## **ZIERKE SOIL TESTING**

Julie Wissinger 951 Nason Hill Rd Marine on St Croix, MN 55047

9/1/2022

Dear Julie Wissinger,

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

520 Lafayette Road North

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

St. Paul, MN 55155-4194

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: 1303120120006	Reason for Inspection Sale	
Local regulatory authority info: Washington County		
Property address: 951 Nason Hill Rd Marine on St Croix, MN 5	55047	
Owner/representative: Julie Wissinger	Owner's phone: (612) 812-1987	
Brief system description: Pre-cast septic tank, pre-cast lift tank,	gravity rock trench drainfield	
System status		
System status on date (mm/dd/yyyy): 9/1/2022		
☐ 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	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.)	An imminent threat to public health and safety (ITPHS) must be	
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	upgraded, replaced, or its use discontinued within ten months of receip of this notice or within a shorter period if required by local ordinance of under section 145A.04 subdivision 8.	
Reason(s) for noncompliance (check all applicate	ole)	
<ul> <li>☐ Other Compliance Conditions (Compliance componed System not abandoned according to Minn. R. 7080</li> <li>☐ Soil separation (Compliance component #5) – Failing</li> <li>☐ Operating permit/monitoring plan requirements (Corcomments or recommendations</li> </ul>	ent #3) – Imminent threat to public health and safety ent #3) – Failing to protect groundwater 2500 (Compliance component #3) – Failing to protect groundwater ing to protect groundwater impliance component #4) – Noncompliant - local ordinance applies in for its lifespan - estimated construction is 1987. The city reports that	
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: Benjamin Zierke	License number: 119	
(This document has been electronically sig	ned) Phone: 651-249-1346	
Necessary or locally required supporting do	cumentation (must be attached)	
<ul><li>☑ Soil observation logs</li><li>☑ System/As-Built</li><li>☐ Locally re</li><li>☐ Other information (list):</li></ul>	equired forms 🔲 Tank Integrity Assessment 🔲 Operating Permit	

ness Name: Zierke Soil Testing			Date: 9/1/2022
npact on public health — Co	ompliance com	ponent #1 of 5	
Compliance criteria:		Attached supporting of	documentation:
System discharges sewage to the	☐ Yes* ☒ No	Other:	
ground surface		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 observed during s	ite visit 8/25/2022.		
		-6.5	
ank integrity – Compliance	component #2		do oumontotion i
Compliance criteria:	· 	Attached supporting	
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit,	component #2	Attached supporting o	by inspector
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☑ No	Attached supporting of Empty tank(s) viewed by Name of maintenance	by inspector business: Smilies
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit,	· 	Attached supporting of Empty tank(s) viewed length Name of maintenance License number of maintenance	by inspector business: Smilies intenance business: 2428
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 of Empty tank(s) viewed by Name of maintenance License number of maintenance:	by inspector business: Smilies intenance business: 2428 8/12/2022
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 of Empty tank(s) viewed In Name of maintenance License number of main Date of maintenance:  Existing tank integrity a	by inspector business: Smilies intenance business: 2428 8/12/2022 assessment (Attach)
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 of Empty tank(s) viewed by Name of maintenance License number of maintenance:	by inspector business: Smilies intenance business: 2428 8/12/2022
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?  If yes, which sewage tank(s) leaks:  Any "yes" answer above indicates.	Yes* ⊠ No  Yes* ⊠ No	Attached supporting of Empty tank(s) viewed by Name of maintenance License number of main Date of maintenance:  Existing tank integrity at Date of maintenance (mm/dd/yyyy):  (See form instructions	by inspector business: Smilies intenance business: 2428 8/12/2022 assessment (Attach) 8/12/2022 (must be within three years) to ensure assessment complies
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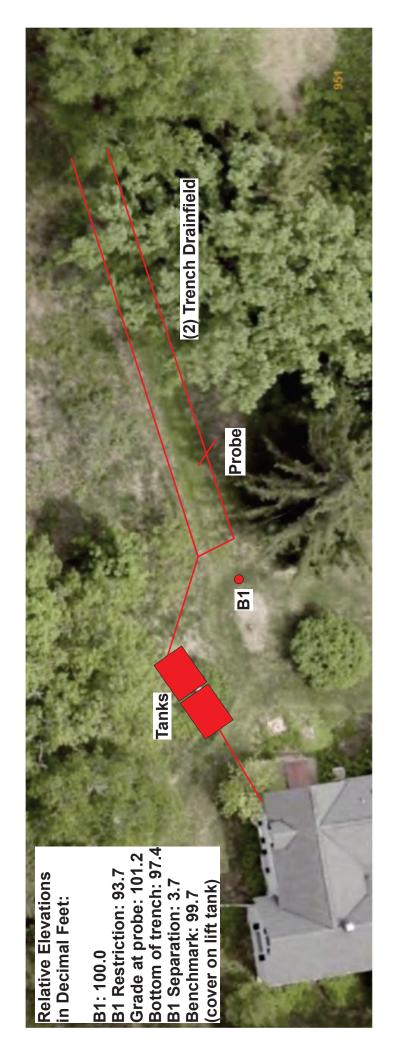
Р	Property Address: 951 Nason Hill Rd Marine on St Croix, MN 55047	
	Business Name: Zierke Soil Testing	Date: 9/1/2022
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	acured?
	☐ Yes* ☐ No ☐ Unknown	culeu:
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safet	v2 □ Ves* ■ No □ Unknown
	*Yes to 3a or 3b - System is an imminent threat to public health and safety.	y:   Tes   No   Olikilowii
	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.	□ 163 ⊠ NO
	Describe verification methods and results:	
	Describe vernication methods and results.	
	Attached supporting documentation: ☐ Not applicable ☐	
4.	Operating permit and nitrogen BMP* – Compliance component #4 o	f 5 ⊠ Not applicable
4.	Operating permit and nitrogen BMP* – Compliance component #4 o	
4.	Is the system operated under an Operating Permit? ☐ Yes ☐ No	If "yes", A below is required
4.	Is the system operated under an Operating Permit?	If "yes", A below is required
4.	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.	Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
4.	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.	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.	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.	Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit?  Is the system required to employ a Nitrogen BMP specified in the system design?  Yes  No  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?  Yes  No  b. Is the required nitrogen BMP in place and properly functioning? Yes  No	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
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4.	Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required

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	Date	9/1/2022
mponent #5	of 5	
_ Unknown		
☐ Yes ⊠ No	Attached supporting documentation:  ☐ Soil observation logs completed for the	ne report
	☐ Two previous verifications of required	vertical separatio
Y ⊠ Yes □ No*	☐ Not applicable (No soil treatment area☐	a)
	_	
☐ Yes ☐ No*  nd a t:	Indicate depths or elevations	
	A. Bottom of distribution media	97.3'
	B. Periodically saturated soil/bedrock	93.7' (see notes
	C. System separation	3.6'
	D. Required compliance separation*	2.0'
	*May be reduced up to 15 percent if allo Ordinance.	owed by Local
☐ Yes ☐ No*		
	_	
system is	_	
	Unknown  Yes No  Yes No*	mponent #5 of 5  □ Unknown □ Yes ☑ No □ Attached supporting documentation: □ Soil observation logs completed for the □ Two previous verifications of required: □ Not applicable (No soil treatment area) □ Unknown □ Two previous verifications of required: □ Not applicable (No soil treatment area)

**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, 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: 951 Nason Hill Rd Marine on St Croix, MN 55047

Borings Made by Ben Zierke Date: 8/25/2022

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-8"	10YR 3/2 coarse sand, 51% rock		·
8-32"	10YR 4/4 coarse sand, 51% rock		
32-53"	10YR 4/4 coarse sand, 10% rock		
53-64"	10YR 7/3 fine sand, 1% rock		
64-76"	10YR 4/4 coarse sand, 10% rock		
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 resent in hole	End of boring at Standing water tal Present at Standing water not Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring present in hole feet of depth
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
End of boring at	feet	O End of boring at	feet
Standing water table Present at Standing water not p Mottled Soil:	le: feet of depth Hours after boring	Standing water tal Present at Standing water not	ole: feet of depth Hours after boring

## **Tank Integrity and Safety Compliance**



System Status: Compliant	
(3/20/2 20)	or observation: Sale of Louse
Compliance Questions/Criteria (required):  (Check the appropriate box)	Verification Method**(optional):  (Check the appropriate box)
Does the system consist of a seepage	☐ Probed tank bottom
Do any sewage tank(s) leak below	☐ Observed low liquid level
If yes, identify which sewage tank leaks.	Examined construction records
Any "yes" answer indicates that the system is failing to protect ground water.	Examined empty (pumped) tank
*Seepage pits meeting 7080.2550 may be compliant if allowed in ordinance by local permitting authority.	☐ Probed outside tank for "black soil"
Notes:	☐ Pressure/vacuum check
	□ Other
Safety Check  1. Are maintenance hole covers damaged, cracked, or appear to be st 2. Were maintenance hole covers replaced in a secured manner (e.g., 3. Was secondary access restraint present (safety pan, second cover, 4. Are other safety/health issues present?	screws replaced)? XYes No*
Explain:	□ Yes* ⊠No
*System is an imminent threat to public health and safety.  Certification	□ Yes* ÍXNo
*System is an imminent threat to public health and safety.	Minnesota Pollution Control Agency's (MPCA) Compliance Observations, interpretations, and conclusions must be
*System is an imminent threat to public health and safety.  Certification  This form is to be completed and attached to the Summary Form of the Inspection Form for Existing Subsurface Sewage Treatment Systems. completed by an inspector, maintainer, or service provider. Completed within 15 days.  Property owner name(s):	Minnesota Pollution Control Agency's (MPCA) Compliance Observations, interpretations, and conclusions must be form must be submitted to the local unit of government
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*System is an imminent threat to public health and safety.  Certification  This form is to be completed and attached to the Summary Form of the Inspection Form for Existing Subsurface Sewage Treatment Systems. completed by an inspector, maintainer, or service provider. Completed within 15 days.  Property owner name(s):  Property address: 95 Nason Hill Rall Property owner's address (if different):  County: Wash Property of the	Minnesota Pollution Control Agency's (MPCA) Compliance Observations, interpretations, and conclusions must be form must be submitted to the local unit of government  When the conclusions report on this form and that they are ation number: