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

Instructions: 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): 8/21/2020

☒ **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: 0711723220012

Property address: 900 North Shore Drive W., Orono, MN
Reason for inspection: Property Transfer
Property owner: Patricia Pratt
Owner's phone: 612-803-9445
or
Owner's representative:
Representative phone:
Local regulatory authority: City of Orono
Regulatory authority phone: 952-249-4600
Brief system description: 2-1300 gallon septic tanks,1-1300 gallon lift station and 500 square feet of mound rockbed.
Comments or recommendations:
TBM: Top of the basement door threshold. There is 2.0 feet of sand under the rock bed.
The septic tanks are starting to corrode. See the tank report.

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: Joseph J Olson
Certification number: 1255
Business name: Rusty Olson's Soil & Perc. Testing
License number: 810
Inspector signature:
Phone number: 763-498-8779

Necessary or Locally Required Attachments

☒ Soil boring logs ☒ System/As-built drawing ☐ Forms per local ordinance
☐ Other information (list):

Property address: 900 North Shore Drive W., Orono, MN Inspector initials/Date: J. O. 8/21/2020

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

Compliance criteria:	
System discharge sewage to the ground surface.	☐ Yes ☒ No
System discharge sewage to drain tile or surface waters.	☐ Yes ☒ No
System cause 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:

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.	☐ Yes ☒ No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:

Elmer J. Peterson pumped the tanks. See 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 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: 900 North Shore Drive W., Orono, MN Inspector initials/Date: J. O. 8/21/2020

4. Soil Separation – Compliance component #4 of 5

Date of installation: 11/05/1996 ☐ 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 of elevations

A. Bottom of distribution media	94.7
B. Periodically saturated soil/bedrock	92.0
C. System separation	2.7
D. Required compliance separation*	2.55

*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.*

Tank Report

Date: August 12, 2020

Elmer J. Peterson Co.
5921 Dague Ave.
Delano, MN 55328
Phone 763-972-2420
Fax 763-972-7217
MPCA License# 219

Pat Pratt
900 North Shore Drive W
Orono, MN 55364

Baffles: (ON) / OFF

Tank Capacity: 3-1300 Gallon Tanks

# of Tanks: 3

Type of Tanks: Concrete

Gallons Pumped: 3000

Manholes to Grade: (YES) / NO

Comments:

On August 12, 2020, Elmer J. Peterson Co. pumped tanks. Tanks are starting to corrode by the inlet and outlet pipes. No cracks or water leaking in tanks at the time of pumping.

NOTE: This is only a tank report. This is not a compliance inspection for point of sale nor does it replace a compliance inspection.

Property address: 900 North Shore Drive W. Inspector initials/Date: 8/12/2020

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

Compliance criteria:

System discharge sewage to the ground surface.	☐ Yes ☐ No
System discharge sewage to drain tile or surface waters.	☐ Yes ☐ No
System cause 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:

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.	☐ Yes ☒ No
If yes, which sewage tank(s) leaks:	

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:

On 8/12/2020, Elmer J. Peterson Co. pumped tanks. Some corrosion starting around inlet and outlet pipes.

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

a. Maintenance hole covers are damaged, cracked, unsecured, or appear to 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:

Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information

Property Owner / project: Patricia Pratt Date 8/20/2020

Property Address / PID: 900 North Shore Drive W

Soil Survey Information

☐ refer to attached soil survey

Parent matl's: ☑ Till ☐ Outwash ☐ Lacustrine ☐ Alluvium ☐ Organic ☐ Bedrock

landscape position: ☐ Summit ☐ Shoulder ☑ Side slope ☐ Toe slope

soil survey map units: L40B slope _____ % direction- Lineal

Soil Log #1

☑ Boring ☐ Pit Elevation 92.5 Depth to SHWT 24 Inches

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-10	Fill	<35			Loose	Loose	Single grain
10-20	Topsoil	<35	10yr3/1		Friable	Moderate	Blocky
20-24	Loam	<35	10yr4/3		Friable	Strong	Blocky
24-30	Clay Loam	<35	10yr5/3	10y4/8,1-6/10y	Firm	Strong	Blocky
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

Comments:

900 North Shore Drive W — Soil Log #2

☑ Boring ☐ Pit Elevation 91.5 Depth to SHWT 12 Inches

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-12	Topsoil	<35	10yr3/1		Friable	Moderate	Blocky
12-18	Topsoil	<35	10yr3/2	10y4/8	Friable	Moderate	Blocky
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

900 North Shore Drive W — Soil Log #3

☑ Boring ☐ Pit Elevation ______ Depth to SHWT ______

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

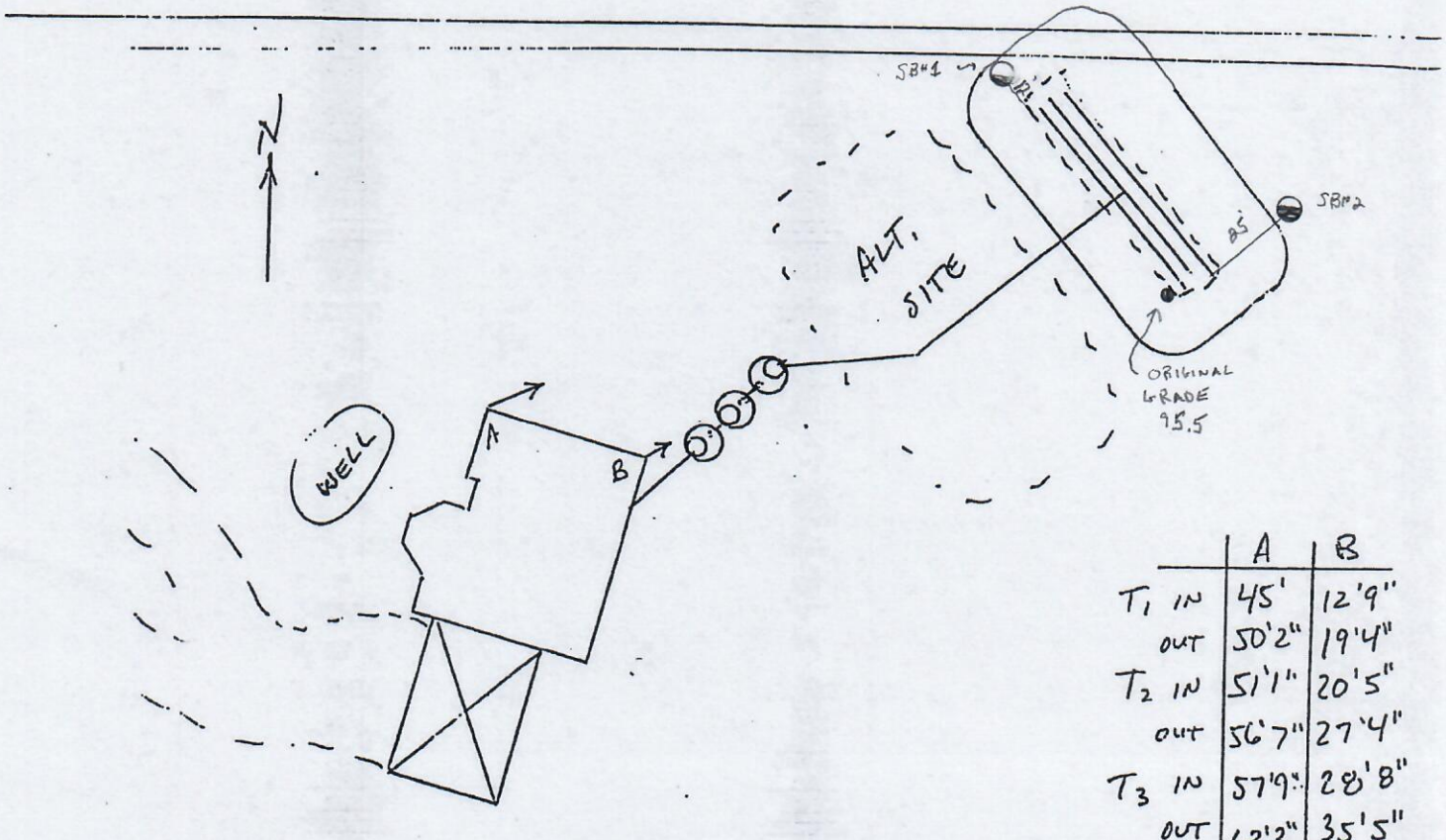
I hereby certify this work was completed in accordance with MN 7080 and any local req's.

Designer Signature

Rusty Olson's Soil & Perc
Company

810
License #

900 North Shore Dr. W.



	A	B
T_1 IN	45'	12'9"
OUT	50'2"	19'4"
T_2 IN	51'1"	20'5"
OUT	56'7"	27'4"
T_3 IN	57'9"	28'8"
OUT	63'3"	35'5"

Future Site