## ZIERKE SOIL TESTING

Chris Hickle 23240 Itasca Ave N Forest Lake, MN 55025

5/10/2019

Dear Chris Hickle,

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, this 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.

Sincerely,

Benjamin 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 within 15 days	For local tracking purposes:				
System Status					
System status on date (mm/dd/yyyy): _5/10/2019					
	bliant – Notice of Noncompliance e Requirements on page 3.)				
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					
	nge:				
	entative phone:				
Certification  I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknot possible abuse of the system, inadequate maintenance, or future water usage.	compliance status of this system. No wn conditions during system construction,				
Benjamin Ziente	ation number: C9594				
Eddined Harris.	ense number: <u>L119</u> none number: <u>651-249-1346</u>				
Necessary or Locally Required Attachments					
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	er local ordinance				

		,	(mm/dd/yyyy)			
1	Impact on Dublic Hoalth	Compliance compan	ent #1 of 5			
1.	Impact on Public Health – Compliance criteria:	sompliance compon	Verification method(s):			
ā	The state of the s	DV NN-	Searched for surface outlet			
	System discharges sewage to the ground surface.	☐ Yes ☒ No	Searched for seeping in yard/backup in home			
÷	System discharges sewage to drain	☐ Yes ⊠ No	☐ Excessive ponding in soil system/D-boxes			
	tile or surface waters.					
	System causes sewage backup into	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system			
=	dwelling or establishment.		System requires "emergency" pumping			
	Any "yes" answer above ind		☐ Performed dye test			
	system is an imminent threat to public		☐ Unable to verify (See Comments/Explanation)			
12	health and safety.		☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:	D 1 1 1 1	it 4/0/0040 I did not about a proprieto of noot issues with the			
	Chris did not report any issues with the system.	ie system. During site vis	sit 4/2/2019, I did not observe any signs of past issues with the			
	System.					
2.	Tank Integrity – Compliance	component #2 of 5				
	Compliance criteria:	and the second s	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)			
104	Sewage tank(s) leak below their	☐ Yes ⊠ No	☐ Observed liquid level below operating depth			
	designed operating depth.	Li Tes Zi No	Examined empty (pumped) tanks(s)			
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"			
	Any "yes" answer above ind	licates the	Unable to verify (See Comments/Explanation)			
	system is failing to protect g	roundwater.	Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:					
	Tanks pumped by Olson's Sewer Ser	vice 5/7/2019. See attac	ched.			
3.	Other Compliance Condition	ns – Compliance com	ponent #3 of 5			
	a. Maintenance hole covers are dam	naged, cracked, unsecure	ed, 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 conditions as determined by inspector . ☐ Yes* ☐ No *System is failing to protect groundwater.					
	Explain:					

Property address: 23240 Itasca Ave Forest Lake, MN 55025

Inspector initials/Date: BZ | 5/10/2019

 TTY 651-282-5332 or 800-657-3864
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4. Soil Separation — Compliance co	omponent #4 of 5			(mm/dd/yyyy)	
Date of installation: 5/26/2000	Unknown	Verific	cation method(s):		
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes   No	Soil observation does not expire. Previous s observations by two independent parties are unless site conditions have been altered or		rties are sufficient,	
Compliance criteria:	T	require	ments differ.		
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:	☐ Yes ☐ No	<ul> <li>☐ Conducted soil observation(s) (Attach boring logs)</li> <li>☐ Two previous verifications (Attach boring logs)</li> <li>☐ Not applicable (Holding tank(s), no drainfield)</li> </ul>			
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		☐ Unable to verify (See Comments/Explanation) ☐ 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	Comm	ents/Explanation:		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate depths or elevations			
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector		A. Bott	tom of distribution media	102.4	
License required)		B. Peri	iodically saturated soil/bedrock	99.0	
Drainfield meets the designed vertical separation distance from periodically		C. Sys	tem separation	3.4	
saturated soil or bedrock.		D. Required compliance separation*		3.0	
Any "no" answer above indicates the system is failing to protect groundwater.  *May be reduced up to 15 percent if allowed by Local Ordinance.					
5. Operating Permit and Nitroge		nce com		Not applicable	
Is the system operated under an Operatin	g Permit?	s □ No	* :		
Is the system required to employ a Nitroge	en BMP? Yes	s □ No	If "yes", B below is requi	red	
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. Operating Permit number:     Have the Operating Permit requirements been met?		☐ Yes ☐ No			
b. Is the required nitrogen BMP in place	e and properly functioni	ng?	ng? Yes No		
Any "no" answer indicates Non-	compliance.				
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					

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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.

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## **Logs of Soil Borings**

Location of Project:

23240 Itasca Ave Forest Lake, MN 55025

Borings Made by Ben Zierke

Date:

5/10/2019

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

Depth, in Inches 0	Boring Number 1	Depth, in Inches 0	Boring Number 2
0-8"	7.5YR 3/3 loam		
8-18"	7.5YR 4/4 loam, redox present below 12"		
End of boring at 1.5 feet  Standing water table: Present at feet of depth Standing water not present in hole  Mottled Soil: Observed at 1 feet of depth Mottled soil not present in bore hole  Comments:		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 bresent in hole feet of depth
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
O End of boring at	feet	O End of boring at	leet
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	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

## Service Order

Service Order #: 90875

Olson's Sewer Service, Inc. 17638 Lyons Street N.E. Forest Lake, MN 55025 651-464-2082 5/7/2019 Preferred Time: Date: 8:00 AM IMPORTANT NOTE 8:00 AM Road Restrictions (Tons) Send Ben info right away next day. Addr: 23240 Itasca Avenue North Name: Chris Hickle C1: (651) 402-4423 Chris City: Forest Lake, MN 55025 Cty: Washington Twp: Driving Dir Work number noted is Chris' cell number Tank Type Pre-cast PreT T1C T1 T2 **T3** LS Treatment Type Mound System 1000 Sizes: 1000 1000 Treatment Area Depth to MH: 3" C 3" C Grade Dist to Tank 1 225 Ft Riser Feet: Dist to Lift Tank 275 Ft LS Outlet to Bottom: PreT T1C T2 T3 LS **T1** Water Meter Power Disconnect at Lift Covers Secure: Y Y Effluent Filter Looped Y Infiltration ↑ OL: N N N Two Techs # Bedrooms 4 Infiltration J. OL: N N N City Sewer Pump Breaker Scum Depth: 2 1 0 Install Date 10/26/2000 **Baseline Equal Dist Hgt** Sludge Depth: 14 1 2 Installer Perry Excavating Inlet Baffle Intact: Y 1 4 Outlet Baffle Intact: V 2 5 As Built W-1182 Pump Function: Y 3 6 Y Alarm Function: Cleanout Filter Alarm Function: Lift Pump 1/3 - 34gpm **Last Service** Mobilize At Site Complete Disposal Leave Disposal Service Type Date Time Time Time Time Time 7:50 AM 1 Maintenance Pumping 11/16/2015 7:30 AM 9:00 AM 2 Lift Station Maintenance 11/16/2015 3 LUG Permit 11/16/2015 4 Compliance Inspection Time Dosing Iron Filter Eq Dist Hgt 1 S&E Quality **Functioning** Readings **Previous** Lint Filter Sump Pump PH Reading 2 Event/Cycle Ctr Switch Tree **Ejector Pump** Non Dom 3 Elapsed Time Wastes Mgmt Plan **Event Counter** 4

5

6

Garbage Disp.

Water Softener

Monitoring

Irrigation

TA Visual

Insp

Time Dosing

Water Meter