## ZIERKE SOIL TESTING

Bob Bernard 14797 Oren Rd Scandia, MN 55073

8/22/2020

Dear Bob Bernard,

At your request, I have conducted a septic inspection to determine the compliance status of your 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>compliant</u>. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. A copy of this report will be filed with your local unit of government for their records.

Sincerely,

Benjamin Zierke

MPCA Lic 119, Cert 9594

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346

EMAIL benzierke@gmail.com



520 Lafayette Road North St. Paul, MN 55155-4194

## **Compliance Inspection Form**

**Existing Subsurface Sewage Treatment Systems (SSTS)** 

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.  Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	For local tracking purposes:
	er land the second seco
System Status	
System status on date (mm/dd/yyyy): 8/22/2020	
· · · · · · · · · · · · · · · · · · ·	mpliant – Notice of Noncompliance rade Requirements on page 3.)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent three Other Compliance Conditions (Compliance Component #3) – Imminent Tank Integrity (Compliance Component #2) – Failing to protect ground Other Compliance Conditions (Compliance Component #3) – Failing to Soil Separation (Compliance Component #4) – Failing to protect ground Operating permit/monitoring plan requirements (Compliance Component	nt threat to public health and safety Iwater o protect groundwater Indwater
Property Information Parcel ID# or Sec/Twp/l	Range:
_	son for inspection: Sale
Property owner: Bob Bernard Owne	er's phone: 651-795-1041
or	
	resentative phone:
	ulatory authority phone: 651-430-6655
Brief system description: _Two pre-cast 1000 gallon septic tanks, 1000 gallon lift Comments or recommendations: Original system installed in 1994 - one of the tanks was replaced in 1999.	station, mound dispersal system
Certification	
I hereby certify that all the necessary information has been gathered to determine a determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.	
	fication number: C9594
Business name: Zierke Soil Testing	_icense number: _L119
	Phone number: 651-249-1346
Inspector signature:	
Necessary or Locally Required Attachments	

1.	Impact on Public Health —	Compliance compo	onent #1 of 5
	Compliance criteria:		Verification method(s):
	System discharges sewage to the ground surface.	☐ Yes ⊠ No	<ul> <li>☑ Searched for surface outlet</li> <li>☑ Searched for seeping in yard/backup in home</li> </ul>
	System discharges sewage to drain tile or surface waters.	☐ Yes  ☐ No	<ul> <li>☐ Excessive ponding in soil system/D-boxes</li> <li>☐ Homeowner testimony (See Comments/Explanation)</li> </ul>
	System causes sewage backup into dwelling or establishment.	☐ Yes  ☐ No	☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping
	Any "yes" answer above ind system is an imminent threa health and safety.		☐ System requires emergency pumping ☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
2.	Comments/Explanation:  Bob did not report any issues with the  Tank Integrity — Compliance		eepage/ponding during site visit 8/20/2020.
	Compliance criteria:		Verification method(s):
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ☒ No	☐ Probed tank(s) bottom ☐ Examined construction records
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	☐ Observed liquid level below operating depth ☐ Examined empty (pumped) tanks(s)
3.	If yes, which sewage tank(s) leaks:  Any "yes" answer above ind		<ul> <li>☐ Probed outside tank(s) for "black soil"</li> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other methods not listed (See Comments/Explanation)</li> </ul>
3.	System is failing to protect g Comments/Explanation: Present for pumping by Smilies Sewe Other Compliance Condition	r Service 8/20/2020. Ta	anks watertight and baffles in place.
	a. Maintenance hole covers are dama	aged, cracked, unsecure	ed, or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown
	b. Other issues (electrical hazards, etc.) *System is an imminent threat to Explain:	to immediately and adv public health and saf	rersely impact public health or safety.
	c. System is non-protective of ground *System is failing to protect ground Explain:		ons as determined by inspector . ☐ Yes* ☒ No

Inspector initials/Date: BZ | 8/22/2020

Property address: 14797 Oren Rd N Scandia, MN 55073

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Property address: 14797 Oren Rd N Scandia,	MN 55073	Inspector initials/Date: BZ   8/22/2020			
			Joseph Hilland Bate.	(mm/dd/yyyy)	
4. Soil Separation - Compliance co	omponent #4 of 5				
Date of installation: 6/2/1994	Unknown	Verification m	ethod(s):		
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?	⊠ Yes □ No	Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local			
Compliance criteria:		requirements diff		ered or local	
For systems built prior to April 1, 1996, and	☐ Yes ☐ No	□ Conducted so	oil observation(s) (A	Attach boring logs)	
not located in Shoreland or Wellhead Protection Area or not serving a food,		☐ Two previous verifications (Attach boring logs)			
beverage or lodging establishment:		☐ Not applicable (Holding tank(s), no drainfield)			
Drainfield has at least a two-foot vertical		☐ Unable to verify (See Comments/Explanation)			
separation distance from periodically saturated soil or bedrock.		☐ Other (See Comments/Explanation)			
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	⊠ Yes □ No	Comments/Explanation:			
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate depths or elevations			
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector		A. Bottom of distribution media 102.		102.4'	
License required)		B. Periodically sat	urated soil/bedrock	99.0'	
Drainfield meets the designed vertical separation distance from periodically		C. System separat	lion	3.4'	
saturated soil or bedrock.		D. Required comp	liance separation*	3.0'	
Any "no" answer above indicates the failing to protect groundwater.	he system is		l up to 15 percent if		
5. Operating Permit and Nitrogen	RMP* - Compliant	se component t	#5 of 5	let emplicable	
Is the system operated under an Operating		Personale		lot applicable	
Is the system required to employ a Nitrogen	or recommondered and the second	☐ No If "yes", A below is required ☐ No If "yes", B below is required			
BMP = Best Management Practice(s) s	(a)				
		-			
If the answer to both questions is "n	o , uns section doe	s not need to be	e completed.		
Compliance criteria					
Operating Permit number:		☐ Yes [	□ No		
Have the Operating Permit requirement	nts been met?	LIES L			
<ul> <li>b. Is the required nitrogen BMP in place.</li> </ul>	and properly functioning	12 Tyes I	¬ No		

**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.

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Any "no" answer indicates Noncompliance.



## **Logs of Soil Borings**

Location of Project:

14797 Oren Rd N Scandia, MN 55073

Borings Made by Ben Zierke

Date:

8/20/2020

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches O 0-12"  Boring Number 1 Inches O 10YR 3/2 loamy fine sand  Depth, in Inches O 10YR 3/2 loamy fine sand  Depth, in Inches O 10x loamy fine sand  Depth, in Inches O 10x loamy fine sand	
10	ì
0 0-12"	
0-12" 10YR 3/2 loamy fine sand  12" obstruction (tried several locations and	
12" obstruction (tried several locations and	
The state of the s	
The state of the s	
couldn't get deeper than 12")	
codium t get deeper than 12 )	
End of boring at l teet End of boring at leet	
Standing water table: Standing water table:	
Present at feet of depth Hours after boring Present at feet of depth Hours after boring  Standing water not present in hole  Standing water not present in hole  Hours after boring  Standing water not present in hole	
Mottled Soil: Mottled Soil:	
Observed at feet of depth Observed at feet of depth  Mottled soil not present in bore hole  X Mottled soil not present in bore hole	
Comments: Comments:	
Depth in I	
Depth, in   Boring Number 3   Depth, in   Boring Number 4	
Koring Number 3	
Boring Number 3   Roring Number 4	
Inches Boring Number 3 Inches Boring Number 4	
Inches Boring Number 3 Inches Boring Number 4	
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Inches Boring Number 3 Inches Boring Number 4	
Inches Boring Number 3 Inches Boring Number 4	
Inches 0	
Inches	
Inches O  End of boring at Standing water table: Present at feet of depth Hours after boring    Standing water table: Present at feet of depth Hours after boring   Hours after boring	
Inches O  End of boring at Standing water table: Present at feet of depth Standing water not present in hole  End of boring at Standing water not present in hole  End of boring at Standing water table: Present at feet of depth Hours after boring Standing water not present in hole	
Inches O  End of boring at Standing water table: Present at feet of depth Hours after boring    Standing water table: Present at feet of depth Hours after boring   Hours after boring	