



**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](http://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 07/10/2019:

☒ **Compliant – Certificate of Compliance**

Valid for 5 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: 2300 Fox Street

Reason for inspection: New instalation

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: **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:

Phone number: 952-249-4625

### Necessary or Locally Required Attachments

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

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

System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any “yes” answer above indicates the system is an imminent threat to public health and safety.**

**Comments/Explanation:** Installation of new Type IV system

**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. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any “yes” answer above indicates the system is failing to protect groundwater.**

**Comments/Explanation:** Inspected installation of new tanks

**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: 2300 Fox StreetInspector initials/Date: RLP | 07/10/2019  
(mm/dd/yyyy)**4. Soil Separation – Compliance component #4 of 5**Date of installation: 07/10/2019  
(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 (Attach boring logs)☐ Not applicable (Holding tank(s), no drainfield)☐ Unable to verify (See Comments/Explanation)☐ Other (See Comments/Explanation)**Comments/Explanation:**

Benchmark 100' Garage floor

**Indicate depths or elevations**

A. Bottom of distribution media	104.5
B. Periodically saturated soil/bedrock	103.0
C. System separation	1.5
D. Required compliance separation*	1.5

\*1.5 feet credit for type A treatment with approved technology from 3 foot requirement.

**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: SE19-000006

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.

# Soil Observation Log

www.SepticResource.com vers 12.4

## Owner Information

Property Owner / project: Ed Cunningham

Date 11/18/2017

Property Address / PID: 2300 Fox St., Orono

## Soil Survey Information

☐ refer to attached soil survey

Parent mat'l's: ☒ Till ☐ Outwash ☐ Lacustrine ☐ Alluvium ☐ Organic ☐ Bedrock

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

soil survey map units: HcC2 slope \_\_\_\_\_ % direction- \_\_\_\_\_

## Soil Log #1

☒ Boring

☐ Pit

Elevation 104.3

Depth to SHWT 16"

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	loam		10YR 3/3		Friable	Weak	Granular
6 - 16	clay loam		10YR 4/3		Firm	Moderate	Prismatic
16 - 40	clay loam		10YR5/4-10YR6/3	10YR 6/8,10YR 7/1	Firm	Moderate	Prismatic
40 - 54	loam to sandy loam		10YR 6/3	10YR 6/8, 10YR 7/1	Friable	Weak	Prismatic
54 - 78	loam		10YR 6/4	10YR 6/8, 10YR 7/1	Friable	Moderate	Prismatic

Comments:

2300 Fox St., Orono

## Soil Log #2

<input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit    Elevation <u>103.2</u> Depth to SHWT <u>26"</u>							
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 12	loam		10YR 3/2		Friable	Weak	Granular
12 - 26	clay loam		10YR 4/3		Firm	Moderate	Prismatic
26 - 48	clay loam		10YR 5/3	10YR 6/8, 10YR 7/1	Firm	Moderate	Prismatic
48 - 60	sandy loam		10YR 6/3	10YR 6/8, 10YR 7/1	Friable	Weak	Granular
60 - 78	sandy loam		10YR 6/4	10YR 6/8, 10YR 7/1	Friable	Weak	Granular

2300 Fox St., Orono

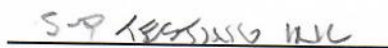
## Soil Log #3

<input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit    Elevation <u>104.9</u> Depth to SHWT <u>24"</u>							
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	loam		10YR 3/2		Firm	Weak	Granular
6 - 24	clay loam		10YR 4/3		Friable	Moderate	Prismatic
24 - 48 42	CLAY loam		10YR 6/3	10YR 6/8, 10YR 7/1	Firm	Moderate	Prismatic
48 - 72 42	CLAY loam		10YR 6/4		Friable	Weak	Prismatic

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



Designer Signature



Company

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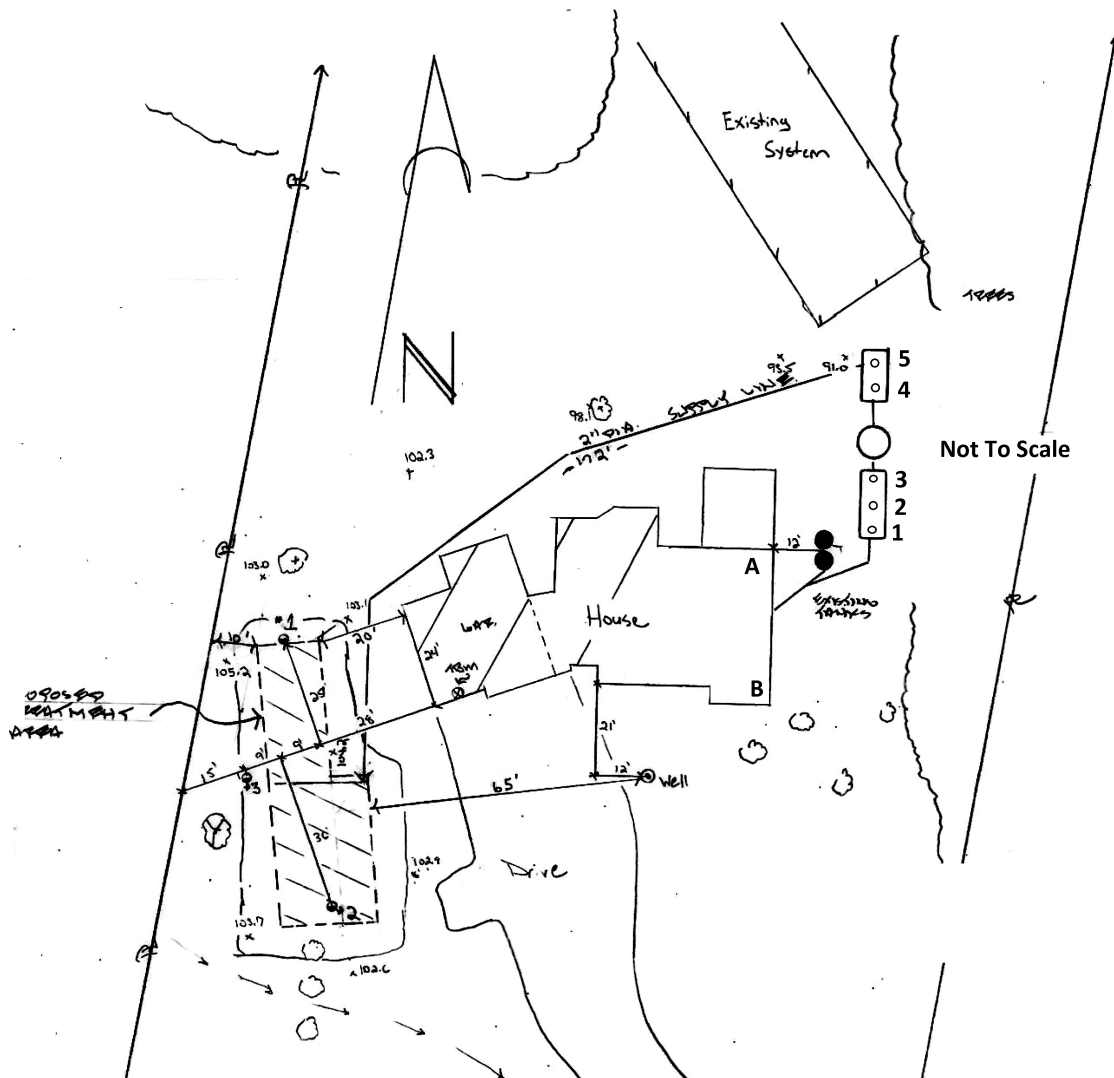
License #



# City of Orono Septic Asbuilt Form

Address: 2300 Fox Street Building Use: \_\_\_\_\_  
Installer: Patnode Brothers License # L3843 Date: 6/19/2019  
Septic Tanks: 1-2000 1-750 Multiflo Pump Tank: 1-1600 Date Finaled: 07/10/2019 Bedrooms # 5  
System Type: ☐ I ☐ II ☐ III ☐ Mound ☐ Trenches ☐ Pressure Bed ☒ Other \_\_\_\_\_ Type IV

**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	15'	31'
2	16'	35'
3	19'	41'
4	30'	66
5	44'	71
6		
7		
8		
9		
10		
11		
12		