Mailing Address
P.O. Box 66
Crystal Bay, MN 55323

Street Address
2750 Kelly Parkway
Orono, MN 55356

Phone: 952-249-4600 Fax: 952-249-4616
Website: www.ci.orono.mn.us

Certificate of Compliance Inspection Form

New Subsurface Sewage Treatment Systems (SSTS)

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms System status on date 11/20/2019:

☒ **Compliant – Certificate of Compliance**
Valid for 3 years from report date

☐ **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: 2080 Salem Court
Reason for inspection: New installation of mound
Property owner:
Owner's phone:

or

Owner's representative: Kevin Barthel
Representative phone: 612-919-0112
Local regulatory authority: City of Orono
Regulatory authority phone: 952-249-4600
Brief system description: Type III Mound sized for a 4 bedroom home

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: Roger Peitso
Certification number: C6683
Business name:
License number:
Inspector signature: Roger Peitso
Phone number: 952-249-4625

Necessary or Locally Required Attachments

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

Property address: 2080 Salem Court Inspector initials/Date: RLP 11/20/2019 *(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: New installation of mound

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: Inspected installation of new tank, existing tanks inspected by pumping contractor

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: 2080 Salem Court Inspector initials/Date: RLP | 11/20/2019 *(mm/dd/yyyy)*

4. Soil Separation – Compliance component #4 of 5

Date of installation: 11/20/2019 *(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:

Benchmark 100' Top of manhole cover Tank 2

Indicate depths or elevations

A. Bottom of distribution media	104.4
B. Periodically saturated soil/bedrock	101.4
C. System separation	3
D. Required compliance separation*	3

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. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within three years of receipt of this notice. 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. 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.*

City of Orono Septic Asbuilt Form

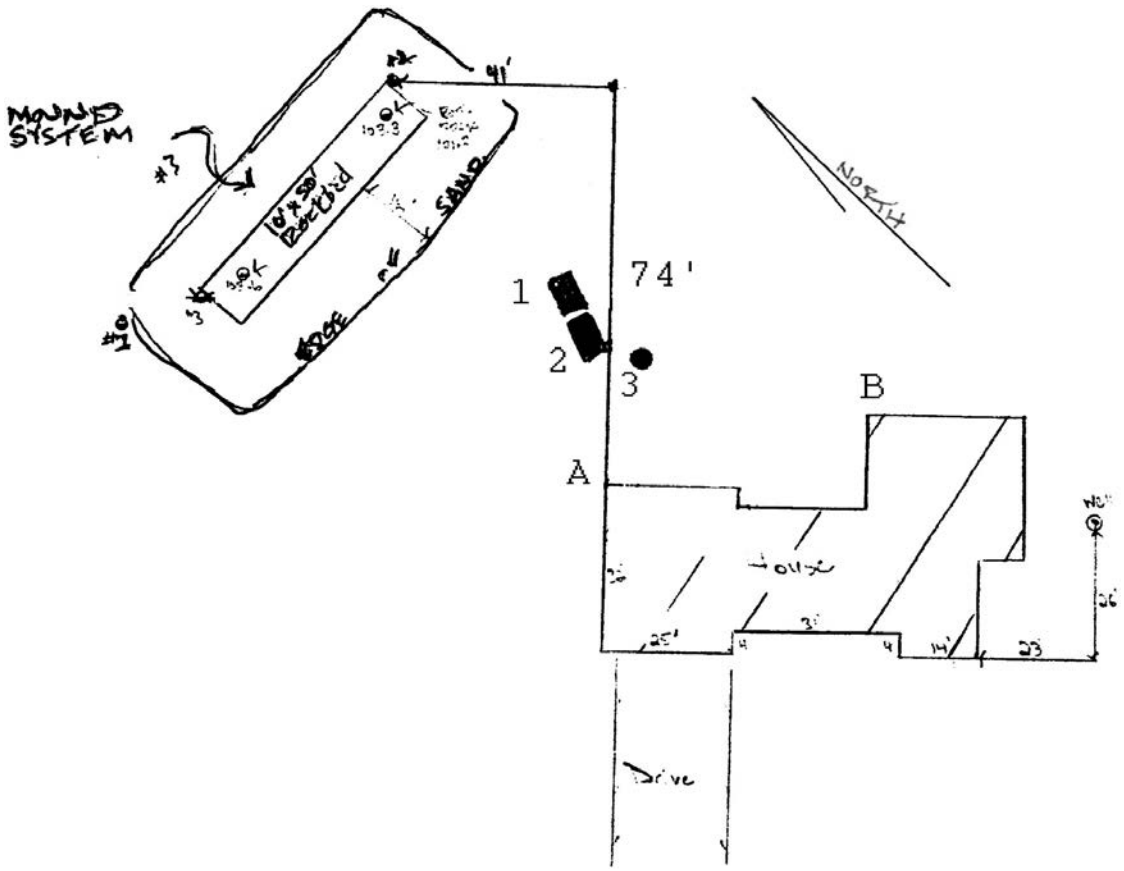
Address: 2080 Salem Court | Building Use: SFD

Installer: Patnode Brothers Inc. | License # L38 | Date: 10/1/2019

Septic Tanks: | Pump Tank: 1-1250 | Date Finaled: 11-20-19 | Bedrooms # 5

System Type: [X] I [ ] II [ ] III [ ] Mound [X] Trenches [ ] Pressure Bed [ ] Other

Draw detailed diagram with measurements indicating distances to tank Risers. Use two(2) points from a permanent structure. Show locations of drop Boxes and length of trenches



	A	B
1	31'	71'
2	25'	59'
3	25'	55'
4		
5		
6		
7		
8		
9		
10		
11		
12		

MARY FRANCIS [illegible]
2040 SALEM COURT
[illegible]

SCALE: 1" = 30'
Steven B. Schein — 9-12-19

XBM: 100.0 Top S [illegible]
[illegible] Tank

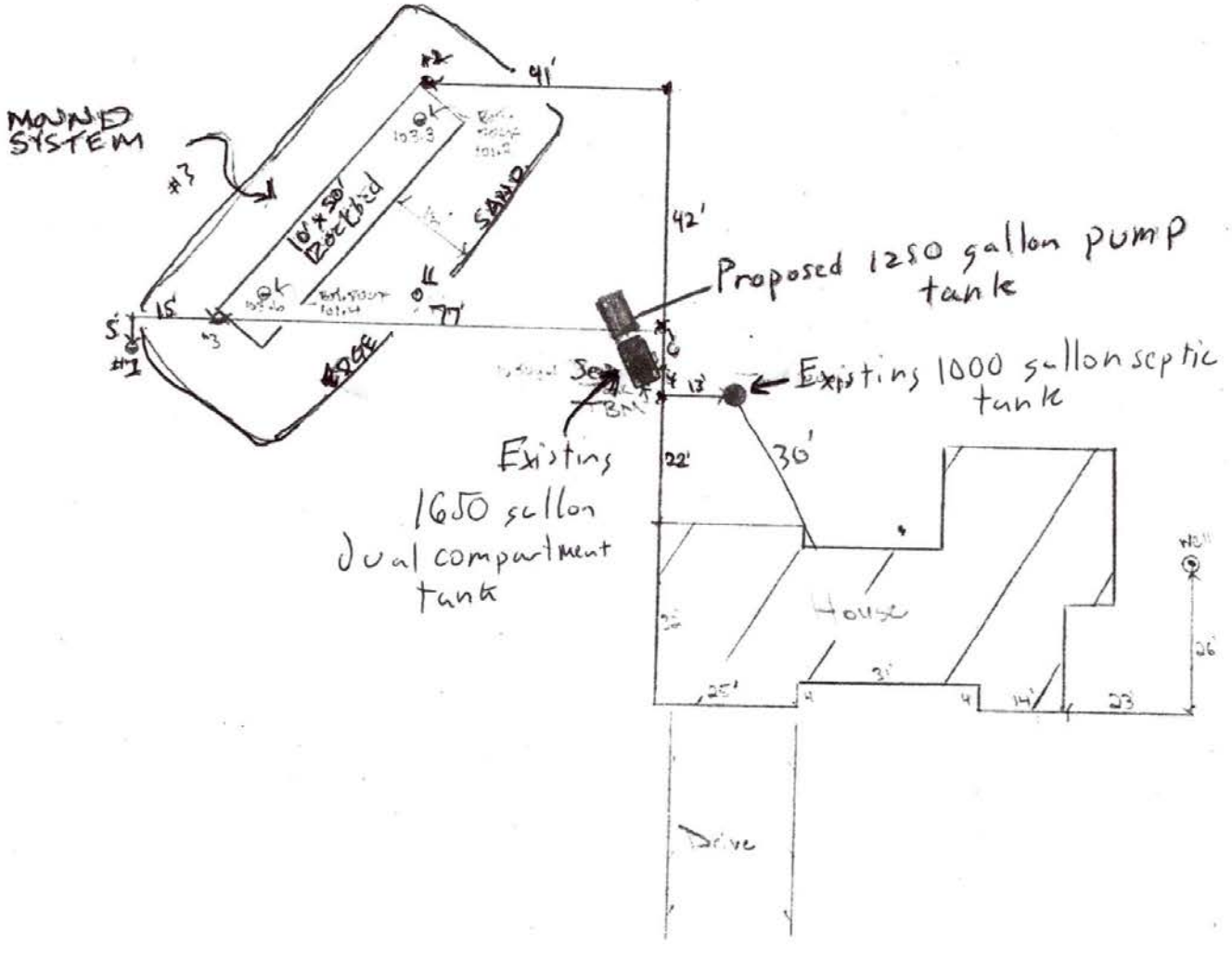
ELEVATION

SB #1 -101.2 MOT. SOIL REDOX. F 1.2'
SB #3 ORIG. SOIL 100.6 MOT.
[illegible] ROCK 101.4 LEAVING
.8' SAND AND A 2.0' SEPARATION

SB #2 - 103.0 MOT. SOIL F 1.2' ORIG. SOIL
ORIG. SOIL 100.2 AND VAR. ROCK
AT 101.2 LEAVING 1.0' SAND
AND A 2.2' SEPARATION

NORTH

Existing Mound to be upgraded to 3' sand lift



Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information

Property Owner / project: Laura Hirschberg Date 10/2/2019

Property Address / PID: 2080 Salem Ct.

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: L37B / L45A slope 5 % direction- downhill

Soil Log #1

☑ Boring ☐ Pit Elevation _____ Depth to SHWT 0"

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-14	loam	<35	10YR3/2	5YR5/8 in topsoil	Friable	Weak	Blocky
14-18	loam	<35	10YR3/2	5YR5/8	Friable	Weak	Blocky
18-36	clay loam	<35	10YR3/2	5yR5/8,10YR6/2	Friable	Weak	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

Comments:

2080 Salem Ct.

Soil Log #2

☑ Boring ☐ Pit Elevation _____ Depth to SHWT 0"

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-19	Loam	<35	10YR3/2	5YR5/8 in topsoil	Friable	Weak	Blocky
19-30	clay loam	<35	10YR3/2	5yR5/8,10YR6/2	Friable	Weak	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

2080 Salem Ct.

Soil Log #3

☑ Boring ☐ Pit Elevation _____ Depth to SHWT 0"

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-16	loam	<35	10YR3/2	5YR5/8 in topsoil	Friable	Weak	Blocky
16-24	clay loam	<35	10YR3/2	5YR5/8,10YR6/2	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

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

Designer Signature

Ende Septic Service
Company

L2654
License #