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: 11801 Lockridge Ave S, Cottage Grove, MN 55033

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the history of the system with the owner's son, Eric Nelson. I have contacted Washington County and was advised that there are no records for this system. This very old system (installed in 1980) consists of two pre-cast septic tanks 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 septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance.

Predicated on my inspection of the system and my review of the history of the system with the owner's son, 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 (M requirements and attached forms – additional local requirements may also apply.	PCA) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system ow within 15 days	ner
System Status	
System status on date (mm/dd/yyyy):	
	ncompliant – Notice of Noncompliance te Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent the Other Compliance Conditions (Compliance Component #3) – Immine Tank Integrity (Compliance Component #2) – Failing to protect group Other Compliance Conditions (Compliance Component #3) – Failing Soil Separation (Compliance Component #4) – Failing to protect group Operating permit/monitoring plan requirements (Compliance Component	ent threat to public health and safety undwater u to protect groundwater oundwater
_	
Property Information Parcel ID# or Sec/Tw	p/Range:
Property address: 11801 Lockridge Ave S, Cottage Grove, MN 55033 Real	ason for inspection: Property Transfer ner's phone:
Owner's representative: Eric Nelson - Son Re	presentative phone: 763-567-3499
· · · · · · · · · · · · · · · · · · ·	gulatory authority phone: 651-430-6655
Comments or recommendations:	
Certification	
I hereby certify that all the necessary information has been gathered to determin	a the compliance status of this system. No
determination of future system performance has been nor can be made due to u	
determination of future system performance has been nor can be made due to u possible abuse of the system, inadequate maintenance, or future water usage.	
determination of future system performance has been nor can be made due to upossible abuse of the system, inadequate maintenance, or future water usage.	nknown conditions during system construction,
possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: _Brian Humpal/Christopher Uebe Ce	nknown conditions during system construction, rtification number: _C5342/C9852
determination of future system performance has been nor can be made due to upossible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Brian Humpal/Christopher Uebe Ce Business name: Midwest Sewer Services Inspector signature: Aumpal	nknown conditions during system construction, rtification number: C5342/C9852 License number: L2896
determination of future system performance has been nor can be made due to upossible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Brian Humpal/Christopher Uebe Ce Business name: Midwest Sewer Services Inspector signature: Attachments	nknown conditions during system construction, rtification number: C5342/C9852 License number: L2896

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Property address: 11801 Lockridge Ave S, Cottage Grove, MN 55033

Inspector initials/Date: 7/27/2020 8# ()

Impact on Public Health – Compliance component #1 of 5 Compliance criteria: Verification method(s): Searched for surface outlet System discharge sewage to the ☐ Yes ☐ No Searched for seeping in yard/backup in home ground surface. System discharge sewage to drain tile ☐ Yes ☐ No ☐ Homeowner testimony (See Comments/Explanation) or surface waters. ☐ "Black soil" above soil dispersal system ☐ Yes ☐ No System cause sewage backup into ☐ System requires "emergency" pumping dwelling or establishment. ☐ Performed dye test Any "yes" answer above indicates the system is Unable to verify (See Comments/Explanation) an Imminent Threat to Public Health and Safety. Other methods not listed (See Comments/Explanation) Comments/Explanation: None of the above found. 2. Tank Integrity – Compliance component #2 of 5 Verification method(s): Compliance criteria: □ Probed tank(s) bottom System consists of a seepage pit, ☐ Yes ☐ No cesspool, drywell, or leaching pit. ☐ Examined construction records Seepage pits meeting 7080.2550 may be ☐ Examined Tank Integrity Form (Attach) compliant if allowed in local ordinance. ☐ Observed liquid level below operating depth ☐ Yes ⊠ No Sewage tank(s) leak below their ☐ Examined empty (pumped) tanks(s) designed operating depth. ☐ Probed outside tank(s) for "black soil" If yes, which sewage tank(s) leaks: ☐ Unable to verify (See Comments/Explanation) Any "ves" answer above indicates the ☐ Other methods not listed (See Comments/Explanation) system is Failing to Protect Groundwater. Comments/Explanation: Lowered underwater camera into tank - baffles and tank walls OK. 3. Other Compliance Conditions – Compliance component #3 of 5 Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ⊠ No ☐ Unknown a. 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: System is non-protective of ground water for other conditions as determined by inspector ☑ No *System is failing to protect groundwater Explain:

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Property address: 11801 Lockridge Ave S, Cottage Grove, MN 55033

Inspector initials/Date: 7/2/2020 **BA**

4.	Soil Separation – Compliance compor	nent #4 of 5			
	Date of installation: 1980	Unknown	Verification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes	Soil observation does not expire. Probservations by two independent pa		
	Compliance criteria:	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 logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation)		
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				
	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"	_	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		B. Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.		C. System separation		
	Any "no" analyse shave indicates t	ha ayatam ia	D. Required compliance separation*		
	Any "no" answer above indicates to Failing to Protect Groundwater.	me system is	*May be reduced up to 15 percent if Ordinance.	allowed by Local	
5.	Operating Permit and Nitrogen B	MP* – Compliance co	omponent #5 of 5 🔀 Not appl	icable	
	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 design			
	If the answer to both questions is "no",	this section does no	ot need to be completed.		
	Compliance criteria				
	a. Operating Permit number:				
	Have the Operating Permit requirements to	peen met?	Yes No		
	b. Is the required nitrogen BMP in place and		☐ Yes ☐ No		
	A (II and a simple attack Name				

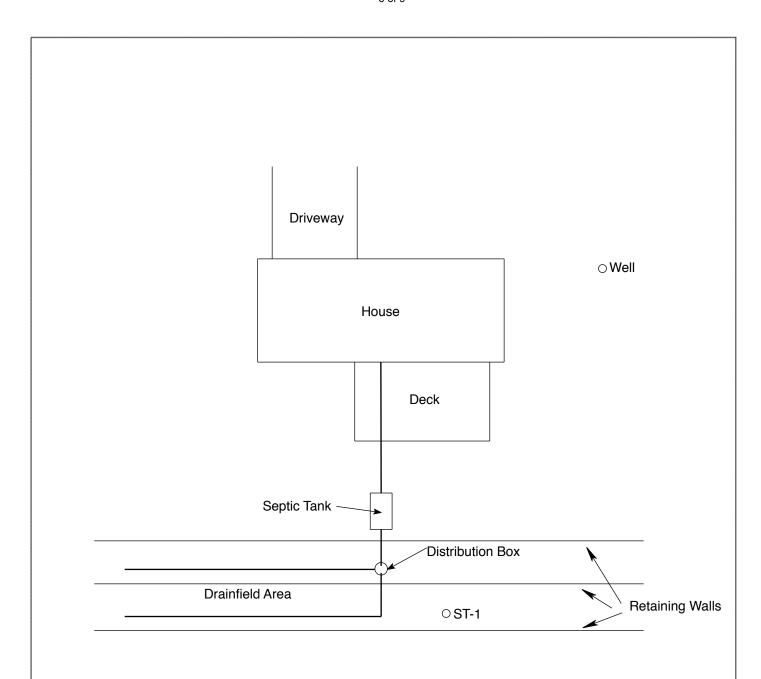
Any "no" answer indicates Noncompliance.

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.

Deta of Legentians Laboration and the purpose of conducting an MFCA				
Date of Inspection: July 27, 2020	Time: 12:45 PM			
Property Address: 11801 Lockridge Ave S, Cottage Grove, MN	Zip: 55033			
Property Owner: Delano Nelson	Phone: 763-567-3499			
<u>Tank(s)</u> <u>Tank(s)Material</u> <u>Soil Treatment System</u>	<u>Other</u>			
Septic 1 Fiberglass Rock trench	Alternative system			
Aerobic Plastic Gravelless trench	Experimental system			
Lift Metal Chamber trench	Cesspool system			
Holding Concrete Seepage bed	Other system			
Other: Block Mound Other At-grade				
Are the tank maintenance covers accessible? ☐ Yes ☒ No *If i				
performed through the maintenance holes. Maintenance hole cover	ers should be made accessible to			
the ground surface to facilitate access and proper maintenance of t	he system.			
Year house built: 1980 Year septic installed: 1980	Γank size (gals.): 1200			
	sidents in home? 2			
Number of bedrooms? 4 Are all floors drained by gravity? Y				
Garbage disposal? N Whirlpool bath?	-			
More than one system (laundry, etc.)? N	1			
Does this property have any footing drain tiles connected to the se	ntic system? N			
Does this property have any footing drain thes connected to the se	pue system? IN			
And any hyildings on this managery such as someone or any hyilding	a compacted to this system 2 N			
Are any buildings on this property such as garages or out-building	s connected to this system? IN			
Are there any additional systems on this property serving other but	ildings? N			
The there any additional systems on this property serving other ou.	numgs: 1v			
Location of septic system on lot? South Side				
	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 seen made			
to the system: It if yes, explain.				
When was the system last pumped? 2016 Name of pum	per: Sewer Services, Inc.			
	on a monitoring plan? N			
Have you received notices from any government agency concerning	<u> </u>			
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the new owner? N				
2 e yeur nur e uni uu universii in meenius en universii ee universii ee universii ee universii ee universii ee				
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 law submit a copy of this report to the				
local government unit within 15 days of the date of inspection completion. I also				
this report, that I/we are ultimately responsible for payment of all fees for all wor	rk performed relative to this inspection			
by Inspect Minnesota and Midwest Soil Testing				
Owner/Occupant:	Date:			



N NO SCALE

11801 Lockridge Ave S, Cottage Grove, MN 55033

Soil Observations Log

	Location of Project: 11801 Lockridge Ave S, Cottage Grove, MN 55033						
Observations Made By: Midwest Sewer Serv					Date:	7/27/2020	
CI	assifica	ation System:	USDA				
	Soil	Observation:	ST-1		Soil O	bservation:	
Surfa Elevation Observ	on of	_	nd surface as last field trench		face tion of vation		
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils	Encountered
0-5 5-19 19-38 38-70		10YR 4/4 F 10YR 4/4 F	2/2 Silt Loam Few Sandy Loam Fine Sandy Loam 6/4 Fine Sand				
70" [Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox
Same E				Elevatio	n Of Observat	tion Relative To System	
-38" Depth To Bottom Of Distribution Media					Distribution Media		
≥32" Of Separation			Of Sepa	ration			
Fnd C	of Soil (Observation At:	70"	Fnd Of	Soil Ob	servation At:	
Lilu C		dox Present At:	None	Liid Oi		x Present At:	
Stanc		ter Present At:	None	Standi		r Present At:	
Standing Water Fresent At. None Sta			Ctariai				

Bottom Of Distribution Medium At: 38 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 <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.

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