ZIERKE SOIL TESTING

Jan Lodewijk-Grootaers 14598 Old Guslander Trail N Marine on St Croix, MN 55047

November 20, 2023

Dear Jan Lodewijk-Grootaers,

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 a lack of vertical separation between the bottom of your drain field and indicators of seasonally wet soil (redoximorphic features). 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

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 https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Property information	Local tracking number:			
Parcel ID# or Sec/Twp/Range: 0203120340004	Reason for Inspection Sale			
Local regulatory authority info: Washington County				
Property address: 14598 Old Guslander Trail N Marine on St C	Proix, MN 55047			
Owner/representative: Jan Loedwijk-Grootaers	Owner's phone: 612-518-7965			
Brief system description: 1500 gallon pre-cast septic tank with g	gravity rock trench drainfield			
System status				
System status on date (mm/dd/yyyy):11/20/2023				
☐ 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 component #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) − Failing	g to protect groundwater			
☐ Operating permit/monitoring plan requirements (Con	mpliance component #4) – Noncompliant - local ordinance applies			
Comments or recommendations				
the inspection from that time. I suspect a good amount of soils remain. We took a boring off contour a good distance	inspection filed with Washington County in 2015. My findings match foutting/filling was done in the drainfield area and no native or original se from the drainfield to attempt to locate native soils. That boring similar in the drainfield area the system would have still failed for lack			
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 sign	ned) Phone: 651-249-1346			
Necessary or locally required supporting do	cumentation (must be attached)			
⊠ Soil observation logs	equired forms			
Other information (list):				

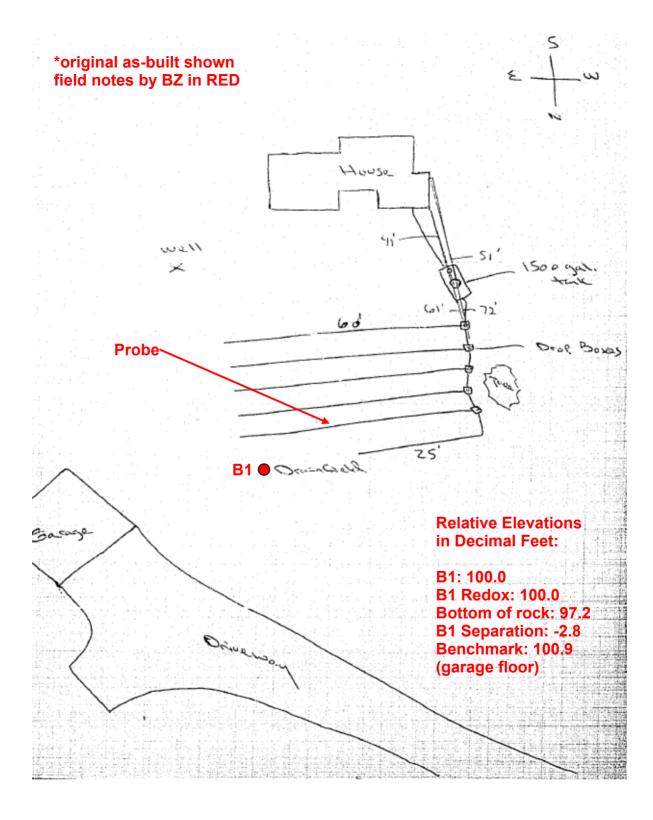
Compliance criteria:		Attached supporting documentation:
System discharges sewage to the ground surface	☐ Yes* ☒ No	☐ Other: ☐ Not applicable
System discharges sewage to drain tile or surface waters.	☐ Yes* ☒ No	
System causes sewage backup into dwelling or establishment.	☐ Yes* No	_
Any "yes" answer above indicates imminent threat to public health ar		
Describe verification methods and	_	_
None of the above observed.		
nk integrity – Compliance	component #	2 of 5
nk integrity – Compliance Compliance criteria:	component #	2 of 5 Attached supporting documentation:
Compliance criteria:	component #	Attached supporting documentation:
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,		Attached supporting documentation: Empty tank(s) viewed by inspector
Compliance criteria: System consists of a seepage pit,		Attached supporting documentation:
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:
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: Date of maintenance: 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 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)
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 indic	☐ 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 complied)
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 complied Minn. R. 7082.0700 subp. 4 B (1))
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 indic	☐ 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 11/16/2023 (must be within three years (See form instructions to ensure assessment complied Minn. R. 7082.0700 subp. 4 B (1)) Tank is Noncompliant (pumping not necessary – explain
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 indic	☐ 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 complied)

Р	roperty Address: _ 14598 Old Guslander Trail N Marine on St Croix, MN 55047	
В	usiness Name: Zierke Soil Testing	Date: 11/20/2023
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	
	Attached supporting documentation: Not applicable	
4.	Attached supporting documentation: ☐ Not applicable ☐ Operating permit and nitrogen BMP* — Compliance component #4	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 Is the system operated under an Operating Permit?	If "yes", A below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	If "yes", A below is required
4.	Operating permit and nitrogen BMP* — Compliance component #4 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 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
4.	Operating permit and nitrogen BMP* — Compliance component #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 complete 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 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 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 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 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 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 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 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 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 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 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 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 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 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 Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required

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

siness Name: Zierke	Soil Testing			Date: _	11/20/2023
Soil separation	– Compliance cor	mpone	nt #5 o	f 5	
Date of installation	10/20/1992 (mm/dd/yyyy)	_ 🗌 Unkn	iown		
Shoreland/Wellhead protection/Food beverage lodging?		☐ Yes No		Attached supporting documentation:	
beverage loughly:				☑ Soil observation logs completed for t	he report
Compliance criteria	a (select one):			☐ Two previous verifications of required vertical separati	
	rior to April 1, 1996, and	☐ Yes	⊠ No*	☐ Not applicable (No soil treatment are	a)
not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:					
Drainfield has at lease separation distance saturated soil or be					
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		☐ No*	Indicate depths or elevations		
			A. Bottom of distribution media	97.2'	
			B. Periodically saturated soil/bedrock	100.0'	
			C. System separation	-2.8'	
		D. Required compliance separation*	2.0'		
saturated soil or bedrock.*				*May be reduced up to 15 percent if all Ordinance.	owed by Local
systems built unde Type IV or V syster Rules 7080. 2350 o (Intermediate Inspe 2,500 gallons per d	ns built under 2008	☐ Yes	□ No*		
Drainfield meets th separation distance saturated soil or be					

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.



Logs of Soil Borings

Location of Project: 14598 Old Guslander Trail N Marine on St Croix, MN 55047

Borings Made by Ben Zierke Date: 11/14/2023

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0	10YR 2/2 loam, 7.5YR 3/6 iron staining (redox)	0	
6-12"	7.5YR 4/4 sandy loam		
12-30"	10YR 3/1 loam, 10YR 5/4 clay loam with 7.5YR 5/8 and 10YR 5/1 redox		
30-36"	10YR 4/1 loam (depleted matrix)		
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 oresent in hole O feet of depth O feet of dept	End of boring at Standing water tal 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
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0		0	

MINNESOTA POLLUTION CONTROL AGENCY

Sewage tank integrity assessment form

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

Subsurface Sewage Treatment Systems (SSTS) Program

Doc Type: Compliance and Enforcement

Purpose: This form may be used to certify the compliance status of the sewage tank components of the SSTS. This form is not a complete SSTS inspection report, only a tank integrity assessment, and may only certify sewage tank compliance status when entirely completed and signed by a qualified professional. SSTS compliance inspection report forms can be found at: https://www.pca.state.mn.us/water/inspections.

Instructions: This form may be completed, and signed, by a Designated Certified Individual (DCI) of a licensed SSTS inspection, maintenance, installation, or service provider business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system. Only a licensed maintenance business is authorized to pump the tank for assessment. A copy of this information should be submitted to the system owner and be maintained by the licensed SSTS business for a period of five (5) years from the assessment date.

When this form is signed by a qualified certified professional, it becomes *necessary supporting documentation* to an Existing System Compliance Inspection Report: <u>Compliance inspection form - Existing system (wq-wwists4-31b)</u>. This form can be found on the MPCA website at https://www.pca.state.mn.us/water/inspections.

The information and certified statement on this form is **required** when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits an inspection report. This form represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4(B)(1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is required according to local regulations. Additional Administrative Rule references for this activity can be found at Minn. R. 7082.0700, subp. 4(B),(C), and (D) and: Minn. R. 7083.0730(C).

Owner information		
Owner/Representative Jan Lodews 5 6 600+	aers	
Property address: 14 598 010 hus landen Local Regulatory Authority:	TR	
Local Regulatory Authority:	Parcel ID	:
System status		
System status on date (mm/dd/yyyy): 11-14-2023		
Certificate of sewage tank compliance	☐ Notice of sewage to	ank non-compliance
Compliance	e criteria:	
The SSTS has a seepage pit, cesspool, drywell, leaching pit, or oth Groundwater."	er pit - "Failure to Protect	☐ Yes* KUNo
The SSTS has a sewage tank that leaks below the designed opera Groundwater. "	ting depth - "Failure to Protect	☐ Yes* ØNo
The SSTS presents a threat to public safety by reason of structural or weak) maintenance hole cover(s) or lids or any other unsafe con Public Health or Safety. "		☐ Yes* 🍇 No
Any "yes" answer above indicate	s sewage tank non-complian	ce.
Company information	Designated Certified Individ	lual (DCI) information
Company name: Olson's Sewer Service, Inc.	Print name: 50-e / Certification number:	Hopen
Business license number:	Certification number:	291
I personally conducted the work described above as a Designated maintenance, installation, or service provider Business. I personally status of each sewage tank in this SSTS.		
By typing/signing my name below, I certify the above statements this information can be used for the purpose of processing this form		of my knowledge, and that
Designated Certified Individual's signature: (This document has been	Date (mi	m/dd/yyyy): 11-16. Le 2
554 705 5700 900 577 2054	on your professed valous on its	Available in attempting formats

www.pca.state.mn.us wq-wwists4-91 • 5/10/21