ZIERKE SOIL TESTING

Wayne Van Cleve 219 Hazel Ave Mahtomedi, MN 55115

10/12/2022

Dear Wayne Van Cleve,

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 Zieske

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: _1703021340032	Reason for Inspection Sale		
Local regulatory authority info: Washington County			
Property address: 219 Hazel Ave Mahtomedi, MN 55115			
Owner/representative: Wayne Van Cleve	Owner's phone: 612-425-5536		
Brief system description: 1500 gallon septic tank, 1000 gallon s	septic tank, 1000 gallon lift tank, drop box rock trench drainfield		
System status			
System status on date (mm/dd/yyyy): 10/12/2022			
☐ 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.) *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 receip 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 (Co	mpliance component #4) – Noncompliant - local ordinance applies		
Comments or recommendations			
System functioning normally during site visit 10/5/2022.	Recommend adding risers to tanks to bring covers up to grade.		
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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: Benzaria 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)		
	required forms		
Other information (list):	Tequiled forms Tank integrity Assessment Operating Permit		

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 mminent threat to public health an		
Describe verification methods and	results:	
None of the above observed during s	ite visit 10/5/2022.	
nk integrity – Compliance	component #2	
Compliance criteria:	· 	Attached supporting documentation:
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	component #2	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: Smilies
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	· 	Attached supporting documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: Smilles License number of maintenance 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 documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: Smilies License number of maintenance business: 2428 Date of maintenance: 10/5/2022
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 documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: Smilies License number of maintenance business: 2428 Date of maintenance: 10/5/2022 □ Existing tank integrity 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 documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: Smilies License number of maintenance business: 2428 Date of maintenance: 10/5/2022
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 Yes* ⊠ No	Attached supporting documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: Smilies License number of maintenance business: 2428 Date of maintenance: 10/5/2022 □ Existing tank integrity assessment (Attach) Date of maintenance
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 documentation: Empty tank(s) viewed by inspector Name of maintenance business: Smilies License number of maintenance business: 2428 Date of maintenance: 10/5/2022 Existing tank integrity assessment (Attach) Date of maintenance (mm/dd/yyyy): (must be within three years) (See form instructions to ensure assessment complies)
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 documentation: Empty tank(s) viewed by inspector Name of maintenance business: Smilies License number of maintenance business: 2428 Date of maintenance: 10/5/2022 Existing tank integrity assessment (Attach) Date of maintenance (mm/dd/yyyy): (must be within three years) (See form instructions to ensure assessment complies Minn. R. 7082.0700 subp. 4 B (1))

Pı	roperty Address: 219 Hazel Ave Mahtomedi, MN 55115	
	usiness Name: Zierke Soil Testing	Date: 10/12/2022
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	cured?
	☐ Yes* ☑ No ☐ Unknown	
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety	/? ☐ 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	On the second se	
4.	Operating permit and nitrogen BMP* – Compliance component #4 o	T 5 ⊠ Not applicable
	Is the system operated under an Operating Permit? ☐ Yes ☐ No ☐ I	f "yes", A below is required
	Is the system required to employ a Nitrogen BMP specified in the system design? \square Yes \square No \square	f "yes", B below is required
	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	l.
	Compliance criteria:	
	a. Have the operating permit requirements been met? ☐ Yes ☐ No	
	b. Is the required nitrogen BMP in place and properly functioning? $\ \square$ Yes $\ \square$ No	
	Any "no" answer indicates noncompliance.	
	Describe verification methods and results:	

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usiness Name: Zierke Soil Testing		Date: _	10/12/2022	
Soil separation – Compliance cor	nponent #5 o	f 5		
Date of installation (mm/dd/yyyy)	_ ⊠ Unknown			
Shoreland/Wellhead protection/Food beverage lodging? 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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	⊠ Yes □ No	Attached supporting documentation: ☑ Soil observation logs completed for the report		
	☐ Yes ☐ No*	 ☐ Two previous verifications of required vertical separati ☐ Not applicable (No soil treatment area) ☐		
5b. 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: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	⊠ Yes □ No*	Indicate depths or elevations A. Bottom of distribution media B. Periodically saturated soil/bedrock C. System separation D. Required compliance separation* *May be reduced up to 15 percent if al Ordinance.	96.9' 94.0' 2.9' 2.55'	
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) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*			

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

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Logs of Soil Borings

Location of Project: 219 Hazel Ave Mahtomedi, MN 55115

Borings Made by Ben Zierke Date: 10/5/2022

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"	sandy fill soil	0	
8-14"	10YR 3/2 fine sand <5% rock		
14-39"	10YR 4/4 fine sand <5% rock		
39-63"	10YR 5/4 fine sand 8% rock		
63-72"	10YR 6/4 fine 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 feet of depth feet of depth	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
0		0	
End of boring at	feet	End of boring at	feet