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: 10210 Hadley Ave N, Grant, MN 55110

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 1986) consists of a pre-cast septic tank, a pre-cast lift tank, and a mound. 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 mound rock bed is sized for a three bedroom home. This house currently has five bedrooms.

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 track	king 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): <u>3/17/2020</u>		
	n pliant – Not rade Requireme	tice of Noncompliance ents 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 the 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 hea er tect groundwate ater	alth and safety er
Property Information Parcel ID# or Sec/Twp/Range	ie:	
		Property Transfer
Property owner: Barb MacKenzie Owner's	hone: 651-4	26-3646
or		
· · · · · · · · · · · · · · · · · · ·	tative phone:	
· · · · · · · · · · · · · · · · · ·	y authority phor	ne: 651-430-6655
Brief system description: A pre-cast septic tank, a pre-cast lift tank, and a mound.		
Comments or recommendations:		
Although not a compliance criteria, it should be noted that the drainfield is located in ar	easement on ti	ne neignboring golf course.
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: C	5342/C9852
Business name: Midwest Sewer Services Licer	se number: L	2896
Inspector signature: Brian Humpal Hum III	ne number: 6	51-492-7550
Necessary or Locally Required Attachments		
	ocal ordinance	
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic		
. ,		

Property address: 10210 Hadley Ave N, Grant, MN 55110

Inspector initials/Date: 3/17/2020 **B#**

1.	In	npact on Public Health – Con	npliance	component #1 of	of 5
	Sy gro Sy or Sy dw	estem discharge sewage to the bund surface. Its tem discharge sewage to drain tile surface waters. Its tem cause sewage backup into velling or establishment. In y "yes" answer above indicates in Imminent Threat to Public Heal of the above found.	the sys	⊠ No ⊠ No etem is	Verification method(s): Searched for surface outlet Searched for seeping in yard/backup in home Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "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)
2.		ank Integrity – Compliance com	ponent #	‡2 of 5	Varification mathod(s):
2	Syce Secon Secon Manual Sy Coc Loc Liff	restem consists of a seepage pit, sspool, drywell, or leaching pit. repage pits meeting 7080.2550 may be impliant if allowed in local ordinance. rewage tank(s) leak below their signed operating depth. res, which sewage tank(s) leaks: remy "yes" answer above indicates the impliant is Failing to Protect Ground in the impliant is Failing to Protect Ground in the impliant is Failing to Protect Ground in the impliant is pump and alarm were operational at the impliant in the impliant in the impliant is pump and alarm were operational at the impliant in t	baffles ar	No ter. and tank walls OK. f the inspection.	
3.	a. b.	_	d, cracked, mmediatel blic healt	, unsecured, or app y and adversely im h and safety	opear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown

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Pro	perty address: 10210 Hadley Ave N, Grant, MI	N 55110	Inspector initials/Date: 3/1	7/2020 BA ()	
4.	Soil Separation – Compliance compor	nent #4 of 5			
	Date of installation: 1986	Unknown	Verification method(s):		
4	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes □ No	Soil observation does not expire. Previous soil observations by two independent parties are sufficient unless site conditions have been altered or local requirements differ. Conducted soil observation(s) (Attach boring logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation)		
	Compliance criteria:				
	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			
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				
	Non-performance systems built April 1,	⊠ Yes □ No	Comments/Explanation:		
	1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed design and permit record	S.	
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
	"Experimental", "Other", or "Performance"				
	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		B. Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.		C. System separation		
			D. Required compliance separation*		
	Any "no" answer above indicates to Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Local	
5.	Operating Permit and Nitrogen B	MP* – Compliance c	component #5 of 5 🛮 🗵 Not app l	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 BN	IP? ☐ Yes ☐	No If "yes", B below is required		
	BMP=Best Management Practice(s) specif	ïed in the system desigi	n		
	If the answer to both questions is "no",	this section does n	ot need to be completed.		
	Compliance criteria				
	a. Operating Permit number:				
	Have the Operating Permit requirements I	peen met?	☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and	properly functioning?	☐ Yes ☐ No		

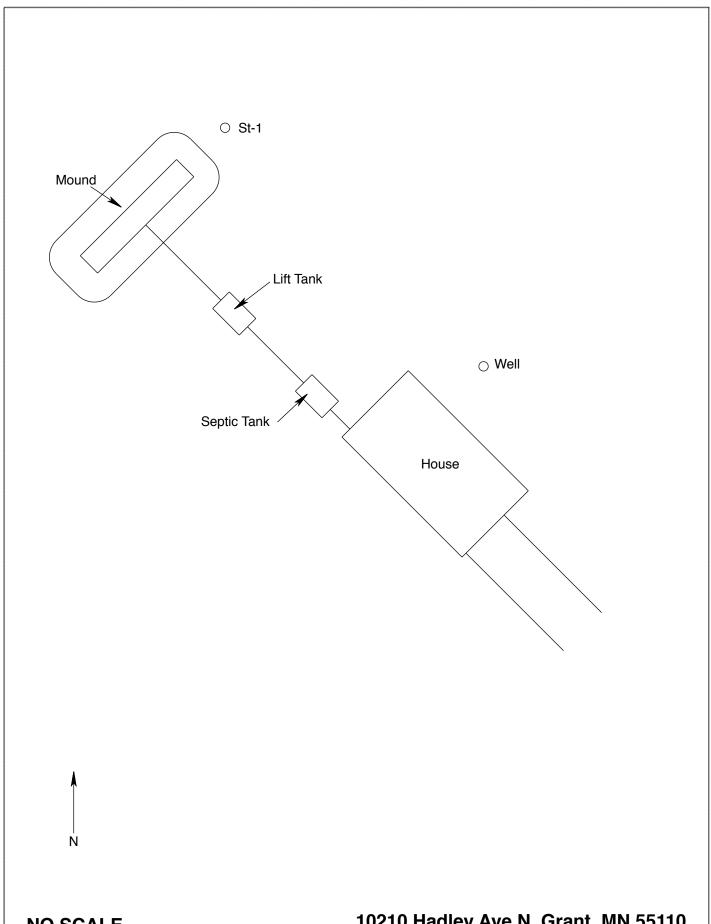
Any "no" answer indicates Noncompliance.

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 MFCA	Compilance inspection.				
Date of Inspection: March 17, 2020	Time: 12:00 PM				
Property Address: 10210 Hadley Ave N, Grant, MN	Zip: 55110				
Property Owner: Barb MacKenzie	Phone: 651-426-3646				
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					
performed through the maintenance holes. Maintenance hole cov	ers should be made accessible to				
the ground surface to facilitate access and proper maintenance of	the system.				
	Tank size (gals.): 1200				
	esidents in home? 1-2				
Number of bedrooms? 5 Are all floors drained by g					
Garbage disposal? N 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-building					
Are there any additional systems on this property serving other bu	uildings? N				
Location of septic system on lot? West 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? N If yes, explain:					
, i i	nper: Smilie's 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? Y					
Do you have any additional information that should be given to the	ne new owner? N				
I hereby certify that the above information is correct to the best of my knowledg 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 a 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:				



NO SCALE

10210 Hadley Ave N, Grant, MN 55110

Soil Observations Log

Location of Project: 10210 Hadley Ave N, Grant, MN 55110							
Observations Made By: Midwest Sewer Ser						Date:	3/17/2020
Classification System: USDA							
Soil Observation: ST-1				Soil O	bservation:		
Surfa Elevati Observ	on of		top of mound on nal contour		face tion of vation		
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils	Encountered
I TROCK WILL SAME FACALINIATAN							
26" Depth To End Of Soil Observation Or Redox					Depth T	o End Of Soil	Observation Or Redox
+41" Elevation Of Observation Below Top Of Mound						tion Relative To System	
-28" Depth To Bottom Of Distribution Media				Depth T	o Bottom Of	Distribution Media	
≥39" Of Separation				Of Sepa			
End C	End Of Soil Observation At: 26" End Of Soil Observation At:						
Ena C	End Of Soil Observation At: 26"			Ena Of			
Redox Present At: None			Standi		x Present At: r Present At:		
Stant	Standing Water Present At: None				ng wate	riesent at:	

Bottom Of Distribution Medium At: 28 Inches						
Signature:	Offer 1h					

BORING LOG

8 of 10

BOREHOLE DIAMETER 4"-3"-2½"

DATE 6-15-8	4	-		ВО	HAND	AUGER
DEPTH HO	LE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	HOLE #6
FEET NO		TOP SOIL	TOP SOIL	- FOP SOIL	- TOP 50/L	TOP SOIL
1		- BROWN, MEDIUM	_BROWN, MEDIUM -	BROWN, MEDIUM -	- BROWN, MEDIUM - SAND - 1/2" 70 2"	- BROWN, MEDIUM SAND-1" TO 2"
- BROW SAND	IS, MEDIUM	- SAND WITH IRON - - STAINING - I"ASCKS	SAND WITH IRON - STAINING - 1" TO Z" - ROCKS	ROCKS - LIGHT - CLAY LAYERS - SAND IS DAMP	ROCKS TO Z	- Rocks
2 - STAIL	VING-	- 	- MOTILED SOIL WET -	- -		- - -
	-	HEAUY MOTILE-	- 2027	- -		-
3 - 4690	Y MOTILE	- WET -	-	-	UERY LIGHT IRON - STAINING - BROWN MEDIUM SAND	- - -
A JANI	, MEDIUM - O WITH - STAINING	_ S70P	STOP	LIGHT MOTTLE	-	OBSTRUCTION STOP
SANI	O IS DAMP		-	MEAUY, WET	MOTTLED SOIL	
5 —						-
6			-	-	STOP _	-
+	S70P _	_	<u>+</u>		<u> </u>	
7 —			-	+ -	-	
\ -+-	TLE 2'6" —	MoπLE 2'6" -	MOTTLE 2'	MOTILE 4'	MOTTLE 4'6"	 -
8 —			-	-	- -	+
9 —	_	-	-	-	<u>+</u> -	- -
+	_ 	<u>+</u> -	<u> </u>	+	-	+
10			-	+	<u>+</u> =	

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