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: June 6, 2020 **Time:** 1:00 PM **Owner:** Lisa Clements

Inspection Address: 20665 Kirby Ave N, Scandia, MN 55073

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Lisa Clements, and have reviewed the original design/permit records, along with a previous compliance inspection from 2007 and 2002, which were on file at Washington County. This very old system (installed in 1976) consists of a precast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years. This septic system is 44 years old.

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):6/8/2020			
— · — · —	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 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	e:		
Property address: 20665 Kirby Ave N, Scandia, MN 55073 Reason for	or inspection: Property Transfer		
Property owner: Lisa Clements Owner's p	phone:		
Owner's representative: Represer	tative phone:		
· · · · · · · · · · · · · · · · · · ·	ulatory authority phone: 651-430-6655		
Brief system description: A pre-cast septic tank and a rock trench drainfield.			
Comments or recommendations:			
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.	reconditions during system construction,		
Inspector name: Brian Humpal/Christopher Uebe Certificati	on number:C5342/C9852		
	se number: L2896		
Inspector signature: Brian Humpak for the Pho	ne number: 651-492-7550		
Necessary or Locally Required Attachments			
Soil boring logs	ocal ordinance		
☐ Other information (list): Report Summary, Property Information, Disclaimer, Lic	ense		

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Property address: 20665 Kirby Ave N, Scandia, MN 55073

Inspector initials/Date: 6/8/2020 **B**#

1.	Impact on Public Health – Cor	mpliance component #1 o	f 5
2	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: A soil boring over the drainfield indicated.	Ith and Safety.	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) or ponding.
2.	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 indicasystem is Failing to Protect Green Comments/Explanation: Lowered underwater camera into tank -	☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☒ No ☐ ates the oundwater. baffles and tank walls OK.	Verification method(s): ☐ Probed tank(s) bottom ☐ Examined construction records ☐ Examined Tank Integrity Form (Attach) ☐ Observed liquid level below operating depth ☐ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil" ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
3.	 Other Compliance Conditions a. Maintenance hole covers are damaged b. Other issues (electrical hazards, etc.) to in *System is an imminent threat to put Explain: c. System is non-protective of ground was *System is failing to protect ground Explain: 	d, cracked, unsecured, or app immediately and adversely im ublic health and safety	pear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown pact public health or safety. ☐ Yes* ☒ No ☐ Unknown

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4 of 11 Inspector initials/Date: 6/8/2020 Property address: 20665 Kirby Ave N, Scandia, MN 55073 **Soil Separation** – Compliance component #4 of 5 Date of installation: 1976 Unknown Verification method(s): Shoreland/Wellhead protection/Food Beverage Soil observation does not expire. Previous soil Lodging? observations by two independent parties are sufficient, unless site conditions have been altered or local Compliance criteria: requirements differ. For systems built prior to April 1, 1996, and ☐ Yes ☐ No not located in Shoreland or Wellhead ☐ Conducted soil observation(s) (Attach boring logs) Protection Area or not serving a food. ☐ Two previous verifications (Attach boring logs) beverage or lodging establishment: ☐ Not applicable (Holding tank(s), no drainfield) Drainfield has at least a two-foot vertical ☐ Unable to verify (See Comments/Explanation) separation distance from periodically ○ Other (See Comments/Explanation) saturated soil or bedrock. ⊠ Yes □ No Non-performance systems built April 1, Comments/Explanation: 1996, or later or for non-performance Reviewed previous compliance inspection from 2007. systems located in Shoreland or Wellhead Protection Areas or serving a food, Reviewed previous compliance inspection from 2000. beverage, or lodging establishment: Reviewed design and permit records. 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 See Attached or V systems built under 2008 Rules (7080. Boring Log(s) A. Bottom of distribution media 2350 or 7080.2400 (Advanced Inspector License required) B. Periodically saturated soil/bedrock Drainfield meets the designed vertical separation distance from periodically C. System separation saturated soil or bedrock. D. Required compliance separation* Any "no" answer above indicates the system is *May be reduced up to 15 percent if allowed by Local Failing to Protect Groundwater. Ordinance. 5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable ☐ Yes ☐ No If "yes", A below is required Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP? ☐ Yes ☐ No If "yes", B below is required BMP=Best Management Practice(s) specified in the system design

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

Compliance criteria

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

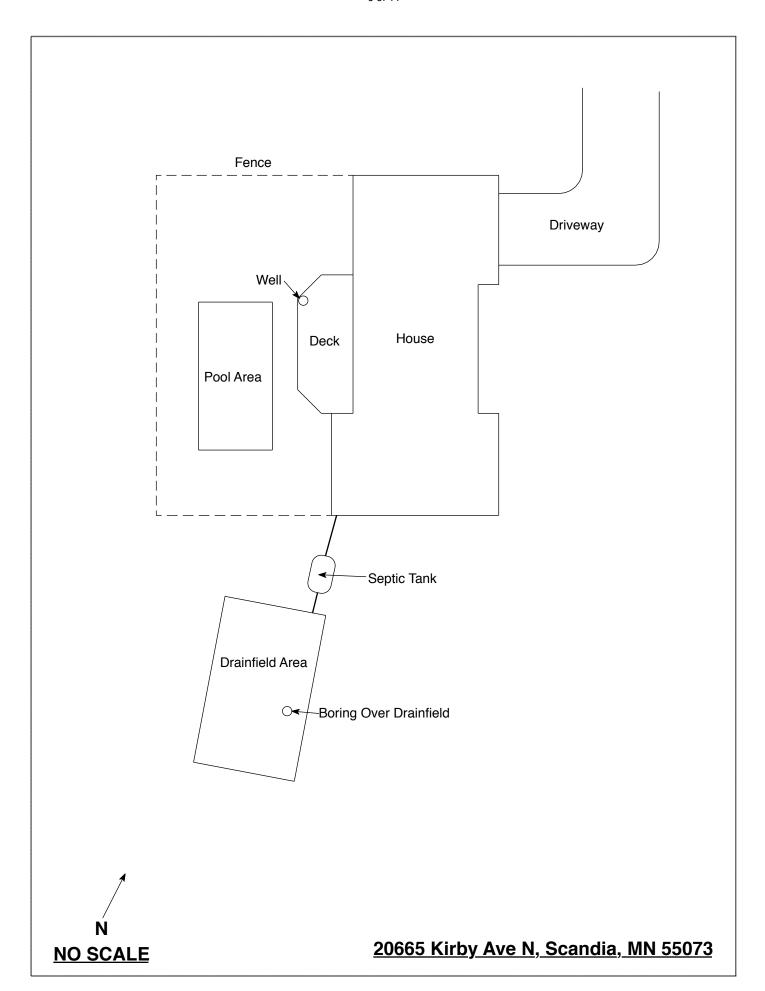
Any "no" answer indicates Noncompliance.

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 MFCA Comphance hispection.							
Date of Inspection: June 8, 20)20		Time: 1:00 PM				
Property Address: 20665 Kin	rby Ave N, Scandia, MN		Zip: 55073				
Property Owner: Lisa Clem	nents		Phone:				
Tank(s) Septic 1 Aerobic Lift Holding Tank(s) Tank(s) Fiberg Plasti Metal	glass Rock trend c Gravelless Chamber	ch s trench crench	Other Alternative system Experimental system Cesspool system Other system				
Other: Block	<u> </u>	eu					
_	-	 1 No. *If	no propor maintananae must be				
			no, proper maintenance must be ers should be made accessible to				
the ground surface to facilitate							
Year house built: 1976	Year septic installed: 197	76	Tank size (gals.): 1200				
How long has seller owned th	e property? 2007 Nu	mber of re	esidents in home? 3				
Number of bedrooms? 3	Are all floors dra	ained by g	ravity? Y				
Garbage disposal? N	Whirl	pool bath?	? Y				
More than one system (launda	ry, etc.)? N						
Does this property have any f	ooting drain tiles connecte	d 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 buildings? N							
Location of septic system on lot? South Side							
Location of water well on lot			e well a deep well? Y				
to the system? N If yes, expla	ground, septic tank overflo	owing, etc.	; or have any repairs been made				
	When was the system last pumped? 2019 Name of pumper: Olson's Sewer Service						
How often pumped in previous years? Every 2							
Have you received notices from any government agency concerning this system? N							
Is your property located in a shoreland management area? Y							
Do you have any additional in	nformation that should be g	given to th	ne new owner? N				
considered "non-compliant/failing" p local government unit within 15 days	er MPCA rules, that the inspects of the date of inspection compassible for payment of all fee	tor must by pletion. I al	e. I also understand that if the system is law submit a copy of this report to the lso agree that unless otherwise noted in ork performed relative to this inspection				
Owner/Occupant:			Date:				



Logs of	Soil	Borings
.7 of 11		

ocation or Project 20665 Kirby	L. Ave. N.			
forings made by Inspect MN.	Date 4-16-07			
lassification System: AASHO; USD.	A-SCS; Unified; other			
uger used (check two): Hand X, or Por	wer; Flight, or Bucket X : other _			
epth, Boring number B-1	Depth, Boring number			
Surface elevation Same as top of Ground @ lowest Orainfield Trench	feet Surface elevation			
0"20" 7.5 TR 3/3				
- loamy Sand				
- 20"-36" 5 TR 4/6 Clay loam	2 —			
- 36-96 7.5 YR 3/4	3 —			
- loamy sand Wisome Gravel	4 —			
_	5 —			
_				
-				
- 96" End of Boring -51" System Bottom 245" of Separation	8 —			
d of Boring at: 96 Inches	End of Boring at: Inches			
ottled Soil Present: Yes NO ottled Soil at: Inches	Mottled Soil Present: Yes NO Mottled Soil at: Inches			
anding Water Present: Yes NO Inches	Standing Water Present: Yes NO Standing Water Present at: Inches			
TOP OF DISTRIBUTION MEDIUM AT:	INCHES			
BOTTOM OF DISTRIBUTION MEDIUM A				
WERE SOIL SAMPLES SPRAYED? YES	NO_X			

When performing the soil boring (s) relative to this septic system inspection, site evaluation or design, the depth to distinct redoximorphic features (commonly know as "mottled soils") were determined by using the definition for "distinct" as defined in MPCA rules 7080.0020 Subp. 13a. adopted through September 2002: "Distinct" means a soil color that varies from another color by one or more hues, more than two units of value, or more than one unit of chroma.

[Ail has been advised through training and conversations with the MPCA that the above procedure for determining redoximorphic features (mottled soils) must be used in all cases; no other definitions will be allowed. The only exceptions would be when the difference in soil colors are attributed to other soil features such as lamellae banding, chelation from tannic acids, calcium carbonates, etc.

TOP OF DRAINFIELD AT FEET OR NCHES
BOTTOM OF DRAINFIELD AT FEET OR NCHES
REMARKS

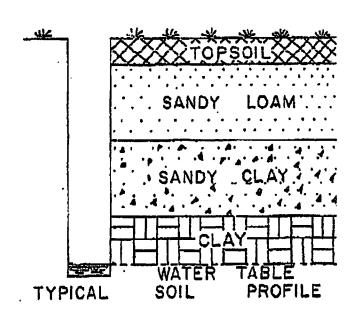
-SOIL BORINGS-

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



LOG OF SOIL BORINGS

_	•	- ·				
G NO. I	BORI	NG NO. 2	BORI	VG NO. 3	BORIN	IG NO. 4
SOIL ESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH !N FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL. DESCRIPTION
	0		0		0	ر با مسید
Teb Scie	1/2	Tue S-11	1/2	ادور مها	1/2	For Soil
שיים, גמישי	11/2	Sonor Loom	11/2	Sanor luga		Sappy (vam
	2		2			
INEBIUM.		mediom	21/2	molow m	3	Mediam
& KAVEL	3 1/2	& KR VEC	31/2	GRAVEL	31/2	6 KOUEL
1	41/2	1,	41/2		41/2	1.
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	SOIL SCRIPTION The Scient	SOIL DEPTH IN FEET O 1/2 The Scient 11/2 Denty Lucian 11/2 2 1/2 The Source 3 1/2 4 41/2	SOIL DEPTH SOIL DESCRIPTION TED SCIC 1/2 Top Soil Depth Description Top Scic 1/2 Top Soil Depth Description Top Soil Top Soil Description Top Soil Des	SOIL DEPTH SOIL DEPTH IN FEET	SOIL DEPTH SOIL DEPTH SOIL IN PEET DESCRIPTION FEET DESCR	SOIL DEPTH SOIL DEPTH SOIL DESCRIPTION DEPTH IN FEET SOIL DESCRIPTION DESCRIPTION FEET O O O O O O O O O O O O O O O O O O

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