# **Inspect Minnesota & Midwest Soil Testing**

P.O. Box 10853 White I	Bear Lake, MN 55110		Brian Humpal
651-492-7550/Brian@M	idwestsoiltesting.com	MPCA Licens	ed Advanced Inspector
SUBSURFACE SEWAG	E TREATMENT SYST	TEM (SSTS) CON	<b>IPLIANCE REPORT</b>
Date: May 8, 2018	<b>Time:</b> 3:00 PM	<b>Owner:</b>	
<b>Inspection Address: 2003</b>	Inspection Address: 20033 Quinnell Ave N, Scandia, MN 55073		

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1987) consists of a pre-cast septic tank, a pre-cast lift tank, and a mound. This house is presently vacant.

Although not a compliance criteria, it should be noted that the septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance. In addition, the septic tank is currently due for maintenance pumping and should be pumped when possible.

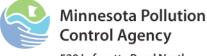
Predicated on my inspection of the system and my review of the original design/permit records, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

Inspect Minnesota and Midwest Soil Testing have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Inspect Minnesota and Midwest Soil Testing disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.

Brian Humpal

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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.	

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

#### System Status

System status on date (mm/dd/yyyy): <u>5/8/2018</u>

#### Compliant – Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

#### ] Noncompliant – Notice of Noncompliance

For local tracking purposes:

(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: 200	33 Quinnell Ave, Scandia, MN 55073	Reason for inspection:	Property Transfer
Property owner:		Owner's phone:	
or			
Owner's representative	Patience Felt, CPM - US Bank	Representative phone:	651-466-8550
Local regulatory authori	ty: Washington County	Regulatory authority pho	ne: 651-430-6655
Brief system description	: A pre-cast septic tank, a pre-cast lift tank	k, and a mound.	

Comments or recommendations:

Although not a compliance criteria, it should be noted that the septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance. In addition, the septic tank is currently due for maintenance pumping and should be pumped when possible.

#### 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	Certification number:	L5342
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signature	: Brian Humpal	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	ion, Disclaimer, License

#### 1. Impact on Public Health – Compliance component #1 of 5

# Compliance criteria: System discharge sewage to the ground surface. Image: Yes image:

#### 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.	🗌 Yes 🖾 No	
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		
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.

#### 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)

Comments/Explanation:

Although not a compliance criteria, it should be noted that the septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance. In addition, the septic tank is currently due for maintenance pumping and should be pumped when possible.

#### 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.  $\Box$  Yes\*  $\boxtimes$  No  $\Box$  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: 1987	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🖾 No	Soil observation does not expire. Pr observations by two independent pa	
Compliance criteria:		unless site conditions have been all	
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	requirements differ. ☐ Conducted soil observation(s) (/ ☐ Two previous verifications (Attac ☐ Not applicable (Holding tank(s), no	ch boring logs)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		<ul> <li>Unable to verify (See Comments/ Other (See Comments/Explanation)</li> </ul>	
Non-performance systems built April 1,	🖾 Yes 🛛 No	Comments/Explanation:	
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed design and permit record	S.
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	🗌 Yes 🗌 No	Indicate depths of elevations	
or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media	See Attached Boring Log(s
Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock	
separation distance from periodically saturated soil or bedrock.		C. System separation	
		D. Required compliance separation*	
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Loca
Operating Permit and Nitrogen B	<b>MP*</b> – Complianc	ce component #5 of 5 🛛 🖂 Not app	licable
s the system operated under an Operating Per			
s the system required to employ a Nitrogen BN		•	
BMP=Best Management Practice(s) specifi		•	
f the answer to both questions is "no",	this section doe	s not need to be completed.	

	Operating Permit number: 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.

**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, 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.* 

# Inspect Minnesota & Midwest Soil Testing

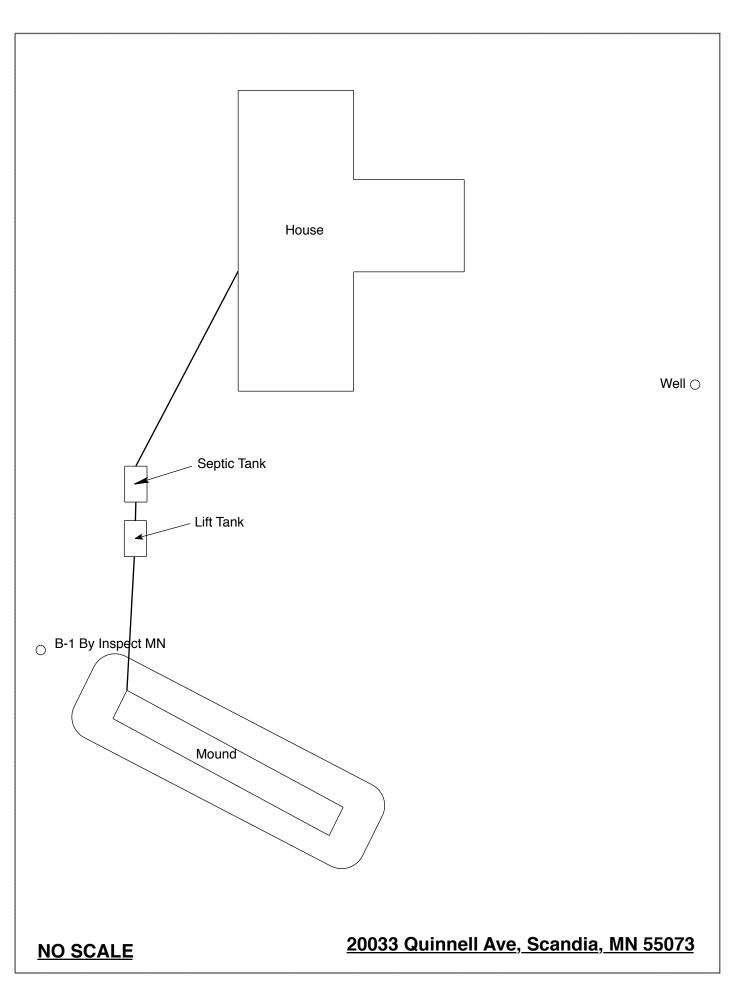
#### Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 8, 2018	Time: 3:00 PM		
Property Address: 20033 Quinnell Ave, Scandia, MN	Zip: 55073		
Property Owner:	Phone:		
Tank(s)         Tank(s)Material         Soil Treatment System	Other		
Septic 1 Fiberglass Rock trench	Alternative system		
Aerobic Plastic Gravelless trench	Experimental system		
⊠Lift□Metal□Chamber trench□Holding⊠Concrete□Seepage bed	Cesspool system Other system		
Other: Block Mound			
Other At-grade			
Are the tank maintenance covers accessible? $\Box$ Yes $\boxtimes$ No *If	no, proper maintenance must be		
performed through the maintenance holes. Maintenance hole cover			
the ground surface to facilitate access and proper maintenance of t	he system.		
Year house built: 1929 Year septic installed: 1987	Tank size (gals.): 1250		
How long has seller owned the property? Number of re	sidents in home?		
Number of bedrooms?         Are all floors drained by groups			
Garbage disposal? Whirlpool bath?			
More than one system (laundry, etc.)? N			
Does this property have any footing drain tiles connected to the se	ptic system?		
Are any buildings on this property such as garages or out-building	s connected to this system?		
Are there any additional systems on this property serving other by	Are there any additional systems on this property serving other buildings? Unknown		
Are there any additional systems on this property serving other ou	nungs? Onknown		
Lagation of gontia gystem on lat? West Side			
Location of septic system on lot? West SideLocation of water well on lot? South SideIs the	e well a deep well? Y		
Have you ever experienced any problems with the system such as:	1		
surfacing of sewage onto the ground, septic tank overflowing, etc.			
to the system? If yes, explain:	, of have any repuirs seen made		
When was the system last pumped? Unknown Name of pum	per: Unknown		
	on a monitoring plan?		
Have you received notices from any government agency concerning			
Is your property located in a shoreland management area? N			
Do you have any additional information that should be given to th	e new owner?		

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:



## Log Of Soil Borings

Locat	ion of Project:	20033 Quinnell Ave,	Scandia, MN	V 55073	
		Inspect Minnesota		Date:	5/8/18
		Hand/Bucket	Classif	fication System:	USDA
Bo	pring Number:			Boring Number:	
Surface Elevation of Boring	+38 below	top of mound on inal contour	Surface Elevation c Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered
0-12 12-21 21-28	7.5YR 2.5/ Unconsoli Refu	Medium Sand '3 Medium Sand idated Bedrock sal At 28" edrock			
21" De	pth To End Of B	oring Or Bedrock	C	Depth To End Of Bo	oring Or Redox
+38" Ele	evation Of Boring	g Below Top Of Mound	E	Elevation Of Boring	Relative To System
	pth To Bottom ( Separation	Df Distribution Media		Depth To Bottom C Df Separation	f Distribution Media
En	d Of Boring At:	28"		End Of Boring At:	
	ock Present At:	21"		Redox Present At:	
	ater Present At:	None		Water Present At:	

Bottom Of Distribution Medium At: 27 Inches

WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

in feet 3" Holdish Brown Fine Silt 4" - Addish Brown Fine Silt 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	in       fin       feet         in       feet       feet         in		ade by BeiAn KemNA / Chuck Ja	II	
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WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location M. Russell #108-166 Borings made by Buch Kenna Date <u>4-17-84</u> Depth, Boring number Depth, Boring number in in feet feet " - Reddish Brown Silty Lorn " - Reddish Brown Fine Silt 11" - Reddish Brown Fire Silt 1 ----2 20" + Reddish Brown fine Silty Strand 3 -----3'4" yellowish Beown shout led Sondstone 4"10" + End-Leipge Stores 6 — 8 ----End of boring at 4'16'' feet. End of boring at  $2^{1}-3^{4}$ feet. Standing water table: Standing water table: Present at \_\_\_\_\_ feet of depth, Present at feet of depth, hours after boring. hours after boring. Not present in boring hole 🛛 🗶 Not present in boring hole  $\chi$ . Mottled soil: Mottled soil: Observed at feet of depth. Observed at \_\_\_\_\_ feet of depth. Not present in boring hole . Not present in boring hole K Observations and comments: Observations and comments:

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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 <u>only</u> 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 Non-transferable Business License

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# Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

# Specialty Area(s):

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

# **Designated Certified Individual(s):**

Cert #	Name	<b>Certification Expires:</b>
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional	)
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov	, Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	

# MINNESOTA POLLUTION CONTROL AGENCY

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

Charles K Thompson, Supervisor Certification & Training Unit