ZIERKE SOIL TESTING

Jeff Dunn 13033 170th St N Marine on St Croix, MN 55047

9/12/2019

Dear Jeff Dunn,

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. 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



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	For local tracking purposes: y.			
Submit completed form to Local Unit of Government (LUG) and system of within 15 days	owner			
System Status	2			
System status on date (mm/dd/yyyy): 9/12/2019				
	ncompliant – Notice of Noncompliance Upgrade Requirements on page 3.)			
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent Other Compliance Conditions (Compliance Component #3) – Imm Tank Integrity (Compliance Component #2) – Failing to protect gr Other Compliance Conditions (Compliance Component #3) – Fail Soil Separation (Compliance Component #4) – Failing to protect gr Operating permit/monitoring plan requirements (Compliance Comp	ninent threat to public health and safety oundwater ling to protect groundwater groundwater			
Property Information Parcel ID# or Sec/	Twp/Range:			
	Reason for inspection: Sale			
Property owner: Jeff Dunn	Owner's phone:jgmmdunn@aol.com			
or				
	Representative phone: 651,420,6655			
Local regulatory authority: Washington County Brief system description: (2) 1000 gallon septic tanks, (1) 1000 gallon lift si	Regulatory authority phone: 651-430-6655			
Comments or recommendations:	tation, drop box rook tremor drainned			
No permit or design records available on file with Washiington County. Difficulate soil that was filled. \	It to find an area adjacent to the drainfield that did not			
Certification				
I hereby certify that all the necessary information has been gathered to determination of future system performance has been nor can be made due to possible abuse of the system, inadequate maintenance, or future water usage	o unknown conditions during system construction,			
Inspector name: Benjamin Zierke	Certification number: C9594			
Business name: Zierke Soil Testing	License number: _L119			
Inspector signature:	Phone number:651-249-1346			
Necessary or Locally Required Attachments				
☑ Soil boring logs☑ System/As-built drawing☑ Other information (list):	orms per local ordinance			

			(mm/dd/yyyy)				
1.	Impact on Public Health - C	ompliance compo	onent #1 of 5				
	Compliance criteria:		Verification method(s):				
	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 ☐ Homeowner testimony (See Comments/Explanation) 				
	System causes sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system				
	Any "yes" answer above indi	cates the	System requires "emergency" pumping				
	system is an imminent threat to public		☐ Performed dye test ☐ Unable to verify (See Comments/Explanation)				
	health and safety.	-	Other methods not listed (See Comments/Explanation)				
	Comments/Explanation:	399 99	,,				
		stem. Did not observe	e any ponding, leaking or surfacing effluent during site visit				
	9/9/2019.						
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.	Schweritten St.	Examined construction records				
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		☐ Examined Tank Integrity Form (Attach)				
		☐ Yes ☒ No	☐ Observed liquid level below operating depth				
	Sewage tank(s) leak below their designed operating depth.	☐ res ☐ No					
	If yes, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil"				
,	Any "yes" answer above indi	cates the	☐ Unable to verify (See Comments/Explanation)				
	system is failing to protect gi		Other methods not listed (See Comments/Explanation)				
	Comments/Explanation:						
	Pumped 9/9/2019 by Hassle Free. Tar	nks in good condition,	baffles in place.				
3.	Other Compliance Condition	s – Compliance cor	mponent #3 of 5				
	Maintenance hole covers are dama	iged, cracked, unsecui	red, 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:	panner round and ou					
	<u> Баріані.</u>						
	c. System is non-protective of ground water for other conditions as determined by inspector . ☐ Yes* ☐ No *System is failing to protect groundwater.						
	Explain:						

Inspector initials/Date: BZ | 9/12/2019

Property address: 13033 170th St N Marine on St Croix 55047

. Soil Separation - Compliance co	omponent	#4 of 5			
Date of installation: 2004	Unknow	NOTE IN	erification i	method(s):	
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage ☐ Yes ☒ Noted Description: Yes ☒ Noted Description		No ol	Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local		
Compliance criteria:		re	quirements d	liffer.	
For systems built prior to April 1, 1996, and	☐ Yes ☐ No] No	□ Conducted soil observation(s) (Attach boring logs)		
not located in Shoreland or Wellhead Protection Area or not serving a food,			☐ Two previous verifications (Attach boring logs)		
everage or lodging establishment:			☐ Not applicable (Holding tank(s), no drainfield)		
Prainfield has at least a two-foot vertical			☐ Unable to verify (See Comments/Explanation)		
eparation distance from periodically aturated 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, neverage, or lodging establishment:	formance nd or Wellhead a food,		omments/Ex	planation:	
Orainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
Experimental", "Other", or "Performance"	☐ Yes ☐] Noin	Indicate depths or elevations		
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.		A.	Bottom of dis	tribution media	98.8'
2350 or 7080.2400 (Advanced Inspector icense required)			Periodically s	aturated soil/bedrock	95.8'
Drainfield meets the designed vertical		C.	System sepa	ration	3.0'
separation distance from periodically saturated soil or bedrock.		-		3 40	3.0'
Any "no" answer above indicates to failing to protect groundwater. Operating Permit and Nitroger		n is *N	lay be reduce ordinance.	npliance separation* ed up to 15 percent in t #5 of 5	
		900.000 E500		- Alexander - Carlotte	
Is the system operated under an Operating	2) -13 (1970) (1970) (1970)		No If "yes", A below is required □ No If "yes", B below is required		
Is the system required to employ a Nitroge		∐ Yes L		s , b below is requi	red
BMP = Best Management Practice(s)	50000 000000				
If the answer to both questions is "i	no", this se	ection does n	ot 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	b. Is the required nitrogen BMP in place and properly functioning?			□ No	
Any "no" answer indicates Nonc					
	=				
Upgrade Requirements (Minn. Stat. § 115.55 discontinued within ten months of receipt of this					

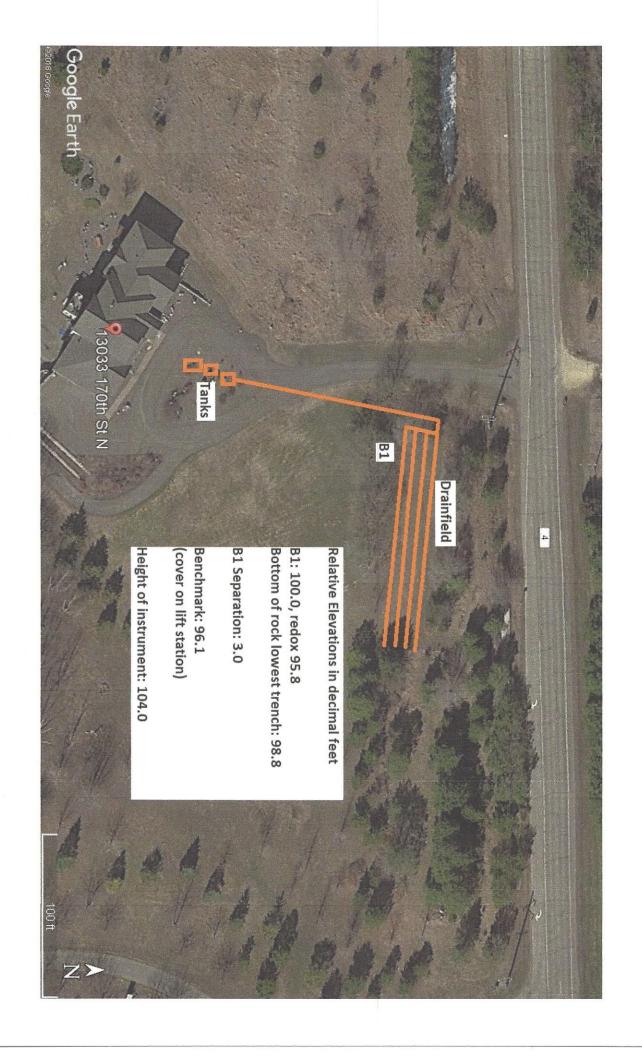
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Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

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,



Logs of Soil Borings

Location of Project:

13033 170th St N Marine on St Croix, MN 55047

Borings Made by Ben Zierke

Date:

9/12/2019

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0		0	
0-36"	Silt loam fill		
36-44"	10YR 3/3 loamy sand, compacted likley fill soils		
44-60"	10YR 4/4 loamy sand with 4/6 lamellae bands starting at 48" 10YR 6/2 reductions present near lamellae bands below 50"		e e
End of boring at	5 feet	End of boring at	feet
Standing water table Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring 4.2 feet of depth 4.2 feet of depth	Standing water tabl Present at Standing water not pr Mottled Soil: Observed at Mottled soil not prese Comments:	feet of depth Hours after boring resent in hole feet of depth
Depth, in	Boring Number 3	Depth, in	Boring Number 4
Inches		Inches	
U		0	
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 present in hole feet of depth	End of boring at Standing water tabl 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