

ZIERKE SOIL TESTING

Rich Evans
11120 Mayberry Trail
Marine on St Croix, MN 55047

9/13/2019

Dear Rich Evans,

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 compliant. 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 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): 9/13/2019

Compliant – Certificate of Compliance
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

Noncompliant – Notice of Noncompliance
(See Upgrade 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

Property Information

Parcel ID# or Sec/Twp/Range: _____

Property address: 11120 Mayberry Trl Marine on St Croix, MN 55047 Reason for inspection: Sale

Property owner: Rich Evans Owner's phone: 651-433-2501

or

Owner's representative: _____ Representative phone: _____

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6655

Brief system description: Pre-cast septic tank and gravity rock trench drainfield

Comments or recommendations:

Passed inspection in 2004, those documents also attached as they are not present in Washington County files.

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 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
- Forms per local ordinance
- Other information (list): Tank Integrity Form, previous inspection

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Any “yes” answer above indicates the system is an imminent threat to public health and safety.

Comments/Explanation:

Rich has not had any issues with the system. No signs of ponding or leakage during site visit 9/13/2019.

Verification method(s):

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- “Black soil” above soil dispersal system
- System requires “emergency” pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Any “yes” answer above indicates the system is failing to protect groundwater.

Comments/Explanation:

Tank pumped 8/29/2019 by Smilies. See attached.

Verification method(s):

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for “black soil”
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

3. Other Compliance Conditions – Compliance component #3 of 5

- 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 conditions as determined by inspector. Yes* No
***System is failing to protect groundwater.**

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1986 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria:

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

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

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

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

“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) Yes No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

Conducted soil observation(s) (Attach boring logs)

Two previous verifications (Attach boring logs)

Not applicable (Holding tank(s), no drainfield)

Unable to verify (See Comments/Explanation)

Other (See Comments/Explanation)

Comments/Explanation:

Indicate depths or elevations

A. Bottom of distribution media	95.8'
B. Periodically saturated soil/bedrock	92.7'+
C. System separation	3.1'+
D. Required compliance separation*	2.0'

*May be reduced up to 15 percent if allowed by Local Ordinance.

Any “no” answer above indicates the system is failing to protect groundwater.

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable

Is the system operated under an Operating Permit? Yes No **If “yes”, A below is required**

Is the system required to employ a Nitrogen BMP? Yes No **If “yes”, B below is required**

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 and properly functioning? Yes No

Any “no” answer indicates Noncompliance.

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.

Logs of Soil Borings

Location of Project: 11120 Mayberry Trl Marine on St Croix, MN 55047

Borings Made by Ben Zierke

Date:

9/13/2019

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-----	-----
0-6"	10YR 3/3 loamy sand		
6-28"	10YR 4/3 loamy sand, 5% rock		
28-60"	10YR 4/4 fine sand, 5% rock		
60-88"	10YR 6/3 fine sand, fine 4/6 bands, 0% rock		

End of boring at 7.3 feet

Standing water table:

Present at feet of depth Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at feet

Standing water table:

Present at feet of depth Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at feet of depth

Mottled soil not present in bore hole

Comments:

Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0-----	-----	0-----	-----

End of boring at feet

Standing water table:

Present at feet of depth Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at feet

Standing water table:

Present at feet of depth Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at feet of depth

Mottled soil not present in bore hole

Comments:

Relative Elevations (in decimal feet)

B1: 100.0, redox 92.7'+

Bottom of rock: 95.8'

B1 Separation: 3.1'+

Benchmark: 100.4'
(cover on septic tank)

Height of instrument: 106.0



SECTION 13: Forms and Reference ■ 13-53

Parcel number: _____ System status: Compliant Noncompliant
(as determined by this form)

Tank Integrity and Safety Compliance - Compliance Inspection Form for Existing SSTS

Compliance Issue #2 of 4

Date of observation: 8/29/19 Reason for observation: Selling house

This form expires on (three years): _____

Compliance questions/criteria: (Required)
(Check the appropriate box)

Does the system consist of a seepage pit*, cesspool, drywell, or leaching pit?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Do any sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

If yes, identify which sewage tank leaks.

Any "yes" answer indicates that the system is failing to protect ground water.

* Seepage pits meeting 7080.2650 may be compliant if allowed in ordinance by local permitting authority.

Verification Method:** (Optional)
(Check the appropriate box)

- Probed tank bottom
- Observed low liquid level
- Examined construction records
- Examined empty (pumped) tank
- Probed outside tank for "black soil"
- Pressure/vacuum check
- 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.

Safety Check

1. Are maintenance hole covers damaged, cracked, or appeared to be structurally unsound? Yes* No
2. Were maintenance hole covers replaced in a secured manner (e.g., screws replaced)? Yes No*
3. Was secondary access restraint present (safety pan, second cover, or safety netting) - highly recommended. Yes No
4. Are other safety/health issue present? Yes* No

Explain: _____

*System is an imminent threat to public health and safety.

Certification

This form is to be completed and attached to the Summary Form of the Minnesota Pollution Control Agency's (MPCA) Compliance Inspection Form for Existing Subsurface Sewage Treatment Systems. Observations, interpretations, and conclusions must be completed by an inspector, maintainer, or service provider. Completed form must be submitted to the local unit of government within 15 days.

Property owner name(s): Rich Evans

Property address: 11120 Mayberry Trl, Marine, MN.

Property owner's address (if different): _____

County: Washington Property owner phone: _____

I hereby certify that I personally made the observations, interpretations, and conclusions reported on this form and that they are correct.

Name: Keith Valente Certification number: C6457

Business license name and number: Smile's Sewer Service L2428 or

Name of local unit of government: Washington County

Signature: [Signature] Date: 8/29/19

THOMAS R. BORCHARDT
6032 410th St., PO Box 484
North Branch, MN 55056
MPCA # 935
651-674-7974 Voice
651-674-5658 Fax

Point of Sale Sewer Inspection

Reference # 04-043 _____ Date: 7-19-04 _____
Owner: Donald & Constance Tommerdahl _____
Property Address: 11120 Mayberry Tr. Scandia, MN 55073 _____
Ordered By: same _____
Address: 24397 Olinda Tr. Scandia, MN 55073 _____

To Whom It May Concern:

An inspection of the above-described property was conducted on 7-19-04

The system's location, elevation and design is:

X In Compliance _____ In Noncompliance

with existing ordinances as adopted and enforced by Minnesota MPCA rules, Chapter 7080.

Certification of this system does not warrant any future use. Any System, old or new, can be hydraulically overloaded as a result of improper maintenance and/or heavy usage.

NOTES: Tank was opened, pumped and checked, tank is a precast concrete tank. Fluid levels in tank were normal. A boring was done: 0-84" 5/4 10yr sand and gravel.

Drainfield is 4 gravity trenches. 2 trenches are not yet being used.

Tank is Ok

Separation does exist. No backups found or indicated.

Please contact this office with any questions you may have about this matter. 651-674-7974

Sincerely,



Thomas R. Borchardt
Septic Inspector
MPCA # 935