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

Inspection Address: 1865 Morgan St, Mahtomedi, MN 55115

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system. I contacted Washington County and was advised that there are no records for this system. This older system consists of a pre-cast septic tank, a pre-cast lift tank, and a rock trench drainfield.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils. This system is not an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A).

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
Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution C requirements and attached forms – additional local requirements	
Submit completed form to Local Unit of Government (LUG) within 15 days	and system owner
System Status	
System status on date (mm/dd/yyyy): 6/6/2016	
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)	Noncompliant – Notice of Noncompliance (See Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicated Impact on Public Health (Compliance Component Other Compliance Conditions (Compliance Compound Tank Integrity (Compliance Component #2) – Faili Other Compliance Conditions (Compliance Compound Soil Separation (Compliance Component #4) – Fail Operating permit/monitoring plan requirements (Compliance Component #4)	#1) – Imminent threat to public health and safety onent #3) – Imminent threat to public health and safety ing to protect groundwater onent #3) – Failing to protect groundwater oliling to protect groundwater
Property Information Parc	sol ID# or Coo/Tura/Danger
Property address: 1865 Morgan St, Mahtomedi, MN 55115	cel ID# or Sec/Twp/Range:
Property owner: Matthew Bouthilet	Owner's phone: 651-402-7877
or	
Owner's representative:	Representative phone:
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-4052
Brief system description: Pre-cast septic tank, pre-cast lift ta	ank, and a rock trench drainfield.
Comments or recommendations:	
Certification	
I hereby certify that all the necessary information has been gath determination of future system performance has been nor can be possible abuse of the system, inadequate maintenance, or futu	be made due to unknown conditions during system construction,
Inspector name: Brian Humpal	Certification number: _L5342
Business name: Inspect Minnesota, Midwest Soil Testing	License number: L2896
Inspector signature: Brian Humpal	Phone number: 651-492-7550
Necessary or Locally Required Attachments	
Soil boring logs	☐ Forms per local ordinance
☐ Other information (list): Report Summary, Property Info	•

•	ompliance componen	1010			
Compliance criteria:		Verification method(s):			
System discharge sewage to the ground surface.	☐ Yes ⊠ No	☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home			
System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	 ☑ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation) 			
System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	 "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test 			
• •	_	☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
Comments/Explanation: None of the above found.					
Tank Integrity — Compliance co	omponent #2 of 5				
Compliance criteria:		Verification method(s):			
System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☑ Probed tank(s) bottom☑ Examined construction records			
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth			
Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	Examined empty (pumped) tanks(s)Probed outside tank(s) for "black soil"			
		Unable to verify (See Comments/Explanation)			
		☐ Other methods not listed (See Comments/Explanation)			
Lift pump and alarm were operational a	at the time of the inspec	etion.			
a. Maintenance hole covers are damag	ed, cracked, unsecured,	, or appear to structurally unsound. ☐ Yes* ☒ No ☐ 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: 					
	System discharge sewage to the ground surface. System discharge sewage to drain tile or surface waters. System cause sewage backup into dwelling or establishment. Any "yes" answer above indicate an Imminent Threat to Public Head an Imminent Threat to Public Head an Imminent Threat to Public Head Comments/Explanation: None of the above found. Tank Integrity — Compliance compliance criteria: System consists of a seepage pit, cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance. Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks: Any "yes" answer above indicates and system is Failing to Protect Goments/Explanation: Lowered underwater camera into tank Lift pump and alarm were operational and the covers are damaged. Other Compliance Condition and Maintenance hole covers are damaged. Other compliance Condition and maintenance hole covers are damaged. Other issues (electrical hazards, etc.) to "System is an imminent threat to present the system is an imminent threat to present the system is an imminent threat to present the system is failing to protect ground we "System is failing to protect ground we system is failing to ground we system	System discharge sewage to the ground surface. System discharge sewage to drain tile or surface waters. System cause sewage backup into dwelling or establishment. Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety. Comments/Explanation: None of the above found. Tank Integrity — Compliance component #2 of 5 Compliance criteria: System consists of a seepage pit, cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance. Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks: Any "yes" answer above indicates the system is Failing to Protect Groundwater. Comments/Explanation: Lowered underwater camera into tank - baffles and tank walls Lift pump and alarm were operational at the time of the inspect of the inspect of the system is an imminent threat to public health and safet Explain: C. System is non-protective of ground water for other conditions "System is failing to protect groundwater" C. System is non-protective of ground water for other conditions "System is failing to protect groundwater"			

Property address: 1865 Morgan St, Mahtomedi, MN 55115

Inspector initials/Date: 6/6/2016

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	Data of installation	.		• -			
	Date of installation:	_ ⊠ Unkr —		Ve	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?		☐ No		il observation does not expire. F servations by two independent p		
	Compliance criteria:	unless site co				nditions have been altered or local	
	For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	96, and Yes No		quirements diπer. Conducted soil observation(s)	(Attach horing logs)		
	Protection Area or not serving a food,				Two previous verifications (Atta		
	beverage or lodging establishment:				Not applicable (Holding tank(s), I	•	
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				Unable to verify (See Comments Other (See Comments/Explanation		
	Non-performance systems built April 1,	☐ Yes	⊠ No	Co	nmments/Explanation:		
	1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:				·		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes	□ No	- Ind	dicate 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			B. Periodically saturated soil/bedrock			
	separation distance from periodically saturated soil or bedrock.			C.	C. 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* – C	Complianc	e comp	onent #5 of 5 Not app	olicable	
	Is the system operated under an Operating Per	mit?	☐ Yes	⊠ No	If "yes", A below is required		
	Is the system required to employ a Nitrogen BMP?						
	BMP=Best Management Practice(s) specifi	ïed in the	system de	sign			
	If the answer to both questions is "no",	this sec	tion does	s not n	eed to be completed.		
	Compliance criteria						
	a. Operating Permit number:				☐ Yes ☐ No		
	Have the Operating Permit requirements I	Have the Operating Permit requirements been met?			L TES LINO		
b. Is the required nitrogen BMP in place and properly functioning?				☐ Yes ☐ No			

Property address: 1865 Morgan St, Mahtomedi, MN 55115

Inspector initials/Date: 6/6/2016

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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800-657-3864

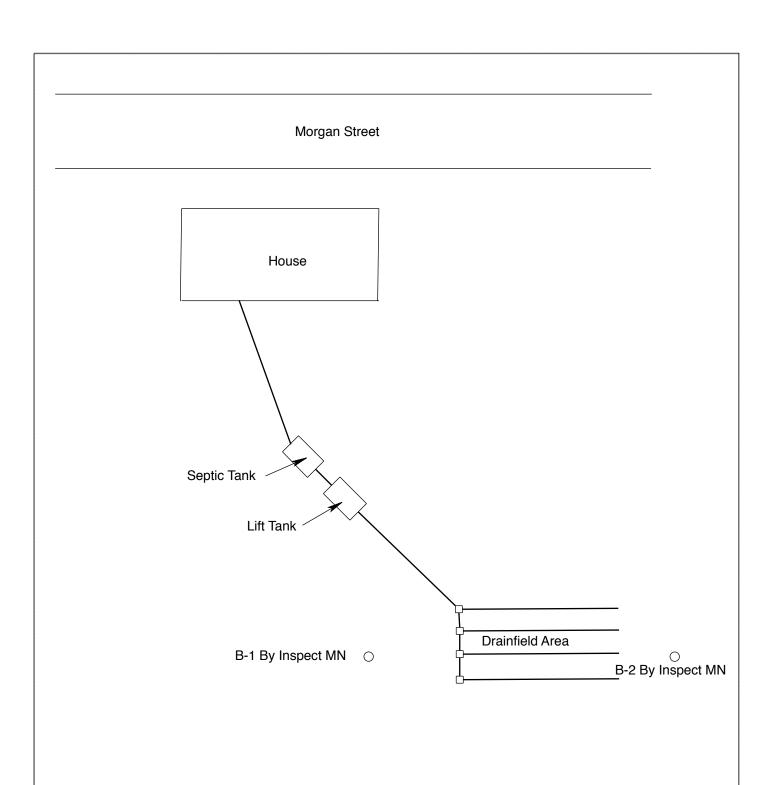
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Inspect Minnesota & Midwest Soil Testing

Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: June 6, 2016	Time: 9:00 AM				
Property Address: 1865 Morgan St, Mahtomedi, MN	Zip: 55115				
Property Owner: Matthew Bouthilet	Phone: 651-402-7877				
Tank(s) Tank(s)Material Soil Treatment System Septic 1 Fiberglass Rock trench	Other Alternative system				
Aerobic Plastic Gravelless trench	Experimental system				
□ Lift □ Metal □ Chamber trench □ Chamb	Cesspool system				
☐ Holding ☐ Concrete ☐ Seepage bed ☐ Other: ☐ Block ☐ Mound	Other system				
Other At-grade					
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.					
-	Γank size (gals.): 1250 Est				
	sidents in home?				
Number of bedrooms? 2 Are all floors drained by g					
Garbage disposal? Whirlpool bath?					
More than one system (laundry, etc.)?					
Does this property have any footing drain tiles connected to the se	ptic 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? Southwest 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? Name of pum	1				
How often pumped in previous years? Is system on a monitoring plan?					
Have you received notices from any government agency concerning this system?					
Is your property located in a shoreland management area? Y					
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. 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:				



Log Of Soil Borings

Location of Project: 1865 Morgan St, Mahtomedi, MN 55115					
Borings Made By: Inspect Minnesota			Date:		: 6/6/16
Auger Used: Hand/Bucket		Class	sification System	: USDA	
Boring Number: 1			Boring Number	: 2	
Surface Elevation of Boring Same ground surface as I drainfield trench			Boring drain		und surface as last nfield trench
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered	
0-18 18-40 40-52 52-71 71-75	10YR 3/3 10YR 3/4 10YR 4/4 S 7.5YR 4 10YR 4/	2 Loamy Sand Medium Sand Medium Sand andy Loam With 1/4 Lamellae '4 Loam With 7.5YR 5/8 Redox	0-15 15-45 45-56 56-70	10YR 4/3 10YR 3/ 10YR 4/4	2 Loamy Sand 3 Medium Sand 4 Sandy Loam Clay Loam With 5/8, & 10YR 7/1 Redox
71" De	epth To End Of B	oring Or Redox	56"	Depth To End Of	Boring Or Redox
Same Elevation Of Boring Relative To System		Same	Elevation Of Boring Relative To System		
-40" Depth To Bottom Of Distribution Media =31" Of Separation		-40" Depth To Bottom Of Distribution Media =16" Of Separation			
Er	nd Of Boring At:	75"		End Of Boring At	: 70"
	edox Present At:	71"		Redox Present At	
Standing W	ater Present At:	None	Standing	g Water Present At	: None

Bottom Of Distribution Medium At: 40 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.

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

520 Lafayette Road North St. Paul, Minnesota 55155-4194