Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Date: April 27, 2017 Time: 8:00 AM Owner: Mark Kuschke

Inspection Address: 9260 84th St N, Grant, MN 55080

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system. This very old system (installed in approximately 1975) consists of a pre-cast septic tank and a rock trench drainfield.

It should be noted that a soil boring over the drainfield indicated ponding and grey soils above the drainfield rock. These are indicators that the drainfield is nearing the end of its useful life.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(E) because of the lack of the required two 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 Washington County Environmental Specialist, Mr. Chris LeClair (651-430-4052), to verify the County's position.

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

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):4/27/2017			
· · · · · · · · · · · · · · · · · · ·	npliant – Notice of Noncompliance grade 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 the Tank Integrity (Compliance Component #2) – Failing to protect groundware Other Compliance Conditions (Compliance Component #3) – Failing to protect groundware Soil Separation (Compliance Component #4) – Failing to protect groundware Operating permit/monitoring plan requirements (Compliance Component	reat to public health and safety ter otect groundwater vater		
Property Information Parcel ID# or Sec/Twp/Ran	ge:		
	or inspection: Property Sale		
• •	phone: 651-230-0484		
or			
•	ntative phone:		
Local regulatory authority: Washington County Regulator	Regulatory authority phone: 651-430-4052		
Brief system description: A pre-cast septic tank and a rock trench drainfield.			
Comments or recommendations: It should be noted that a soil boring over the drainfield indicated ponding and grey soil indicators that the drainfield is nearing the end of its useful life.	s above the drainfield rock. These are		
Certification			
I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.			
Inspector name: Brian Humpal Certifica	ion number: <u>L5342</u>		
Business name: Inspect Minnesota, Midwest Soil Testing Lice	nse number: L2896		
20	one number: 651-492-7550		
Necessary or Locally Required Attachments			
	local ordinance		
	local ordinance		
☑ Other information (list): Report Summary, Property Information, Disclaimer, Li	CELISE		

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Property address: 9260 84th St N, Grant, MN 55082

Inspector initials/Date: 4/27/2017

1.	lm	npact on Public Health – Cor	mpliance component	#1 of 5		
	Co	ompliance criteria:		Verification method(s):		
		stem discharge sewage to the bund surface.	☐ Yes ⊠ No	☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home		
		stem discharge sewage to drain tile surface waters.	☐ Yes ⊠ No	 ☑ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation) 		
		stem cause sewage backup into elling or establishment.	☐ Yes ⊠ No	 ☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping 		
		Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.		 □ Performed dye test □ Unable to verify (See Comments/Explanation) □ Other methods not listed (See Comments/Explanation) 		
	It s	omments/Explanation: should be noted that a soil boring over dicators that the drainfield is nearing th		ponding and grey soils above the drainfield rock. These are		
2.	Ta	ank Integrity – Compliance con	nponent #2 of 5			
	Compliance criteria:			Verification method(s):		
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes ⊠ No	☑ Probed tank(s) bottom☐ Examined construction records		
	Se	epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.		 ☐ Examined Tank Integrity Form (Attach) ☐ Observed liquid level below operating depth 		
		ewage tank(s) leak below their signed operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil"		
	lf y	es, which sewage tank(s) leaks:		☐ Unable to verify (See Comments/Explanation)		
		ny "yes" answer above indica stem is Failing to Protect Gr		☐ Other methods not listed (See Comments/Explanation)		
	Comments/Explanation:					
	Lowered underwater camera into the tank - baffles and tank walls OK.			IIS OK.		
<u>3.</u>	01	ther Compliance Conditions	6 – Compliance comp	ponent #3 of 5		
	a.	Maintenance hole covers are damaged	d, cracked, unsecured, c	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 ☐ Unkr*System is an imminent threat to public health and safety			ely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown		
		Explain:				
	C.	System is non-protective of ground wa *System is failing to protect ground		as determined by inspector ☐ Yes* ☒ No		
		Explain:				

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rop	perty address: 9260 84th St N, Grant, MN 550	82		Inspector initials/Date:	4/27/2017 BH	
4.	Soil Separation – Compliance compor	nent #4 of 5				
••	Date of installation: 1975	☐ Unknown	v	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ☐ No		oil observation does not expire bservations by two independen		
	Compliance criteria:	ompliance criteria: un result prior to April 1, 1996, and tocated in Shoreland or Wellhead of Wellhea		nless site conditions have beer		
	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:			requirements differ. Conducted soil observation(s) (Attach boring logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield)		
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			Unable to verify (See Commentation Other (See Comments/Explanation)	nts/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	С	omments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No		ndicate depths of elevation	าร	
	systems built under pre-2008 Rules; Type IV 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		В.	Periodically saturated soil/bedroo	ck	
	separation distance from periodically saturated soil or bedrock.		<u>C.</u>	System separation		
			D.	Required compliance separation	*	
	Any "no" answer above indicates the system is Failing to Protect Groundwater.			*May be reduced up to 15 percent if allowed by Local Ordinance.		
5.	Operating Permit and Nitrogen B	MP* – Complia	nce com	ponent #5 of 5 🔀 Not a	pplicable	
	Is the system operated under an Operating Peri	mit? 🔲 Ye	s 🛭 No	If "yes", A below is require	ed	
	Is the system required to employ a Nitrogen BM	IP? ☐ Ye	s 🛭 No	If "yes", B below is require	ed	
	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:					
	Have the Operating Permit requirements been met?			☐ Yes ☐ No		

Any "no" answer indicates Noncompliance.

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

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.

☐ Yes ☐ No

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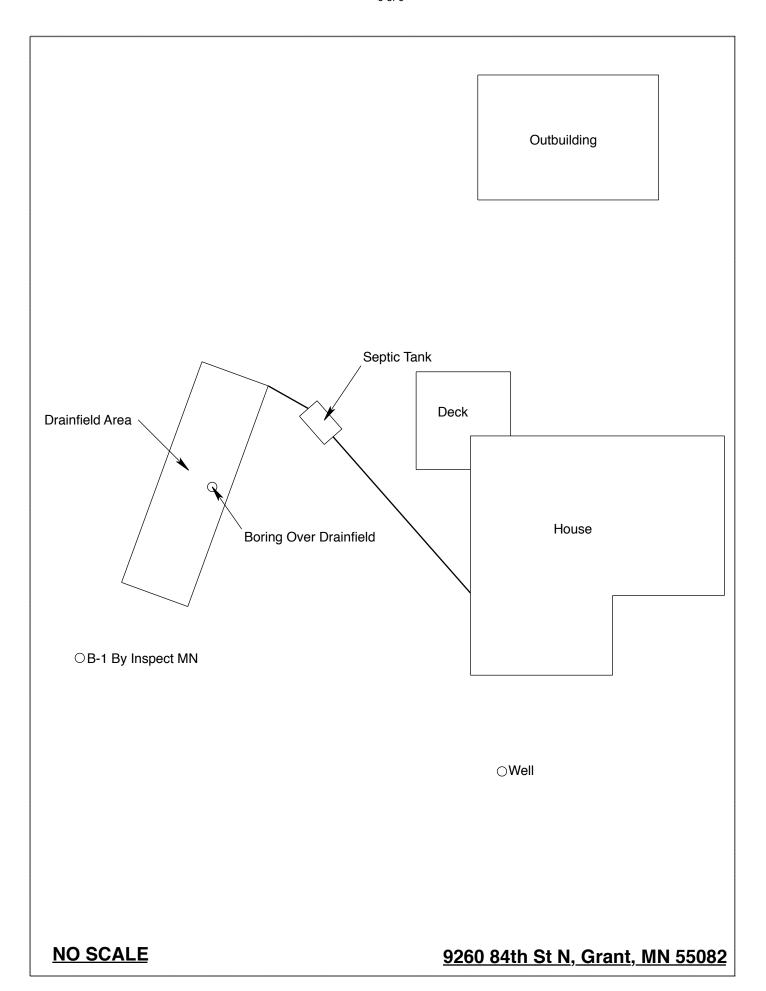
Inspect Minnesota & Midwest Soil Testing **Subsurface Sewage Treatment System Owner/Property Information**

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

Date of Inspection: April 27, 2017	Time: 8:00 AM				
Property Address: 9260 84 th St N, Grant, MN	Zip: 55082				
Property Owner: Mark Kuschke	Phone: 651-230-0484				
Tank(s) Tank(s)Material Soil Treatment System Septic 1	Other Alternative system Experimental system Cesspool system Other system				
performed through the maintenance holes. Maintenance hole cov					
the ground surface to facilitate access and proper maintenance of					
Year house built: 1975 Year septic installed: 1975?	Tank size (gals.): 1200				
*	esidents in home?				
Number of bedrooms? 5 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	eptic 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 buildings?					
Location of septic system on lot? Southwest Side					
	e well a deep well? Y				
Have you ever experienced any problems with the system such as					
surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? If yes, explain:					
When was the system last pumped? 2015 Name of pur	nper:				
	n on a monitoring plan?				
Have you received notices from any government agency concerns	**				
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					

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: 9260 84th St N, Grant, MN 55082					
Borings Made By: Inspect Minnesota		•	Date:	4/27/17	
Auger Used: Hand/Bucket		Class	ification System:	USDA	
	Boring Number: 1			Boring Number:	
Surface Elevation Boring	of Same grou	und surface as last ofield trench	Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered
0-7 7-25 25-44	10YR 4/4 Silt Lo 10YR 3/4 S 10YR 7/2, 10Y	Silt Loam (Moist) am (Moist/Satruated) candy Loam With R 6/2, 5YR 4/6, And YR 5/8 Redox			
25" Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox	
Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System	
-34" Depth To Bottom Of Distribution Media				of Distribution Media	
=0" Of Separation			Of Separation		
	End Of Boring Att	44"		End Of Boring Att	
	End Of Boring At: Redox Present At:	25"		End Of Boring At: Redox Present At:	
	Water Present At:	None	Standing	Water Present At:	
Stariding	acc. Fresche Act	I NOTIC	Standing	acci i i escite Aci	

Bottom Of Distribution Medium At: 34 Inches	

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: 12/22/2017

Issued: 11/29/2016

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2017

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852

Christopher R Uebe

3/4/2018

Designer, Inspector



St. Paul. Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section