

# ZIERKE SOIL TESTING

Brooke Throngard  
14003 202<sup>nd</sup> St N  
Marine on St Croix, MN 55047

2/20/2024

Dear Brooke Throngard,

At your request, I have conducted a septic inspection to determine the compliance status of your septic system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your septic system is compliant. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. A copy of this report will be filed with your local unit of government for their records.

Sincerely,

*Benjamin Zierke*

Benjamin Zierke  
MPCA Lic 119, Cert 9594

ADDRESS:  
28587 Jeffrey Ave  
Chisago City, MN 55013

PHONE 651-249-1346  
EMAIL benzierke@gmail.com

# Compliance inspection report form

## Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

**Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance.** Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at <https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>.

### Property information

Local tracking number: \_\_\_\_\_

Parcel ID# or Sec/Twp/Range: 2203220430009 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 14003 202<sup>nd</sup> St N Marine on St Croix, MN 55047

Owner/representative: Brooke Throngard Owner's phone: 715-554-1845

Brief system description: 1500 gallon septic tank, 1000 gallon septic tank, 1000 gallon lift tank, drop box rock trench drainfield

### System status

System status on date (mm/dd/yyyy): 2/20/2024

**Compliant – Certificate of compliance\***

*(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)*

**\*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.**

**Noncompliant – Notice of noncompliance**

*Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.*

*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 or under section 145A.04 subdivision 8.*

#### Reason(s) for noncompliance (check all applicable)

- Impact on public health (Compliance component #1) – *Imminent threat to public health and safety*
- Tank integrity (Compliance component #2) – *Failing to protect groundwater*
- Other Compliance Conditions (Compliance component #3) – *Imminent threat to public health and safety*
- Other Compliance Conditions (Compliance component #3) – *Failing to protect groundwater*
- System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – *Failing to protect groundwater*
- Soil separation (Compliance component #5) – *Failing to protect groundwater*
- Operating permit/monitoring plan requirements (Compliance component #4) – *Noncompliant - local ordinance applies*

#### Comments or recommendations

Inspection performed in winter conditions - ground above all trenches was frozen except for the first trench. No leakage or surfacing of effluent observed during site visit. Spoke with seller and she reported no past issues with the septic system.

### 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.*

**By typing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.**

Business name: Zierke Soil Testing Certification number: 9594

Inspector signature: Benjamin Zierke License number: 119

*(This document has been electronically signed)*

Phone: 651-249-1346

### Necessary or locally required supporting documentation (must be attached)

- Soil observation logs
- System/As-Built
- Locally required forms
- Tank Integrity Assessment
- Operating Permit
- Other information (list): Previous Inspection, Soil Boring Logs

## 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.**

### Describe verification methods and results:

None of the above observed.

### Attached supporting documentation:

Other: \_\_\_\_\_

Not applicable

## 2. Tank integrity – Compliance component #2 of 5

### Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
--	--

Sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
---	--

If yes, which sewage tank(s) leaks:	
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**Any "yes" answer above indicates the system is failing to protect groundwater.**

### Describe verification methods and results:

Present for pumping by Smilies Sewer. Tanks watertight and baffles in place.

### Attached supporting documentation:

Empty tank(s) viewed by inspector

Name of maintenance business: Smilies

License number of maintenance business: 2428

Date of maintenance: 2/20/2024

Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): \_\_\_\_\_ (must be within three years)

(See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))

Tank is Noncompliant (pumping not necessary – explain below)

Other: \_\_\_\_\_

### 3. Other compliance conditions – Compliance component #3 of 5

3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?

Yes\*  No  Unknown

3b. Other issues (*electrical hazards, etc.*) to immediately and adversely impact public health or safety?  Yes\*  No  Unknown

**\*Yes to 3a or 3b - System is an imminent threat to public health and safety.**

3c. System is non-protective of ground water for other conditions as determined by inspector?

Yes\*  No

3d. System not abandoned in accordance with Minn. R. 7080.2500?

Yes\*  No

**\*Yes to 3c or 3d - System is failing to protect groundwater.**

**Describe verification methods and results:**

Attached supporting documentation:  Not applicable

### 4. Operating permit and nitrogen BMP\* – Compliance component #4 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 specified in the system design?  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. 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.**

**Describe verification methods and results:**

Attached supporting documentation:  Operating permit (Attach)

## 5. Soil separation – Compliance component #5 of 5

Date of installation 7/31/2009  Unknown  
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging?  Yes  No

**Compliance criteria (select one):**

5a. 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:  Yes  No\*  
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

5b. 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:  Yes  No\*  
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.\*

5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080.2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day)  Yes  No\*  
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

**Attached supporting documentation:**

- Soil observation logs completed for the report
- Two previous verifications of required vertical separation
- Not applicable (No soil treatment area)
- \_\_\_\_\_

**Indicate depths or elevations**

A. Bottom of distribution media	12"
B. Periodically saturated soil/bedrock	72"+
C. System separation	60"+
D. Required compliance separation*	36"

\*May be reduced up to 15 percent if allowed by Local Ordinance.

**\*Any "no" answer above indicates the system is failing to protect groundwater.**

**Describe verification methods and results:**

See attached borings from design and previous inspection.

**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.



## Department of Public Health and Environment

14949 62nd Street North PO Box 6  
Stillwater MN 55082-0006  
Office: 651-430-6655 – TTY: 651-430-6246 – Fax: 651-430-6730

# Individual Sewage Treatment System Certificate of Compliance

Type of System: Standard Drainfield  
Permit Number: 0010-09-2  
Property ID Number: 22-032-20-43-0009  
Property Address: 14003 202 ST N  
Community: Scandia  
Date of Installation: July 31, 2009

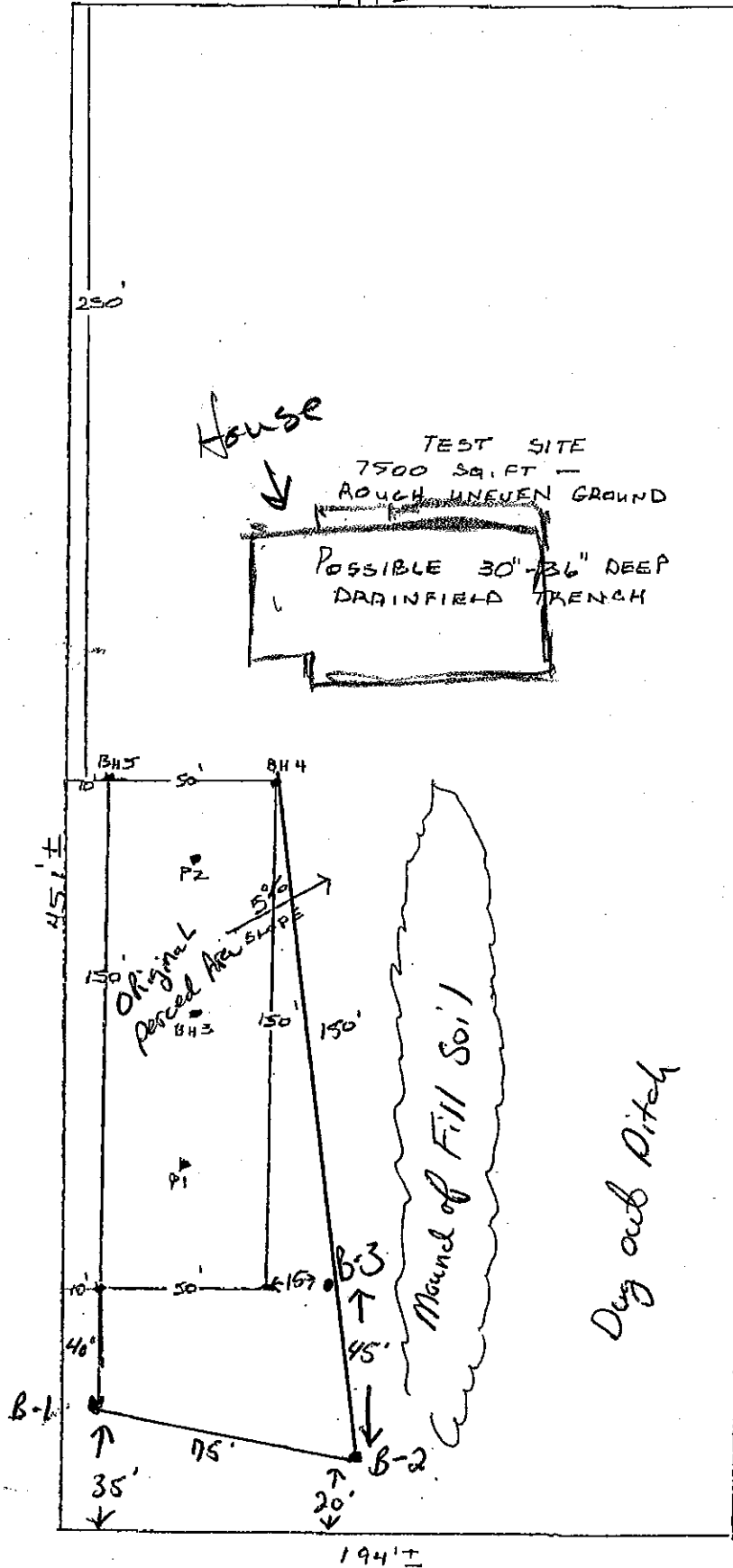
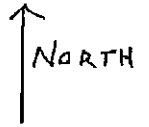
This certifies that the individual sewage treatment system installed at the aforementioned address was inspected during installation and found to be in compliance with requirements of the Washington County Development Code, Chapter Four, Individual Sewage Treatment System Regulations (Washington County Ordinance No. 128). This Certificate of Compliance is valid for five (5) years from the date of issuance unless Washington County finds evidence of an imminent threat to public health and safety. Supporting documentation with detailed information on the system can be found on the attached as-built.

A handwritten signature in black ink that reads "P. Ganzel".

Pete Ganzel  
Senior Environmental Specialist

SCALE: 1" = APPROX. 50'

NOT A SURVEY



### Soil Borings

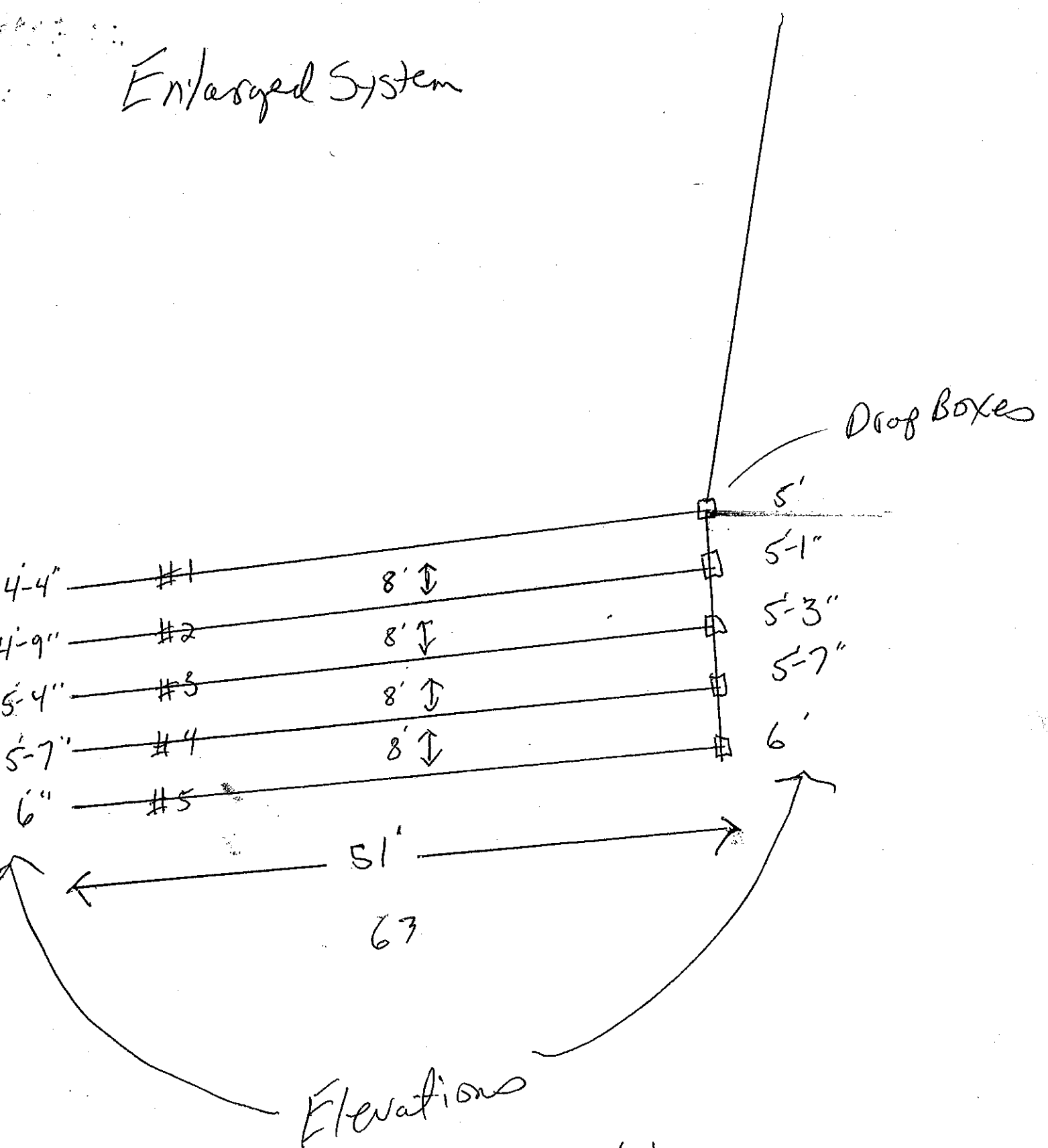
- B-1
- B-2
- B-3

Were performed on  
5-26-07 by

±1 Doug Maloney to  
expand the Percol  
Area.

Dug out Ditch

# Enlarged System



Elevations  
Verify Property Lines  
System must be at least  
10' off Property Lines



DATE 4-6-03

BOREHOLE DIAMETER 4" 3/4" - 2 1/2" HAND PUGER

DEPTH FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	SOIL CLASSIFICATION
	TOP SOIL - SANDY LOAM	TOP SOIL - SANDY LOAM	TOP SOIL - SANDY LOAM	TOP SOIL - SANDY LOAM	TOP SOIL - SANDY LOAM	BROWN LOAM 7.5YR 4/4
1	YELLOWISH BROWN SANDY LOAM	YELLOWISH BROWN SANDY LOAM	YELLOWISH BROWN SANDY LOAM	YELLOWISH BROWN SANDY LOAM	YELLOWISH BROWN SANDY LOAM	YELLOWISH BROWN LOAM 10YR 7/8
2		ROCKS				LIGHT BROWN SAND 7.5YR 6/3
3	LIGHT BROWN, FINE TO MEDIUM SAND	OBSTRUCTION STOP				REDDISH BROWN LOAM 2.5YR 5/4
4						
5		OKAY 36"	LIGHT BROWN, MEDIUM SAND		REDDISH BROWN, SANDY LOAM	
6	REDDISH BROWN, SANDY LOAM					
7	STOP		STOP	STOP	STOP	
8	OKAY 6'		OKAY 6'	OKAY 6'	OKAY 6'	
9						
10						

T-177 P.006/006 F-733

661 430 8730

FROM WASHINGTON CTY

MAY-03-07 10:28



**AS-BUILT REPORT  
INDIVIDUAL SEWAGE TREATMENT SYSTEM**

Washington County Public Health & Environment  
14949 - 62<sup>ND</sup> ST N, PO BOX 8, STILLWATER, MN 55082-0008  
651/430-6688 OR 651/430-6655 FAX 651/430-6730

Legal Description or Complete Street Address <b>14003 202<sup>nd</sup> St. W.</b>		City of Township <b>SCANDIA</b>		
Owner Name <b>STEVE JOHNSON</b>	Mail Address <b>14003 202<sup>nd</sup> St. W</b>	City <b>Scandia</b>	State <b>MN</b>	Zip
Installer <b>MJL Contracting</b>	Mail Address <b>5265 269<sup>th</sup> Ave NE</b>	City <b>Isant.</b>	State <b>MN</b>	Zip <b>55040</b>
Septic Tank Information Tank Manufacturer: <b>KNIFE RIVER</b>		Liquid Capacity <b>2500</b>		

PUMP CHAMBER (if installed)			
Tank Manufacturer: <b>Knife River</b>	Liquid Capacity: <b>1000</b>	Horsepower of Pump: <b>1/2</b>	Type of Warning Device: <b>Audio</b>
Pump Discharge in Gallons Per Minute: <b>27</b> at <b>13.2</b> Feet of		Number of Gallons Per Cycle: <b>180</b>	

PLAINFIELD TRENCH		BED OR MOUND	
Width: <b>3'</b>	Length of Each Trench: <b>51'</b>	Rock Bed Length:	Width: Area:
Depth of Trench Bottom from Finished Grade: <b>8'-12"</b>		Bed Depth from Grade:	
Method of Distribution: <input type="checkbox"/> Pressure <input type="checkbox"/> Distribution Box <input checked="" type="checkbox"/> Drop Box		MOUND: Upslope Sand Base Depth:      Downslope Sand Base Depth:	
Depth of Rock Under Distribution Pipe: <b>12</b>		Depth of Rock Under Pipe:	
Square Footage of Trench Area Used: <b>2032</b>		PRESSURE DISTRIBUTION SYSTEM:	
Trench Bottom Square Footage Required: <b>762</b>	Area As Built: <b>SAME</b>	Lateral Inside Diameter:	Length: Perforation Size:
		Spacing:	Number: Perforation Spacing:

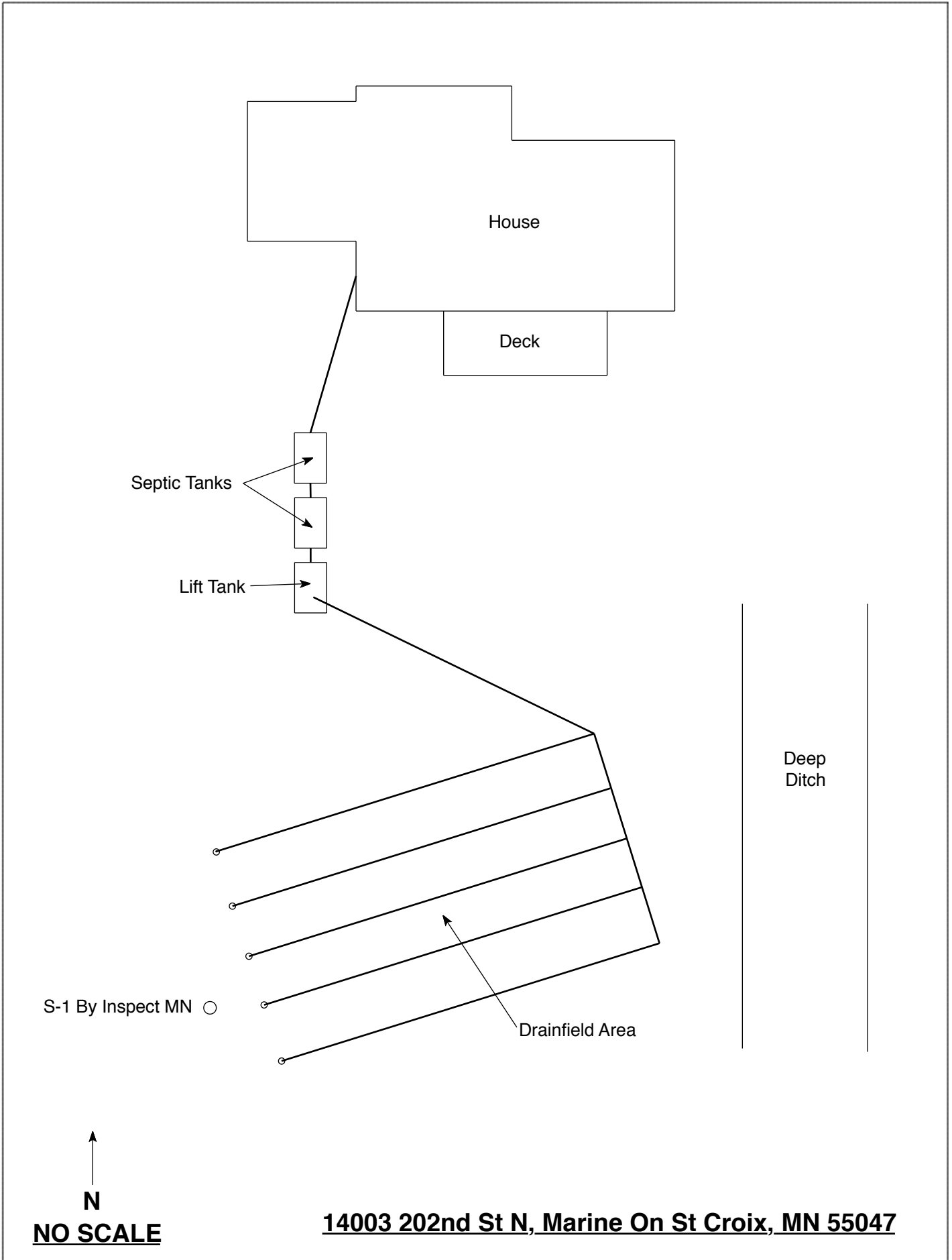
Complete site plan on attached sheet. On the site plan, include location of the following items.  
Structures, septic tank, pump chamber, line from house to tank treatment system, distribution lines, distribution or drop boxes, well, and driveway. Show all distances applicable to the sewage treatment system (distance from structure to tank, tank to treatment system, distance between distribution lines, length of distribution lines, and distance between well and sewage treatment system). Indicate NORTH on the site plan and the sale of the plan.

I hereby certify that the system at the above referenced address was installed according to the Washington County Individual Sewage Treatment System Ordinance requirements.  
Signed: MJL MPCA License #: 2449 Dated: 8/2/09

WASHINGTON COUNTY SEPTIC PERMIT NUMBER Application I.D. 0010-09-2

AN EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

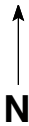
D:\forms\sep\10\ASBuil Form



S-1 By Inspect MN ○

Drainfield Area

Deep  
Ditch



N

**NO SCALE**

**14003 202nd St N, Marine On St Croix, MN 55047**

## Soil Observations Log

Location of Project:		14003 202nd St N, Marine On St Croix, MN 55047			
Observations Made By:		Inspect Minnesota		Date:	9/23/19
Classification System:		USDA			
Soil Observation:		1			
Surface Elevation of Observation		Same ground surface as last drainfield trench		Surface Elevation of Observation	
Depth In Inches	Rock %	<u>Soils Encountered</u>		Depth In Inches	Rock %
0-10 10-18 18-29	10	10YR 4/2 Silt Loam 10YR 4/3 Silt Loam 10YR 3/4 Sandy Clay Loam With Gravel			
29-40 40-56		7.5YR 4/4 Fine To Medium Sand 10YR 3/4 Loamy Sand  Refusal At 56"			
56"	Depth To End Of Soil Observation Or Redox			Depth To End Of Soil Observation Or Redox	
Same	Elevation Of Observation Relative To System			Elevation Of Observation Relative To System	
-24"	Depth To Bottom Of Distribution Media			Depth To Bottom Of Distribution Media	
≥32"	Of Separation			Of Separation	
End Of Soil Observation At:		56"		End Of Soil Observation At:	
Redox Present At:		None		Redox Present At:	
Standing Water Present At:		None		Standing Water Present At:	

Bottom Of Distribution Medium At: 24 Inches

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Signature: \_\_\_\_\_

