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## **Inspect Minnesota & Midwest Soil Testing**

P.O. Box 10853 White E	Bear Lake, MN 55110	Brian Humpal					
651-492-7550/Brian@M	idwestsoiltesting.com	MPCA Licensed Advanced Inspector					
SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT							
Date: May 23, 2018Time: 11:30 AMOwner: Glen Connell							
Inspection Address: 7395 Pinehurst Ct, Pine Springs, MN 55115							

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Glen Connell, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1977) consists of a pre-cast septic tank and a rock trench drainfield. An additional five trenches were installed in 1987. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the original design/permit records, it is my opinion that this system presently meets 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 Brian Humpal

	Minnesota Pollution Control Agency	Comp
-	520 Lafayette Road North	Existing Su
	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): \_\_\_\_5/23/2018

#### 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

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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:	7395 Pinehurst Ct, Pine Springs, MN 55115	Reason for inspection: Property Transfer
Property owner: 0	Glen Connell	Owner's phone: 612-437-7302
or		
Owner's representat	ive:	Representative phone:
Local regulatory aut	hority: Washington County	Regulatory authority phone: 651-430-6655
Brief system descrip		consists of a pre-cast septic tank and a rock trench drainfield. d in 1987.
Comments or recom	imendations:	

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	e: Brian Humpal	Phone number:	651-492-7550			
Necessary or Locally Required Attachments						
🛛 Soil boring lo	gs 🛛 System/As-built drawing	🗌 Forms per local ordinan	ce			
Other information	ation (list): Report Summary, Property Informat	ion, Disclaimer, License				

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

Compliance criteria:	
System discharge sewage to the ground surface.	🗌 Yes 🖾 No
System discharge sewage to drain tile or surface waters.	🗌 Yes 🛛 No
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No
Any "yos" answor aboyo indicato	e the system is

*Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.* 

#### 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)

#### Comments/Explanation:

A soil boring over the dainfield indicated no signs of ponding or black/grey soils.

#### 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.

Comments/Explanation:

Lowered underwater camera into tank - baffles and tank walls OK.

#### Verification method(s):

- Probed tank(s) bottomExamined 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 uns	sound.	🗌 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: 1977/1987	Unknown	Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	🛛 Yes 🗌 No	Soil observation does not expire. Previous soil			
Compliance criteria:		observations by two independent parties are sufficient, unless site conditions have been altered or local			
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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No	<ul> <li>requirements differ.</li> <li>Conducted soil observation(s) (Attach boring logs</li> <li>Two previous verifications (Attach boring logs)</li> <li>Not applicable (Holding tank(s), no drainfield)</li> <li>Unable to verify (See Comments/Explanation)</li> <li>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	ls.		
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	1		
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 i _ Ordinance.	f allowed by Local		
Operating Permit and Nitrogen B	<b>MP*</b> – Complianc	e component #5 of 5 🛛 🛛 Not app	licable		
s the system operated under an Operating Perr	mit? 🗌 Yes	$\boxtimes$ No If "yes", A below is required			
s the system required to employ a Nitrogen BM	P?	$\boxtimes$ No $\;$ If "yes", B below is required			
BMP=Best Management Practice(s) specifi	ied in the system de	sign			

#### 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

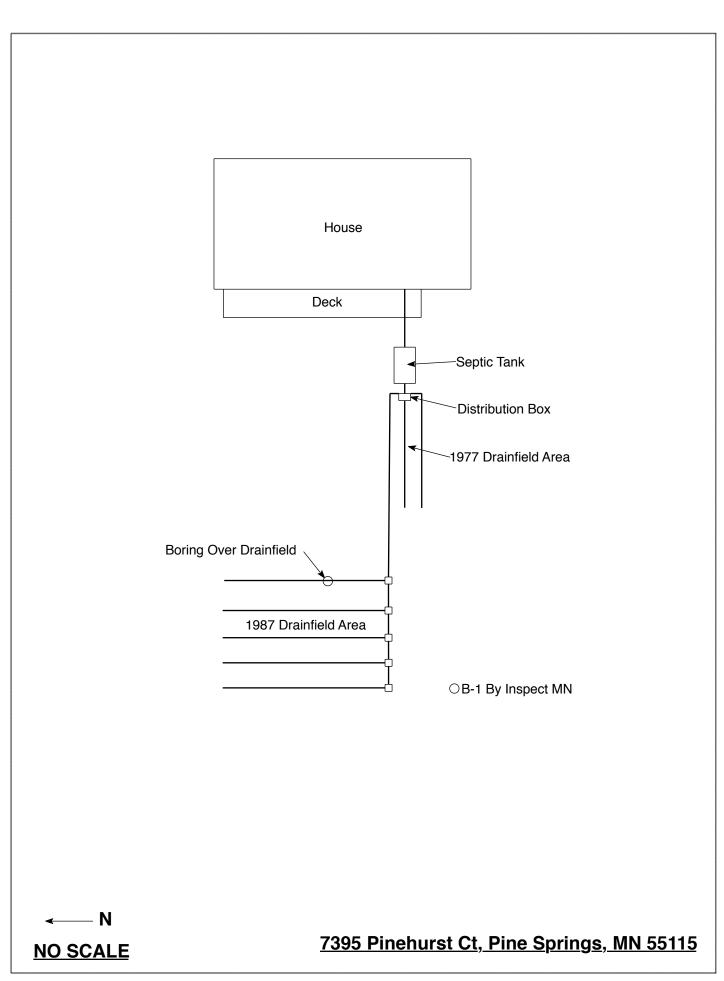
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: May 23, 2018	Time: 11:30 AM					
Property Address: 7395 Pinehurst Ct, Pine Springs	s, MN Zip: 55115					
Property Owner: Glen Connell	Phone: 612-437-7302					
1 5	atment System Other					
$\boxed{\square Septic 1} \qquad \boxed{\square Fiberglass} \qquad \boxed{\square Rock}$						
	elless trench Experimental system					
	age bed  Cesspool system					
Other: Block						
Other At-gr	ade					
Are the tank maintenance covers accessible?	s $\boxtimes$ No *If no, proper maintenance must be					
performed through the maintenance holes. Mainten						
the ground surface to facilitate access and proper m						
Year house built: 1977 Year septic installed	: 1977/1987 Tank size (gals.): 1500?					
How long has seller owned the property? 1992	Number of residents in home? 2-4					
	s drained by gravity? Y					
	/hirlpool bath? N					
More than one system (laundry, etc.)? N	•					
Does this property have any footing drain tiles conr	ected to the septic system? N					
Are any buildings on this property such as garages or out-buildings connected to this system? N						
Are there any additional systems on this property se	erving other buildings? N					
The there any additional systems on ans property se	a ving other oundings: 10					
Location of septic system on lot? West Side						
Location of water well on lot? East Side	Is the well a deep well? Y					
Have you ever experienced any problems with the s						
surfacing of sewage onto the ground, septic tank ov						
to the system? Y If yes, explain:Replaced cast iron						
When was the system last pumped? 2015 Name of pumper: Pinky's Sewer Service						
How often pumped in previous years? Every 2	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						
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: Glen Connell's Signature On File

Date: 5/23/2018



### Log Of Soil Borings

Location of Project: 7395 Pinehurst Ct, Pine Springs, MN 55115					
		Inspect Minnesota		Date:	5/23/18
		Hand/Bucket	Classif	ication System:	USDA
Bo	oring Number:	1	E	Boring Number:	
Surface Elevation of Boring	Same grou	und surface as last nfield trench	Surface Elevation o Boring		
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	<u>Soils Er</u>	ncountered
0-9 9-20 20-29 29-56 56-75	10YR 3 10YR 3/4 10YR 4/4 M 7.5YR 4/4 L 10YR 4/4 Mediu Gravel ≈10% F	Medium Sand /4 Silt Loam Medium Sand edium Sand With amellae Banding Mcoarse Sand With Rock Fragments And amellae Banding			
75" De	epth To End Of B	oring Or Redox	D	epth To End Of Bo	oring Or Redox
Same Ele	evation Of Borin	g Relative To System	E	levation Of Boring	g Relative To System
	epth To Bottom ( Separation	Of Distribution Media		Pepth To Bottom C of Separation	of Distribution Media
Er	nd Of Boring At:	75"	E	End Of Boring At:	
	dox Present At:	None		Redox Present At:	
Standing Wa	ater Present At:	None	Standing V	Water Present At:	

Bottom Of Distribution Medium At: 35 Inches

#### 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

# 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):**

Name	Certification Expires:
Anthony P Scully	7/28/2018
Installer, Designer (Conditional	1)
Brian L Humpal	10/15/2020
Installer, Maintainer, Serv Prov	, Adv Designer, Adv Inspector
Christopher R Uebe	3/4/2018
Designer, Inspector	
	Anthony P Scully Installer, Designer (Conditional Brian L Humpal Installer, Maintainer, Serv Prov Christopher R Uebe

### MINNESOTA POLLUTION CONTROL AGENCY

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

Charles K Thompson, Supervisor Certification & Training Unit