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.

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): 5/21/18

☒ **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: 932 NW 2nd St Forest Lake, MN 55025
Reason for inspection: Sale
Property owner: Linda Murray
Owner's phone: 651-439-5210
or
Owner's representative: Allison Donnelly
Representative phone:
Local regulatory authority: Washington County
Regulatory authority phone: 651-430-6000
Brief system description: 1500 gallon septic tank, 1000 gallon lift station, mound dispersal system

Comments or recommendations:

This is the mound system located at Kinder Kare. The lift station cover is up to grade in the play yard and was secure during my visit. This cover should be checked regularly by the owner to ensure that it is secure.

Mound is situated up/down a slope of about 2.5-3.0%. This skews elevations shot on site to the positive on the downslope and negative on the upslope. A boring performed on top of the mound showed 18 inches of sand under the rock, and both borings had redox between 18-20 inches. Despite slope alignment, system has required vertical separation.

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: 9594
Business name: Zierke Soil Testing
License number: 119
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):

Property address: 932 NW 2nd St Forest Lake, MN 55025 Inspector initials/Date: BZ | 5/21/18 (mm/dd/yyyy)

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

Compliance criteria:	
System discharges sewage to the ground surface.	☐ Yes ☒ No
System discharges sewage to drain tile or surface waters.	☐ Yes ☒ No
System causes sewage backup into dwelling or establishment.	☐ Yes ☒ 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:

Linda/Allison did not report any issues with the system.

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit. *Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.*	☐ Yes ☒ No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	☐ Yes ☒ 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:

Tanks pumped 9/1/2016 by A&B Sanitation. Outlet baffle on tank was replaced and new cover installed.

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:

Property address: 932 NW 2nd St Forest Lake, MN 55025 Inspector initials/Date: BZ | 5/21/14 (mm/dd/yyyy)

4. Soil Separation – Compliance component #4 of 5

Date of installation: 9/10/1992 (mm/dd/yyyy) ☐ Unknown

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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☒ Yes ☐ No
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: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☐ Yes ☐ No
"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) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No

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:

Indicate depths or elevations

A. Bottom of distribution media	102.2
B. Periodically saturated soil/bedrock	98.5
C. System separation	3.7
D. Required compliance separation*	2.0

*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: _____ 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: 932 NW 2nd St Forest Lake, MN 55025
Borings Made by Ben Zierke Date: 8/25/2016
Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches	Boring Number 1
0----------	----------
0-14"	10YR 3/2 sandy loam
14-18"	10YR 4/3 loamy sand
18-24"	10YR 5/4 loamy sand, redox at 18"

End of boring at 2 feet
Standing water table:
Present at feet of depth Hours after boring
Standing water not present in hole [X]
Mottled Soil:
Observed at 1.5 feet of depth
Mottled soil not present in bore hole [ ]
Comments:

Depth, in Inches	Boring Number 2
0----------	----------
0-12"	10YR 3/2 sandy loam
12-18"	10YR 4/3 loamy sand
18-22"	10YR 5/4 loamy sand, redox starting at 20"
22-28"	10YR 5/4 clay loam, redox present in profile

End of boring at 2.3 feet
Standing water table:
Present at feet of depth Hours after boring
Standing water not present in hole [X]
Mottled Soil:
Observed at 1.6 feet of depth
Mottled soil not present in bore hole [ ]
Comments:

Depth, in Inches	Boring Number 3
0----------	----------
0-10"	Topsoil fill
10-28"	Mound sand
28-38"	10YR 3/2 sandy loam
38-42"	10YR 4/3 loamy sand redox present due to influence of mound

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 4
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:


Relative Elevations
B1: 100.0, 98.5
B2: 101.7, redox 100.1
Top of rock: 103.2
Bottom of rock: 102.2
B1 Separation: 3.7
B2 Separation: 2.1
Benchmark: 99.0
(manhole cover on lift)
Tanks
B1
Mound System
B3
B2
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1991
45°17'23.02" N 92°59'10.99" W elev 905 ft eye alt 1143 ft