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

P.O. Box 10853 White Be	Brian Humpal					
651-492-7550/Brian@Mid	MPCA Licensed Advanced Inspector					
SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT						
Date: February 5, 2019	<b>Time:</b> 9:00 AM	<b>Owner:</b> Catherine Carbone				
Inspection Address: 443 Quinlan Ave N, Lakeland, MN Site Conditions: 2" Snow 36" Frost						

#### **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 system consists of two pre-cast septic tanks and a rock trench drainfield.

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.

Christopher Uebe

Brian Humpal

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

<b>Instructions:</b> 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):2/5/2019						
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)						
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 three	eat to public health and safety					
☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwat	er					
Other Compliance Conditions (Compliance Component #3) – Failing to pro	tect groundwater					
Soil Separation (Compliance Component #4) – Failing to protect groundwa	ater					
Operating permit/monitoring plan requirements (Compliance Component #	t5) – Noncompliant					

#### **Property Information**

Parcel	ID# or	Sec/Twp/Range:	

Property address:	443 Quinlan Ave N, Lakeland, MN 55043	Reason for inspection: Property Transfer
Property owner:	Catherine Carbone	Owner's phone:
or		
Owner's represent	ative:	Representative phone:
Local regulatory a	uthority: Washington County	Regulatory authority phone: _651-430-6655
Brief system desci	iption: Two pre-cast septic tanks and a rock tre	nch drainfield.
Commonto or room	mmandationa	

Comments or recommendations:

#### Certification

wq-wwists4-31 • 1/24/12

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:	С	C5342/C9852		
Business name:	Inspect	Minnesota, M	lidwe	st Soil Testing			License number:	L	2896
Inspector signatur	re:	Brian ;	Hu	mpal After	_//	l	Phone number:	6	51-492-7550
Necessary or	Locall	y Require	d A	ttachment	S				
🛛 Soil boring lo	ogs	🛛 Syst	em/A	s-built drawing	J		Forms per local ordinar	nce	
🛛 Other inform	ation (list	): Report S	Sumn	nary, Property I	nform	mation, Dis	claimer, License		
www.pca.state.mn.	us •	651-296-6300	•	800-657-3864	•	TTY 651-2	82-5332 or 800-657-3864	•	Available in alternative formats

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

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🛛 No	<ul><li>Searched for surface outlet</li><li>Searched for seeping in yard/backup in home</li></ul>
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	<ul> <li>Excessive ponding in soil system/D-boxes</li> <li>Homeowner testimony (See Comments/Explanation)</li> <li>"Black soil" above soil dispersal system</li> </ul>
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	<ul> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>
Any "yes" answer above indicate an Imminent Threat to Public Hea		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>
Comments/Explanation:		

#### 2. Tank Integrity - Compliance component #2 of 5

Compliance criteria:		Verification method(s):
System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes 🛛 No	<ul> <li>Probed tank(s) bottom</li> <li>Examined construction records</li> </ul>
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🖾 No	<ul> <li>Observed liquid level below operating depth</li> <li>Examined empty (pumped) tanks(s)</li> </ul>
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
Any "yes" answer above indic system is Failing to Protect G		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>

Comments/Explanation:

None of the above found.

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

#### 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. \*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: 2012	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. observations by two independent	
Compliance criteria:		unless site conditions have been requirements differ.	
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>Conducted soil observation(s)</li> <li>Two previous verifications (At</li> <li>Not applicable (Holding tank(s),</li> <li>Unable to verify (See Comment</li> <li>Other (See Comments/Explanati</li> </ul>	tach boring logs) no drainfield) s/Explanation)
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	Comments/Explanation: Reviewed design and permit reco	rds.
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	A. Bottom of distribution media	See Attached Boring Log(s)
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		<ul> <li>B. Periodically saturated soil/bedrock</li> <li>C. System separation</li> </ul>	
Any "no" answer above indicates th	he system is	D. Required compliance separation* *May be reduced up to 15 percent	t if allowed by Loca
Failing to Protect Groundwater.	-	Ordinance.	
Operating Permit and Nitrogen B	MD* Complian	ce component #5 of 5 🛛 🖂 Not ap	nlicabla
			•
s the system operated under an Operating Perr s the system required to employ a Nitrogen BM		■ No If "yes", A below is required	
			<i>.</i>
BMP=Best Management Practice(s) specifi	-	-	
If the answer to both questions is "no",	this section doe	es not need to be completed.	
Compliance criteria			
a. Operating Permit number:		Yes No	

b. Is the required nitrogen BMP in place and properly functioning?

#### 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.

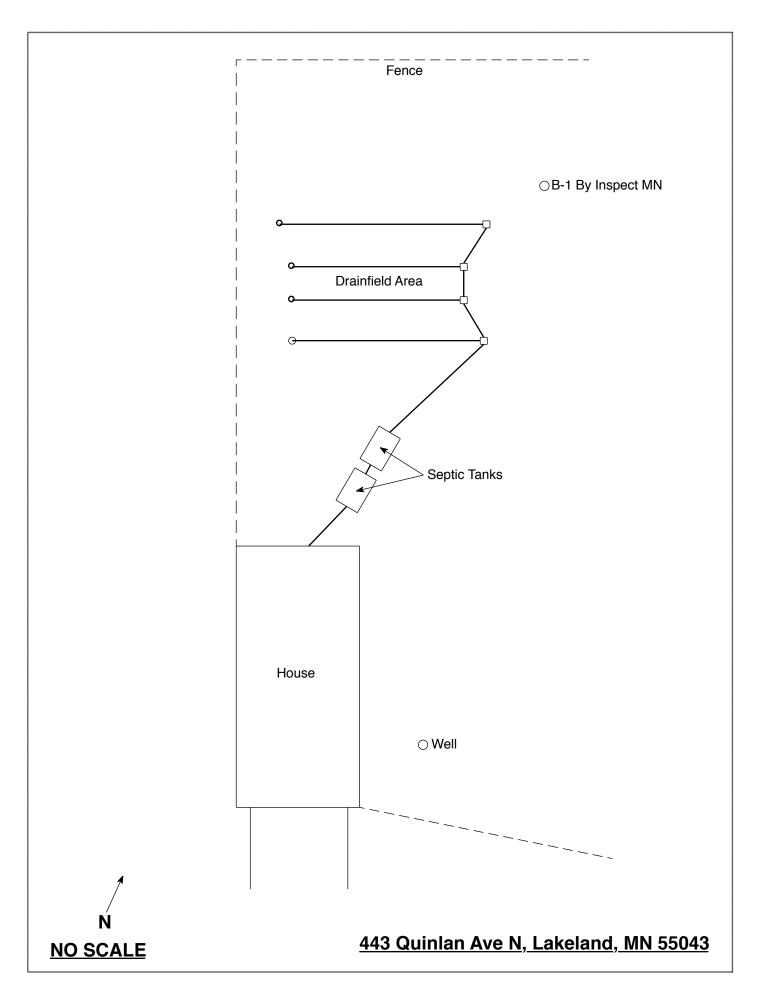
## Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: February 5, 2019	Time: 9:00 AM					
Property Address: 443 Quinlan Ave N, Lakeland	MN Zip: 55043					
Property Owner: Catherine Carbone	Phone:					
Tank(s)     Tank(s)Material     Soil Tr       Septic 2     Fiberglass     Roc       Aerobic     Plastic     Gra       Lift     Metal     Cha	eatment System       Other         k trench       Alternative system         velless trench       Experimental system         mber trench       Cesspool system         page bed       Other system         ind					
Are the tank maintenance covers accessible? $\boxtimes$ Y performed through the maintenance holes. Maintee the ground surface to facilitate access and proper m	nance hole covers should be made accessible to					
Year house built: 1956 Year septic installed						
How long has seller owned the property?	Number of residents in home?					
	rs drained by gravity? Lower Pumped					
	Whirlpool bath?					
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles connected to the septic system? Are any buildings on this property such as garages or out-buildings connected to this system?						
Are there any additional systems on this property s	erving other buildings?					
Location of septic system on lot? North Side						
Location of water well on lot? Northeast Side	Is the well a deep well? Y					
Have you ever experienced any problems with the surfacing of sewage onto the ground, septic tank or to the system? If yes, explain:	• • •					
When was the system last pumped? 2016	Name of pumper: Pinky's Sewer Service					
How often pumped in previous years?	Is system on a monitoring plan?					
Have you received notices from any government a						
Is your property located in a shoreland management						
Do you have any additional information that shoul	d be given to the 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:	443 Quinlan Ave N, L	akeland, M	N 55043	
		Inspect Minnesota		Date:	2/5/19
		Hand/Bucket	Classification System: USDA		
Bo	oring Number:	1		Boring Number:	
Surface Elevation of Boring	Same grou	und surface as last infield area	Surface Elevation o Boring		
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	Soils En	countered
0-10 10-34 34-68	10YR 3/3 10YR 3/4 Mediu ≈25% Re	2 Loamy Sand Medium Sand um Sand With Gravel ock Fragments Isal At 68"			
68" De	pth To End Of B	oring Or Redox	0	Depth To End Of Bo	oring Or Redox
Same Ele	evation Of Borin	g Relative To System	E	Elevation Of Boring	Relative To System
	epth To Bottom ( Separation	Of Distribution Media		Depth To Bottom O Df Separation	f Distribution Media
Er	nd Of Boring At:	68"		End Of Boring At:	
	dox Present At:	Same		Redox Present At:	
Standing Wa	ater Present At:	Same	Standing	Water Present At:	

Bottom Of Distribution Medium At: 36 Inches

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		1.464 72 620 U UU127 J	PALINA TO 26 1 BALINA TO 26 1 BALINA MENUALSAND	KEN BACK	21- 2 - 5 - · ·	
LOG OF SOIL BORINGS	, V	5Į 7	4621 MM 70 2033 322 - N 10151 - M 50 M		5 1 4 3	
		344-70/5000	MUDIUM ROLLS MENING COME SAND MUDELE ICHEND		RED BLOW CHEDIAN TO CLARSE SAND	
1000 - 1 - 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			63		

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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

Inspect Minnesota, Midwest Soil Testing

License Expires: 12/22/2019

Issued: 11/20/2018

**Specialty Area(s):** 

License # L2896

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

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

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

## MINNESOTA POLLUTION CONTROL AGENCY

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

Nich Haig

Nick Haig, Supervisor Certification and Training Unit