Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

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MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: May 8, 2017 **Time:** 12:00 PM **Owner:** Jennifer & James Heddle

Inspection Address: 1323 Orwell Ave N, West Lakeland, MN 55082

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Jennifer Heddle, 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, 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



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

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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):5/8/2017	
	mpliant – Notice of Noncompliance grade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat is 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: 28.029.20.42.0017
	for inspection: Property Transfer
Property owner: Jennifer & James Heddle Owner's or	phone: 612-360-7039
Owner's representative: Represe	ntative phone:
Local regulatory authority: Washington County Regulator	ory authority phone: 651-430-4052
Brief system description:Two pre-cast septic tanks and a rock trench drainfield. Comments or recommendations:	
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	tion number: L5342
	nse number: L2896
Inspector signature: Brian Humpal Ph	one number: 651-492-7550
Necessary or Locally Required Attachments	
	local ordinance
Other information (list): Report Summary, Property Information, Disclaimer, Li	cense

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Property address: 1323 Orwell Ave N, West Lakeland, MN 55082 Inspector initials/Date: 5/8/2017

1.	lm	mpact on Public Health — Compliance component #1 of 5						
	Co	ompliance criteria:			Verification method(s):			
		stem discharge sewage to the bund surface.	☐ Yes	Searched for seepir				
		stem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system		
		stem cause sewage backup into velling or establishment.	☐ Yes	⊠ No		System requires "emergency" pumping Performed dye test		
	Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
		omments/Explanation: one of the above found.						
2.	Ta	ank Integrity — Compliance com	nponent	#2 of 5				
	Co	ompliance criteria:			Ve	erification method(s):		
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		Probed tank(s) bottom Examined construction records		
		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)		
	lf y	ves, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil"		
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.				 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 			
	Comments/Explanation: Lowered underwater camera into tanks - baffles and tank walls OK.							
3.	01	ther Compliance Conditions	– Com	oliance compone	nt #3	3 of 5		
	a.	Maintenance hole covers are damaged	d, cracked	d, unsecured, or app	oear i	to structurally unsound. Yes* No Unknown		
	b.	Other issues (electrical hazards, etc.) to in *System is an imminent threat to put			pact	public health or safety. ☐ Yes* ☒ No ☐ Unknown		
		Explain:						
	C.	c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater			ined by inspector ☐ Yes* ☒ No			
		Explain:						

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Property address: 1323 Orwell Ave N, West Lakeland, MN 55082

Inspector initials/Date: 5/8/2017

Data of installation 2000					
Date of installation: 2000	Unkr		Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ☒ No		Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local		
Compliance criteria:					
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 ☐ N	□ No	☑ Conducted soil observation(s) (☐ Two previous verifications (Atta	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 Comments/Explanation) ☐ Other (See Comments/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 record	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	☐ Yes	□ No	Indicate depths of elevations	0 44	
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 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 to Failing to Protect Groundwater. Description: Operating Permit and Nitrogen B			*May be reduced up to 15 percent of Ordinance. e component #5 of 5 Not app	·	
Is the system operated under an Operating Per		-	☑ No If "yes", A below is required	ilicable	
Is the system required to employ a Nitrogen BM			No If "yes", B below is required		
BMP=Best Management Practice(s) specif			•		
If the answer to both questions is "no",		-			
Compliance criteria			γ		
a. Operating Permit number:					
Have the Operating Permit requirements	been met	?	☐ Yes ☐ No		
b. Is the required nitrogen BMP in place and			P ☐ 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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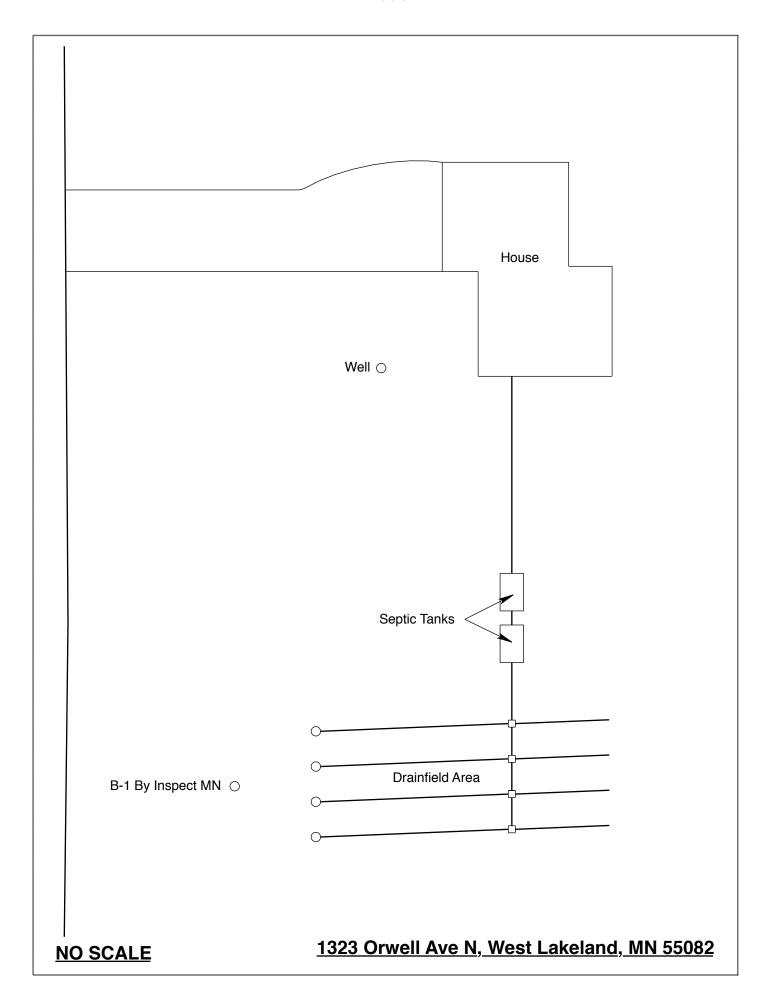
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 8, 2017	Time: 12:00 PM				
Property Address: 1323 Orwell Ave N, West Lakeland, MN	Zip: 55082				
Property Owner: Jennifer & James Heddle	Phone: 612-360-7039				
Tank(s) Tank(s)Material Soil Treatment Syst Septic 2 Fiberglass Rock trench Aerobic Plastic Gravelless trench Lift Metal Chamber trench Holding Concrete Seepage bed Other: Block Mound Other At-grade	Alternative system				
Are the tank maintenance covers accessible? Yes No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.					
Year house built: 2000 Year septic installed: 2000	Tank size (gals.): 2-1000				
How long has seller owned the property? 2000 Number	of residents in home? 4				
Number of bedrooms? 4 Are all floors drained	by gravity? Y				
Garbage disposal? N Whirlpool b	oath? Y				
More than one system (laundry, etc.)? N					
Does this property have any footing drain tiles connected 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 serving other buildings? N					
Location of septic system on lot? South Side					
Location of water well on lot? Southwest Side	s the well a deep well? Y				
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? N If yes, explain:					
When was the system last pumped? 2015 Name of	pumper: Meyers' Sewer Service				
	ystem on a monitoring plan? N				
Have you received notices from any government agency conc					
Is your property located in a shoreland management area? N					
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: Jennifer Heddle's Signature On File Date: 5/8/2017



Log Of Soil Borings

Location of Project: 1323 Orwell Ave N, West Lakeland, MN 55082					
		Inspect Minnesota		Date:	5/8/17
Auger Used: Hand/Bucket			Classification System: USDA		
Е	Boring Number:	1	Boring Number:		
Surface Elevation of Boring Same ground surface drainfield tree			Surface Elevation (Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	<u>icountered</u>
63" Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox			
Same Elevation Of Boring Relative To System		Į.	Elevation Of Boring	Relative To System	
-21" Depth To Bottom Of Distribution Media ≥42" Of Separation			Depth To Bottom O Of Separation	f Distribution Media	
End Of Boring At: 63"				End Of Boring At:	
Redox Present At: None				Redox Present At:	
Standing Water Present At: None		Standing	Water Present At:		

Bottom Of Distribution Medium At: 21 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