ZIERKE SOIL TESTING

Jill McDowell 16227 154th St N Marine on St Croix, MN 55047

5/16/2019

Dear Jill McDowell,

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 https://septic.umn.edu/septic-system-owners for more information.

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 approximate to the submit completed form to Local Unit of Government (LUG) and system | |
|--|--|
| within 15 days | |
| | |
| System Status | |
| System status on date (mm/dd/yyyy):5/16/2019 | |
| | e Upgrade Requirements on page 3.) |
| Reason(s) for noncompliance (check all applicable) | |
| ☐ Impact on Public Health (Compliance Component #1) – Imminel | nt threat to public health and safety |
| ☐ Other Compliance Conditions (Compliance Component #3) – Im | nminent threat to public health and safety |
| ☐ Tank Integrity (Compliance Component #2) – Failing to protect of | The state of the s |
| Other Compliance Conditions (Compliance Component #3) – Fa | |
| Soil Separation (Compliance Component #4) – Failing to protect | |
| Operating permit/monitoring plan requirements (Compliance Co | тропепт #5) — Noncompilant |
| | |
| Duan auto Information | |
| Property Information Parcel ID# or Sec | |
| Property address: 16227 154th St N Marine on St Croix, MN 55047 | Reason for inspection: Sale |
| Property owner:Jill McDowell | Owner's phone: 651-307-1829 |
| Owner's representative: | Representative phone: |
| Local regulatory authority: Washington County | Regulatory authority phone: 651-430-6655 |
| Brief system description: 1000 gallon pre-cast round septic tank, gravity | |
| Comments or recommendations: | ook trenon drammed |
| on resonantial di resonantial di constantial di constantia di constantial di cons | |
| | |
| | |
| | |
| 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 possible abuse of the system, inadequate maintenance, or future water usage | to 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 | Forms per local ordinance |
| Other information (list): | |
| | |
| www.nca.state.mn.us • 651-296-6300 • 800-657-3864 • TTY 651-2 | 82-5332 or 800-657-3864 • Available in alternative formats |

| 1. | lmp | act on Public Hea | lth – Co | ompliance com | ponent #1 | of 5 | | |
|--------|--|---|------------|---|--|--|---|--------|
| | | npliance criteria: | | | | rification metho | od(s): | |
| - | | em discharges sewage to | the | ☐ Yes ⊠ No | | Searched for surfa | N 1.53 | |
| | | nd surface. | | | | Searched for seep | oing in yard/backup in home | |
| | | em discharges sewage to or surface waters. | drain | ☐ Yes ⊠ No | | 100000000000000000000000000000000000000 | g in soil system/D-boxes nony (See Comments/Explanation) | |
| | | em causes sewage backulling or establishment. | up into | ☐ Yes ⊠ No | | "Black soil" above | soil dispersal system | |
| = | | y "yes" answer abo | vo india | eates the | (A | | emergency" pumping | |
| | | tem is an imminent | | | Monte de la constante de la co | ☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) | | |
| | | olth and safety. | | • | | . A 325 | t listed (See Comments/Explanation | 1) |
| - | Con | nments/Explanation: | | 111 | | | | • |
| | | , | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 2. | Tar | nk Integrity - Comp | liance d | component #2 | of 5 | | | |
| | Cor | npliance criteria: | | | Ve | rification metho | od(s): | |
| | | em consists of a seepage | pit, | ☐ Yes ⊠ No | | Probed tank(s) bo | ottom | |
| | | spool, drywell, or leaching | | | | Examined constru | action records | |
| | | page pits meeting 7080.2550 pliant if allowed in local ordin | | | _ 🛚 | | ntegrity Form (Attach) evel below operating depth | |
| | | rage tank(s) leak below th | eir | ☐ Yes ⊠ No | | • | (pumped) tanks(s) | |
| | | gned operating depth. | o alco: | | | The same same same | nk(s) for "black soil" | |
| | If yes, which sewage tank(s) leaks: Any "yes" answer above indicates the system is failing to protect groundwater. | | | Unable to verify (See Comments/Explanation) | | | | |
| | | | □ | Other methods not listed (See Comments/Explanation) | | | | |
| | | nments/Explanation: | | | | | | |
| | Tan | k pumped 5/14/2019 by P | inky's. Ba | iffles in place and | tank in good | condition. | | |
| | | | | | | | | |
| | | | | | | | | |
| 120 | PEN L | | | | | | | |
| 3. | Oth | ner Compliance Co | ndition | s – Compliance | component # | #3 of 5 | | |
| | a. | Maintenance hole covers | are dama | ged, cracked, unse | ecured, or app | ear to be structural | y unsound. 🗌 Yes* 🛭 No 🗎 Unk | nown |
| | 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. | | | | | nown | | |
| | | 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: | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 140404 | חרם פ | state mn.us • 651-296- | 6300 • | 800-657-3864 | • TTY 651-2 | 82-5332 or 800-657- | 3864 • Available in alternative fo | ormats |

Inspector initials/Date: BZ | 5/16/2019

(mm/dd/yyyy)

Property address: 16227 154th St N Marine on St Croix, MN 55047

| | | | | (mm/dd/yyyy) | |
|---|---------------------------------------|---|---|-----------------------|--|
| 4. Soil Separation - Compliance | component #4 of 5 | | | | |
| Date of installation: 11/17/1988 | Unknown | Verification method | d(s): | A Constant | |
| (mm/dd/yyyy) | | | 5. 15 | vulaua aail | |
| Shoreland/Wellhead protection/Food beverage lodging? | Yes No | Soil observation does observations by two in unless site conditions | dependent par | rties are sufficient, | |
| Compliance criteria: | | requirements differ. | | | |
| For systems built prior to April 1, 1996, and | ⊠ Yes □ No | ☐ Conducted soil observation(s) (Attach boring logs) | | | |
| not located in Shoreland or Wellhead Protection Area or not serving a food, | | ☐ Two previous verifi | Two previous verifications (Attach boring logs) | | |
| beverage or lodging establishment: | | ☐ Not applicable (Hold | | | |
| Drainfield has at least a two-foot vertical | | Unable to verify (Se | | (planation) | |
| separation distance from periodically saturated soil or bedrock. | | Other (See Commen | ts/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/Explanati | on: | | |
| 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 II or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector | / | A. Bottom of distribution | media | 96.6' | |
| License required) | | B. Periodically saturated | soil/bedrock | 94.5' | |
| Drainfield meets the designed vertical separation distance from periodically | | C. System separation | | 2.1' | |
| saturated soil or bedrock. | | D. Required compliance | separation* | 2.0' | |
| Any "no" answer above indicates the system is failing to protect groundwater. *May be reduced up to 15 percent if allowed by Local Ordinance. Ordinance. *Doperating Permit and Nitrogen BMP* — Compliance component #5 of 5 Not applicable | | | | | |
| | · · · · · · · · · · · · · · · · · · · | s ☐ No If "yes", A b | | | |
| Is the system operated under an Operati | | 10 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 | - | | |
| Is the system required to employ a Nitrogen BMP? | | | | | |
| 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 require | ments been met? | ☐ Yes ☐ No |) | | |
| b. Is the required nitrogen BMP in pla | ce and properly function | ing? ☐ Yes ☐ No | o | | |
| 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, 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. | | | | | |

Inspector initials/Date: BZ | 5/16/2019

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Logs of Soil Borings

Location of Project:

16227 154th St N Marine on St Croix, MN 55047

Borings Made by Ben Zierke

Date:

5/14/2019

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

| 12-20" 20-66" | Boring Number 1 7.5YR 3/3 loamy sand 7.5YR 4/3 loamy sand 7.5YR 4/4 medium sand, redox present at 66" 7.5YR 4/3 silt loam | Depth, in Inches 0 | Boring Number 2 |
|---|---|---|--|
| End of boring at Standing water table Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments: Depth, in Inches O | feet of depth resent in hole | End of boring at Standing water table Present at Standing water not pr Mottled Soil: Observed at Mottled soil not prese Comments: Depth, in Inches O | feet of depth Hours after boring resent 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 oresent 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 Flours after boring feet of depth feet of depth |