

ZIERKE SOIL TESTING

Mariana Swoboda
10670 St Croix Trl N
Stillwater, MN 55082

8/25/2023

Dear Mariana Swoboda,

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: 1003020140010 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 10670 St Croix Trl N Stillwater, MN 55082

Owner/representative: Mariana Swoboda (buyer) Owner's phone: 651-587-2936

Brief system description: 1500 gallon septic tank, split 1500 gallon tank with lift in 500 gallon compartment, gravelless trench system

System status

System status on date (mm/dd/yyyy): 8/25/2023

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

System functioning normally during site visit 8/24/2023. No signs of system backup or seepage observed. Spoke with homeowner who reported no issues in the three years he has owned the home.

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): Permit, previous soil borings

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 during site visit 8/24/2023.

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:	

Any "yes" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

Present for pumping by Smilies Sewer 8/24/2023. Tanks water tight and baffles in place (confirmed with camera).

Attached supporting documentation:

- Empty tank(s) viewed by inspector
- Name of maintenance business: Smilies
- License number of maintenance business: 2428
- Date of maintenance: 8/24/2023
- 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 8/10/1998 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	97.6'
B. Periodically saturated soil/bedrock	94.5'
C. System separation	3.1'+
D. Required compliance separation*	3.0'

*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, sketch, and permit information.

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.

Relative Elevations in Decimal Feet:

B1: 100.0', restriction 94.5'+

Bottom of pipe, lowest trench: 97.6'

B1 Separation: 3.1'

Benchmark: 102.3'
(cover on pump compartment)

Height of instrument: 105.8'

Tanks

10670 St Croix Trail N

Drainfield

B1



80 ft

Logs of Soil Borings

Location of Project: 10670 St Croix Trail N Stillwater, MN 55082

Borings Made by Ben Zierke

Date:

6/2/2020

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-----	-----	0-----	-----
0-19"	10YR 2/2 loam, 0% rock		
19-35"	10YR 4/3 silt loam, 0% rock		
35-40"	10YR 4/.4 loamy sand, 21% rock		
40-66"	10YR 4/4 fine sand, 4% rock, no redox		

End of boring at 5.5 feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at _____ feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:

Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0-----	-----	0-----	-----

End of boring at _____ feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at _____ feet

Standing water table:

Present at _____ feet of depth _____ Hours after boring

Standing water not present in hole

Mottled Soil:

Observed at _____ feet of depth

Mottled soil not present in bore hole

Comments:



WASHINGTON COUNTY, MINNESOTA

Department of Health, Environment, and Land Management 612/430-6708

STILLWATER TOWNSHIP

PERMIT NUMBER 001498037 SEWAGE PERMIT

Owner: BRIAN/VICTORIA NOVITCH
10670 SAINT CROIX TRL N
STILLWATER MN 55082
Applicant: BRIAN/VICTORIA NOVITCH 612-439-5829

Table with 2 columns: Fee Description and Amount. Includes Drainfield Replacement Permit (70.00), Septic Application/Soil Review (150.00), Total Fees (220.00), Total Paid (220.00), and Total Due (.00).

0014-98037

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following described property upon express condition that said persons and their agents, employees and workmen shall conform in all respects to the provisions of the Building Code, and/or Ordinances.

This permit may be revoked at any time upon the violation of any of the provisions of said code and ordinances.

Project Address: 10670 SAINT CROIX TRL N STILLWATER MN 55082
Legal Description: PART NE1/4 OF SECTION 10 TOWNSHIP 30 RANGE 20 Geo: 10-030-20-14-0010
Flow Capacity: 600 Gal/Day Tank Volume: 2000
Soil Conditions: Depth to Restriction: 98 Inches Perc Rate: 5 Min/Inch

Soil Treatment Type:
Bottom Area: 600 Rock Depth: 12

Authorized Work / Special Conditions

- Install individual sewage treatment system as per approved design in area tested and shown on site plan.
- OK to use existing sewage tank if inspection shows sound construction (precast) and functioning baffles.
- THIS SYSTEM MUST BE INSTALLED BY A CERTIFIED/LICENSED SEWAGE TREATMENT SYSTEM INSTALLER HOLDING A CURRENT LICENSE WITH THE MINNESOTA POLLUTION CONTROL AGENCY.
- Maximum trench depth 42 inches into natural soil.
- divide trenches into 4 equal parts supplied serially.

** Permit Expiration Date: Sewage Treatment: 1998-05-15

A CERTIFICATE OF OCCUPANCY MUST BE REQUESTED AND ISSUED PRIOR TO USE OR OCCUPANCY OF WORK PERMITTED BY A BUILDING PERMIT.

** This permit shall expire and be null and void if the work authorized by the Building Permit is not commenced within 60 days of the date of issuance or if work is abandoned or suspended for a period of 120 days. Term of the Building Permit is 12 months from date of issue. Term of sewage treatment permit is 12 months from date of issue.

Penalty for violation of any of the provisions of building code: Fine not to exceed five hundred dollars (\$500.00) or imprisonment for not more than ninety (90) days, or both.

Permit Issue Date 1998-05-15 Code Enforcement Officer [Signature]

INSPECTION RECORD

0014-82037

BUILDING	DATE	INSP.	COMMENTS
Foundation.....			
Foundation Wall.....			
Plumbing (Groundwork).....			
Heating (Groundwork).....			
Rough Plumbing.....			
Rough Gas Piping.....			
Rough Heating and Ventilation.....			
Framing.....			
Insulation.....			
Fireplace.....			
Chimney.....			
Wallboard or Lath and Plaster.....			
Final Electrical.....			
Final Plumbing.....			
Final Gas Piping.....			
Final Heating and Ventilation.....			
Final Building.....			1500 combos tank

SEWAGE TREATMENT SYSTEM	DATE	INSP.	COMMENTS
Installation.....	8-10-98	9/2	Tank Size: 1500 Treatment Area: 598 sq ft
As Built.....			Installer: Koeharity Etc

DRIVEWAY	DATE	INSP.	COMMENTS
Access.....			
Installation.....			

NOTES: Tanks being set 7-31-98 real deep but no reasonable fill inside:



RECEIVED
MAY 08 1998

STANDARD SYSTEM DESIGN
INDIVIDUAL SEWAGE TREATMENT SYSTEM

WASHINGTON COUNTY HEALTH, ENVIRONMENT & LAND MANAGEMENT
14900 N. 61ST STREET, P.O. BOX 3803, STILLWATER, MN 55082-3803
612/430-6708 OR 612/430-6656 FAX 612/430-6730

Owner's Name	BRIAN NOVITCH
Job Site Address	10670 ST. CROIX TRAIL
City or Township	STILLWATER
Use of Building	HOME

4 BEDROOM HOME

Design Flow Rate	600	Perc Rate	1-5 MPE	Land Slope	2%	Percent	
Two Required Tank Sizes	1500 Gallons		COMBO	Lift Station Tank Size	1000/500 COMBO	Gallons	
Type of System (standard, at grade or bed) STANDARD							
System Size:	598	-Square Feet	200	-Lineal Feet	3	-Trench Width	
Depth of rock below pipe GRAVELESS				Depth of Rock Above Pipe N/A			
MINimum Depth of Trench From Existing Grade 12" Inches				MAXimum Depth of Trench From Existing Grade 42" Inches			
Recommended Number of Trenches 3 4				Recommended Length of Trenches 100			
Trench Spacing Measured Center to Center 6'						Feet	
Any Other Special Conditions DUE TO LIMITED SPACE, A COMBO 1000/500 TANK SHOULD BE USED TO HAVE THE REQUIRED 3 TANKS. SPLIT TRENCHES INTO 4 EQUAL PARTS SUPPLIED SERIALLY. OR USE							

IF PRESSURE DISTRIBUTION IS USED, COMPLETE THE PRESSURE DISTRIBUTION WORK SHEET ATTACHED.

This design must be accompanied by a site plan that clearly shows the location of the area tested and approved by the following:

1. Use an appropriate scale and indicate direction by use of a north arrow.
2. Show ALL property boundaries, rights-of-way, easements, wetlands. If necessary, an enlarged detail of the house site may also be required.
3. Show location of house, garage, driveway and all other improvements existing or proposed.
4. Show location and layout of sewage treatment system.
5. Show location of water supply (well and/or community supply line).
6. Dimension all setbacks and separation distances.

This system has been designed by a Pollution Control Agency (PCA) Certified Professional.

Designer Name	Koeckeritz Excavating	PCA Certification #	
Address	1118 Neal Ave. S. Afton, MN 55001 (612) 436-8820	Phone #	
Signature	MPCA# 1044	Date	4-30-98



SOIL REVIEW/SEPTIC PERMIT APPLICATION

RECEIVED

MAY 08 1998

HELM

Washington County Health, Environment & Land Management

14900 61st Street N., P.O. Box 3803

Stillwater, MN 55082-3803

612/430-6708 or 612/430-6656 FAX 612/430-6730

app + permit fee
\$ 220.00
* P&K fee

FEE 300 220.00

Receipt # 30935

Make checks payable to WASHINGTON COUNTY TREASURER

\$150 - Application Fee (site review)

\$25 - Additional Review Fee (1 hour minimum)

\$100 base fee, plus \$50 per lot - Subdivision Fee

\$150 - New Drainfield System Permit Fee

\$70 - Replacement Drainfield System Permit Fee

\$250 - New Mound System Permit Fee

\$170 - Replacement Mound System Permit Fee

0014-98037

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION)
PART NE 1/4 of Section 10 3.04 AC 95010-2910 10-30-20-14-0010
10670 ST. CROIX TRAIL STILLWATER, MN 55082

Applicant BRIAN & VICTORIA NOVITCH Address 10670 ST. CROIX TR. City STILLWATER, MN State 55082 Zip 55082 Phone 439-5829

Owner (if different from applicant) Address City State Zip Phone

New Home Existing Home New Business Existing Business Number Of Bedrooms: 4 Gallons Per Day: 600

Check the following fixture(s) which are or will be installed: Garbage Disposal Recreational Bathing Facility: (jacuzzi, hot tub, etc.)

New Drainfield System New Mound System Replacement Drainfield System Replacement Mound System Permit Renewal
Approval Only If this site has been approved, attach copy of approval letter Additional Soil Test Data for Previously Approved Site

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Reports; Soil Boring Logs; Site Plan drawn to scale showing location of buildings, lot lines, percolation test holes, soil boring holes, proposed location of system and well; one (1) copy of the System Design; and one (1) copy of the Final Building Plan. The house and the drainfield areas must be staked. Inaccurate or incomplete information will result in delays in processing.

AGREEMENT: The undersigned hereby makes Application for Permit to Install or Extend Sewage Treatment System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches and Design submitted herewith, and which are reviewed by the Washington County Building Official or his agent, together with any requirement and/or restriction made necessary by conditions peculiar to a particular location, shall become a part of the permit. Applicant further agrees to provide access, at reasonable times, to the Building Official or his agent for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. APPLICATION IS FOR AN INSTALLATION AT A SPECIFIC LOCATION; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT. It shall be the responsibility of the applicant for the permit to notify the Office of the Building Official that the installation is ready for inspection.

In connection with your request for a soil review/septic permit, you are hereby giving us permission to enter upon your property during normal business hours for the purpose of determining the suitability of the location, which may include minor excavation or soil borings.

Victoria Novitch
Signature of Applicant (Owner or Builder)

4/30/98
Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR Al Goodwin DATE 5-12-98

Setbacks:	Required [circle appropriate item(s)]					Actual
	50'	75'	100'	150'		
Well (including adjacent property)						
Wetland, Pond, Lake, Stream, River, or Bluffline						

CONCLUSIONS: Site Suitable: Site Unsuitable: Additional Tests Required: Verify Use: Bedrooms

NOTES: Lot Size _____ Year Built _____

EXISTING HOUSE
all sand lift station somewhat
limited area open lower high ground
some trees

Koeckeritz Excavating
1118 Neal Ave. S.
Afton, MN 55001
(612) 436-8820
MPCA# 1044

Date: 4/25/98

Location: Victoria Novitch
10670 St. Croix Tr.
Stillwater, MN 55082

Soil Borings

B1

0 - 18"	10YR 4/2	Dark Grayish Brown	Fine silty Loam Topsoil
18 - 36"	10YR 4/3	Brown	Sand w/ Large Rocks
36 - 48"	10YR 5/8	Yellowish Brown	Fine Sand
48 - 51"	10YR 4/6	Dark Yellowish Brown	Fine Silty Sand
51 - 70"	10YR 6/6	Brownish Yellow	Sandy Gravel

B2

0 - 12"	10YR 4/2	Dark Grayish Brown	Fine silty Loam Topsoil
12 - 15"	10YR 4/3	Brown	Sandy Clay w/ Large Rocks
16 - 36"	10YR 5/8	Yellowish Brown	Medium Sand w/ Rocks
36 - 60"	10YR 6/6	Brownish Yellow	Fine Sand
60 - 68"	10YR 4/4	Dark Yellowish Brown	Fine Silty Sand
68 - 96"	10YR 5/6	Yellowish Brown	Medium Sand

B3

0 - 36"	10YR 4/2	Dark Grayish Brown	Fine Sandy Loam Top Soil
36 - 48"	10YR 3/2	Very Dark Grayish Brown	Fine Silty Loam
48 - 58"	10YR 4/3	Brown	Fine Silty Clay
58 - 72"	10YR 5/6	Yellowish Brown	Silty Clay
72 - 78"	10YR 5/6	Yellowish Brown	Sand
78 - 94"	10YR 5/6	Yellowish Brown	Sandy Clay

B4

0 - 6"	10YR 4/2	Dark Grayish Brown	Fine Sandy Loam Top Soil
6 - 22"	10YR 4/6	Dark Yellowish Brown	Fine Sand
22 - 80"	10YR 5/6	Yellowish Brown	Sand

