Local

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

800-657-3864



Logs of Soil Borings

Location of Project: 9637 Stonebridge Trl N Stillwater, MN 55082 Borings Made by Ben Zierke 5/6/2024 Date: Hand bucket auger used for borings; USDA - SCS Soil Classification used. Depth, in Depth, in **Boring Number 1 Boring Number 2** Inches Inches 0----sandy topsoil fill 0-8" 8-19" 10YR 3/2 loamy sand 19-45" 10YR 4/4 medium sand, 5% rock 45-62" 10YR 6/4 medium sand, few 10YR 4/6 lamellae bands 62-84" 10YR 6/3 fine sand, few 10YR 4/6 bands, no restriction observed End of boring at End of boring at Standing water table: Standing water table: feet of depth Hours after boring feet of depth Hours after boring Present at Present at Standing water not present in hole Standing water not present in hole Mottled Soil: Mottled Soil: feet of depth Observed at Observed at Mottled soil not present in bore hole Mottled soil not present in bore hole Comments: Comments: Depth, in Depth, in **Boring Number 3 Boring Number 4** Inches Inches End of boring at End of boring at Standing water table: Standing water table: Hours after boring feet of depth feet of depth Hours after boring Standing water not present in hole Standing water not present in hole

Mottled Soil:

Mottled soil not present in bore hole

Observed at

Comments:

feet of depth

Mottled Soil:

Mottled soil not present in bore hole

Observed at

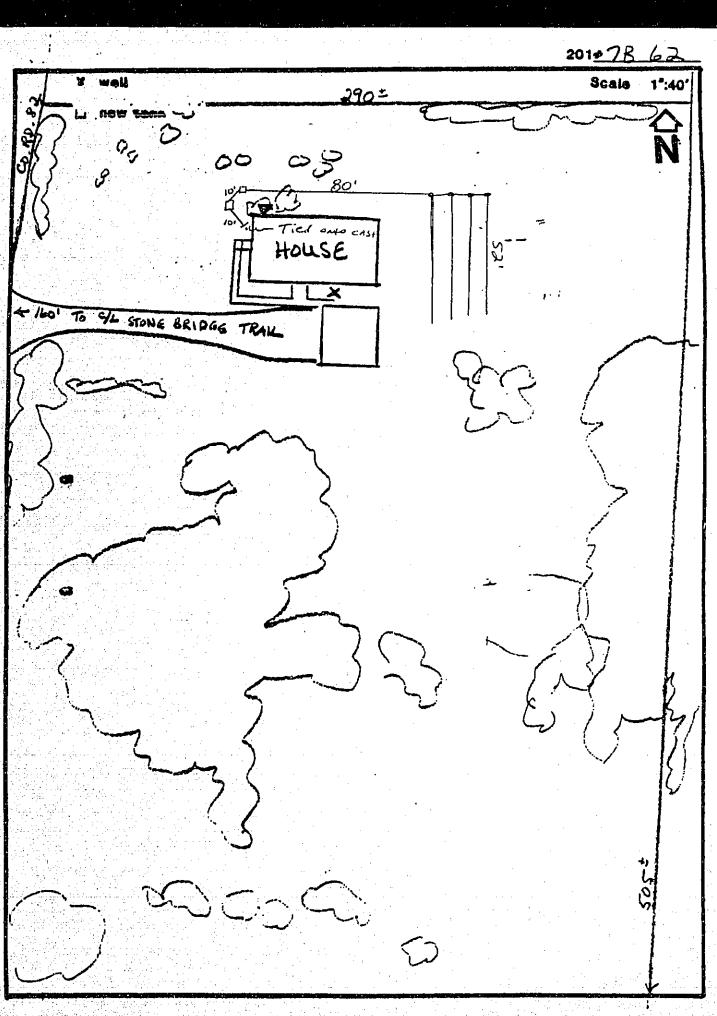
Comments:

feet of depth

Log Of Soil Borings

Loc	Location of Project: 9637 Stonebridge Trl N, Stillwater Twp, MN 55082							
Borings Made By: Inspect Minnesota				Date:	11/28/16			
Auger Used: Hand/Bucket			Class	ification System:	USDA			
Boring Number: 1				Boring Number:				
Elevation	Surface Elevation of Same ground surface as last			e of				
Boring Depth In	Caila E		Boring Depth In	Soils Encountered				
Inches		<u>ncountered</u>	Inches	SOIIS E	<u>ncounterea</u>			
0-7 7-44 44-60 60-68 68-80	7.5YR 4/4 10YR 5/4 10YR 5/3 10YR 5/3	2.5/2 Loam Medium Sand Medium Sand Medium Sand Fine Sand With -/4 Lamellae						
80"	Depth To End Of B	oring Or Redox		Depth To End Of B	oring Or Redox			
	Elevation Of Boring	g Relative To System			g Relative To System			
		Of Distribution Media	_		Of Distribution Media			
≥47"	Of Separation			Of Separation				
	End Of Boring At:	80"		End Of Boring At:				
	Redox Present At:	None		Redox Present At:				
Standing Water Present At: None			Standing	Water Present At:				

Bottom (Of Distribution Medium At	: 33 Inches



FEE: \$ 50.00

WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 300 (7867)

Inspection of Installation Must Be Made By the Building Official Before Any Portion of System Is Covered Contact Planning Department, 439-3220 x-176, 24 HOUR NOTICE REQUIRED

Owner JAMES V. BLAHA 95017 - 2350
Property Description 14 SE14 NE14 Sec 17 Stillwater Twp
Property Address 9637 Stonebridge Trail No., Stillwater
Use of Building: 1 FAMILY LES Flow Rate: 5 BEOLOGAIS Percolation Rate: 5 mg
Septic Tank /500 Gal. Liquid Capacity Lift Station (if needed) /000 Ga
Type of System: TANK AND DEAINFIELD WITH LIFT STATION
Absorption Trench — Square Feet 673 Lineal Feet 208 Width 36"
Depth of Rock Below Lines Inches, Above Lines Inches
Depth of Trench From Existing Grade — Minimum Inches, Maximum Inches
Recommended Number of Lines 4052 (Note: Maximum Length of Individual Line is 100 Feet
Minimum Spacing of Lines 7/2 Ft. Center to Center
Special Conditions System is to be installed in area tested and
shown on the attached site plan. Use of drop boxes and a
minimum number of 4 lines connected serially is required
PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Approved: Date 4/23/87
Zoning Administrator/Authorized Agent
CommentsSYSTEM_SUBSTANTIALLY_COMPLETE_5/5/87
11,11,101
Installation Approved 10/41/0. The Date 8/10/07
inspector

White-Copy-Applicant

Canary-Copy-File

Pink—Copy-Inspector

Goldenrod-Municipality

Application Fee: \$50.00

"201" # S-62

APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

Washington County Planning Department 14900 - 61st Street North Stillwater, MN 55082

	· · · · · · · · · · · · · · · · · · ·	
	Name (Owner)	Phone
	James V. Blaha	439-5017
	Address	
	19637 Stokebridge Trail Legal Description 4A Pt SE 4 o	Stillwater MN 55082
	Legal Description $\#A$ P+ 5 $=$ $\frac{1}{4}$ \circ	f NE + and Pr sw + of NW +
<u>S</u>	Sec 17 Twp 30 Rg 20 Being N 505 F Use of Building	tots Con SEt of NET See 12
	Use of Building	Number of Bedrooms
· · · ·	Dwelling	5
	What is the depth of the well? $\frac{60-80}{1}$ ft.?	
	Is there a basement? Yes X No	
·	If yes, please answer the following:	
	What fixtures are in the basement? Floor Drain	ı <u>λ</u> Laundry Tub <u>χ</u>
		Shower None
	Does the main sewer line exit under the basemen	•
	How deep is basement floor (sewer line) in rela	tion to outside ground level?
>	6' deep <u>X</u> 4' deep 2' deep Le	vel Unknown
	Conditions o	f Permit
	Agreement: The undersigned hereby makes applic a sewage treatment system and agrees that all s ance with the ordinances and regulations of the Applicant further agrees to provide access, at	uch work shall be done in strict accord- County of Washington, State of Minnesota.

tor or his agent for the purpose of performing inspections required along with the installation of the system. The applicant further agrees, for himself and subsequent owners of the subject property, to allow the Zoning Administrator and his agents to enter upon the above-described property, after the installation of the sewage treatment system has been completed, at all reasonable times to conduct soil tests and surveys and to construct, reconstruct, inspect, repair or maintain the sewer system.

March 8, 1984
Date

James U. Blaha Signature of Applicant

7/10/52 5-10/17

9637 8000 7 500 PEND 10.

:.

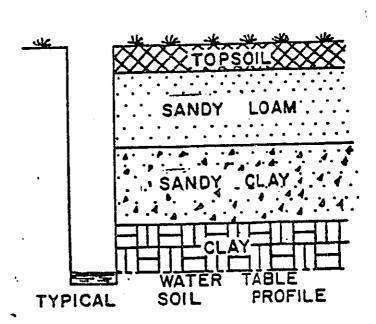
-SOIL BORINGS-

Jil borings are made in order to determine the sype and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



LOG OF SOIL BORINGS

	BORING NO. 1 BORING NO. 2 BORING NO. 3 BORING NO. 4								
BOR	ING NO. I	שטא	און טאו	,	10 110. 0				
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION		
0	GRAYISH BROWN -	0		0		0			
1/2	DARK GRAVISH	1/2	BEZOISH	1/2	,	1/2			
	Browis	ı	≥ Cowos	1		1			
11/2	DAGK BEOWS	11/2	sanda evener	11/2		11/2			
2	SAL	2	DAK Zamo	2		2			
21/2	1	21/2		51/5		21/2			
3	7	3_	SAD	3		3			
31/2] Beowo	31/2		31/2		31/2	·		
4		4	L'Soury	4		4			
41/2	7	41/2	SANS	41/2		41/2			
5	7	5		5	<u> </u>	5			
51/2	ZAMAZ	51/2	(Med a Cooke)	51/2	<u> </u>	51/2			
6	(Medy Care)	6		6]	6			
61/2		61/2]	61/2		61/2			
7		7		7	1	7	1		
71/2		71/2		71/2	_	71/2	4		
8		8		8	_	8	4 .		
81/2	2	81/2		81/2	_	81/2	1		
9		9		9		9			

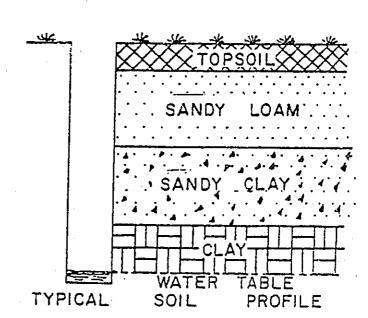
-SOIL BORINGS-

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



LOG OF SOIL BORINGS

	ING NO. I	BOR	ING NO. 2	BORI	NG NO. 3	BORI	NG NO. 4
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	Shirt LOAM -			0		0	
1/2		1/2		1/2		1/2	
		1	1000	1		1	
11/2	DARK	11/2	DARK	11/2		11/2	
2		2	Bus	2		2	
21/2	Estado	21/2		21/2		21/2	
3 -		3	SAUSE	3		3	·
31/2		3 1/2		3 1/2	İ	31/2	
4	SMIZ	4		4	·	4	
41/2		41/2		41/2		41/2	ļ
5.45		5		5		5	
51/2		5 1/2	Cours#	51/2		51/2	
6	40.23	6		6		6	
61/2	DARK BEND	61/2	SAUS	61/2		61/2	
7	SIUT LOAM	7		7		7	:
71/2	Crocast trains	71/2		71/2		71/2	
8		8		8		8	
81/2		81/2		81/2	4 14 1	81/2	