## ZIERKE SOIL TESTING

Josh Kline 15901 Scandia Trail Scandia, MN 55079

5/2/2019

Dear Josh Kline,

At your request, I have conducted a septic inspection to determine the compliance status of your 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>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. Proper care and maintenance of the system can prolong lifespan – see <a href="https://septic.umn.edu/septic-system-owners">https://septic.umn.edu/septic-system-owners</a> for more information. A copy of this report will be filed with your local unit of government for their records.

Sincerely,

Ben Zierke

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346

EMAIL benzierke@gmail.com



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

# **Compliance Inspection Form**

### **Existing Subsurface Sewage Treatment Systems (SSTS)**

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.  Submit completed form to Local Unit of Government (LUG) and system owner	For local tracking purposes:					
within 15 days						
System Status						
System status on date (mm/dd/yyyy): 5/2/2019						
Reason(s) for noncompliance (check all applicable)    Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety   Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety   Tank Integrity (Compliance Component #2) – Failing to protect groundwater   Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater   Soil Separation (Compliance Component #4) – Failing to protect groundwater   Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant						
Property Information Parcel ID# or Sec/Twp/Range	ge:					
Property address: 15901 Scandia Trl N Scandia, MN 55079 Reason for	or inspection: Sale					
	phone: josh.kline@mcgough.com					
Owner's representative: Represer	atative phone:					
	y authority phone: 651-430-6655					
Brief system description: (2) 1000 gallon pre cast septic tanks, 1000 gallon pre cast lift station, at-grade dispersal system						
Comments or recommendations:						
Certification						
I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.						
Inspector name: Benjamin Zierke Certificat	on number: C9594					
Business name: Zierke Soil Testing Licer	se number: L119					
Inspector signature: Pho	ne number: 651-249-1346					
Necessary or Locally Required Attachments						
	local ordinance					
☑ Other information (list): Tank Integrity Report						

			(mm/aa/yyyy)				
1.	Impact on Public Health - C	ompliance compon	ent #1 of 5				
	Compliance criteria:		Verification method(s):				
3	System discharges sewage to the	☐ Yes ☒ No	⊠ Searched for surface outlet				
	ground surface.		⊠ Searched for seeping in yard/backup in home				
	System discharges sewage to drain tile or surface waters.	☐ Yes ☐ No	Excessive ponding in soil system/D-boxes				
		☐ Yes ☒ No	☐ Honeowner testimony (See Comments/Explanation)				
	System causes sewage backup into dwelling or establishment.	☐ res ⊠ No	<ul><li>☐ "Black soil" above soil dispersal system</li><li>☐ System requires "emergency" pumping</li></ul>				
1-	Any "yes" answer above indi	cates the	☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
	system is an imminent threat	to public					
82	health and safety.						
	Comments/Explanation:						
	Josh has not had any issues with the	system. No signs of leak	age or ponding during site visit 5/1/19.				
2.	Tank Integrity - Compliance	component #2 of 5					
	Compliance criteria:		Verification method(s):				
	System consists of a seepage pit,	☐ Yes ☒ No	☐ Probed tank(s) bottom				
	cesspool, drywell, or leaching pit.		☐ Examined construction records				
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		☐ Examined Tank Integrity Form (Attach)				
43	Sewage tank(s) leak below their	☐ Yes ☒ No	Observed liquid level below operating depth				
	designed operating depth.	100 2110	Examined empty (pumped) tanks(s)				
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"				
	Any "yes" answer above indi		<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☑ Other methods not listed (See Comments/Explanation)</li> </ul>				
	system is failing to protect g	roundwater.					
	Comments/Explanation:	( # b d)	district 5/4/40 has been and apprehing levels permed				
	Next maintanence pumping is due in 2		ed tanks 5/1/19 - baffles in place and operating levels normal.				
2	Other Compliance Condition	O F	1.10 (5				
5.	Other Compliance Condition						
	a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound.   Yes*  No  Unknown						
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☐ No ☐ Unknown *System is an imminent threat to public health and safety.						
	Explain:						
	c. System is non-protective of ground	water for other condition	ns as determined by inspector .   Yes*  No				
	*System is failing to protect groundwater.						
	Explain:						

Property address: 15901 Scandia Trl N Scandia, MN 55079

Inspector initials/Date: BZ | 5/2/2019

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Property address: 15901	Scandia Trl N Scand	ia, MN 55	5079		Inspector initials/Date:		
						(mm/dd/yyyy)	
4. Soil Separation	– Compliance co	mpone	nt #4 of 5				
				\/:K1	4' 4b 4/->-		
Date of installation:	8/4/2003 (mm/dd/yyyy)	Unknown		Verification method(s):			
Shoreland/Wellhead protection/Food beverage lodging?  Compliance criteria:		☐ Yes ⊠ No		Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local			
				requirements differ.			
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food,		Yes No		☐ Conducted soil observation(s) (Attach boring logs)			
				Two previous verifications (Attach boring logs)			
beverage or lodging esta	blishment:			☐ Not applicable (Holding tank(s), no drainfield)			
Drainfield has at least a t				☐ Unable to verify (See Comments/Explanation)			
separation distance from saturated soil or bedrock				☐ Other (See Comments/Explanation)			
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:		⊠ Yes	□No	Comments/Explanation:			
Drainfield has a three-foo separation distance from saturated soil or bedrock	periodically						
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)  Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		☐ Yes	☐ No	Indicate depths or elevations			
				A. Bott	tom of distribution media	100.0'	
				B. Peri	iodically saturated soil/bedrock	97.2'	
				C. Sys	tem separation	2.8'	
				D D.	quired compliance separation*	3.0' (2.55' with allowance)	
Any "no" answer a failing to protect gibs.  5. Operating Perm	roundwater.			*May k Ordin	oe reduced up to 15 percent ance.		
Is the system operate				□No	AND THE REST OF THE PARTY OF TH		
Is the system required	THE REAL PROPERTY AND PROPERTY				If "yes", B below is requ		
	agement Practice(s)				ii yee , B below to loqe		
		• 1000000000000000000000000000000000000	5-00-04-0-00-00-04-0-0-0-0-0-0-0-0-0-0-0				
If the answer to both questions is "no", this section does not need to be completed.							
Compliance criter	ia						
a. Operating Permit number:     Have the Operating Permit requirements been met?  b. Is the required nitrogen BMP in place and properly functioning?							
			☐ Yes ☐ No				
			g?	☐ Yes ☐ No			
Any "no" answe	2012 MARINE AND MARINE	70.00					
	www.minestermi		rama a solot (1 to Villand)				
discontinued within ten i ground water, the system	months of receipt of this m must be upgraded, re	notice or i placed, or	within a shorter p its use discontin	eriod if re ued withii	h and safety (ITPHS) must be u equired by local ordinance. If the n the time required by local ordi en the system need not be upgi	e system is failing to protect nance. If an existing system	

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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.



#### DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

GOVERNMENT CENTER

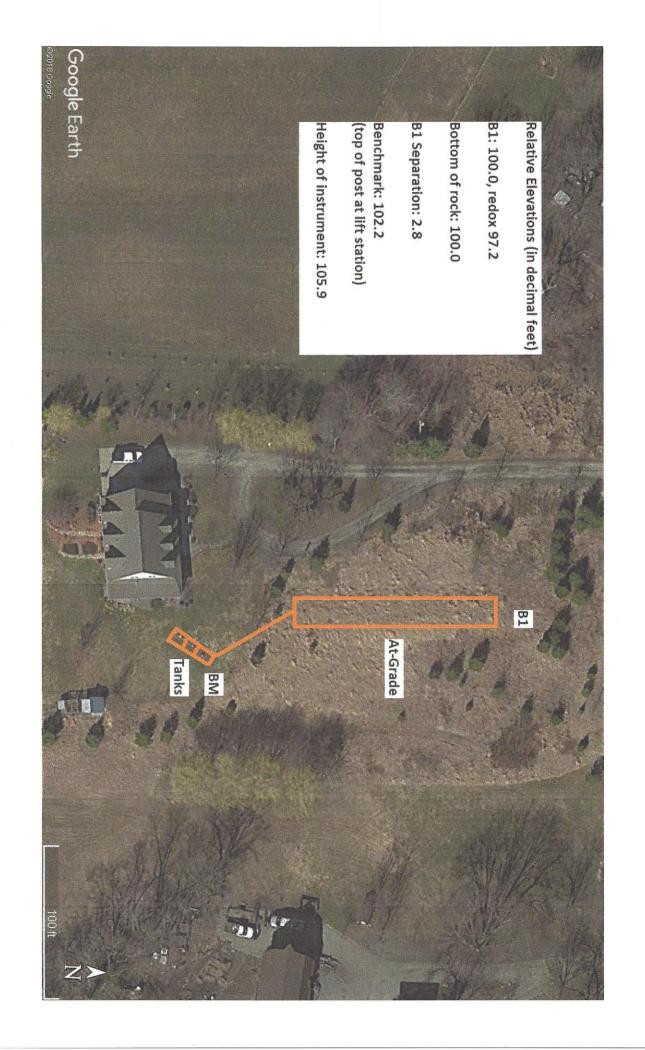
14949 62nd STREET NORTH P.O. BOX 6 STILLWATER, MN 55082-0006
Office: 651-430-6655 TTY: 651-430-6246 FAX: 651-430-6730

# Subsurface Sewage Treatment System Maintenance Permit

is section must be completed in its entirety to constitute a valid maintenance permit. This permit must be completed prior to performing maintenance activities and remain on-site for the duration of the maintenance activity.

				A	
Date of Maintenance: 12-13-17 Reason for Maintenance: 12-17 Reason for Main					
Property Address:	Property Address: 500 Sunda + 1 Property Owner's Name: Och Kline				
Municipality: Sca	udid ZIP: SSC	23 Property Idea	ntification Number		
Maintenance Permit N	0: 12523 - 102 54 Ma			ie's Sewer Service/L	2428
****					
Maintonar	nce Performed	Tank Meas	urement (must be	completed if tanks	NOT numped)
	ice i eriormed			completed if tariks	NOT pumped)
Tank(s) Pumped			Tank in	Scum Level in Tank	in
Sludge and scum m Do tanks need to b				evelX 100	
	no provide measurements)	= % Sludge & Scum Tanks must be pumped if 25% or greater			
1. Access used to remove septage: Maintenance Hole Other (enter authorization code)  2. Were all covers securely replaced? Yes No					
<ol><li>Is there evidence of dama</li></ol>	of tank leakage from a sept ged, cracked, or structural	ic, holding, pretr	eatment or pump	tank below the ope	rating depth or
	J			is. I les Elvo	
	Tank	Leaking Out	Leaking In	Cover Damage	
	Septic/Holding Tank #1	☐ Yes ☐No	☐ Yes ☐ No	☐ Yes ☐ No	
	Septic/Holding Tank #2	☐ Yes ☑No	☐ Yes ੴNo	☐ Yes ☑No	
	Pretreatment Tank	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
	Pump Tank	☐ Yes ☑No	☐ Yes ⊅No	☐ Yes ♠No	
4. How many gallons of septage were removed?  Tank #1 gal Tank #2 gal Pretreatment tank gal Pump Tank  5. Other information: List any troubleshooting, minor repairs conducted, tank safety concerns, or other concerns.					
		6 71 1 6			

Smilie's Sewer Service PO BOX 100 Scandia, MN 55073 License# 2428 P: 651-433-3934



### **Logs of Soil Borings**

Location of Project:

15901 Scandia Trl N Scandia, MN 55073

Borings Made by Ben Zierke

Date:

5/1/2019

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

Depth, in Inches 0	Boring Number 1  7.5YR 3/3 sandy loam  5YR 4/4 silt loam  5YR 4/4 loamy till, redox present at 33", obstruction at 36"	Depth, in Inches 0	Boring Number 2
Standing water not present in hole  Mottled Soil:  Observed at 2.8 feet of depth		End of boring at Standing water table Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring resent in hole feet of depth
Depth, in Inches 0	Boring Number 3	Depth, in Inches 0	Boring Number 4
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 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