## **ZIERKE SOIL TESTING**

John Lorentz 13110 Henna Ave N White Bear Lake, MN 55110

9/15/2022

Dear John Lorentz,

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 septic 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

Benjamin 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 <a href="https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf">https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf</a>.

Property information	Local tracking number:
Parcel ID# or Sec/Twp/Range: 2703121330002	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 13110 Henna Ave N White Bear Lake, MN	55110
Owner/representative: John Lorentz	Owner's phone: 651-483-4400
Brief system description: (2) 1250 gallon pre-cast septic tanks, <b>System status</b>	1000 gallon pre-cast lift tank, mound dispersal system
•	
System status on date (mm/dd/yyyy): 9/15/2022	□ Noncompliant Nation of managementians
☐ Compliant – Certificate of compliance*	☐ Noncompliant – Notice of noncompliance
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and photoment under section 145A 04, subdivision 8 is discovered or	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. R. 7080.1500 as of system status date above and does not guarantee future performance.	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 or under section 145A.04 subdivision 8.
Reason(s) for noncompliance (check all applical	ble)
☐ Impact on public health (Compliance component #1	) – Imminent threat to public health and safety
☐ Tank integrity (Compliance component #2) – Failing	g to protect groundwater
☐ Other Compliance Conditions (Compliance compon	nent #3) – Imminent threat to public health and safety
☐ Other Compliance Conditions (Compliance compon	nent #3) – Failing to protect groundwater
System not abandoned according to Minn. R. 7080.	.2500 (Compliance component #3) – Failing to protect groundwater
☐ Soil separation (Compliance component #5) – Failir	ng to protect groundwater
☐ Operating permit/monitoring plan requirements (Con	mpliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
First septic tank is from the original system - the other tw	o tanks are from the system update in 2011.
Certification	
	It to determine the compliance status of this system. No determination of own 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.	e and correct, to the best of my knowledge, and that this information can be
Business name: Zierke Soil Testing	Certification number: 9594
Inspector signature: Benjamin Zierke	License number: 119
(This document has been electronically sig	gned) Phone: 651-249-1346
Necessary or locally required supporting do	ocumentation (must be attached)
☐ Soil observation logs ☐ System/As-Built ☐ Locally r	required forms
☐ Other information (list):	

Compliance criteria:		Attached supporting documentation:	
System discharges sewage to the ground surface	☐ Yes* ☒ No	☐ Other: ☐ Not applicable	
System discharges sewage to drain tile or surface waters.	☐ Yes* ☒ No		
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No		
Any "yes" answer above indicates imminent threat to public health an			
Describe verification methods and	results:		
None of the above oberved during sit	e visit 9/9/2022.		
<b>nk integrity</b> – Compliance	component #2	of 5	
<b>nk integrity</b> – Compliance Compliance criteria:	component #2	of 5  Attached supporting documentation:	
Compliance criteria: System consists of a seepage pit,	component #2		
Compliance criteria:	·	Attached supporting documentation:	Smilies
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their	·	Attached supporting documentation:  ⊠ Empty tank(s) viewed by inspector	-
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☑ No	Attached supporting documentation:  ⊠ Empty tank(s) viewed by inspector  Name of maintenance business:	-
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 documentation:  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance business	2428 9/9/2022
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 documentation:  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance business  Date of maintenance:  Existing tank integrity assessment (Attach	9/9/2022 9)
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 documentation:  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance business  Date of maintenance:  Existing tank integrity assessment (Attach  Date of maintenance (mm/dd/yyyy):  (See form instructions to ensure assessment)	9/9/2022 1) three years
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 documentation:  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance business  Date of maintenance:  Existing tank integrity assessment (Attach  Date of maintenance (mm/dd/yyyy):  (See form instructions to ensure assessment Minn. R. 7082.0700 subp. 4 B (1))	9/9/2022  three years ent complie
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Ρ	Property Address: 13110 Henna Ave N White Bear Lake, MN 55110	
В	susiness Name: Zierke Soil Testing	Date: 9/15/2022
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or uns	secured?
	☐ Yes* ☑ No ☐ Unknown	
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe	ety? ☐ 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* ⊠ No
	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:	
	Attached supporting documentation: ☐ Not applicable	
4.	Attached supporting documentation: ☐ Not applicable ☐	of 5 ⊠ Not applicable
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4	
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 or list the system operated under an Operating Permit?	If "yes", A below is required
4.	Operating permit and nitrogen BMP* – Compliance component #4 of the system operated under an Operating Permit?  Is the system operated under an Operating Permit?  Is the system required to employ a Nitrogen BMP specified in the system design?   Yes No	If "yes", A below is required
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 of the system operated under an Operating Permit?   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 complete.	If "yes", A below is required If "yes", B below is required
<u>4.</u>	Operating permit and nitrogen BMP* — Compliance component #4 of the system operated under an Operating Permit?  Is the system operated under an Operating Permit?  Is the system required to employ a Nitrogen BMP specified in the system design?   When the system design is 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
<u>4.</u>	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
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https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

usiness Name: Zierke Soil Testing		Date: <u>{</u>	9/15/2022
Soil separation – Compliance cor	nponent #5 c	of 5	
Date of installation 5/25/2011 (mm/dd/yyyy)	Unknown		
Shoreland/Wellhead protection/Food beverage lodging?	⊠ Yes □ No	Attached supporting documentation:	
		<ul><li>☑ Soil observation logs completed for the report</li><li>☐ Two previous verifications of required vertical separation</li></ul>	
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*	☐ Not applicable (No soil treatment area	a)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			
5b.Non-performance systems built	⊠ Yes □ No*	Indicate depths or elevations	
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:		A. Bottom of distribution media	101.5'
		B. Periodically saturated soil/bedrock	98.0'
Drainfield has a three-foot vertical		C. System separation	3.5'
separation distance from periodically		D. Required compliance separation*	3.0'
saturated soil or bedrock.*		*May be reduced up to 15 percent if allo Ordinance.	owed by Local
5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day)	☐ Yes ☐ No*		
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			

Describe verification methods and results:

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: 13110 Henna Ave N White Bear Lake, MN

55110 Borings Made by Ben Zierke Date: 9/9/2022

Hand bucket auger used for borings;  $\ensuremath{\mathsf{USDA}}$  -  $\ensuremath{\mathsf{SCS}}$  Soil Classification used.

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-11"	10YR 3/3 sandy loam	0	
11-24"	10YR 4/3 loamy sand		
24-30"	10YR 5/4 sandy loam, 7.5YR 5/8 and 10YR 6/1 redox		
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring bresent in hole 2 feet of depth	End of boring at  Standing water tak Present at Standing water not p  Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring bresent in hole feet of depth
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0	fact	0	lost
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring feet of depth feet of depth	End of boring at Standing water tak Present at Standing water not j Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring bresent in hole feet of depth