Midwest Sewer Services

P.O. Box 10853 White Bear Lake, MN 55110 Brian Humpal

651-492-7550/Brian@Midwestsoiltesting.com MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 3090 Perrot Ave S, Afton, MN 55001

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owners, Stewart Brooks, and have reviewed the previous compliance inspection from 2014 on file at Washington County. This very old system consists of a pre-cast two-compartment septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Although not a compliance criteria, it should be noted that the lift pump alarm is currently not operational. This alarm should be repaired as soon as possible to notify the occupants of the house in the event of a pump malfunction. Additionally, it should be noted that the well is located approximately 40 feet from the septic tank; the required setback between the septic tank and the well is 50 feet.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the records, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

Midwest Sewer Services 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. Midwest Sewer Services 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.

Christopher Uebe

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 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):10/15/2020					
•	ompliant – Notice of Noncompliance ograde Requirements on page 3)				
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety Tank Integrity (Compliance Component #2) – Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater Soil Separation (Compliance Component #4) – Failing to protect groundwater					
Operating permit/monitoring plan requirements (Compliance Component	<u> </u>				
Property Information Parcel ID# or Sec/Twp/Ra	nge:				
	for inspection: Property Transfer				
· · ·	s phone: 651-436-6491				
or .					
· · · · · · · · · · · · · · · · · · ·	Representative phone:				
Local regulatory authority: Washington County Regular Brief system description: A pre-cast two-compartment septic/lift tank and a rock tr	Regulatory authority phone: 651-430-6655				
Comments or recommendations:	enon drainneid.				
Although not a compliance criteria, it should be noted that the lift pump alarm is currently not operational. This alarm should be repaired as soon as possible to notify the occupants of the house in the event of a pump malfunction. Additionally, it should be noted that the well is located approximately 40 feet from the septic tank; the required setback between the septic tank and the well is 50 feet.					
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/Christopher Uebe Certific	ation number: C5342/C9852				
Business name: Midwest Sewer Services Lic	ense number: L2896				
Inspector signature: Brian Humpal Hum III	none number: 651-492-7550				
mopostor signature.	001-402-7000				
Necessary or Locally Required Attachments					
Soil boring logs	er local ordinance				
☑ Other information (list): Report Summary, Property Information, Disclaimer, I	icense				

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Property address: 3090 Perrot Ave S, Afton, MN 55001

Inspector initials/Date: 10/15/2020 14/1/

1.	. Impact on Public Health — Compliance component #1 of 5						
	C	ompliance criteria:			Verification method(s):		
		estem discharge sewage to the bound surface.	☐ Yes	⊠ No	☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home		
		rstem 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		
		ny "yes" answer above indicates I Imminent Threat to Public Heal			☐ 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			
	C	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		
		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"		
		ny "yes" answer above indica /stem is Failing to Protect Gro			 ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) 		
	С	omments/Explanation:					
	lt :	wered underwater camera into tanks - should be noted that the lift pump alarr tify the occupants of the house in the	n is curre	ntly not operational	I. This alarm should be repaired as soon as possible to		
	110	the decupants of the flouse in the t	e control a	pump manunction.	•		
3.	0	ther Compliance Conditions	5 – Comp	oliance componer	nt #3 of 5		
	a.	Maintenance hole covers are damaged	d, cracked	, unsecured, or app	pear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown *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		er conditions as det	termined by inspector ☐ Yes* ☐ No		
		Explain:					

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		4 of 10				
Prop	perty address: 3090 Perrot Ave S, Afton, MN 5	55001	Inspector initials/Date: 10/	15/2020 BH (M		
4.						
	Date of installation:	☑ Unknown	Verification method(s):			
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ☐ No	Soil observation does not expire. Probservations by two independent pa			
	Compliance criteria:		unless site conditions have been altered or local requirements differ.			
	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	☐ Conducted soil observation(s) (//☐ Two previous verifications (Attack)	ch boring logs)		
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		 Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation) Comments/Explanation: Reviewed previous compliance inspection from 2014. 			
	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				
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate depths of elevations			
	systems built under pre-2008 Rules; Type IV 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 Bearook.		D. Required compliance separation*			
	Any "no" answer above indicates to Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent it Ordinance.	allowed by Local		
5.	Operating Permit and Nitrogen B	MP* – Compliance	component #5 of 5 Not app	licable		
	Is the system operated under an Operating Per	mit?	☐ No If "yes", A below is required			
	Is the system required to employ a Nitrogen BM	IP? ☐ Yes ☐	No If "yes", B below is required			
	BMP=Best Management Practice(s) specific	ied in the system desi	gn			

If the answer to both questions is "no", this section does not need to be completed.

Compliance criteria

a.	Operating Permit number:	☐ Yes ☐ No
	Have the Operating Permit requirements been met?	☐ Yes ☐ No
b.	Is the required nitrogen BMP in place and properly functioning?	☐ Yes ☐ No

Any "no" answer indicates Noncompliance.

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

This information will be used for the purpose of conducting an MPCA	Compliance Inspection.			
Date of Inspection: October 15, 2020	Time: 10:00 AM			
Property Address: 3090 Perrot Ave S, Afton, MN	Zip: 55001			
Property Owner: Kathy & Stewart Brooks	Phone: 651-436-6491			
Tank(s) Tank(s)Material Soil Treatment System □ Septic □ Fiberglass □ Rock trench □ Aerobic □ Plastic □ Gravelless trench □ Septic/Lift □ Metal □ Chamber trench □ Holding □ Concrete □ Seepage bed □ Other: □ Block □ Mound □ Other □ At-grade Are the tank maintenance covers accessible? □ Yes □ No *If	Other Alternative system Experimental system Cesspool system Other system			
performed through the maintenance holes. Maintenance hole covers				
the ground surface to facilitate access and proper maintenance of	the system.			
•	Tank size (gals.): 1000			
	esidents in home? 2-5			
Number of bedrooms? 3 Are all floors drained by g	<i>y</i>			
Garbage disposal? Y Whirlpool bath?	N			
More than one system (laundry, etc.)? N				
Does this property have any footing drain tiles connected to the se	eptic 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 bu	ildings? N			
Location of septic system on lot? Tank - North Side, Drainfield -				
	e well a deep well? Y			
Have you ever experienced any problems with the system such as surfacing of sewage onto the ground, septic tank overflowing, etc. to the system? N If yes, explain:	; or have any repairs been made			
v 1 1	per: Meyer Sewer Service			
	n on a monitoring plan? N			
Have you received notices from any government agency concerni	ng 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	e new owner? N			
I hereby certify that the above information is correct to the best of my knowledge considered "non-compliant/failing" per MPCA rules, that the inspector must by local government unit within 15 days of the date of inspection completion. I all this report, that I/we are ultimately responsible for payment of all fees for all we by Inspect Minnesota and Midwest Soil Testing	law submit a copy of this report to the so agree that unless otherwise noted in			
Owner/Occupant:	Date:			

Soil Observations Log

Location of Project: 3090 Perrot Ave S, Afton, MN 55001							
Observations Made By: Midwest Sewer Serv					Date:	10/15/2020	
C	Classific	ation System:	USDA				
	Soil	Observation:	ST-1		Soil O	bservation:	
Surface Elevation of Observation		_	nd surface as last field trench	Surface Elevation of Observation			
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils Encountered	
0-12	≈10		t Loam (Very Dry)				
12-65	≈10-15	10YR 4/4 Me	th Gravel edium Coarse Sand th Gravel				
65"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox
	Same Elevation Of Observation Relative To System					tion Relative To System	
-30" Depth To Bottom Of Distribution Media					Distribution Media		
	Of Sepa		Scribation Media		Of Sepa		Distribution Pledia
End Of Soil Observation At: 65"			End Of		servation At:		
		dox Present At:	None			x Present At:	
Star	nding Wa	ter Present At:	None	Standi	ng Wate	r Present At:	

Bottom Of Distribution Medium At: 30 Inches			
Signature:	Chan la		

Log Of Soil Borings

Location of Project: 3090 Perrot Ave S, Afton, MN 55001					
Borings Made By: Inspect Minnesota		Date:		10/16/14	
Auger Used: Hand/Bucket		Classification System:		USDA	
	Boring Number:	1		Boring Number:	
Surface Elevation	of Same ground	surface as last drop spection pipe	Surface Elevation		
Boring	DOX III	Spection pipe	Boring		
Depth In Inches	Soils E	<u>ncountered</u>	Depth In Inches	Soils En	countered
0-10 10-72		/1 Silt Loam irse Sand & Gravel			
72"	Depth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
	Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System
-30" Depth To Bottom Of System		Depth To Bottom Of System			
≥42"	Of Separation			Of Separation	
	End Of Boring At:	72"		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: 30 I	nches

DISCLAIMER

Brian L. Humpal, Inc. dba. Midwest Sewer Services, 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 only 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 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

Midwest Sewer Services

License # L2896

License Expires: 12/22/2020

Issued: 11/26/2019

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert # Na

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2023

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852 4

Christopher R Uebe

3/4/2021

Designer, Inspector



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

Nick Haig, Supervisor Certification and Training Unit