ZIERKE SOIL TESTING

Wayne Schmitt 20769 Keewahtin Ave Forest Lake, MN 55025

9/12/2019

Dear Wayne Schmitt,

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. 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): 9/12/2019	
	pliant – Notice of Noncompliance de Requirements on page 3.)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat Other Compliance Conditions (Compliance Component #3) – Imminent to Tank Integrity (Compliance Component #2) – Failing to protect grounded Other Compliance Conditions (Compliance Component #3) – Failing to protect grounded Soil Separation (Compliance Component #4) – Failing to protect grounded Operating permit/monitoring plan requirements (Compliance Component	threat to public health and safety ater protect groundwater water
Property Information Parcel ID# or Sec/Twp/Ra	ange:
	n for inspection: Sale
	s phone: 651-587-2860
or	
· · · · · · · · · · · · · · · · · · ·	sentative phone:
	tory authority phone: 651-430-6655
Brief system description:1000 gallon septic tank, 1000 gallon lift station, drop box Comments or recommendations:	TOOK TELLIT GRAINIEG
Certification	
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 unknown possible abuse of the system, inadequate maintenance, or future water usage.	
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 unknown possible abuse of the system, inadequate maintenance, or future water usage.	
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 unknown possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Benjamin Zierke Certific	own conditions during system construction,
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 unknown possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Benjamin Zierke Certific Business name: Zierke Soil Testing Lice	eation number: C9594
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 unknown possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Benjamin Zierke Certific Business name: Zierke Soil Testing Lice	eation number: C9594 sense number: L119

			(mm/dd/yyyy)
1.	Impact on Public Health -	Compliance compor	nent #1 of 5
	Compliance criteria:	· · · · · · · · · · · · · · · · · · ·	Verification method(s):
9	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)
12	System causes sewage backup into	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system
33	dwelling or establishment.		☐ System requires "emergency" pumping
	Any "yes" answer above ind system is an imminent threa		Performed dye test
	health and safety.	t to public	Unable to verify (See Comments/Explanation)
18	Comments/Explanation:		Other methods not listed (See Comments/Explanation)
		or leakage during site v	risit 6/24/2019. Wayne did not report any issues with the system.
		-	
2.	Tank Integrity - Compliance	component #2 of 5	
III. HOHEITE	Compliance criteria:		Verification method(s):
81	System consists of a seepage pit,	☐ Yes ☒ No	☐ Probed tank(s) bottom
	cesspool, drywell, or leaching pit.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	☐ Examined construction records
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		
	200 DA NA ES DA 100 DA	☐ Yes ☒ No	Observed liquid level below operating depth
	Sewage tank(s) leak below their designed operating depth.	☐ res ⊠ 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 system is failing to protect of		 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
	Comments/Explanation:	nounawater.	
	Tanks pumped by Smilies 7/15/2019	See attached tank inted	crity form.
	,		,
3.	Other Compliance Condition	ns – Compliance com	ponent #3 of 5
	Maintenance hole covers are dan	naged, cracked, unsecure	ed, or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown
	b. Other issues (electrical hazards, etc) to immediately and adv	ersely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown
	*System is an imminent threat	to public health and saf	ety.
	Explain:		
	c. System is non-protective of groun *System is failing to protect gro		ns as determined by inspector . ☐ Yes* ☐ No
	Explain:		
	-		

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

Property address: 20769 Keewahtin Ave Forest Lake, MN 55025

Property address: 20769 Keewahtin Ave Fores	st Lake, MN 55025	Inspector initials/Date:	
			(mm/dd/yyyy)
4. Soil Separation - Compliance co	omponent #4 of 5		
Date of installation: 4/1/1987	Unknown	Verification method(s):	
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?	⊠ Yes □ No	Soil observation does not expire. Pro observations by two independent pa unless site conditions have been alt	rties are sufficient,
Compliance criteria:		requirements differ.	
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	☐ Yes ☐ No	☐ Conducted soil observation(s) (Attach boring logs)	
Protection Area or not serving a food,		Two previous verifications (Attacl	
beverage or lodging establishment:		Not applicable (Holding tank(s), no	
Drainfield has at least a two-foot vertical		Unable to verify (See Comments/E	xplanation)
separation distance from periodically 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-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. Bottom of distribution media	96.9'
License required)		B. Periodically saturated soil/bedrock	93.5'
Drainfield meets the designed vertical		C. System separation	3.4'
separation distance from periodically saturated soil or bedrock.		D. Domised compliance according	3.0'
Any "no" answer above indicates t failing to protect groundwater.	he system is	 D. Required compliance separation* *May be reduced up to 15 percent if Ordinance. 	
Operating Permit and Nitroger			Not applicable
Is the system operated under an Operating	Permit?	□ No If "yes", A below is requi	
Is the system required to employ a Nitroge	n BMP?	☐ 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 "I	no", this section do	es not need to be completed.	
Compliance criteria			
a. Operating Permit number:		☐ Yes ☐ No	
Have the Operating Permit requirement	ents been met?	Lies Lino	
b. Is the required nitrogen BMP in place	and properly functionir	ng?	
Any "no" answer indicates None			

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.

TTY 651-282-5332 or 800-657-3864 • Available in alternative formats www.pca.state.mn.us • 651-296-6300 • 800-657-3864 Page 3 of 3

Logs of Soil Borings

Location of Project:

20769 Keewahtin Ave Forest Lake, MN 55025

Borings Made by Ben Zierke

Date:

6/25/2019

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

Depth, in Inches 0 0-18" 18-22" 22-42" 42-56" 56-78"	Boring Number 1	Depth, in Inches 0	Boring Number 2
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	6.5 feet le: feet of depth Hours after boring resent in hole X 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
Depth, in Inches 0	Boring Number 3	Depth, in Inches 0	Boring Number 4
End of boring at Standing water tal Present at Standing water not Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring oresent in hole 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



SECTION 13: Forms and Reference = 13-53

arce	I number:	System status:
'ar	k Integrity and Safety Compliance – Complian	ce Inspection Form for Existing SSTS
on	pliance Issue #2 of 4	0 1
	of observation: 17/15/19 Reason for observation	n: Cust Selling house
his	form expires on (three years): 7/15/22	
	apliance questions/criteria: (Required) (Check the appropriate box)	Verification Method**: (Optional) (Check the appropriate box)
	ithe system consist of a seepage pit*, Yes No pool, drywell, or leaching pit?	Probed tank bottom
	ny sewage tank(s) leak below their Yes X No ned operating depth?	Observed low liquid level Examined construction records
	s, identify which	Examined empty (pumped) tank
	age tank leaks. "yes" answer indicates that the system is falling to protect	Probed outside tank for "black soil"
	Tyes" answer indicates that the system is railing to protect and water.	☐ Pressure/vacuum check
	sepage pits meeting 7080.2550 may be compliant if allowed ordinance by local permitting authority.	Other:
		No standard protocol exists. This list is not exhaustive, in sequential order, nor does it indicate which combinations are necessary to make this determination.
0	take of the analy	
29	Fety Check	
Sa:	Are maintenance hole covers damaged, cracked, or appeared to be	structurally unsound?
1.	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g.,	screws replaced)?
1.	Are maintenance hole covers damaged, cracked, or appeared to be	screws replaced)?
1. 2. 3.	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g.,	screws replaced)?
1. 2.	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain:	screws replaced)? Yes No* or safety netting) – highly recommended. Yes No
1. 2. 3.	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., a Was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present?	screws replaced)? Yes No* or safety netting) – highly recommended. Yes No
1. 2. 3. 4.	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain:	screws replaced)? Yes No* or safety netting) – highly recommended. Yes No
1. 2. 3. 4. Ce Thine coi	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Priffication Is form is to be completed and attached to the Summary Form of the pection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Operty owner name(s):	e Minnesota Pollution Control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be iform must be submitted to the local unit of government wilhin
1. 2. 3. 4. Ce Thine cool 15	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., Was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Partification Is form to be completed and attached to the Summary Form of the spection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Operty owner name(s): Operty owner name(s): Wellow Hellow	screws replaced)? or safety netting) – highly recommended. Yes No Yes No Yes No Who Who Who Who Who Who Who
1. 2. 3. 4. Ce Thine coi 15	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., Was secondary access restraint present (safety pan, second cover, Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Partification Is form is to be completed and attached to the Summary Form of the spection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Departy owner name(s): Departy owner's address (if different):	e Minnesota Pollution Control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a submitted to the local unit of government within the control Agency's (MPCA) Compliance ems.
1. 2. 3. 4. Ce Thine coor 15 Properties	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Profit is to be completed and attached to the Summary Form of the pection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Operty owner name(s): Operty owner's address: Operty owner's address (if different): Departy owner's address (if different): Property owner's address (if different):	e Minnesota Pollution Control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form of the control agency's (MPCA) Compliance ems.
1. 2. 3. 4. Cee Thi Insection 15 Pro Pro Cee III.	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., Was secondary access restraint present (safety pan, second cover, Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Partification Is form is to be completed and attached to the Summary Form of the spection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Departy owner name(s): Departy owner's address (if different):	e Minnesota Pollution Control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form of the control agency's (MPCA) Compliance ems.
1. 2. 3. 4. Cee Thiline cool 15 Pr Pr Ccc 111 ccc	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Profession is form to be completed and attached to the Summary Form of the spection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Property owner name(s): Operty owner name(s): Operty owner's address (if different): Property owner's address (if different):	e Minnesota Pollution Control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance ems. Observations, interpretations, and conclusions must be a form of the control agency's (MPCA) Compliance ems.
1. 2. 3. 4. Ce This insection 15 Pro Pro Co I it co	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Profession is to be completed and attached to the Summary Form of the pection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Departy owner name(s): Departy owner's address (if different): Departy owner's address (if different): Departy certify that I personally made the observations, interpretation treet. Semies: Let You he was a service of the property of the personal o	e Minnesota Pollution Control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be if form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be if form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be in the control of government within the control
1. 2. 3. 4. Ce Thi insection 15 Pro Co I it co Ni Bi	Are maintenance hole covers damaged, cracked, or appeared to be Were maintenance hole covers replaced in a secured manner (e.g., was secondary access restraint present (safety pan, second cover, or Are other safety/health issue present? Explain: "System is an imminent threat to public health and safety. Profession is form to be completed and attached to the Summary Form of the spection Form for Existing Subsurface Sewage Treatment System pleted by an inspector, maintainer, or service provider. Completed days. Property owner name(s): Operty owner name(s): Operty owner's address (if different): Property owner's address (if different):	e Minnesota Pollution Control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be if form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be if form must be submitted to the local unit of government within the control Agency's (MPCA) Compliance erms. Observations, interpretations, and conclusions must be in the control of government within the control