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# Inspect Minnesota & Midwest Soil Testing

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P.O. Box 10853 White Bear Lake, MN 55110  
651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal  
MPCA Licensed Advanced Inspector

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## SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

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**Date:** April 24, 2019

**Time:** 9:00 AM

**Owner:** Craig & Judy Messner

**Inspection Address:** 2318 Boom Rd, Stillwater, MN 55082

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### REPORT SUMMARY

I have performed an “MPCA Compliance Inspection” on this system, have reviewed the history of the system with the owner, Craig Messner, and have reviewed the original design/permit records on file with the owner. This very old system consists of a cesspool, a pre-cast septic/lift tank, and a rock trench drainfield.

Although not compliance criteria, it should be noted that the septic tank inlet baffle is missing.

My inspection indicates that this system is presently “non-compliant” in accordance with MPCA rules 7080.1500 Subp.4(B) because of cesspool and the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils.

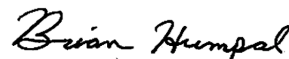
In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact the Washington County Department of Public Health & Environment (651-430-6655) to verify the County’s position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.



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Christopher Uebe



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Brian Humpal



**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

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

For local tracking purposes:

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

### System Status

System status on date (mm/dd/yyyy): 4/24/2019

**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: 2318 Boom Rd, Stillwater, MN 55082

Reason for inspection: Property Transfer

Property owner: Craig & Judy Messner

Owner's phone: 651-361-0970

or

Owner's representative: \_\_\_\_\_

Representative phone: \_\_\_\_\_

Local regulatory authority: Washington County

Regulatory authority phone: 651-430-6655

Brief system description: A cesspool, a pre-cast septic/lift tank, and a rock trench drainfield.

Comments or recommendations:

it should be noted that the drainfield is located in a city easement.

### 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: Brian Humpal/Christopher Uebe

Certification number: C5342/C9852

Business name: Inspect Minnesota, Midwest Soil Testing

License number: L2896

Inspector signature:

Phone number: 651-492-7550

### Necessary or Locally Required Attachments

- Soil boring logs       System/As-built drawing       Forms per local ordinance
- Other information (list): Report Summary, Property Information, Disclaimer, License

Property address: 2318 Boom Rd, Stillwater, MN 55082

Inspector initials/Date: 4/24/2019 *BAU***1. Impact on Public Health – Compliance component #1 of 5****Compliance criteria:**

System discharge sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharge sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System cause 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:  
None of the above found.

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth.	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, which sewage tank(s) leaks:	1 <sup>st</sup> tank

**Any “yes” answer above indicates the system is Failing to Protect Groundwater.**

Comments/Explanation:  
Although not compliance criteria, it should be noted that the septic tank inlet baffle is missing.  
Lift pump and alarm were operational at the time of the inspection.

**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 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:

Property address: 2318 Boom Rd, Stillwater, MN 55082

Inspector initials/Date: 4/24/2019 *BACU*

**4. Soil Separation – Compliance component #4 of 5**

Date of installation: 1997  Unknown  
 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:  Yes  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:  Yes  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)  Yes  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 of elevations**

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

\*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: \_\_\_\_\_  Yes  No  
 Have the Operating Permit requirements been met?
- b. Is the required nitrogen BMP in place and properly functioning?  Yes  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.

<sup>5 of 9</sup>  
**Inspect Minnesota & Midwest Soil Testing**  
**Subsurface Sewage Treatment System Owner/Property Information**

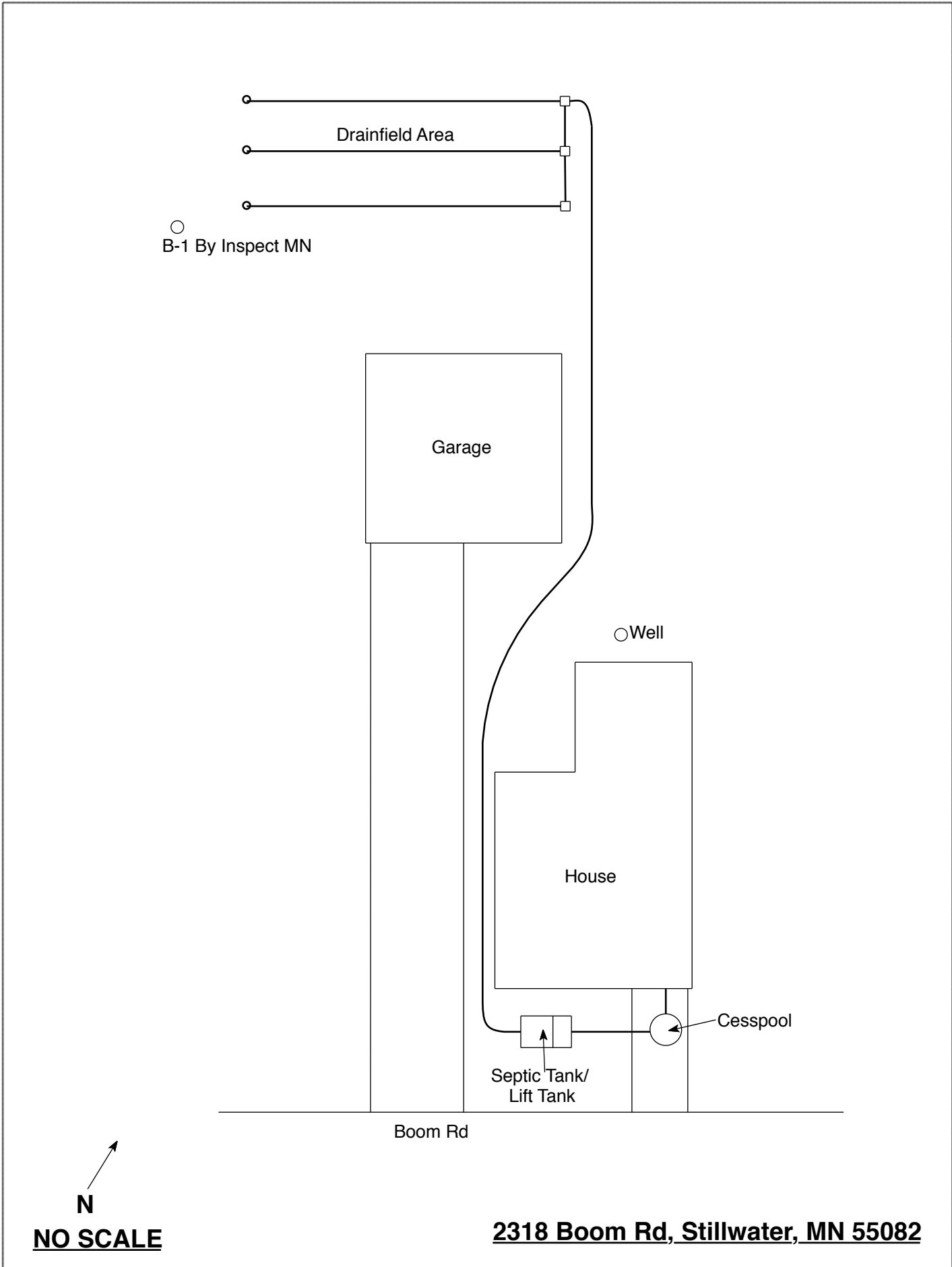
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: April 24, 2019		Time: 9:00 AM	
Property Address: 2318 Boom Rd, Stillwater, MN		Zip: 55082	
Property Owner: Craig & Judy Messner		Phone: 651-361-0970	
<u>Tank(s)</u> <input type="checkbox"/> Septic <input type="checkbox"/> Aerobic <input checked="" type="checkbox"/> Septic/Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other: _____	<u>Tank(s)Material</u> <input type="checkbox"/> Fiberglass <input type="checkbox"/> Plastic <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other _____	<u>Soil Treatment System</u> <input checked="" type="checkbox"/> Rock trench <input type="checkbox"/> Gravelless trench <input type="checkbox"/> Chamber trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade	<u>Other</u> <input type="checkbox"/> Alternative system _____ <input type="checkbox"/> Experimental system _____ <input checked="" type="checkbox"/> Cesspool system <u>1</u> <input type="checkbox"/> Other system _____ _____ _____
Are the tank maintenance covers accessible? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.			
Year house built: 1888	Year septic installed: 1997	Tank size (gals.):	
How long has seller owned the property? 1988		Number of residents in home? 2-3	
Number of bedrooms? 3	Are all floors drained by gravity? Y		
Garbage disposal? N		Whirlpool bath? Y	
More than one system (laundry, etc.)? N			
Does this property have any footing drain tiles connected to the septic system? N			
Are any buildings on this property such as garages or out-buildings connected to this system? Yes, floor drain in a lower garage connected to septic system.			
Are there any additional systems on this property serving other buildings? N			
Location of septic system on lot? Northwest Side			
Location of water well on lot? North Side		Is the well a deep well? Y	
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? N If yes, explain:			
When was the system last pumped? 2015		Name of pumper: Ron's Sewer Service	
How often pumped in previous years? Every 4		Is system on a monitoring plan? N	
Have you received notices from any government agency concerning this system? N			
Is your property located in a shoreland management area? Y			
Do you have any additional information that should be given to the new owner? N			

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant: Craig Messner's Signature On File

Date: 4/24/2019



○  
B-1 By Inspect MN

Drainfield Area

Garage

○Well

House

Cesspool

Septic Tank/  
Lift Tank

Boom Rd

N

**NO SCALE**

**2318 Boom Rd, Stillwater, MN 55082**

## Log Of Soil Borings

Location of Project:		2318 Boom Rd, Stillwater, MN 55082	
Borings Made By:		Inspect Minnesota	Date: 4/24/19
Auger Used:		Hand/Bucket	Classification System: USDA
Boring Number:		1	Boring Number:
Surface Elevation of Boring	Same ground surface as last drainfield trench		Surface Elevation of Boring
Depth In Inches	<u>Soils Encountered</u>		Depth In Inches
0-34	10YR 2/2 Sandy Loam With Gravel ≈15-25% Sandstone Fragments		
34-50	10YR 4/6 Loamy Sand		
50-57	7.5YR 4/3 Silt Loam (Saturated To Moist)		
57-63	7.5YR 4/3 Silt Loam With 7.5YR 5/8 Redox		
	Refusal At 63" Sandstone? (Bedrock)		
57"	Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox
Same	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System
-36"	Depth To Bottom Of Distribution Media		Depth To Bottom Of Distribution Media
=21"	Of Separation		Of Separation
	End Of Boring At: 63"		End Of Boring At:
	Redox Present At: 57"		Redox Present At:
	Standing Water Present At: None		Standing Water Present At:

Bottom Of Distribution Medium At: 36 Inches

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# **DISCLAIMER**

## **Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections**

1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
5. Minimum Compliance Inspection requirements relative to this inspection and this report include only verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1<sup>st</sup> through April 1<sup>st</sup>) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.



# Subsurface Sewage Treatment Systems <sup>9 of 9</sup>

Non-transferable

# Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2019

Issued: 11/20/2018

## Specialty Area(s):

Installer

Maintainer

Service Provider

Advanced Designer

Advanced Inspector

## Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully Installer, Designer (Apprentice)	3/5/2020
C5342	Brian L Humpal Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector	10/15/2023
C9852	Christopher R Uebe Designer, Inspector	3/4/2021

 **MINNESOTA POLLUTION  
CONTROL AGENCY**

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



Nick Haig, Supervisor  
Certification and Training Unit