Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 1510 Orwell Ave N, West Lakeland Twp, MN 55082

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Harvey Johnson, and have reviewed the original design/permit records, which were in the owner's possession. This system consists of two precast septic tanks and a rock trench drainfield. It should be noted that the septic tanks are currently due for maintenance pumping and should be pumped when possible.

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



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	Boe Type. Complance and Emoreement
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):4/19/2016	
	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 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	qe:
·	for inspection: Property Sale
Property owner: Harvey & Jean Johnson Owner's or	phone: 651-338-4747
Owner's representative: Represe	ntative phone:
· · · · · · · · · · · · · · · · · · ·	ory authority phone: 651-430-4052
Brief system description: Two pre-cast septic tanks and a rock trench drainfield.	
Comments or recommendations: It should be noted that the septic tanks are currently due for maintenance pumping an	d should be pumped when possible.
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 unknow possible abuse of the system, inadequate maintenance, or future water usage.	•
Inspector name: Brian Humpal Certification	tion number: L5342
	nse number: L2896
Inspector signature: Brian Humpal Pho	one number: 651-492-7550
Necessary or Locally Required Attachments	
	local ordinance
Other information (list): Report Summary, Property Information, Disclaimer, Li	

1.	lm	npact on Public Health – Cor	mpliance	compone	ent #1 of 5	
	Co	Compliance 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 velling or establishment.	☐ Yes	⊠ No	☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping ☐ Performed dye test	
			" answer above indicates the system is ent Threat to Public Health and Safety. □ Performed dye test □ Unable to verify (See Common of the Co			
		omments/Explanation: one of the above found.				
2.	Ta	ank Integrity — Compliance con	nponent :	#2 of 5		
	Co	ompliance criteria:			Verification 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	
		wage 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)	
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.		☐ Other methods not listed (See Comments/Explanation)			
3.	Lo It s	omments/Explanation: wered underwater camera into tanks - should be noted that the septic tanks a ther Compliance Conditions	are curren	tly due for	r maintenance pumping and should be pumped when possible.	
	a.	Maintenance hole covers are damage	d, cracked	l, unsecure	ed, 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 ☐ Unk *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 Explain:		er conditio	ons as determined by inspector ☐ Yes* ☒ No	

Property address: 1510 Orwell Ave N, West Lakeland Twp, MN 55082

Inspector initials/Date: 4/19/2016

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1.	Soil Separation – Compliance compor	nent #4 c	of 5				
	Date of installation: 1999 Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Unkr		S	erification method(s): oil observation does not expire. Pl		
	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:	☐ Yes	□No		equirements differ. Conducted soil observation(s) (a Two previous verifications (Attail Not applicable (Holding tank(s), n	ch boring logs) o 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		omments/Explanation: eviewed 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 or V systems built under 2008 Rules (7080.	☐ Yes	□ No		ndicate depths of elevations	See Attached	
	2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				Bottom of distribution media	Boring Log(s)	
					Periodically saturated soil/bedrock System separation		
	saturated soil of bedrock.	ed soil or bedrock.		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.						·	
).	Operating Permit and Nitrogen B		•		<u> </u>	licable	
	Is the system operated under an Operating Per		☐ Yes		•		
	Is the system required to employ a Nitrogen BMP?						
	If the answer to both questions is "no",	this sec	tion doe	s not i	need to be completed.		
	Compliance criteria						
	a. Operating Permit number: Have the Operating Permit requirements been met?				☐ Yes ☐ No		
b. Is the required nitrogen BMP in place and properly functioning?							
	Any "no" answer indicates Noncom	pliance					

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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.

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Inspect Minnesota & Midwest Soil Testing

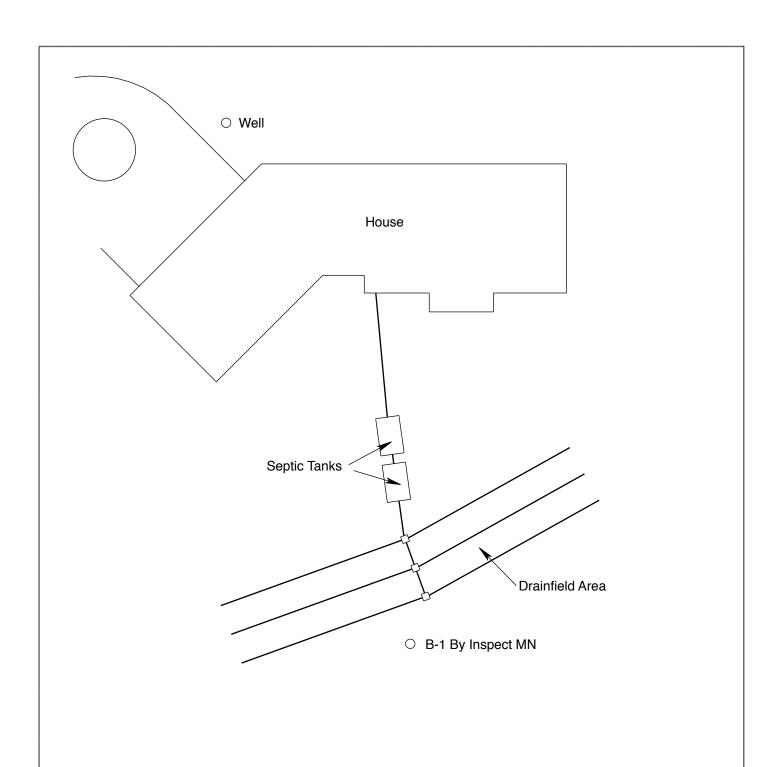
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: April 19, 2016	Time: 10:15 AM				
Property Address: 1510 Orwell Ave N, West Lake	land Twp, MN Zip: 55082				
Property Owner: Harvey & Jean Johnson	Phone: 651-338-4747				
Tank(s) Tank(s)Material Soil Tre Septic 2 Fiberglass Rock Aerobic Plastic Grave Lift Metal Chan	atment System trench Alternative system elless trench Experimental system ber trench Cesspool system age bed Other system ade No *If no, proper maintenance must be ance hole covers should be made accessible to				
Year house built: 1999 Year septic installed:	1999 Tank size (gals.): 2-1000				
1 1	Number of residents in home? 2				
	s drained by gravity? Y				
	hirlpool bath? 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? East Side					
Location of water well on lot? West Side	Is 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? 2009	Name of pumper: Pinky's Sewer Service				
How often pumped in previous years? Every 3					
Have you received notices from any government agency concerning this system? N					
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: Harvey Johnson's Signature On File Date: 4/19/2016



Log Of Soil Borings

Location of Project: 1510 Orwell Ave N, West Lakeland Twp, MN 55082					
Borings Made By: Inspect Minnesota				Date:	4/19/16
Auger Used: Hand/Bucket			Class	ification System:	USDA
Во	ring Number:	1		Boring Number:	
Surface Same ground surface as last		Surface Elevation Boring			
Depth In Inches	Soils E	ncountered	Depth In Inches	TOUS FORMULATED	
' I Solis Encollatered I					
80" Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox		oring Or Redox	
Same Elevation Of Boring Relative To System		Elevation Of Boring Relative To System		Relative To System	
-38" Depth To Bottom Of Distribution Media ≥42" Of Separation		Depth To Bottom Of Distribution Media Of Separation			
Fn	d Of Boring At:	80"		End Of Boring At:	
	dox Present At:	None		Redox Present At:	
	iter Present At:	None	Standing	Water Present At:	

Bottom Of Distribution Medium At: 38 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



License # L2896

Date of Issuance:

Maintainer License Expires:
Installer License Expires:
Adv Inspector License Expires:
Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

Designated Certified Individual (DCI)	Certification Type	Certification Expires
Brian L. Humpal	Maintainer (Certified)	10/15/2017
Brian L. Humpal	Advanced Designer (Certified)	10/15/2017
Brian L. Humpal	Advanced Inspector (Certified)	10/15/2017
Brian L. Humpal	Installer (Certified)	10/15/2017
Brian L. Humpal	Service Provider (Certified)	10/15/2017
Christopher R. Uebe	Designer (Certified)	03/04/2018
Christopher R. Uebe	Inspector (Certified)	03/04/2018



St. Paul, Minnesota 55155-4194

Steven Giddings Manager Environmental Business Assistance Section