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

Inspection Address: 14640 Scandia Trail N, Scandia, MN 55073

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 consists of a pre-cast septic tank (installed in 1975), a pre-cast lift tank, and a mound (installed in 1991). 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 septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance. Additionally, the septic tank and lift tank are currently due for maintenance pumping and should be pumped when possible in the spring of 2020.

Predicated on my inspection of the system and my review of the original design/permit 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): 2/18/2020	
·	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 threat to 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	qe:
• •	or inspection: Property Transfer
Property owner: Bill Lowe Owner's p	phone: 907-414-9994
or	
· · · · · · · · · · · · · · · · · · ·	tative phone:
· · · · · · · · · · · · · · · · · · ·	y authority phone: 651-430-6655
Brief system description: A pre-cast septic tank (1975), a pre-cast lift tank, and a mode Comments or recommendations:	ound.
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 unknow possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Brian Humpal/Christopher Uebe Certificati	on number: <u>C5342/C9852</u>
Business name: Midwest Sewer Services Licen	se number: L2896
Inspector signature: Brian Thempal Man De Pho	ne number: 651-492-7550
Necessary or Locally Required Attachments	
	local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic	

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Property address: 14640 Scandia Trail N, Scandia, MN 55073

Inspector initials/Date: _2/18/2020 **B#**

1.	lm	Impact on Public Health - Compliance component #1 of 5					
	Co	ompliance criteria:		Verification method(s):			
		stem discharge sewage to the ound surface.	☐ Yes ⊠ No	 ✓ Searched for surface outlet ✓ Searched for seeping in yard/backup in home 			
		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 			
	System cause sewage backup into		☐ System requires "emergency" pumping ☐ Performed dye test				
		ny "yes" answer above indicates Imminent Threat to Public Heal	_	☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
		nmments/Explanation: poring over the mound indicated no sig	ans of ponding or black/grey	v soils			
	, , ,	ooning over the mount indicated no dig	gne or portaing or blackaging	oone.			
2.	Ta	ank Integrity – Compliance com	ponent #2 of 5				
	Co	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			
	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 			
		wage tank(s) leak below their signed operating depth.	☐ Yes ☒ No	☐ Examined empty (pumped) tanks(s)			
	lf y	ves, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil" ☐ Unable to verify (See Comments/Explanation)			
		ny "yes" answer above indica estem is Failing to Protect Gro		☐ Other methods not listed (See Comments/Explanation)			
Comments/Explanation:							
	Lowered underwater camera into tanks - baffles and tank walls OK. Lift pump and alarm were operational at the time of the inspection.						
3.	01	ther Compliance Conditions	5 – Compliance compone	ent #3 of 5			
	a.	Maintenance hole covers are damaged	·				
	b.	Other issues (electrical hazards, etc.) to in *System is an imminent threat to pu	mmediately and adversely in	•			
		Explain:					
	C.	System is non-protective of ground wa *System is failing to protect ground		termined by inspector □ Yes* ⊠ No			
		Explain:					

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Property address: 14640 Scandia Trail N, Scandia, MN 55073

Inspector initials/Date: 2/18/2020 **BA**

	Date of installation: 1975/1991	□llnbr	nown	W	arification mathod(s):		
	Shoreland/Wellhead protection/Food Beverage				Verification method(s):		
	Lodging?	☐ Tes ☑ No		ol	Soil observation does not expire. Previous soil observations by two independent parties are sufficient		
	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 (Atta Not applicable (Holding tank(s), r	nch 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		omments/Explanation: eviewed design and permit record	ds.	
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes	□No	In	ndicate 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)			<u>A.</u>	Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical			B.	Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.			<u>C</u> .	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.		
	ranning to Frotect Groundwater.			_	Jiumance.		
j.	Operating Permit and Nitrogen B	MP* – 0	Complian	ce com	ponent #5 of 5 Not app	olicable	
	Is the system operated under an Operating Pen		☐ Yes	□No			
	Is the system required to employ a Nitrogen BM		_ □ Yes	— □ No	-		
	BMP=Best Management Practice(s) specific		system de	esign	•		
	If the answer to both questions is "no",		-	-	need to be completed.		
	•				•		
	Compliance criteria a. Operating Permit number:						
	· · · · · · · · · · · · · · · · · · ·	44			☐ Yes ☐ No		
	Have the Operating Permit requirements to	neen met	/				

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.

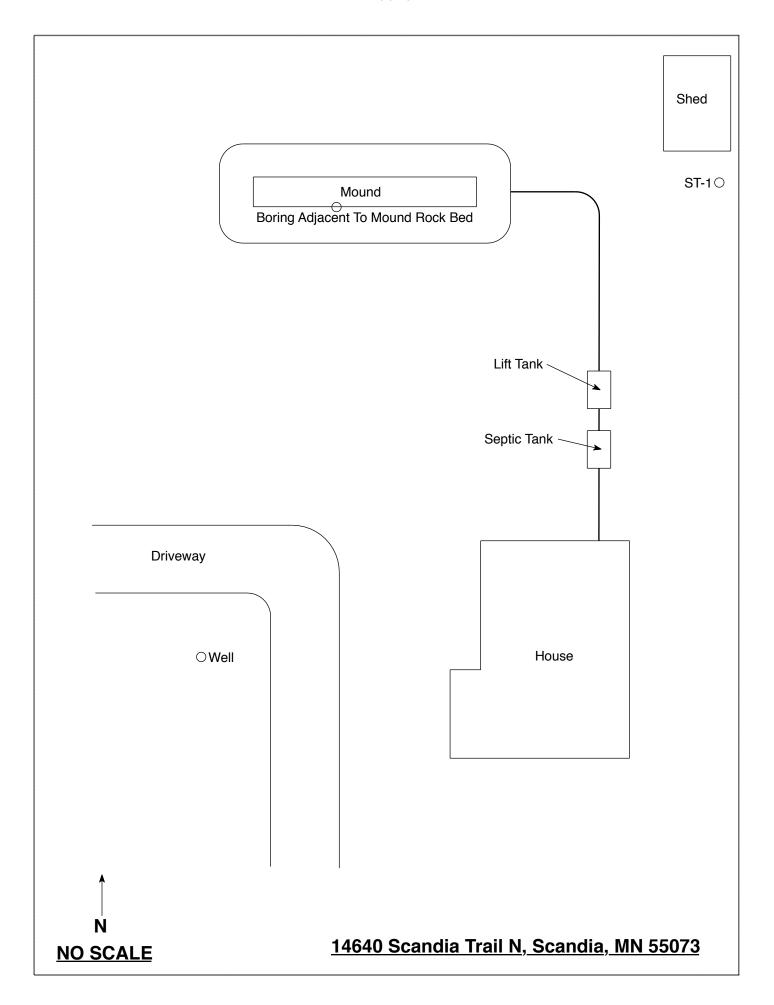
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<u>Midwest & ewer Testing</u> <u>Subsurface Sewage Treatment System Owner/Property Information</u>

This inf	ormation will be used for the pu	urpose of conducting an MP	CA Compliance Inspection.		
Date of Inspection:	March 18, 2020		Time: 9:15 AM		
Property Address:	14640 Scandia Trail N	, Scandia, MN	Zip: 55073		
Property Owner:	Bill Lowe		Phone: 907-414-9994		
performed through	the maintenance holes.	Maintenance hole c	Alternative system Experimental system Cesspool system Other system If no, proper maintenance must be overs should be made accessible to		
the ground surface	to facilitate access and	proper maintenance	of the system.		
Year house built: 1	901 Year septic		Tank size (gals.): 1200		
	r owned the property?	•	residents in home?		
Number of bedroom	ns? 3 Are	e all floors drained by			
Garbage disposal?		Whirlpool ba	th?		
	em (laundry, etc.)?				
Does this property	have any footing drain	tiles connected to the	septic system?		
, c	Are any buildings on this property such as garages or out-buildings connected to this system?				
Are there any addit	tional systems on this pr	roperty serving other	buildings?		
Location of septic	system on lot? North Sie	de			
Location of water v	well on lot? West Side	Is	the well a deep well? Y		
Have you ever exp	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 syste	em last pumped? 2017	Name of p	umper: Smillie's Sewer Service		
How often pumped in previous years?					
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 a	dditional information th	at 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					

Date:

Owner/Occupant:



BORING LOG

BORIN	[G ⊭/	BORING #2
	O" - 22" DRK. BROWN FINE SANDY LOAM	DRK. BROWN FINE SANDY LOAM
	22"- 31" LT. REDDISH BRN. FINE LOAMY SAND & SANDY LOAM	8"- 22" BRN. FINE SANDY LOAM MIXED WITH DRK. BRN. FINE SANDY.
	31" - 50" LT. RED FINE SANDY CLAY (MOIST - WET) (HEAVY - - MOTTLED)	22"- 60" LT. GRAY BRN. FINE SANDY CLAY (MOIST) (HEAVY MOTTLED)
	50"- 60" RED CLAY TILL (VERY STIFF) (MOTTLED)	
	END BORING	END BORING
	SATURATION ZONE: IMPERVIOUS	LAYER - WATER INDICATED:
	DEPTH_(31")	DEPTH_(22")

BORING LOG

BORING #3	BORING #4		
O" - 10" DRK. BROWN FINE SANDY LOAM 10"- 18" LT. REDDISH BRN. FINE	O" - 12" DRK. BROWN FINE SANDY LOAM 12"- 16" LT. RED FINE SANDY LOAM		
SANDY LOAM (MOIST) LOAM 18" - 24" LT. RED FINE SANDY LOAM (MOIST - WET) (MOTTLED)	16"- 22" RED FINE SANDY CLAY (MOIST) (MOTTLED)		
24"- 60" RED CLAY TILL (VERY STIFF) (MOTTLED)	22"- 60" RED CLAY TILL (COMPRESSED) (VERY STIFF - MOTTLED)		
END BORING	END BORING		
SATURATION ZONE: IMPERVIOU	S LAYER - WATER INDICATED:		
DEPTH_(18")	DEPTH(16")		

Soil Observations Log

	Locat	ion of Project:	14640 Scandia Trai	I N. Sca	andia. M	IN 55073	
Ol	Observations Made By: Midwest Sewer Ser				Date:	2/18/2020	
		ation System:	USDA				
		l Observation:	ST-1		Soil C	bservation:	
Elevat	face tion of vation		as upslope mound ock bed		face tion of vation	'	
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils Encountered	
0-24 0-48 48-51		7.5YR 5/8 8 Mour Origi 48"-24"(Botton					
0"	Donth 3	To Dodov			Donth T	o End Of Cail	Observation Or Radov
0" Depth To Redox					Observation Or Redox		
+24" Amount of Sand Below Rock Bed			Elevatio	n Of Observat	tion Relative To System		
=24" Of Separation					Distribution Media		
				Of Sepa	iration		
End	Of Soil (Observation At:	24"	End Of	Soil Oh	servation At:	
Liid		dox Present At:	0"	2 51		x Present At:	
Star		ater Present At:	None	Standi		r Present At:	
Standing Water Frescht At. None					5		

Bottom Of Distribution Medium At: 24 Inches			
Signature:	Color Ole		

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