

ZIERKE SOIL TESTING

Cara O'Keefe
22695 Olinda Trail
Scandia, MN 55073

3/21/2021

Dear Cara O'Keefe,

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 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
MPCA Lic 119, Cert 9594

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

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

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached supporting documentation – additional local requirements may also apply. Further information can be found here: <https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>.

Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance.

Property information

Local tracking number: _____

Parcel ID# or Sec/Twp/Range: 1103220140006 Local regulatory authority: Washington County

Property address: 22695 Olinda Trail Scandia, MN 55073

Owner/representative: Cara O'Keefe Owner's phone: 651-280-5981

Brief system description: 1500 gallon septic tank, 1000 gallon septic tank, 1250 gallon lift tank, mound system

System status

System status on date (mm/dd/yyyy): 3/21/2021

Compliant – Certificate of compliance*

Noncompliant – Notice of noncompliance

(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.)

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.

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

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

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

Lift did not have electricity during site visit 3/19/21. Homeowner repaired electrical connection by 3/21/21.

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: 

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
- Locally required forms
- Tank Integrity Assessment
- Operating Permit
- Other information (list):
System sketch

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:

Cara reported having no issues with the system. No signs of seepage or ponding during site visit 3/19/21.

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 3/19/21. Tanks watertight and baffles in place. Used camera to confirm baffle condition.

Attached supporting documentation:

- Pumped at time of inspection
- Name of maintenance business: Smilies
- License number of maintenance business: 2428
- Date of maintenance: 3/19/2021
- 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 10/19/1995 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 (Advanced Inspector License required) 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 (Attach)
- Two previous verifications of required vertical separation (Attach)
- Not applicable (No soil treatment area)
- _____

Indicate depths or elevations

A. Bottom of distribution media	101.5
B. Periodically saturated soil/bedrock	98.5+
C. System separation	3.0+
D. Required compliance separation*	2.0

*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:

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.

LOGS OF SOIL BORINGS

Location of Project Pamela Grimm, 22695 Olinda Trail N., Scandia, MN, 55073

Borings Made by Chris Zierko

Date: 9/30/14

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

Depth, In Feet	Boring Number 1
0-----	
0-16"	Mound fill soil
16-22"	Dark-brown sandy loam(10YR-3/3)
22-30"	Light-gray sandy loam(10YR-5/2), iron-stains, light-gray mottles

End of boring at 2.5 feet.
 Standing water table:
 Present at feet of depth, hours after boring.
 Standing water not present in hole .
 Mottled Soil:
 Observed at 22" feet of depth.
 Mottled soil not present in bore hole .

Depth, In Feet	Boring Number 3
0-----	

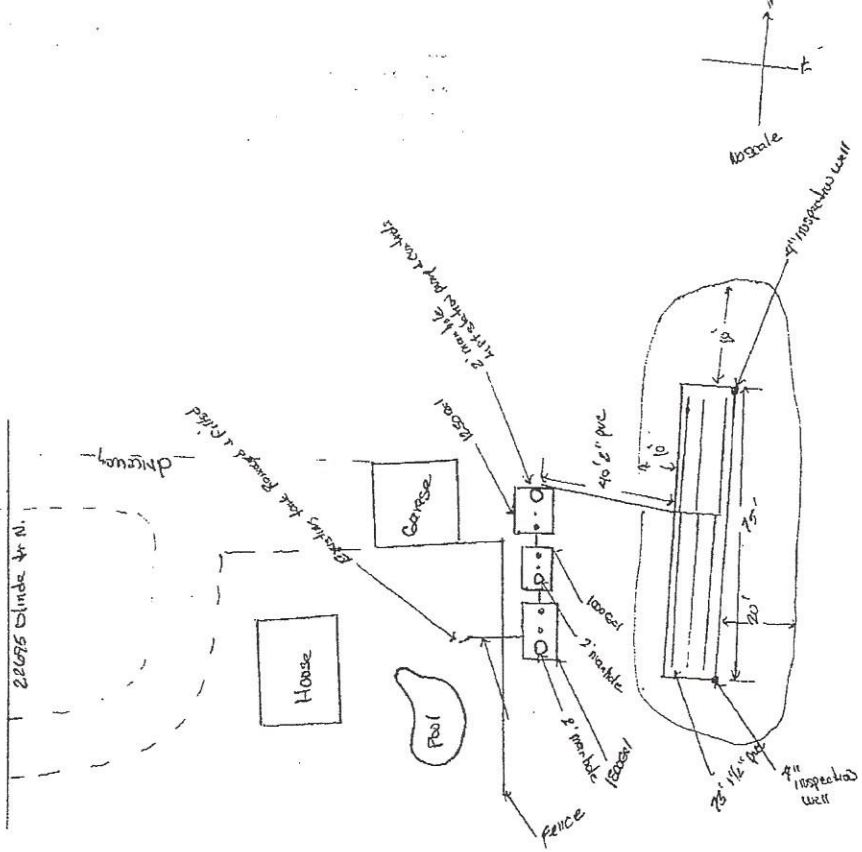
End of boring at feet.
 Standing water table:
 Present at feet of depth, hours after boring.
 Standing water not present in hole .

Depth, In Feet	Boring Number 2
0-----	
0-12"	Topsoil fill
12-20"	Dark-brown sandy loam(3/3)
20-30"	Dark y-brown sandy loam(10YR-4/4), iron-st., light-gray mottles

End of boring at 2.5 feet.
 Standing water table:
 Present at feet of depth, hours after boring.
 Standing water not present in hole .

Depth, In Feet	Boring Number 4
0-----	

End of boring at feet.
 Standing water table:
 Present at feet of depth, hours after boring.
 Standing water not present in hole .



10-18-95
 Installed by C&B Excavating & Sewer Inc
 1-1500 1-1000
 1-1250 Lift Station
 750 sq. ft. Pressure manhole
 12" sand base

Logs of Soil Borings

B-31

Location or Project 22695 Olinda Trl
 Borings made by Steve Peloguin Date 7-28-95
 Classification System: AASHO _____; USDA-SCS ; Unified _____; other _____
 Auger used (check two): Hand , or Power _____; Flight _____, or Bucket ; other _____

Depth, in feet	Boring number <u>1</u> Surface elevation _____	Depth, in feet	Boring number <u>2</u> Surface elevation _____
0	Dk Gray Brn F Sandy loam	0	Dk Gray Brn Fine Sandy loam
1	Dk Brn Fine Sandy loam	1	Lt Gray Brn Fine Sandy loam
2	Red Brn Silt loam	2	few medium distinct mottles.
3	Few Fine Faint mottles.	3	
4		4	
5		5	
6		6	
7		7	
8		8	

End of boring at 4 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole .
 Mottled soil:
 Observed at 3 feet of depth.
 Not present in boring hole _____.
 Observations and comments:

End of boring at 2 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole _____.
 Mottled soil:
 Observed at 1 feet of depth.
 Not present in boring hole _____.
 Observations and comments:

Logs of Soil Borings

B-31

Location or Project 22695, Olinda Tr.
 Borings made by Steve Pelquin Date 7-28-95
 Classification System: AASHO _____; USDA-SCS ; Unified _____; other _____
 Auger used (check two): Hand , or Power _____; Flight _____, or Bucket ; other _____

Depth, in feet	Boring number <u>3</u> Surface elevation _____	Depth, in feet	Boring number <u>4</u> Surface elevation _____
0	DK Gray Brn Fine Sandy loam	0	DK Gray Brn Fine loamy Sand
1	Brn Fine Sandy loam	1	Brn Fine Sandy loam
2	Red Brn Silt loam	2	DK yellow Brn Silt loam
3	Few medium faint Mottles.	3	Few medium distinct Mottles.
4		4	
5		5	
6		6	
7		7	
8		8	

End of boring at 3 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole .
 Mottled soil:
 Observed at 2.5 feet of depth.
 Not present in boring hole _____.
 Observations and comments:

End of boring at 3.5 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole .
 Mottled soil:
 Observed at 2 feet of depth.
 Not present in boring hole _____.
 Observations and comments:



SOIL REVIEW/SEPTIC PERMIT APPLICATION

Washington County Health, Environment & Land Management
14900 61st Street N., P.O. Box 3803
Stillwater, MN 55082-3803

Receipt #21405

FEE PD \$250.00

SEP 24 1995 612/430-6708 or 612/430-6656 FAX 612/430-6730

FOR COUNTY USE ONLY

Make checks payable to WASHINGTON COUNTY TREASURER

\$100 - Application Fee (site review) \$25 - Additional Review Fee (1 hour minimum)
\$100 - Drainfield System Permit Fee \$100 base fee, plus \$50 per lot - Subdivision Fee
\$150 - Mound System Permit Fee

94-95138

Legal Description	Parcel Identification Number	Cec: 11-032-20-14-2003		91011-2355	
Applicant Mark Goodrich	Address 22695 Olinda Trl	City Scandia	State MN	Zip 55073	Phone
Owner (if different from applicant) same	Address	City	State	Zip	Phone 433-2215
Use of Building: None	Number of Bedrooms:	Gallons Per Day:			
Check the following fixture(s) which are or will be installed: Garbage Disposal _____ Recreational Bathing Facility: (jacuzzi, hot tub, etc.) _____					
New System <input checked="" type="checkbox"/> Approval Only <input checked="" type="checkbox"/> Previously Approved _____ Denied _____ Existing System Repair _____ Existing System Alteration _____ Fill Site _____ If this site has been previously approved, please attach a copy of the approval letter					
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; two (2) copies 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.					
Mark S. Goodrich				9-20-95	
Signature of Applicant (Owner or Builder)				Date	

FOR OFFICE USE ONLY

REVIEWS: PLANNER _____ INSPECTOR AT Goodrich DATE 10-2-95

SITE EVALUATION:

Soil Boring Evaluation: Depth of Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:

Soils Map Data:	Percolation Test Evaluation:	<u>40 MPI</u>	
Setbacks:	Required [circle appropriate item(s)]	Actual	
Well (including adjacent property)	50' 75' 100' 150'	1	
Wetland, Pond, Lake, Stream, River, or Bluffline	20' 40' 75' 100' 150'	1	

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

NOTES: Lot Size 5.00 acres Year Built 1966

open yard sloping down to east away from garage
2' to mottles at well bed area down to 12' to
mottles at down slope end.