

ZIERKE SOIL TESTING

Dawn Melcher
8608 122nd St
Hugo, MN 55038

6/23/2019

Dear Dawn Melcher,

At your request, I have conducted a septic inspection to determine the compliance status of your 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. Proper care and maintenance of the system can prolong lifespan – see <https://septic.umn.edu/septic-system-owners> for more information. A copy of this report will be filed with your local unit of government for their records.

Sincerely,



Benjamin Zierke

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

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



Minnesota Pollution Control Agency

520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance Inspection Form
Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms - additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

For local tracking purposes:

System Status

System status on date (mm/dd/yyyy): 6/23/2019

[X] Compliant - Certificate of Compliance
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

[] 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: 8608 122nd St Hugo, MN 55038

Reason for inspection: Sale

Property owner: Dawn Melcher

Owner's phone: 651-439-1858

or

Owner's representative:

Representative phone:

Local regulatory authority: Washington County

Regulatory authority phone: 651-430-6655

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

Comments or recommendations:

All of the tank risers have some root infiltration - the riser on the 1st cover of the 2nd septic tank has the most roots. Alarms (pump and filter) were not working during site visit 6/19/2019. Recommend replacing risers and fixing alarms.

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: Benjamin Zierke

Certification number: C9594

Business name: Zierke Soil Testing

License number: L119

Inspector signature: [Signature]

Phone number: 651-249-1346

Necessary or Locally Required Attachments

- [X] Soil boring logs
[X] System/As-built drawing
[] Forms per local ordinance
[] 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:

Dawn has not had any issues with the 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:

Present for pumping by Olson's Sewer 6/19/2019.

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:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 9/10/2013 Unknown
(mm/dd/yyyy)

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:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	
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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	
"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)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	

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:

Indicate depths or elevations

A. Bottom of distribution media	24" above grade
B. Periodically saturated soil/bedrock	13" below grade
C. System separation	37"
D. Required compliance separation*	36"

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

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: _____ Have the Operating Permit requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the required nitrogen BMP in place and properly functioning?	<input type="checkbox"/> Yes <input type="checkbox"/> No

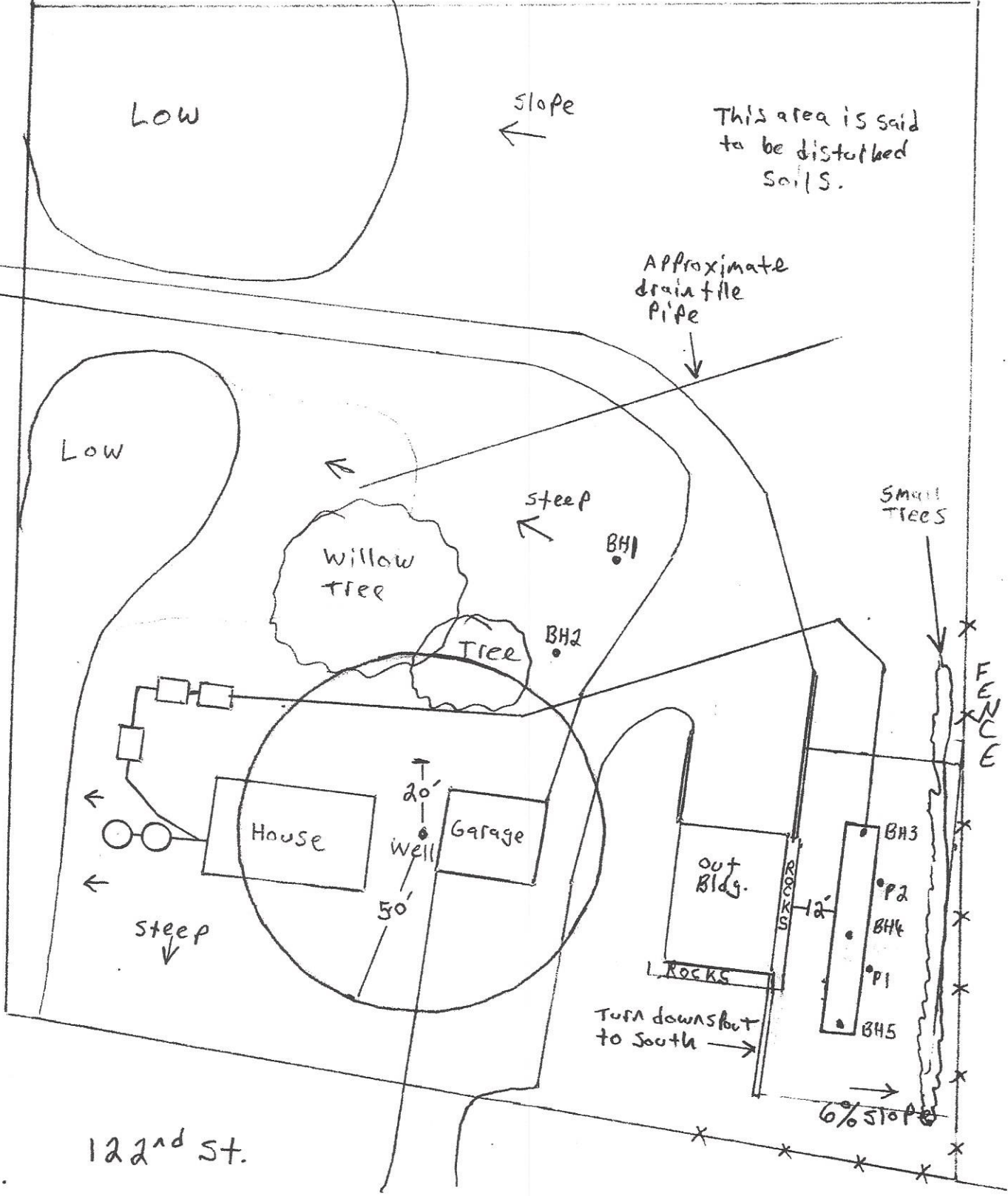
Any "no" answer indicates Noncompliance.

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 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.

Pressurized mound system
10'x60' Rock Bed
24" sand base

8608 122nd St.
Hugo, MN.
Not A Survey
1" = 40' ±
↑
North

Irish Ave.
N



SITE EVALUATION

COUNTY USE ONLY

CHECK ALL THAT APPLY:

EVALUATOR: *P. Garza*

- NEW
- EXISTING
- DWELLING
- SHORELAND
- CLASS V
- COMMERCIAL ESTABLISHMENT
- FBL ESTABLISHMENT
- IN WELLHEAD PROTECTION AREA

PROPERTY ADDRESS:

GEOCODE:

DATE: *6/28/13*

TIME:

SOIL REVIEW

SOIL CLASSIFICATION: _____ PARENT MATERIAL: _____

SOIL BORING 1

SOIL BORING 2

ELEVATION OF BORING: _____ LOCATION: *near B4*

ELEVATION OF BORING: _____ LOCATION: _____

GPS COORDINATES: LAT: _____ LON: _____

GPS COORDINATES: LAT: _____ LON: _____

SOIL BORING 1					SOIL BORING 2				
<input type="checkbox"/> BORING					<input type="checkbox"/> BORING				
<input type="checkbox"/> PIT					<input type="checkbox"/> PIT				
<input type="checkbox"/> PROBE					<input type="checkbox"/> PROBE				
SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES	SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES
<i>0-6</i>	<i>Fine sandy loam</i>	<i>7.5 4/2</i>	<i>sub</i>	<i>N</i>					
<i>8-12</i>	<i>FC</i>	<i>7.5 5/4</i>	<i>sub</i>	<i>N</i>					
<i>14-24</i>	<i>Sandy loam</i>	<i>7.5 5/3</i>	<i>2</i>	<i>4 @ 14"</i>					
				<i>7.5 5/5</i>					
				<i>5/1</i>					

SOIL REVIEW CONCLUSIONS

- SITE SUITABLE
- UNSUITABLE SOIL
- DISTURBED SOIL
- COMPACTED SOIL

DEPTH INFORMATION:		SOIL TEXTURE:
STANDING WATER:	SATURATED SOIL:	SOIL SIZING FACTOR:
BEDROCK:	MAXIMUM DEPTH OF SYSTEM:	LINEAR LOADING RATE:

SITE REVIEW

CHECK ALL THAT APPLY

EASEMENTS ON LOT:

SETBACKS

- WETLAND OR WETLAND VEGETATION
- POND, LAKE, STREAM, RIVER
- FLOODPLAIN
- 10 YEAR FLOOD ELEVATION _____
- BLUFFLINE _____
- WELL WELL CASING DEPTH: _____

- UTILITY
- DRAINAGE
- OTHER

BLUFFLINE
RIVER
POND, LAKE, STREAM, WETLAND
WELL

COMMENTS/NOTES: *near B4*

water at 24" 24" would be required

Dub 24"

Additional Soil Observation Logs



Project ID:

Client / Address:		Legal Description/ GPS:									
Soil parent material(s): (Check all that apply) <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Loess <input checked="" type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter											
Landscape Position: (check one) <input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input checked="" type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope shape linear/concave											
Vegetation		lawn		Soil survey map units		896C		Slope%		7.0	
Weather Conditions/Time of Day:		sunny		9:15 AM		Date		06/15/13			
Observation #/Location: BH2											
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape	Grade	Consistence	Observation Type:	
0-10	Sandy Loam		mixed							<input checked="" type="checkbox"/> Auger <input type="checkbox"/> Probe <input type="checkbox"/> Pit	
10-36	Sandy Loam		5yr 5/3	5yr 5/1	Concentrations		Blocky				
Comments mottles 10" -not in proposed area											
Observation #/Location: BH3											
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape	Grade	Consistence	Observation Type:	
0-8	Fine Sandy Loam		7.5yr 4/1				Blocky			<input type="checkbox"/> Auger <input type="checkbox"/> Probe <input type="checkbox"/> Pit	
8-14	Fine Sandy Loam		7.5yr 5/3				Blocky				
14-36	Sandy Loam		5yr 5/3	5yr 5/1	Concentrations		Blocky				
Comments mottles 14"											

OSTP Soil Observation Log



Project ID: v 12.04.25

Client/ Address: Ron Melcher
 Legal Description/ GPS: 8608 122nd St. N., Hugo, MN

Soil parent material(s): (Check all that apply) Outwash Lacustrine Loess Till Alluvium Bedrock Organic Matter

Landscape Position: (check one) Summit Shoulder Back/Side Slope Foot Slope Toe Slope Slope shape linear/linear

Vegetation lawn Soil survey map units 896C Slope% 6.0 Elevation:

Weather Conditions/Time of Day: sunny 9:45 AM Date 06/15/13

Observation #/Location: BH4 Observation Type: Auger Probe Pit

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape	Grade	Consistence
0-9	Fine Sandy Loam		7.5yr 4/1				Blocky		
9-13	Fine Sandy Loam		7.5yr 5/3				Blocky		
13-36	Sandy Loam		5yr 5/3	5yr 5/1	Concentrations		Blocky		

Comments Mottles 13"

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

Edo
 (Signature)

(License #)

(Date)

Additional Soil Observation Logs



Project ID:

Client / Address: **Ron Melcher** Legal Description / GPS: **8608 122nd St. N., Hugo, MN**

Soil parent material(s): (Check all that apply) Outwash Lacustrine Loess Till Alluvium Bedrock Organic Matter

Landscape Position: (check one) Summit Shoulder Back/Side Slope Foot Slope Toe Slope Slope shape: linear/linear

Vegetation: lawn Soil survey map units: 896C Slope: 6.0 Elevation:

Weather Conditions/Time of Day: sunny 10:00 AM Date: 06/15/13

Observation #/Location: BH5 Observation Type: Auger Probe Pit

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape	Grade	Consistence
0-13	Fine Sandy Loam		7.5yr 4/1				Blocky		
13-36	Sandy Loam		5yr 5/3	5yr 5/1			Blocky		

Comments: Mottles 13"

Observation #/Location: Observation Type: Auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape	Grade	Consistence

Comments: