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

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Bob Bray, and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a chamber 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



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	<i>y</i>		
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):2/25/2016			
	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 thr ☐ 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 #4)	reat to public health and safety ter otect groundwater ater		
Property Information Parcel ID# or Sec/Twp/Rang	ge:		
	or inspection: Buidling Permit		
· · ·	phone: 651-248-3922		
or			
	ntative phone:		
	Regulatory authority phone: 651-430-4052		
Brief system description:Two pre-cast septic tanks, a pre-cast lift tank, and a cham Comments or recommendations:	per trench drainheid.		
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 Certificat	ion number: _L5342		
Business name: Inspect Minnesota, Midwest Soil Testing Licer	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, Lic			

1.	. Impact on Public Health — Compliance component #1 of 5								
	Compliance criteria:				Ve	Verification method(s):			
	Sy	vstem discharge sewage to the bound surface.	☐ Yes	⊠ No		1 9 7 1			
		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			
		rstem cause sewage backup into relling 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.							
		on the above round.							
2	т.	and data mitter of the		"O . F					
2.		Tank Integrity – Compliance component #2 of 5							
		ompliance criteria:				erification method(s):			
		stem consists of a seepage pit, spool, 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)			
	lf y	yes, 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) 			
	Сс	omments/Explanation:			=				
		wered underwater camera into tanks -							
	Lit	t pump and alarm were operational at	the time	of the inspe	ection.				
_	•								
3.	U	Other Compliance Conditions – Compliance component #3 of 5							
	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 it *System is an imminent threat to put		-	• •	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 							
		Explain:							

Property address: 8101 113th Street Ct S, Cottage Grove, MN 55016 Inspector initials/Date: 2/25/2016

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	Date of installation: 2002	☐ Unkr	nown	,	Varification method(a):		
	Shoreland/Wellhead protection/Food Beverage	-			Verification method(s):	,	
	Lodging?	☐ Yes	⊠ NO		Soil observation does not expire. F observations by two independent p		
	Compliance criteria:	I			unless site conditions have been a		
	For systems built prior to April 1, 1996, and	☐ Yes	☐ No		requirements differ.	· · · · · · · · · · · · · · · · · · ·	
	not located in Shoreland or Wellhead Protection Area or not serving a food,				☐ Conducted soil observation(s) (Attach boring logs)☐ Two previous verifications (Attach boring logs)		
	beverage or lodging establishment:				☐ Not applicable (Holding tank(s), i		
	Drainfield has at least a two-foot vertical				☐ Unable to verify (See Comments		
	separation distance from periodically saturated soil or bedrock.				Other (See Comments/Explanation)	n)	
	Non-performance systems built April 1,	⊠ Yes	П No	=	Comments/Explanation:		
	1996, or later or for non-performance	<u> </u>			Reviewed design and permit record	de	
	systems located in Shoreland or Wellhead Protection Areas or serving a food,				rteviewed design and permit reserv		
	beverage, or lodging establishment:						
	Drainfield has a three-foot vertical						
	separation distance from periodically saturated soil or bedrock.*						
				_			
	"Experimental", "Other", or "Performance"			□ No <u>In</u>	Indicate depths of elevations		
	systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.					See Attached	
	2350 or 7080.2400 (Advanced Inspector License required)			_/	A. Bottom of distribution media	Boring Log(s)	
	Drainfield meets the designed vertical			_1	B. Periodically saturated soil/bedrock		
	separation distance from periodically			(C. System separation		
	saturated soil or bedrock.						
	Any "no" answer above indicates to	he svst	em is		D. Required compliance separation* *May be reduced up to 15 percent	if allowed by Local	
I I I					Ordinance.	il allowed by Local	
5.	Operating Permit and Nitrogen B	MP* – 0	Compliand	e cor	mponent #5 of 5 🛮 🖂 Not ap r	olicable	
	Is the system operated under an Operating Per	mit?	☐ Yes	⊠N	o If "yes", A below is required		
	Is the system required to employ a Nitrogen BM	IP?	☐ Yes	⊠N	o 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 sec	tion does	s not	need to be completed.		
	•				•		
	Compliance criteria						
	Operating Permit number: Have the Operating Permit requirements been met?			☐ Yes ☐ No			
				☐ Yes ☐ No			
				1:			
	Any "no" answer indicates Noncom	pliance	-				

Property address: 8101 113th Street Ct S, Cottage Grove, MN 55016

Inspector initials/Date: 2/25/2016

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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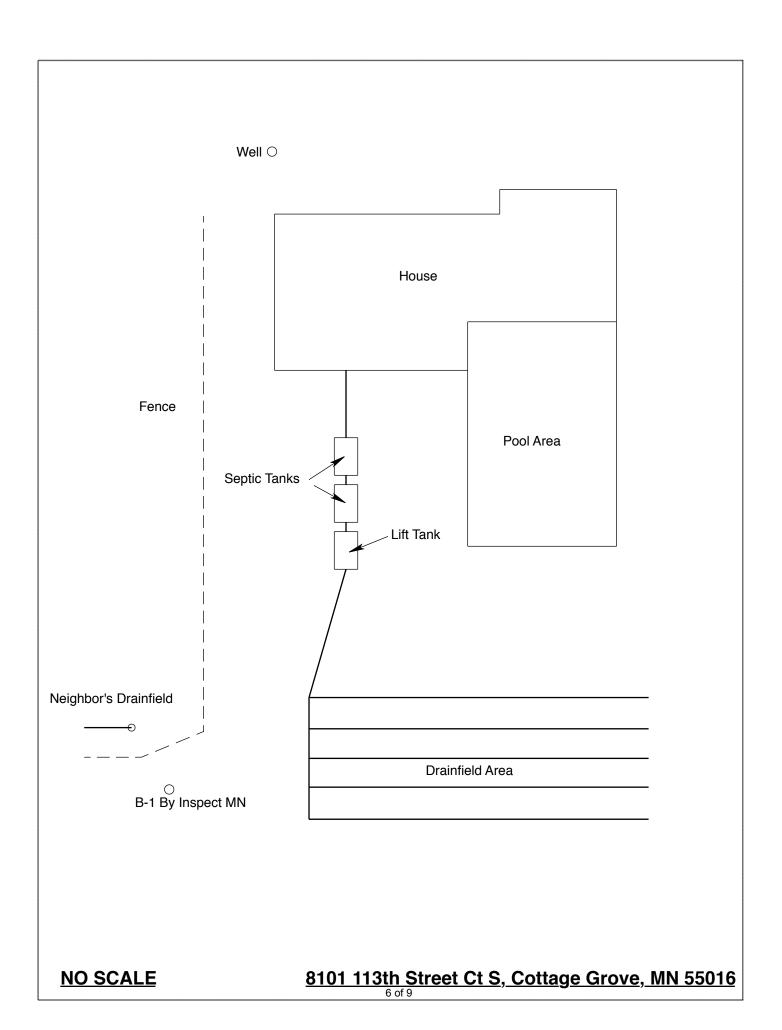
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: February 25, 2016	Time: 10:00 AM				
Property Address: 8101 113th Street Ct S, Cottage	Grove, MN Zip: 55016				
Property Owner: Bob & Julie Bray	Phone: 651-248-3922				
Tank(s) Tank(s)Material Soil Tree □ Septic 2 □ Fiberglass □ Rock □ Aerobic □ Plastic □ Grav □ Lift □ Metal □ Chan	attment System trench Alternative system elless trench Experimental system Description of the control of t				
Year house built: 1969 Year septic installed	© /				
	Number of residents in home? 5				
	s drained by gravity? Y				
<u> </u>	hirlpool bath? N				
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					
A (I 11'); 1 ((I')	. 4 1 11. 0M				
Are there any additional systems on this property se	erving other buildings? N				
Location of septic system on lot? South Side					
Location of water well on lot? North 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? 2015	Name of pumper: Ron's Sewer Service				
How often pumped in previous years? Every 3 Is system on a monitoring plan? N					
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: Bob Bray's Signature On File Date: 2/25/2016



Log Of Soil Borings

Location of Project: 8101 113th Street Ct S, Cottage Grove, MN 55016						
Borings Made By: Inspect Minnesota			Date:	2/25/16		
Auger Used: Hand/Bucket		Classification System:		USDA		
	Boring Number:	1	Boring Number:			
Surface	Camo arol	ınd surface as last	Surface		•	
Elevation	ULI 2	nfield trench	Elevation	of		
Boring	uran	meid trentin	Boring			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	Soils Encountered	
0-20	10VR 3/2 I	oamy Fine Sand	Tilches			
20-52		B Loamy Sand				
52-73		dium Coarse Sand				
		sal At 73"				
73"	Depth To End Of Boring Or Redox			Depth To End Of B	oring Or Redox	
Same	Same Elevation Of Boring Relative To System			Elevation Of Boring	g Relative To System	
-30" Depth To Bottom Of Distribution Media				Of Distribution Media		
≥43" Of Separation			Of Separation			
	End Of Boring At:	73"		End Of Boring At:		
Redox Present At: None			Redox Present At:			
Standing Water Present At: None		Standing	Water Present At:			
					<u> </u>	

Bottom Of Distribution Medium A	t: 30 Inches

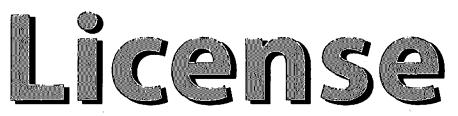
DISCLAIMER

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