Midwest Sewer Services

P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: July 14, 2020 Time: 10:00 AM Owner: Hakala Estate

Inspection Address: 4111 Penfield Ct S, Afton, MN 55001

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1987) consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

The second drainfield trench was completely exposed (see attached picture) and the other trenches only have a couple inches of cover.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(A)(B)(E) because of the imminent threat to public health and safety due to the potential for sewage to discharge onto the ground and the lack of the required two foot separation between the bottom of the drainfield and bedrock.

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 the Washington County Department of Public Health & Environment (651-430-6655) to verify the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

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): _7/14/2020				
— · — · —	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 thre □ Tank Integrity (Compliance Component #2) – Failing to protect groundwate □ Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate □ Soil Separation (Compliance Component #4) – Failing to protect groundwate □ Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er tect groundwater ater			
Property Information Parcel ID# or Sec/Twp/Range	ge:			
Property address: 4111 Penfield Ct S, Afton, MN 55001 Reason for	or inspection: Property Transfer			
Property owner: Hakala Estate Owner's	phone:			
Owner's representative: Bo Hakala (Son) Represer	tative phone:			
	Representative phone: 651-430-6655			
Brief system description: A pre-cast septic tank and a rock trench drainfield.	<u> </u>			
Comments or recommendations:				
The second drainfield trench was completely exposed (see attached picture) and the o cover.	ther trenches only have a couple inches of			
Certification				
I hereby certify that all the necessary information has been gathered to determine the of 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 Certificati	on number: C5342/C9852			
Business name: Midwest Sewer Services Licen	se number: L2896			
Inspector signature: Brian Humpal Man Uh Pho	ne number: 651-492-7550			
Necessary or Locally Required Attachments				
Soil boring logs	local ordinance			
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic	ense			

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Property address: 4111 Penfield Ct S, Afton, MN 55001

Inspector initials/Date: __7/14/2020 **B#**

Imp	pact on Public Health – Cor	mpliance compone	nt #1 of 5				
Con	npliance criteria:		Verification method(s):				
		⊠ Yes □ No	☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home				
		☐ Yes ⊠ No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system 				
		☐ Yes ⊠ No	System requires "emergency" pumping Performed dye test				
			 ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) 				
The	second drainfield trench was comple	etely exposed (see at	ttached picture) and the other trenches only have a couple				
Tan	nk Integrity – Compliance com	nponent #2 of 5					
Con	npliance criteria:		Verification method(s):				
		☐ Yes ⊠ No	☑ Probed tank(s) bottom☑ Examined construction records				
			Examined Tank Integrity Form (Attach)Observed liquid level below operating depth				
desig	gned operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s)☐ Probed outside tank(s) for "black soil"				
Any "yes" answer above indicates the			 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 				
Lowe	ered underwater camera into tank - I						
a. N	Maintenance hole covers are damaged	d, cracked, unsecured	I, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown				
		<u> </u>					
E	explain:						
;	System is failing to protect ground		s as determined by inspector ☐ Yes ☒ No				
	Syst group Syst or sure or sur	Compliance criteria: 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 an Imminent Threat to Public Head Comments/Explanation: The second drainfield trench was complete inches of cover. Tank Integrity — Compliance con 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 answer above indicates and the service of ground was an imminent threat to put the system is an imminent threat to put the system is an imminent threat to put the system is non-protective of ground was considered. C. System is non-protective of ground was considered.	Compliance criteria: 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: The second drainfield trench was completely exposed (see at inches of cover. 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 be of the insues (electrical hazards, etc.) to immediately and adve "System is an imminent threat to public health and safe Explain: c. System is non-protective of ground water for other condition "System is failing to protect groundwater"				

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Pro	perty address: 4111 Penfield Ct S, Afton, MN	55001		Inspector initials/Date: 7/14/2020	\mathcal{A}	
4.	Soil Separation – Compliance compor	nent #4 c	of 5			
	Date of installation: 1987 Shoreland/Wellhead protection/Food Beverage Lodging?	Unkr	_	Verification method(s): Soil observation does not expire. Previous soil observations by two independent parties are sufficient.	cient,	
	Compliance criteria:	T		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	requirements differ. Conducted soil observation(s) (Attach boring II Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no 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	Comments/Explanation:		
	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 Attache Boring Logo		
	Drainfield meets the designed vertical			B. Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.			C. System separation		
	Any "no" answer above indicates the system is Failing to Protect Groundwater.			D. Required compliance separation* *May be reduced up to 15 percent if allowed by Local Ordinance.		
5.	Operating Permit and Nitrogen B	MP* – C	Compliance c	component #5 of 5 Not applicable		
	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 BM	IP?	☐ Yes ☐	No If "yes", B below is required		
	BMP=Best Management Practice(s) specif	ied in the	system desigr	ו		
	If the answer to both questions is "no",	this sec	tion does n	ot need to be completed.		
	Compliance criteria					
	a. Operating Permit number:			☐ Yes ☐ No		
	Have the Operating Permit requirements I	oeen met	?			
	b Is the required nitrogen BMP in place and	properly	functioning?	☐ Yes ☐ No		

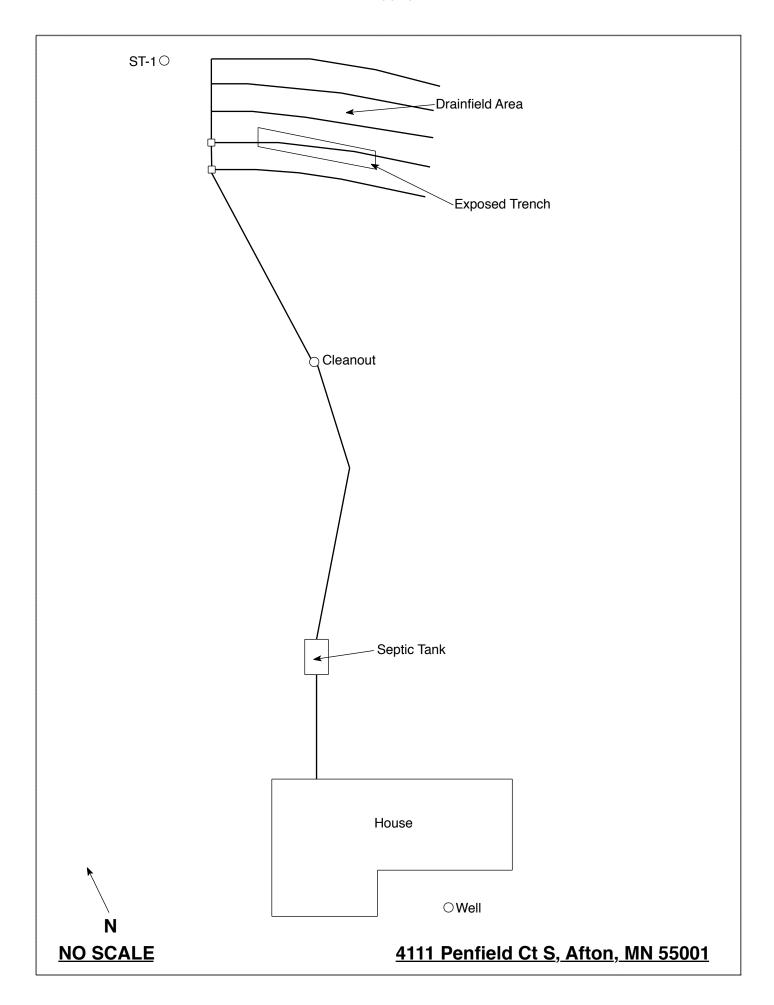
Any "no" answer indicates Noncompliance.

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 all MFCA	A Comphance mspection.			
Date of Inspection: July 14, 2020	Time: 10:00 AM			
Property Address: 4111 Penfield Ct S, Afton, MN	Zip: 55001			
Property Owner: Hakala Estate	Phone:			
Tank(s) Tank(s)Material Soil Treatment System Septic 1 □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 cov				
the ground surface to facilitate access and proper maintenance of				
1	Tank size (gals.): 1500			
	esidents in home? 1-4			
Number of bedrooms? 4 Are all floors drained by §				
Garbage disposal? Y Whirlpool bath	? N			
More than one system (laundry, etc.)? N				
Does this property have any footing drain tiles connected to the s	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 b	uildings? N			
Location of septic system on lot? North Side				
	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? If yes, explain:				
v 1 1	nper: Pinky's Sewer Service			
	n on a monitoring plan?			
Have you received notices from any government agency concern	ing this system?			
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the	ne new owner?			
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 at 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 lso agree that unless otherwise noted in			
Owner/Occupant:	Date:			



Soil Observations Log

	Location of Project: 4111 Penfield Ct S, Afton, MN 55001						
Ot	Observations Made By: Midwest Sewer Ser				Date:	7/14/2020	
C	Classific	ation System:	USDA				
	Soil	Observation:	ST-1	Soil Observation:			
Surface Elevation of Observation Same ground surface as last drainfield trench			face tion of vation				
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils Encountered	
0-5 5-14 14-22 22-29		10YR 4 10YR 3 10YR 3/4 Bedrock F Refu	ncountered Depth In Inches Soils Encountered Soi				
29"	Depth T	To End Of Soil Observation Or Redox			Depth To End Of Soil Observation Or Re		Observation Or Redox
Same	Same Elevation Of Observation Relative To System		Elevation Of Observation Relative To System		tion Relative To System		
-18" Depth To Bottom Of Distribution Media				Depth T	o Bottom Of I	Distribution Media	
≥11" Of Separation				Of Sepa			
End Of Soil Observation At: 29" End			End Of	Sail Oh	servation At:		
End				Elia Ol			
Redox Present At: None Standing Water Present At: None			Redox Present At: Standing Water Present At:				
Standing water Fresent At. None 3			Stanul	ng wate	i i resent At.		

Bottom Of Distribution Medium At: 18 Inches			
Signature:	Chan la		



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