## **ZIERKE SOIL TESTING**

Karen Hays 9979 Arcola Ct N Stillwater, MN 55082

4/22/2022

Dear Karen Hays,

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

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: 1403020220014	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 9979 Arcola Ct N Stillwater, MN 55082	
Owner/representative: Karen Hays	Owner's phone: <u>317-840-4772</u>
Brief system description: 1500 gallon septic tank, distribution bo System status	x with gravity rock trench drainfield
System status on date (mm/dd/yyyy): 4/22/2022	
	☐ 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 abatement 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.
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 applicate	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 components)	ent #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) – Failin	g to protect groundwater
☐ Operating permit/monitoring plan requirements (Cor	npliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
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:	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
$\boxtimes$ Other information (list): Borings from previous inspection	

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	results:		
		necked distribution box - box is solid and operating	normally.
Homeowner Karen reported that they	have not had any is	sues with the system.	
<b>nk integrity</b> – Compliance	component #2	of 5	
	component #2		
<b>nk integrity</b> – Compliance Compliance criteria:	component #2	of 5  Attached supporting documentation:	
Compliance criteria:	· 	Attached supporting documentation:	
Compliance criteria: System consists of a seepage pit,	component #2		
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit,	· 	Attached supporting documentation:  ⊠ Empty tank(s) viewed by inspector	Olson's
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:	Olson's
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	216 4/20/2022
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:  License number of maintenance business  Date of maintenance:  Existing tank integrity assessment (Attach	216 4/20/2022
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	216 4/20/2022 n)
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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	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 assessm  Minn. R. 7082.0700 subp. 4 B (1))	three years
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P	roperty Address: 9979 Arcola Ct N Stillwater, MN 55082	
	susiness Name: Zierke Soil Testing	Date: 4/22/2022
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	ecured?
	☐ Yes* ☐ No ☐ Unknown	
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safet	v? ☐ 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 o	f 5 ⊠ Not applicable
4.	Operating permit and nitrogen BMP* – Compliance component #4 o	
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 o  Is the system operated under an Operating Permit? □ Yes □ No	If "yes", A below is required
<u>4.</u>	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit? ☐ Yes ☐ No Is the system required to employ a Nitrogen BMP specified in the system design? ☐ Yes ☐ No Is the system required to employ a Nitrogen BMP specified in the system design? ☐ Yes ☐ No Is the system design? ☐ Yes ☐ Y	If "yes", A below is required
<u>4.</u>	Operating permit and nitrogen BMP* — Compliance component #4 or Is the system operated under an Operating Permit? ☐ Yes ☐ No ☐ 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 "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?  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
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usiness Name: Zierke Soil Test	ing				Date: _ <u>/</u>	1/22/2022
Soil separation – Cor	npliance comp	oonent #5	of 5			
Date of installation 10/9/1 (mm/dd	<u> </u>	Unknown				
Shoreland/Wellhead protect	ion/Food	⊠ Yes □ No	o <i>I</i>	Attached supportin	g documentation:	
beverage lodging?				⊠ Soil observation l	ogs completed for th	ne report
Compliance criteria (sele	ct one):		[	☐ Two previous veri	fications of required	l vertical separatio
5a. For systems built prior to A not located in Shoreland of Protection Area or not serv beverage or lodging establ	r Wellhead ring a food,	]Yes ∏ No	o* [ [	☐ Not applicable (N	o soil treatment area	a)
Drainfield has at least a tw separation distance from p saturated soil or bedrock.						
5b. Non-performance systems		☑ Yes ☐ No	o* <u> </u>	ndicate depths o	r elevations	
April 1, 1996, or later or for performance systems local				A. Bottom of distribu	ution media	97.6'
or Wellhead Protection Are food, beverage, or lodging				B. Periodically satu	rated soil/bedrock	95.0'
Drainfield has a three-foot			_	C. System separation	on	2.6'+
separation distance from p			_	D. Required compli	ance separation*	2.55'
saturated soil or bedrock.*				*May be reduced up Ordinance.	o to 15 percent if allo	owed by Local
5c. "Experimental", "Other", or systems built under pre-20 Type IV or V systems built Rules 7080. 2350 or 7080. (Intermediate Inspector Lic 2,500 gallons per day; Adv License required > 2,500 g	08 Rules; under 2008 2400 ense required ≤ anced Inspector	]Yes □ No	<b>)</b> *			
Drainfield meets the design separation distance from p 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

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### **Logs of Soil Borings**

Location of Project: 9979 Arcola Ct N Stillwater, MN 55082 Borings Made by Ben Zierke 4/20/2022 Date: Hand bucket auger used for borings; USDA - SCS Soil Classification used. Depth, in Depth, in **Boring Number 1 Boring Number 2** Inches Inches 0-7" Mixed sandy fill 7-15" 10YR 3/3 fine sand, <5% rock 15-50" 10YR 4/4 fine sand, <5% rock 50-60" 10YR 4/4 medium sand and gravel, 20% rock 60" Obstruction End of boring at End of boring at Standing water table: Standing water table: feet of depth Hours after boring feet of depth Hours after boring Present at Present at Standing water not present in hole Standing water not present in hole Mottled Soil: Mottled Soil: feet of depth Observed at Observed at Mottled soil not present in bore hole Mottled soil not present in bore hole Comments: Comments: Depth, in Depth, in **Boring Number 3 Boring Number 4** Inches Inches End of boring at End of boring at Standing water table: Standing water table: Hours after boring Hours after boring Present at Present at Standing water not present in hole Standing water not present in hole Mottled Soil: Mottled Soil:

Observed at

Comments:

Mottled soil not present in bore hole

Observed at

Comments:

Mottled soil not present in bore hole

University of Minnesota

# **OSTP Soil Observation Log**

v 05.13.14

Project ID:

Consistence 8/28/2014 Loose Loose Loose Loose Loose (Date) 889 Linear Linear 08/12/14 Organic Matter Auger -- Structure---Structureless Structureless Structureless Grade Weak Weak Elevation: Sedrock Date Toe Stope Stope shape Single grain Observation Type: Single grain Single grain Single grain Single grain (License #) Shape 5182 0.0 Alluvium hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws. Slope% Legal Description/ GPS: Indicator(s) F ☐ Shoulder ☐ Back/Side Slope ☐ Foot Slope Redox Kind(s) Hot Dry, Clear ✓ Outwash ☐ Lacustrine Soil survey map units (Signature) Mottle Color(s) 7440 - 152nd Lane NWRamsey None None None None None <u>S</u>81 Matrix Color(s) 7.5YR 3/2 7.5YR3/3 7.5YR3/4 7.5YR 5/4 7.5YR 4/4 Summit Soil parent material(s): (Check all that apply) Frag. % <u>&</u> <35% <35% <35% <35% <35% Weather Conditions/Time of Day: andscape Position: (check one) Grass Paul J. Brandt PSS (Designer/Inspector) Client/ Address: Loamy Fine Sand Loamy Fine Sand Observation #/Location: Loamy Fine Loamy Fine Loamy Fine **Texture** Sand Sand Sand Vegetation Comments Depth (in) 32 to 40 40 to 60 6 to 17 15 to 32 0 to 6

# Additional Soil Observation Logs



Project ID:

່ ວີ	Client/ Address:	7.	440 - 152	7440 - 152nd Lane NWRamsey	<b>WRamse</b>	À	Legal Dex	Legal Description/ GPS:				
Soil parent r	Soil parent material(s): (Check all that apply)	heck all th	nat apply	<u></u>	Outwash	] Lacustrine	∏ ssac1 ☐ an		Alluvium 🗌 Be	Bedrock	Organic Matter	•
Landscape P	Landscape Position: (check one)	( oue)	Summit		Shoulder 🔲	Back/Side Slope	Nope   Foot Slope		Toe SlopSlope shape		Linear Linear	
Vegetation		Grass		Soi	Soil survey map units	nap units		%edolS	1.0	Elevation:	88	889
Weather Cor	Weather Conditions/Time of Day:	of Day:			Ŧ	Hot Dry, Clear	lear		Date		08/12/14	
Observatio	Observation #/Location;				SB2			esq0	Observation Type:			
Death (in)	Texture	Rock	Matrix Color(	Color(s)	Mottle Color(s)	Color(s)	Redox Kindíc)	Indicatorical		Structure		
(iii) iii	2	Frag. %		(c)		(a) invar	(e)auu vaaau	(e) company	Shape	Grade	Consistence	tence
0 to 7	Loamy Fine Sand	<35%	7.5YR 3/2	3/2	None				Single grain	Weak	Loose	se.
7 to 16	Loamy Fine Sand	%98>	7.5YR 3/3	3/3	None				Single grain	Weak	Foose	Se
16 to 31	Loamy Fine Sand	% <u>9</u> E>	7.5YR 3/4	3/4	None				Single grain	Weak	Poose	Se .
31 to 40	Loamy Fine Sand	%gE>	7.5YR 5/4	5/4	None				Single grain	Weak	Foose	Se
40 to 60	Loamy Fine Sand	<35%	7.5YR 4/4	4/4	None				Single grain	Weak	Foose	)\$e
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Comments												
Observatio	Observation #/Location:							Obse	Observation Type:			
Denth (in)	Texture	Rock	Matrix Colori	Color(s)	Mottle Color(s)	Color(s)	Redox Kind(s)	Indicator(c)		Structure		
(;;;)		Frag. %		(2)		(c) longs	(d) num vanau	(e) (a)	Shape	Grade	Consistence	tence
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