

ZIERKE SOIL TESTING

Patricia Strot
23789 Inwood Ave N
Forest Lake, MN 55025

3/5/2020

Dear Patricia Strot,

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



Minnesota Pollution Control Agency

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:

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

System Status

System status on date (mm/dd/yyyy): 3/5/2020

[X] 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: 23789 Inwood Ave N Forest Lake, MN 55025 Reason for inspection: Sale

Property owner: Patricia Strot Owner's phone:

or

Owner's representative: Tonia Kurth Representative phone: 612-481-1730

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

Brief system description: Pre cast septic tank, pre cast lift station, drop box drainfield

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 Certification number: C9594

Business name: Zierke Soil Testing License number: L119

Inspector signature: [Signature] Phone number: 651-249-1346

Necessary or Locally Required Attachments

- [X] Soil boring logs [] System/As-built drawing [] Forms per local ordinance
[X] Other information (list): Previous Soil Verifications (2)

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.

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)

Comments/Explanation:

Patricia has not had any past issues with the system - no signs of leakage or ponding during site visit 2/26/2020.

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.

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)

Comments/Explanation:

Present for pumping 2/26/2020. Tanks and baffles in good condition.

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: 11/31/1990 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.

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

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:

See attached boring logs.

Indicate depths or elevations

| | |
|--|--|
| A. Bottom of distribution media | |
| B. Periodically saturated soil/bedrock | |
| C. System separation | |
| D. Required compliance separation* | |

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

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: _____ Yes No
Have the Operating Permit requirements been met?
- 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.

BORING LOG

| BORING 1 | BORING 2 |
|---|---|
| 0-7" DARK BROWN FINE SANDY LOAM | 0-6" DARK BROWN FINE SANDY LOAM |
| 7"-49" LIGHT BROWN FINE SANDY CLAY LOAM | 6"-33" BROWN FINE SANDY LOAM |
| 49"-8'0" LIGHT YELLOW BROWN FINE SANDY CLAY LOAM (VERY STIFF) | 33"-7'0" BROWN FINE SANDY CLAY LOAM (STIFF) |
| 8'0" END BORING | 7'0" END BORING |

BORING LOG

| BORING 3 | BORING 4 |
|---|---|
| 0-8" DARK BROWN FINE SANDY LOAM | 0-8" DARK BROWN FINE SANDY LOAM |
| 8"-36" BROWN FINE LOAMY SAND (CLAY FILM) | 8-46" LIGHT YELLOW BROWN FINE SANDY CLAY (STIFF) |
| 36"-53" LIGHT YELLOW BROWN FINE SANDY CLAY (STIFF) | 46"-60" BROWN FINE SANDY CLAY LOAM |
| 53"-7'0" BROWN FINE SANDY CLAY LOAM | 60"-8'0" LIGHT TAN FINE SANDY AND ROCKS |
| 7'0"-8'0" LIGHT YELLOW BROWN FINE SANDY CLAY IRON STAINS-SLIGHT MOTTLES (VERY STIFF) | 8'0" END BORING |
| 8'0" END BORING | |

TEST AREA #3

RECEIVED DEC 12 1989

APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

Application Fee - \$75.00
Permit Fee - \$75.00
Additional Reviews - \$25.00/hr. (1 hr. min.)

Note: Subject To
Officials Approval

Washington County Planning Dept.
14900 - 61st Street North
Stillwater, MN 55082

| | | | | |
|---|---|--------------------------------|---------------------------------------|--------------|
| 1 | Legal Description and Parcel Identification Number | Section 2 T30N R21W 81737-2250 | | |
| 2 | Applicant | Mailing Address | City | Zip Phone |
| 3 | Owner (if different from Applicant) | Mailing Address | City | Zip Phone |
| 4 | Use of Building: | NEW HOME | Number of Bedrooms or Gallons Per Day | |
| 5 | Type of Work: | New | Alteration | Repair |
| 6 | Has site previously been reviewed by Washington County? | X | No | TEST AREA #3 |

The following exhibits are required as part of this application and must be attached hereto: Percolation Test Logs; Soil Boring Logs; Site Plan drawn to scale showing proposed location of system and well; 2 C the drainfield areas must be staked. 1 psi

Agreement: The undersigned hereby agrees to extend sewage treatment system herein specified, agreeing that all such work shall be done in accordance with the ordinances and regulations of the County of Washington, Minnesota. Applicant agrees to provide access, at reasonable times, to the Building Official or his agent for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. Application is for an installation at a specific location; any deviation from the approved location will void the permit. It shall be the responsibility of the applicant for the permit to notify the Office of the Building Official that the installation is ready for inspection.

13 NOV 1989
Date

Signature of Applicant

FOR OFFICER USE ONLY:

Reviews: Planner: Inspector R. G. Gornel Date: 12-7-89

Site Evaluation:

Soil Boring Evaluation: Depth of Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock: from sandy clay loam - some white clay particles throughout

| Soils Map Data: | Percolation Test Evaluation: | | | |
|--|------------------------------|--------|------|------|
| | Required (circle) | Actual | | |
| Well (including adjacent property) | 50' | 75' | 100' | 150' |
| Wetland, Pond, Lake, Stream, River, or Bluffline | 20' | 40' | 75' | 100' |

Conclusions: Site Suitable: [X] Site Unsuitable: [] Additional Tests Required: [] Verify Use: []

NOTES:

NO mottling apparent until about 7'
Better material is shallower but use 53 mpt
would rolling over
2-670 slopes - dug boxes
Borings with Harry Wimmer