### **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:** 144 Bichner Lane, Mahtomedi, MN 55115

### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a rock trench drainfield. This house is presently vacant.

Predicated on my inspection of the system it is my opinion that this system <u>presently</u> 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



### **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.  Submit completed form to Local Unit of Government (LUG) and system owner within 15 days  System Status  System Status  System status on date (mm/dd/yyyy): 9/22/2016		7 P P
System Status  System status on date (mm/dd/yyyy): 9/22/2016    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)   Imminent threat to public health and safety   Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety   Impact on Public Health (Compliance Component #3) - Imminent threat to public health and safety   Impact on Public Health (Compliance Component #3) - Imminent threat to public health and safety   Impact on Public Health (Compliance Component #3) - Imminent threat to public health and safety   Impact on Public Health (Compliance Component #3) - Failing to protect groundwater   Impact on Public Health (Compliance Component #3) - Failing to protect groundwater   Impact on Public Health (Compliance Component #4) - Failing to protect groundwater   Impact on Public Health (Compliance Component #4) - Failing to protect groundwater   Impact on Public Health (Compliance Component #4) - Failing to protect groundwater   Impact on Public Health (Compliance Component #4) - Noncompliant   Impact on Public Health (Compliance Component #5) - Noncompliant   Impact on Public Health (Compliance Component #5) - Noncompliant   Impact on Public Health (Compliance Component #5) - Noncompliant   Impact on Public Health (Compliance Component #5) - Noncompliant   Impact on Public Health (Compliance Component #6) - Noncompliant   Impact on Public Health (Compliance Component #6) - Noncompliant   Impact	requirements and attached forms – additional local requirements may also apply.	S/ty
System status on date (mm/dd/yyyy): 9/22/2016    Compliant - Certificate of Compliance		er
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Property address: 144 Bichner Lane, Mahtomedi, MN 55115 Reason for inspection: Requested By City Property owner: Don Lee Owner's phone: 651-439-3057  Or Owner's representative: Representative phone: Local regulatory authority: Washington County Regulatory authority phone: 651-430-4052  Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, and a rock trench drainfield.  Comments or recommendations:  Certification  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 Certification number: L5342  Business name: Inspect Minnesota, Midwest Soil Testing License number: L2896  Inspector signature: Phone number: 651-492-7550  Necessary or Locally Required Attachments	<ul> <li>□ Other Compliance Conditions (Compliance Component #3) – Immine</li> <li>□ Tank Integrity (Compliance Component #2) – Failing to protect groun</li> <li>□ Other Compliance Conditions (Compliance Component #3) – Failing</li> <li>□ Soil Separation (Compliance Component #4) – Failing to protect groun</li> </ul>	nt threat to public health and safety ndwater to protect groundwater undwater
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	Necessary or Locally Required Attachments	
Soil boring logs		s ner local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, License		•

1.	ln	<b>npact on Public Health</b> – Cor	mpliance	compone	nt #1 of 5					
	Co	ompliance criteria:			Verific	ation method(s)	):			
-	Sy	vstem discharge sewage to the bound surface.	☐ Yes	⊠ No	<ul><li>✓ Searched for surface outlet</li><li>✓ Searched for seeping in yard/bac</li></ul>				ckup in home	
		stem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No	☐ Hon	Homeowner testimony (See Comments/E		Explanation)		
		rstem cause sewage backup into relling or establishment.	☐ Yes	⊠ No	☐ Sys	<ul> <li>□ "Black soil" above soil dispersal system</li> <li>□ System requires "emergency" pumping</li> <li>□ Performed dye test</li> </ul>				
	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 con	nponent	#2 of 5						
	Co	ompliance criteria:			Verific	ation method(s)	):			
		rstem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		oed tank(s) bottom mined construction				
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.				mined Tank Integr erved liquid level b	-		lepth	
	de	ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	☐ Exa	mined empty (pum oed outside tank(s	nped) tan	ks(s)		
	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.				☐ Other methods not listed (See Comments/Explanation)					
3.	Comments/Explanation: Lowered underwater camera into tanks - baffles and tank walls OK. Lift pump and alarm were operational at the time of the inspection. House vacant - tank at operating level.  Other Compliance Conditions — Compliance component #3 of 5									
	a.	•					□ Yes*	⊠ No	Unknown	
						Unknown				
		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:									

Property address: 144 Bichner Lane, Mahtomedi, MN 55115

Inspector initials/Date: 9/22/2016

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4. Soil Separation — Compliance comp	onent #4 of 5				
Date of installation:  Shoreland/Wellhead protection/Food Beverage Lodging?	_ ⊠ Unknown	Verification method(s):  Soil observation does not expire. Pre observations by two independent par			
Compliance criteria:		unless site conditions have been alte			
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	requirements differ.  Conducted soil observation(s) (At  Two previous verifications (Attach  Not applicable (Holding tank(s), no	boring logs)		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		☐ Unable to verify (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	o Comments/Explanation:			
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			
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			
Saturated Soil of Dedrock.		D. Required compliance separation*			
Any "no" answer above indicates Failing to Protect Groundwater.		allowed by Local			
5. Operating Permit and Nitrogen	<b>BMP*</b> – Compli	ance component #5 of 5 🔀 <b>Not appli</b>	cable		
Is the system operated under an Operating Pe	Is the system operated under an Operating Permit?				
Is the system required to employ a Nitrogen BMP?					
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:	□ Vaa □ Na				
Have the Operating Permit requirements	☐ Yes ☐ No				
b. Is the required nitrogen BMP in place an	ning? Yes No				
Any "no" answer indicates Noncor	npliance.				

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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Property address: 144 Bichner Lane, Mahtomedi, MN 55115

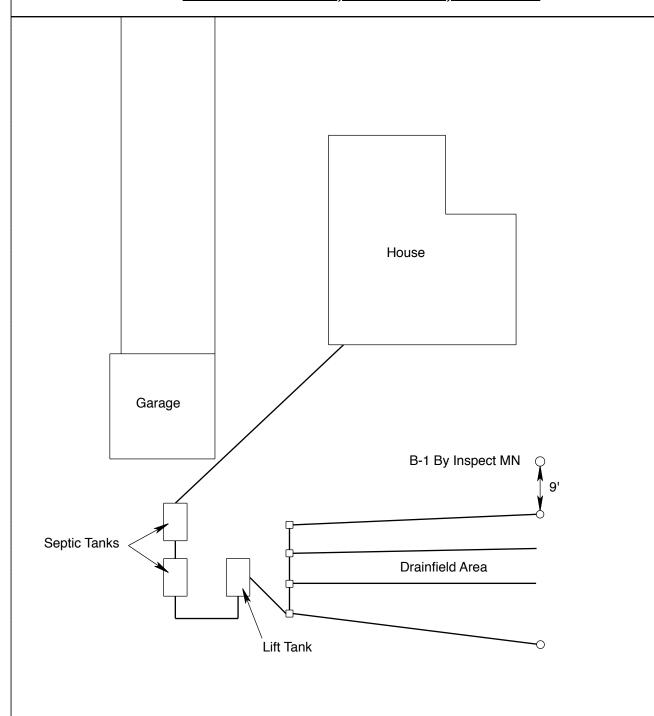
Inspector initials/Date: 9/22/2016

### **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: September 22, 2016	Time: 2:30 PM					
Property Address: 144 Bichner Lane, Mahtomedi, MN	Zip: 55115					
Property Owner: Don Lee	Phone: 651-439-3057					
Tank(s)       Tank(s)Material       Soil Treatment System         Septic 2       □Fiberglass       □Rock trench         □Aerobic       □Plastic       □Gravelless trench         □Lift       □Metal       □Chamber trench         □Holding       □Concrete       □Seepage bed         □Other:       □Block       □Mound         □Other       □At-grade	Other  Alternative system  Experimental system  Cesspool system  Other 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: 1963 Year septic installed:	Tank size (gals.):					
	sidents in home?					
Number of bedrooms? Are all floors drained by g	ravity? Y					
Garbage disposal? Whirlpool bath?	)					
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles connected to the se	eptic system?					
Are any buildings on this property such as garages or out-building	s connected to this system?					
Are there any additional systems on this property serving other bu	ildings?					
Location of septic system on lot? South Side						
	e 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?  If yes, explain:						
When was the system last pumped? 2014 Name of pum	nper:					
	n 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	e 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:	Date:					

### 144 Bichner Lane, Mahtomedi, MN 55115



### **Log Of Soil Borings**

Loca	ation of Project:	144 Bichner Lane, Ma	ahtomedi, N	MN 55115	
Borings Made By: Inspect Minnesota				Date:	9/22/16
Auger Used: Hand/Bucket			Classi	ification System:	USDA
l	Boring Number:	1		Boring Number:	
Surface Elevation o Boring	11 -	Same ground surface as last drainfield trench		of	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered_
0-7 7-28 28-46 46-54 54-59 59-66 66-80	Inches         Solls Effcountered           0-7         10YR 2/2 Loamy Sand           7-28         10YR 4/3 Medium Sand With           28-46         10YR 4/3 Medium Sand With           46-54         10YR 3/4 Loamy Sand With           54-59         10YR 4/3 Medium Sand With Gravel           ≈ 20% Rock Fragments           59-66         10YR 5/4 Medium Sand With           Fine Sand Layers With         7.5YR 5/4 Lamellae Banding				
80" Depth To End Of Boring Or Redox		1	Depth To End Of Boring Or Redox		
Same Elevation Of Boring Relative To System		Elevation Of Boring Relative To System			
	Depth To Bottom ( Of Separation	Of Distribution Media		Depth To Bottom C Of Separation	of Distribution Media
- I	End Of Boring At:	80"		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	: 37 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 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.

# Sulbsurface Sewage Treatment Systems

Non-transferable



License # L2896

Maintainer License Expires:

Adv Inspector License Expires:

Oct 28, 2015 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016

Adv Designer License Expires:

Date of Issuance:

Installer License Expires:

### Certification

Inspect Minnesota, Midwest Soil Testing

Expires

10/15/2017 10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

**Designated Certified** 

Individual (DCI) Brian L. Humpal Brian L. Humpal Brian L. Humpal Brian L. Humpal Brian L. Humpal

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Designer (Certified) Inspector (Certified)

Christopher R. Uebe Christopher R. Uebe

03/04/2018

03/04/2018

Steven Giddings Manager Environmental Business Assistance Section



## Minnesota Pollution Control Agency

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