Inspect Minnesota & Midwest Soil Testing

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

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: February 18, 2019 **Time:** 11:00 AM Owner: David Zanmiller

Inspection Address: 154 Quinlan Ave S, Lakeland Shores **Site Conditions:**10" Snow 24" 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 older system (installed in 1992) consists of a pre-cast septic tank 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 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.

Christopher Uebe

Brian Humpal

Brian Humpal



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): _2/18/2019		
	npliant – Notice of Noncompliance rade Requirements on page 3)	
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent threat to Tank Integrity (Compliance Component #2) – Failing to protect groundwate Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate Soil Separation (Compliance Component #4) – Failing to protect groundwate Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er stect groundwater ater	
Property Information Parcel ID# or Sec/Twp/Range	ae:	
	or inspection: Property Transfer	
•	phone: 651-492-7327	
Owner's representative: Represen	stative phone:	
	Representative phone:	
Brief system description: A pre-cast septic tank and a rock trench drainfield.		
Comments or recommendations:		
Certification		
I hereby certify that all the necessary information has been gathered to determine the of determination of future system performance has been nor can be made due to unknow possible abuse of the system, inadequate maintenance, or future water usage.		
Inspector name: Brian Humpal/Christopher Uebe Certification	on number: <u>C5342/C9852</u>	
	se number: L2896	
Inspector signature: Brian Humpal Affin Ma Pho	ne number: 651-492-7550	
Necessary or Locally Required Attachments		
	local ordinance	
☐ Other information (list): Report Summary, Property Information, Disclaimer, Lic		

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Property address: _ 154 Quinlan Ave S, Lakeland Shores, MN 55043

Inspector initials/Date: 2/18/2019

1.	Impact on Public Health – Compliance component #1 of 5				
	Compliance criteria:		Verification method(s):		
_	System discharge sewage to the ground surface.	☐ Yes ⊠ No	☒ Searched for surface outlet☒ Searched for seeping in yard/backup in home		
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system 		
-	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	System requires "emergency" pumping Performed dye test		
	Any "yes" answer above indicates an Imminent Threat to Public Heat		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
	Comments/Explanation: None of the above found.				
2.	Tank Integrity — Compliance con	nponent #2 of 5			
	Compliance criteria:		Verification method(s):		
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☑ Probed tank(s) bottom☑ Examined construction records		
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ☐ No	Examined empty (pumped) tanks(s)Probed outside tank(s) for "black soil"		
	If yes, which sewage tank(s) leaks:		Unable to verify (See Comments/Explanation)		
	Any "yes" answer above indicates the system is Failing to Protect Groundwater. Comments/Explanation:		☐ Other methods not listed (See Comments/Explanation)		
	Lowered underwater camera into tank - baffles and tank walls OK.				
_					
<u>3.</u>	Other Compliance Conditions	·			
	_		, 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 ☐ Unkno *System is an imminent threat to public health and safety				
	Explain:				
	c. System is non-protective of ground wa *System is failing to protect ground		s as determined by inspector ☐ Yes* ☒ No		
	Explain:				

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Prope	erty address: 154 Quinlan Ave S, Lakeland S	hores, MN 55043	Inspector initials/Date: 2/	18/2019 BH (M	
4. Soil Separation — Compliance component #4 of 5					
	Date of installation: 1992 Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria:	☐ Unknown ☐ Yes ⊠ No	Verification method(s): Soil observation does not expire. Previous so observations by two independent parties are unless site conditions have been altered or lo	arties are sufficient,	
	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	requirements differ. Conducted soil observation(s) (Two previous verifications (Atta Not applicable (Holding tank(s), n Unable to verify (See Comments) Other (See Comments/Explanation	ch boring logs) no drainfield) /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 records.	ds.	
	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.		B. Periodically saturated soil/bedrock C. System separation D. Required compliance separation*		
_	Any "no" answer above indicates the Failing to Protect Groundwater. Operating Permit and Nitrogen Ba		*May be reduced up to 15 percent i Ordinance. omponent #5 of 5 Not app	·	
	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.				
- -	a. Operating Permit number: Have the Operating Permit requirements but Is the required nitrogen BMP in place and Any "no" answer indicates Noncomp	properly functioning?	☐ Yes ☐ No		

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.

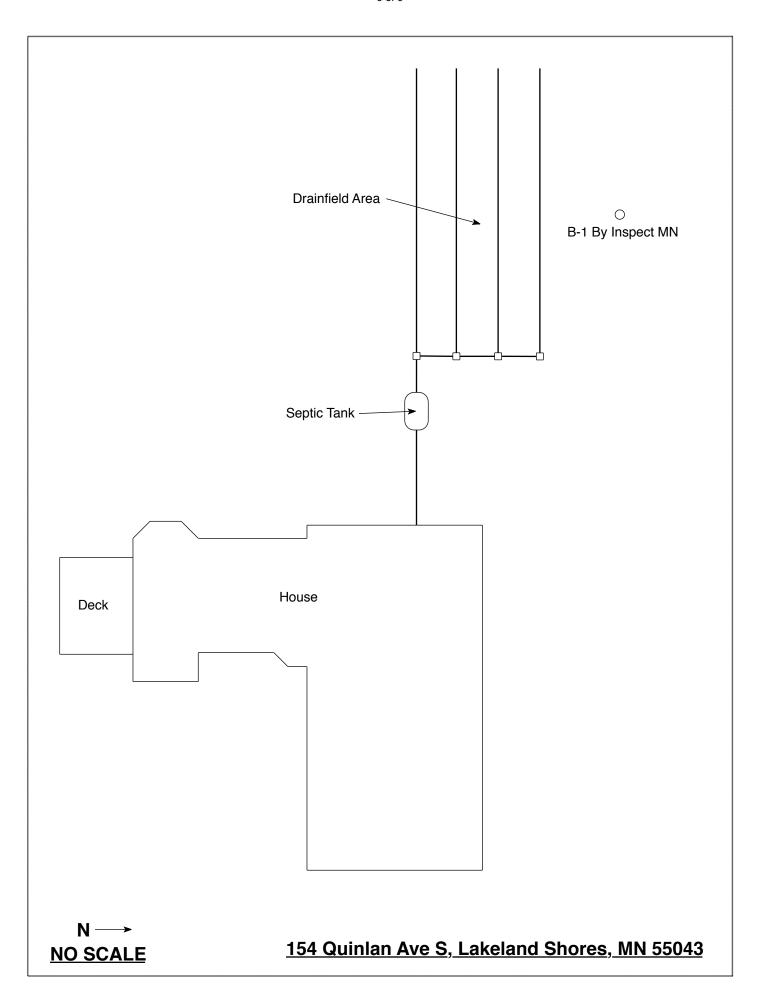
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

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Date of Inspection: February 18, 2019	Time: 11:00 AM			
Property Address: 154 Quinlan Ave S, Lakeland Shores, MN	Zip: 55043			
Property Owner: David Zanmiller	Phone: 651-492-7327			
Tank(s) Tank(s)Material Soil Treatment System Septic 1				
the ground surface to facilitate access and proper maintenance of				
Year house built: 1992 Year septic installed: 1992	Tank size (gals.): 1250			
	residents in home?			
Number of bedrooms? 4 Are all floors drained by	gravity? Y			
Garbage disposal? Whirlpool bath				
More than one system (laundry, etc.)?				
Does this property have any footing drain tiles connected to the s	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 serving other b	uildings?			
Location of septic system on lot? West Side				
	ne well a deep well? N/A			
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? If yes, explain:				
	mper: Meyers Sewer Service			
	m on a monitoring plan?			
Have you received notices from any government agency concerning this system?				
Is your property located in a shoreland management area? N				
Do you have any additional information that should 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.				

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:	Date:



Log Of Soil Borings

Location of Project: 154 Quinlan Ave S, Lakeland Shores, MN 55043					
Borings Made By: Inspect Minnesota				Date:	2/18/19
Auger Used: Hand/Bucket				USDA	
Boring Number: 1			Boring Number:		
Elevation Boring	l drainfield trench		Surface Elevation of Boring	of	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered
0-6 6-51 51-62	10YR 3/4	Medium Sand Medium Sand Medium Sand			
62"	Depth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
Same	Elevation Of Boring	g Relative To System	E	Elevation Of Boring	Relative To System
-36" Depth To Bottom Of Distribution Media				of Distribution Media	
≥26"	Of Separation			Of Separation	
	End Of Boring At:	62"		End Of Boring At:	
	Redox Present At:	None		Redox Present At:	
Standing	Water Present At:	None		Water Present At:	
Julianig	Water Frederic At.	None	Standing	Water Frederic At.	

Bottom Of Distribution Medium At:	

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 1st through April 1st) 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: 12/22/2019

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	3/5/2020
	Installer, Designer (Apprentice)	, v , v
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	



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

Nick Haig, Supervisor Certification and Training Unit