NORTHERN GEOSEPTIC
ENGINEERING. SITE DEVELOPMENT. SEPTIC SERVICES.

September 26, 2025

Jon Pearson
14 Baldwin Lane
Hilton Head Island, SC 29926
jpears2278@gmail.com

RE: Results of the Septic Compliance Inspection
1896 Echo Trail, Ely

Dear Jon,

The purpose of this letter is to outline the compliance inspection of the septic system serving your property at 1896 Echo Trail in Ely, Minnesota. This report documents the condition of the system at the time of inspection and identifies any compliance issues relative to current Minnesota Rules and St. Louis County Ordinance 61 requirements.

Inspection Summary
The system was determined to be ***non-conforming*** as the soil treatment area does not meet the 100-foot setback to the drilled well.

System Description:
The system serves a two-bedroom house. The septic system consists of the following components:

- 1,000-gallon Septic Tank
- Seepage bed with a 10′ x 55′ rock cell

All components were accessible for inspection and appear to be functioning as intended at the time of evaluation.

Inspector's Notes and Disclaimer
This report reflects the observed condition of the onsite wastewater treatment system at the time of inspection and is based on compliance standards outlined in Minnesota Rules Chapters 7080–7082 and St. Louis County Ordinance 61. The purpose of this inspection is to evaluate compliance as of the inspection date only.

System performance and compliance cannot be guaranteed beyond the date of inspection. Future performance depends on proper use, maintenance, and site conditions beyond the control of the inspector.

By accepting this report, Northern GeoSeptic's liability for this inspection and report is expressly limited to the amount of the inspection fee paid. No warranty, guarantee, or certification of future system performance is expressed or implied.

Closing
If you have any questions about the findings, recommendations, or next steps, please feel free to contact me directly at 218-235-3491.

Sincerely,

Michael Heiman
Northern GeoSeptic, Inc.
MPCA License #4321
MPCA Certification #10163

Attached:
Compliance Inspection Report – 1896 Echo Trail

St. Louis County, MN

REPORT

Compliance Inspection

Existing Subsurface Sewage Treatment System

Form **3031**

Rev. 02-25-2025

This form is used to submit a Compliance Inspection Report. Additional Information: www.stlouiscountymn.gov/septic

PROPERTY IDENTIFICATION NUMBER (PIN) and **SITE**

Primary PIN	4	6	5	-	0	0	2	0	-	0	0	8	6	6	Associated PIN					-					-				

PIN is found on your Property Tax Statement (E.g. 123-1234-12345), searching the County Land Explorer at https://gis.stlouiscountymn.gov/landexplorer/, or searching the Property Lookup at http://apps.stlouiscountymn.gov/auditor/parcelInfo2005Iframe/.

Reason for Inspection ✓ Point of Sale ☐ Land Use Permit ☐ Short Term Rental ☐ Other Inspection Date **9/23/2025**

Site Address **1896 Echo Trail** | City **Ely** | Zip **55731**

APPLICANT (Property Owner) (Mailing if Different than Site Address)

Name **Jon Pearson**

Address **14 Baldwin Lane** | City **Hilton Head Island** | State **SC** | Zip **29926**

Email **jpears2278@gmail.com** | Phone **540-535-8358** | Phone

CONTACT (If Different than Applicant Above)

Name **Kerry Davis**

Email **kerryccr@gmail.com** | Phone **218-235-1084** | Phone

PERMIT INFORMATION

Permit # **28504** | Bedrooms SSTS Designed For **2** SSTS Presently Serving **2**

MPCA Type I	**MPCA Type II**	**MPCA Type III**	**MPCA Type IV**	**MPCA Type V**
☐ At-Grade	☐ Holding Tank	☐ Average Flows	☐ ATU	☐ Engineered System
☐ Graywater	☐ Pit Privy	☐ Disturbed Soil	☐ Peat	☐ Other
☐ Mound	☐ Vaulted Privy	☐ <1' Soil	☐ Sand	**Other System Type**
✓ Bed	Other	☐ Limited Area	☐ Textile	☐ Seepage Pit/Drywell
☐ Trench		Other	Other	☐ Other

Media Type ☐ Chamber ☐ EZ Flow ✓ Rock Other

Dwelling Classification ☐ I ☐ II ☐ III ☐ IV

SYSTEM STATUS (Required)

☐ **Compliant** ✓ **Non-conforming** ☐ **Noncompliant** ☐ **ITPH**

SSTS built prior to April 1, 1996 and not located in SL or WPA or FBL			**SSTS built after March 31, 1996 and not located in SL or WPA or FBL**			**SSTS located in SL or WPA or FBL**		
ITPH Sewage discharge to ground surface/waters	☐ Yes	✓ No	**ITPH** Sewage discharge to ground surface/waters	☐ Yes	☐ No	**ITPH** Sewage discharge to ground surface/waters	☐ Yes	☐ No
Electrical hazards	☐ Yes	✓ No	Electrical hazards	☐ Yes	☐ No	Electrical hazards	☐ Yes	☐ No
Unsecured or damaged maintenance hole cover	☐ Yes	✓ No	Unsecured or damaged maintenance hole cover	☐ Yes	☐ No	Unsecured or damaged maintenance hole cover	☐ Yes	☐ No
Unable to locate system or system components	☐ Yes	✓ No	Unable to locate system or system components	☐ Yes	☐ No	Unable to locate system or system components	☐ Yes	☐ No
Backup in dwelling	☐ Yes	✓ No	Backup in dwelling	☐ Yes	☐ No	Backup in dwelling	☐ Yes	☐ No
Noncompliant Less than 12" separation	☐ Yes	✓ No	**Noncompliant** Less than 12" separation	☐ Yes	☐ No	**Noncompliant** Less than 12" separation	☐ Yes	☐ No
Tank or risers are leaking/ structurally unsound	☐ Yes	✓ No	Tank or risers are leaking/ structurally unsound	☐ Yes	☐ No	Tank or risers are leaking/ structurally unsound	☐ Yes	☐ No
Indications of past tank leakage	☐ Yes	✓ No	Indications of past tank leakage	☐ Yes	☐ No	Indications of past tank leakage	☐ Yes	☐ No
OP required / expired	☐ Yes	✓ No	OP required / expired	☐ Yes	☐ No	OP required / expired	☐ Yes	☐ No
Non-conforming 12" – 24" of separation	☐ Yes	✓ No	**Non-conforming** 12" – 30.6" of separation	☐ Yes	☐ No	Seepage pit or drywell	☐ Yes	☐ No
Seepage pit or drywell	☐ Yes	✓ No	Seepage pit or drywell	☐ Yes	☐ No	**Non-conforming** 12" – 30.6" of separation	☐ Yes	☐ No
System is undersized per Ordinance 61	☐ Yes	✓ No	System is undersized per Ordinance 61	☐ Yes	☐ No	System is undersized per Ordinance 61	☐ Yes	☐ No
System does **not** meet all setbacks	✓ Yes	☐ No	System does **not** meet all setbacks	☐ Yes	☐ No	System does **not** meet all setbacks	☐ Yes	☐ No
System is **not** a permitted existing system	☐ Yes	✓ No	System is **not** a permitted existing system	☐ Yes	☐ No	System is **not** a permitted existing system	☐ Yes	☐ No

St. Louis County, MN

REPORT

Compliance Inspection

Existing Subsurface Sewage Treatment System

Form **3031** Rev. 02-25-2025

INSPECTOR

Licensed Business Name **Northern GeoSeptic, Inc.**	License # **L4321**	Certification # **C10163**

Inspector's Comments *(To On-Site Wastewater Staff)*

Signature

Date **9/26/2025**

INSTRUCTIONS

If more than one SSTS is serving this location, complete a separate Compliance Inspection worksheet for each system (including privies)
If dwelling classification is different than design, provide dwelling classification information in the comments or provide Form 3011 Dwelling Classification
A Compliance Inspection Fee of $35 due payable to *St. Louis County Auditor*

Provide a site drawing with the following
North orientation, location of tank(s), buried septic lines, drainfield area and dimensions, soil boring locations, expansion area, well(s), dwelling and structure locations, driveway(s), property lines, waterways, curtain drain, setback distances (well, structures, property lines, shoreland, roadways, etc…)

EXISTING SYSTEM COMPLIANCE AND SYSTEM UPGRADE AND REPLACEMENT CRITERIA

Ordinance 61, Compliance Inspection Program, Article VIII, Section 2.06

A. All system types.
1. Any system identified as an Imminent Threat to Public Health and/or Safety must be abated within 10 days and repaired, upgraded or replaced within 10 months of the determination. 2. Any system within a SWF area with less than 12 inches of vertical separation is considered non-compliant and must be upgraded or replaced within 12 months of the determination. Any system outside a SWF area with less than 12 inches of vertical separation is considered non-compliant and must be upgraded or replaced within 24 months of the determination. 3. Any system within a SWF area with a leaking or structurally unsound tank or riser, or a system with indications of past tank leakage is considered non-compliant and must be repaired, upgraded or replaced within 12 months of the determination. Any system outside a SWF area with a leaking or structurally unsound tank or riser, or a system with indications of past tank leakage is considered non-compliant and must be repaired, upgraded or replaced within 24 months of the determination.

B. Type I -V systems built before April 1, 1996.
1. Systems in SWF areas with less than the equivalent of 30.6 inches but at least 12 inches of vertical separation between system bottom and saturated soil or bedrock are considered non-conforming and no system upgrade or replacement is required until the addition of a bedroom, an increase in water usage as determined by the Department or as determined by a variance decision. 2. Systems outside of SWF areas with less than the equivalent of 24 inches but at least 12 inches of vertical separation between system bottom and saturated soil or bedrock are considered non-conforming and no system upgrade or replacement is required until the addition of a bedroom, an increase in water usage as determined by the Department, or as determined by a variance decision.

C. Type I – V systems built after April 1, 1996.
1. Systems in SWF areas with less than the equivalent of 30.6 inches but at least 12 inches of vertical separation between system bottom and saturated soil or bedrock are considered non-conforming and no system upgrade or replacement is required until the addition of a bedroom, an increase in water usage as determined by the Department, or as determined by a variance decision. 2. Systems outside of SWF areas with less than 30.6 inches but at least 12 inches of vertical separation between system bottom and saturated soil or bedrock are considered non-conforming and no system upgrade or replacement is required until the addition of a bedroom, an increase in water usage as determined by the Department, or as determined by a variance decision.

DEFINTIONS

SL: Shoreland (1000' of a lake or 300' of a river)

SWF: Shoreland or Wellhead Protection Area or Food, Beverage, Lodging Establishment

WPA: Wellhead Protection Area

ITPH: Imminent Threat to Public Health

Watertight: means constructed so that no liquid can get into or out of a device except through designed inlets and outlets.

FBL: Food, Beverage or Lodging Establishment

AGREEMENT

By submitting this application, the entire contents of which are considered to be public data, I certify that all the necessary information has been gathered to determine the compliance statues of the 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. This CI Form was completed by me, a MCPA certified inspector, and submitted to SLC and the SSTS owner within 30 days of inspection including Detailed Site Drawing, Soil Boring Log(s), MCPA Compliance Inspection Form, & any other applicable information.

CONTACT Planning and Zoning (Onsite Wastewater Division)

Duluth Office		Virginia Office	
Government Services Center 320 W 2nd Street, Suite 301 Duluth, MN 55802	Phone (218) 471-7103 Toll Free (800) 450-9777 www.stlouiscountymn.gov/septic	Government Services Center 201 South 3rd Avenue West Virginia, MN 55792	Phone (218) 471-7103 Toll Free (800) 450-9777 www.stlouiscountymn.gov/septic

OFFICE USE ONLY

Amount Paid	Paid by	Cash	Check #	Permit #
Revenue Code	Received By	☐ Mail ☐ IP	Date RIO	

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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: 2025-269

Parcel ID# or Sec/Twp/Range: 465-0020-00866 Reason for Inspection Point of Sale

Local regulatory authority info: St. Louis County Planning & Zoning

Property address: 1896 Echo Trail, Ely, MN 55731

Owner/representative: Jon Pearson Owner's phone: (540) 535-8358

Brief system description: 2-Bedroom house to 1,000 gallon septic tank to 10' x 55' seepage bed.

System status

System status on date (mm/dd/yyyy): 09/23/2025

☒ **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

St. Louis County Planning & Zoning SSTS Permit 28504.

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: Northern GeoSeptic, Inc. Certification number: C10163

Inspector signature: *(This document has been electronically signed)* License number: L4321

Phone: (218) 365-3491

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): Site Sketch, Well Construction Log

Property Address: 1896 Echo Trail, Ely, MN 55731
Business Name: Northern GeoSeptic, Inc. Date: 09/23/2025

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.

Attached supporting documentation:

☐ Other:

☒ Not applicable

Describe verification methods and results:

Inspection of the area around the tanks and soil treatment area revealed no sewage discharge, staining, or other indicators of surface leakage.

Inspection of the soil treatment area did not reveal any excessive ponding at the time of inspection.

Liquid levels in the septic tank were observed to be at the outlet at the time of inspection. No evidence of higher liquid levels in the tank was observed.

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ 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.

Attached supporting documentation:

☒ Empty tank(s) viewed by inspector

Name of maintenance business: BW Septic

License number of maintenance business: L4160

Date of maintenance: 09/23/2025

☐ 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:

Describe verification methods and results:

Observed the septic tank being pumped at the time of the inspection.

Used a videoscope to view the empty septic tank. No cracks, corrosion, concrete spalling, or root intrusion were observed. The septic tank appeared to be watertight and in proper working condition.

Baffles observed to be in good condition. No effluent filter or alarm.

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:

Visual observation.

Reviewed publicly available septic records, discussed with the owner, and walked the property. No former systems or components that were not properly abandoned were observed on the property.

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) ☐

Property Address: 1896 Echo Trail, Ely, MN 55731
Business Name: Northern GeoSeptic, Inc. Date: 09/23/2025

5. Soil separation – Compliance component #5 of 5

Date of installation 07/01/1983 ☐ Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? ☐ Yes ☒ No

Attached supporting documentation:

☒ Soil observation logs completed for the report

☐ Two previous verifications of required vertical separation

☐ Not applicable (No soil treatment area)

☐ _____

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:* Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☒ Yes ☐ No*
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:* Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☐ Yes ☐ No*
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)* Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*

Indicate depths or elevations

A. Bottom of distribution media	96.97'
B. Periodically saturated soil/bedrock	93.98'
C. System separation	36"
D. Required compliance separation*	30.6"

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

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

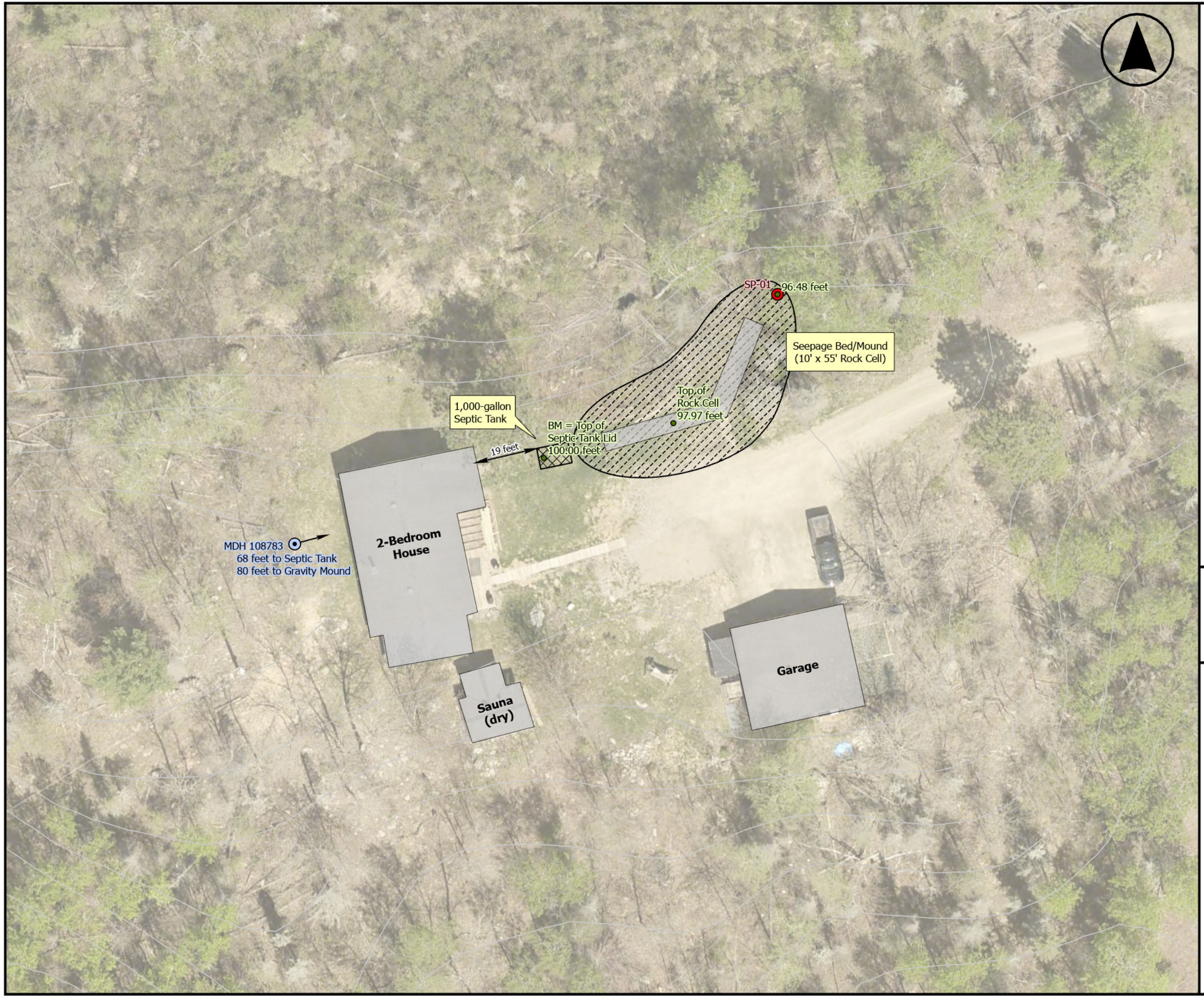
Describe verification methods and results:

The soil observation was completed in proximity to the soil treatment area as shown on the site sketch. The soil observation was completed using an auger.

A grade laser was used to measure the relative elevations between the top of the rock cell and the ground surface at SP-01.

Measured 16 inches of cover over the rock cell within the seepage bed. Rock Cell is 12 inches thick. Bottom of distribution media = 28 inches.

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.*



10 5 0 10 20 30 40 Feet

Scale: 1:300

Legend

- Well
- Soil Pit
- 2-foot Contours
- Tanks
- Soil Treatment Area
- St. Louis County Tax Parcels

Sources:

- Imagery: St. Louis County 2023.
- Elevation Contours: Sourced from MN DNR LiDAR data and are intended to illustrate general topographic features.
- Property Boundaries: Estimated using St. Louis County GIS data and intended to be approximate.

Figure 1
Septic Inspection Sketch

Client: Jon Pearson

Parcel ID: 465-0020-00866

Address: 1896 Echo Trail

City: Ely County: St. Louis

NORTHERN GEOSEPTIC
ENGINEERING. SITE DEVELOPMENT. SEPTIC SERVICES.

Date: 9/26/2025 6:18 AM Drawn by: MTH

University of Minnesota Onsite Sewage Treatment Program

Soil Observation Log

Project ID: 2025-269 v 04.07.2025

Client:	Jon Pearson	Location / Address:	1896 Echo Trail, Ely, Minnesota 55731

Soil parent material(s): (Check all that apply) ☐ Outwash ☐ Lacustrine ☐ Loess ☑ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter ☐ Disturbed/Fill

Landscape Position:	Back/Side Slope	Slope %:	8.0	Slope shape:	Linear, Linear	Flooding/Run-On potential:	No
Vegetation:	Forest	Soil survey map units:	F35D			Surface Elevation-Relative to benchmark:	96.48
Date/Time of Day/Weather Conditions:	9/23/2025	12:55 PM	Sunny - 72 deg. F			Limiting Layer Elevation:	93.98
Observation #/Type/Location:	SP-01	Auger	NE of Seepage Bed			Depth to Standing Water-inches:	N/A

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I-------- Structure----------I		
							Shape	Grade	Consistence
0 - 3	Loamy Medium Sand	10	10YR 2/2	None	None	None	Granular	Weak	Loose
3 - 20	Coarse Sand	20	10YR 5/4	None	None	None	Single grain	Structureless	Loose
20 - 24	Medium Sandy Loam	10	10YR 3/6	None	None	None	Granular	Moderate	Friable
24 - 30	Loamy Medium Sand	10	10YR 4/4	None	None	None	Granular	Weak	Loose
30 - 35	Medium Sandy Loam	35	10YR 5/3	7.5YR 3/6	Concentrations	S2	Granular	Moderate	Firm

Comments: End of soil observation at 35 inches. Limiting layer observed at 30 inches.

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Michael Heiman		L4321	9/23/2025
(Designer/Inspector)	(Signature)	(License #)	(Date)

Optional Verification: I hereby certify that this soil observation was verified according to Minn. R. 7082.0500 subp. 3 A. The signature below represents an infield verification of the periodically saturated soil or bedrock at the proposed soil treatment and dispersal site.

(LGU/Designer/Inspector)	(Signature)	(Cert #)	(Date)

Minnesota Unique Well Number

108783

County St. Louis
Quad Shagawa
Quad ID 347B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date 02/22/1988
Update Date 08/07/2019
Received Date

Well Name	Township	Range	Dir	Section	Subsection
SCHING, STEVE	63	12	W	7	ADAADA

Elevation 1491 **Elev. Method** LiDAR 1m DEM (MNDNR)

Address

Well 1896 ECHO TR ELY MN 55731

Stratigraphy Information

Geological Material	From	To (ft.)	Color	Hardness
TOP SOIL	0	5	BROWN	
LEDGE	5	118	GRAY	
AQUIFER	118	120	GRAY	

Remarks

CASING BOTH WELDED AND THREADED
DRILLING METHOD: AIR/ROTARY
CASING; THREADED/WELDED

Well Depth 120 ft. **Depth Completed** 120 ft. **Date Well Completed** 06/28/1983

Drill Method Non-specified Rotary **Drill Fluid**

Use domestic **Status** Active

Well Hydrofractured? Yes ☐ No ☐ **From** **To**

Casing Type Single casing **Joint** Welded
Drive Shoe? Yes ☒ No ☐ **Above/Below** 1 ft.

Casing Diameter **Weight**
6 in. To 21 ft. 19.4 lbs./ft.

Open Hole From 20 ft. To 120 ft.

Screen? ☐ **Type** **Make**

Static Water Level

Pumping Level (below land surface)

Wellhead Completion

Pitless adapter manufacturer Model

☐ Casing Protection ☒ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified

Material	Amount	From	To
bentonite		8 ft.	20 ft.

Nearest Known Source of Contamination

feet Direction Type

Well disinfected upon completion? ☒ Yes ☐ No

Pump ☒ Not Installed Date Installed

Manufacturer's name

Model Number HP Volt

Length of drop pipe ft Capacity g.p. Typ

Abandoned

Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance

Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Miscellaneous

First Bedrock Schist & migmatite Aquifer Schist &
Last Strat Schist & migmatite Depth to Bedrock 5 ft
Located by Minnesota Geological Survey
Locate Method GPS SA Off (averaged) (15 meters)
System UTM - NAD83, Zone 15, Meters X 581553 Y 5312164
Unique Number Verification Tax Records Input Date 02/01/2017

Angled Drill Hole

Well Contractor

Rasmussen Well Co. 38019 RASMUSSMEN, L
Licensee Business Lic. or Reg. No. Name of Driller