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): 8/28/2018

☒ **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: 10956 Mayberry Trail N Marine on St Croix 55047
Reason for inspection: Sale

Property owner:
Owner's phone:

or

Owner's representative: Troy Allison
Representative phone: 651-230-7639

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

Brief system description: 1500 gallon two compartment pre cast septic tank, gravity rock trench drainfield

Comments or recommendations:

Drainfield sized for two bedrooms. Inlet baffle on the 2nd compartment in the septic tank is missing, recommend getting this replaced.

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): Pumping Report

Property address: 10956 Mayberry Trail N Marine on St Croix 55047 Inspector initials/Date: | 8/28/2018 (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.

Comments/Explanation:

House vacant - no visible signs of past issues.

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. *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.

Comments/Explanation:

See attached pumping report.

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:

Property address: 10956 Mayberry Trail N Marine on St Croix 55047 Inspector initials/Date: BZ | 8/28/2018 (mm/dd/yyyy)

4. Soil Separation – Compliance component #4 of 5

Date of installation: 12/5/2000 (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 (A*ttach 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	97.4'
B. Periodically saturated soil/bedrock	94.0'
C. System separation	3.4'
D. Required compliance separation*	3.0'

*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: 10956 mayberry trl n marine on st croix 55047

Borings Made by Ben Zierke Date: 7/12/2018

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

Depth, in Inches	Boring Number 1
0----------	----------
0-10"	7.5YR 3/3 loamy sand
10-20"	7.5YR 4/4 sandy loam
32-72	7.5YR 5/4 loamy sand

End of boring at 6 feet

Standing water table:

Present at feet of depth Hours after boring

Standing water not present in hole [X]

Mottled Soil:

Observed at feet of depth

Mottled soil not present in bore hole [X]

Comments:

Depth, in Inches	Boring Number 2
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:

Depth, in Inches	Boring Number 3
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:

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

End of boring at feet

Standing water table:

Present at feet of depth Hours after boring

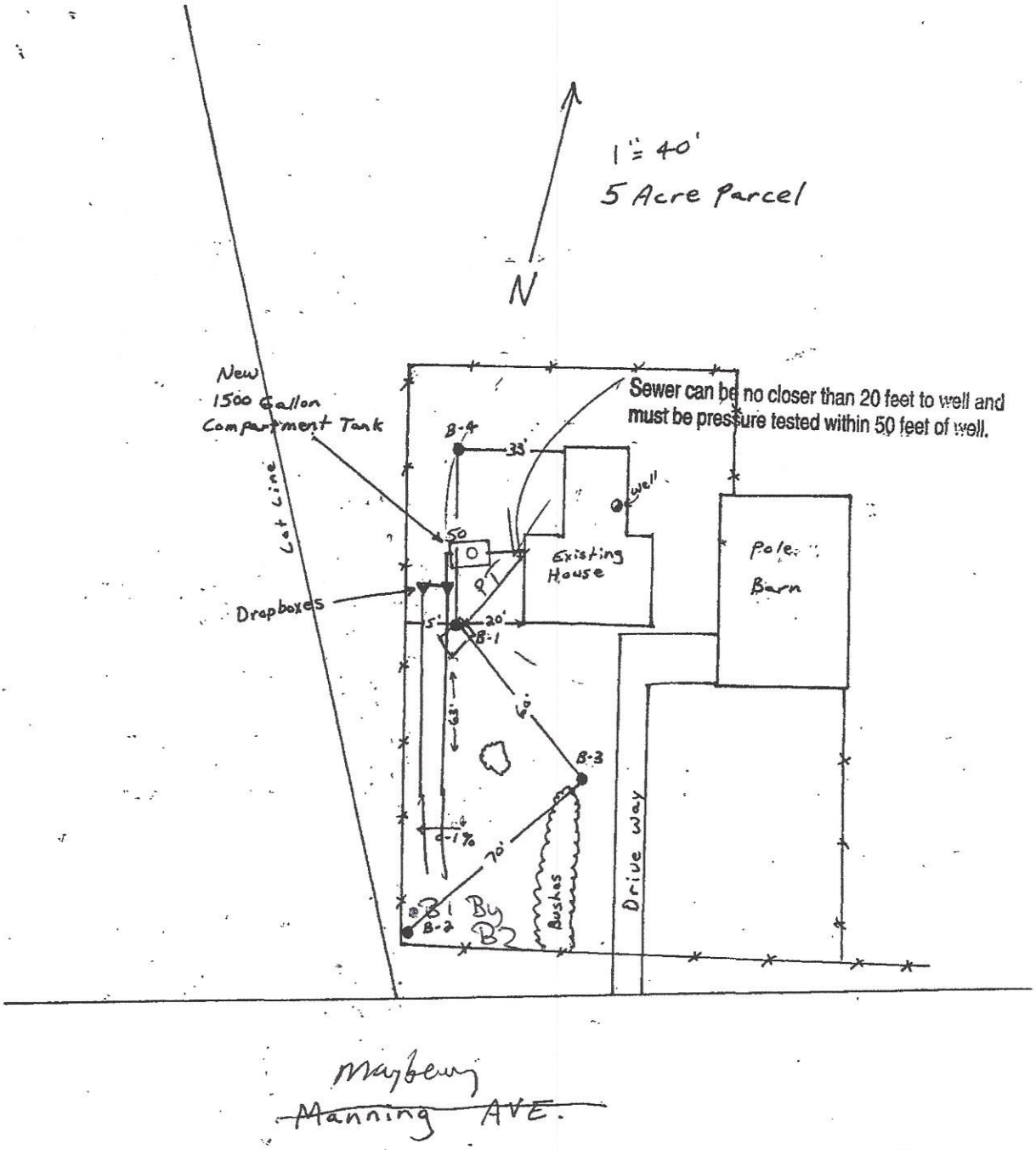
Standing water not present in hole [ ]

Mottled Soil:

Observed at feet of depth

Mottled soil not present in bore hole [ ]

Comments:



Relative Elevations by Ben Zierke.

B1: 100.0, rebar 94.0'+

Top of rock: 98.9'

Bottom of rock 97.4'

B1 separation 3.4'+

Benchmark: 99.9', top of tank

Service Order

Service Order #: 87507

Olson's Sewer Service, Inc. 17638 Lyons Street N.E. Forest Lake, MN 55025 651-464-2082

Date: 8/24/2018 **Preferred Time:** **Road Restrictions (Tons)** **IMPORTANT NOTE**

Addr: 10956 Mayberry Trail

Name: Casey & Kyle Kieger **C1:** (651) 329-9246 Cathy Kieger

City: Marine, MN 55047

Cty: Washington

Twp: New Scandia

Sent as built, they will dig open the manhole covers. Send all info to Ben Zierke. Credit card on file.

Driving Dir	
Tank Type	Pre-cast
Treatment Type	Dropbox Distribution
Treatment Area	380Sq Ft
Dist to Tank 1	100 Ft
Dist to Lift Tank	

	PreT	T1	T1C	T2	T3	LS
Sizes:		1000	500			
Depth to MH:		18" I	18" O			
Riser Feet:						
LS Outlet to Bottom:						

Water Meter	
Effluent Filter	
Two Techs	
City Sewer	N
Install Date	12/5/2000
Installer	Roger Lindell
As Built	W - 1059
Cleanout	Superior Concrete compartment tank
Lift Pump	

Power Disconnect at Lift	
Looped	
# Bedrooms	
Pump Breaker	

Baseline Equal Dist Hgt			
1		4	
2		5	
3		6	

	PreT	T1	T1C	T2	T3	LS
Covers Secure:		Y	Y			
Infiltration ↑ OL:		N	N			
Infiltration ↓ OL:		N	N			
Scum Depth:		2	1			
Sludge Depth:		20	10			
Inlet Baffle Intact:		Y	Y			
Outlet Baffle Intact:		Y	Y			
Pump Function:						
Alarm Function:						
Filter Alarm Function:						

	Service Type	Last Service Date	Mobilize Time	At Site Time	Complete Time	Disposal Time	Leave Disposal Time
1	Dig Open						
2	Maintenance Pumping	10/27/2010	8:55 AM	9:00 AM	9:35 AM		
3	LUG Permit						
4	Compliance Inspection						

Time Dosing		Iron Filter		S&E Quality		Eq Dist Hgt 1	
Lint Filter		Sump Pump		PH Reading		2	
Switch Tree		Ejector Pump		Non Dom Wastes		3	
Event Counter		Mgmt Plan				4	
Garbage Disp.		Monitoring		TA Visual Insp		5	
Water Softener		Irrigation				6	

	Readings	Previous	Functioning
Event/Cycle Ctr			
Elapsed Time			
Time Dosing			
Water Meter			