Midwest Sewer Services

P.O. Box 10853 White Bear L	Brian Humpal		
651-492-7550/Brian@Midwes	MPCA Licensed Advanced Inspector		
SUBSURFACE SEWAGE TR	EATMENT SYSTE	M (SSTS) COMPLIANCE REPORT	
Date: 7/7/2021 & 7/15/2021	Time: 2:00 PM	Owner: Heidi Seibert	
Inspection Address: 5376 Osgoo	od Ave S, Afton, MN 5	5001	

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2018, which were on file at Washington County. This very old system (installed in 1979 and 1985) consists of a fiberglass septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years. Meyer Sewer Service pumped the septic tank on July 15, 2021.

Although not a compliance criteria, it should be noted that the past performance of fiberglass tanks from this era has been substantially unreliable and often leak at the joint between the bottom and top half of the tank. Since it is not feasible to excavate the entire tank, it is impossible for me to guarantee the future performance of the tank or that the tank will not be found watertight in the future.

Predicated on my inspection of the system 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.

Afra Va

Brian Humpal

Brian Humpal

Christopher

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NOTE: This report is not complete without the inclusion/attachment of the additional pages which consist of up to three (3) MPCA drafted Compliance Inspection Documents, one (1) Homeowner/Occupant Information Sheet (when obtainable), one (1) site diagram, one (1) log of soil boring(s), one (1) Brian L Humpal, Inc. Disclaimer Sheet, and one (1) MPCA License.

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North St. Paul, MN 55155-4194

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

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Property information	Local tracking	number:
Parcel ID# or Sec/Twp/Range:	Reason for Inspection	Property Transfer
Local regulatory authority info: Washington County		
Property address: 5376 Osgood Ave S, Afton, MN 55001		
Owner/representative: Heidi Seibert		_ Owner's phone: <u>651-274-2012</u>
Brief system description: A fiberglass septic tank and a rock trend	ch drainfield.	

System status

System status on date (mm/dd/yyyy): 7/15/2021

Compliant – Certificate of compliance*

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.

□ Noncompliant – Notice of noncompliance

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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 or under section 145A.04 subdivision 8.

Reason(s) for noncompliance (check all applicable)

Impact on public health (Compliance component #1) – Imminent threat to public health and safety

Tank integrity (Compliance component #2) - Failing to protect groundwater

Other Compliance Conditions (Compliance component #3) – Imminent threat to public health and safety

Other Compliance Conditions (Compliance component #3) – Failing to protect groundwater

System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – Failing to protect groundwater

Soil separation (Compliance component #5) – *Failing to protect groundwater*

Operating permit/monitoring plan requirements (Compliance component #4) – Noncompliant - local ordinance applies

Comments or recommendations

Although not a compliance criteria, it should be noted that the past performance of fiberglass tanks from this era has been substantially unreliable and often leak at the joint between the bottom and top half of the tank. Since it is not feasible to excavate the entire tank, it is impossible for me to guarantee the future performance of the tank or that the tank will not be found watertight in the future.

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

By typing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Business name: Midwest Sewer Services

Brian	Humpal	After 1
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Certification number: 5342/9852

Inspector signature:

License number: L2896

Phone: 651-492-7550

Necessary or locally required supporting documentation (must be attached)

Soil observation logs System/As-Built Locally required forms Tank Integrity Assessment Operating Permit Other information (list): Report Summary, Property Information, Disclaimer, License

Property Address: 5376 Osgood Ave S, Afton, MN 55001

Business Name: Midwest Sewer Services

Date: 7/15/2021

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:		Attached supporting documentation:
System discharges sewage to the ground surface	🗌 Yes* 🛛 No	☐ Other: ☐ Not applicable
System discharges sewage to drain tile or surface waters.	🗌 Yes* 🛛 No	_
System causes sewage backup into dwelling or establishment.	🗌 Yes* 🛛 No	
Any "yes" answer above indicates imminent threat to public health an	•	_

Describe verification methods and results:

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:		Attached supporting d	ocumentation:		
System consists of a seepage pit,	🗌 Yes* 🛛 No	Empty tank(s) viewed by inspector			
cesspool, drywell, leaching pit, or other pit?			ousiness:	Meyer Sewer Service	
Sewage tank(s) leak below their	🗌 Yes* 🛛 No	License number of mair	License number of maintenance business:		
designed operating depth?		Date of maintenance:		7/15/2021	
		Existing tank integrity assessment (Attach)			
		Date of maintenance			
If yes, which sewage tank(s) leaks:		(mm/dd/yyyy):	(must be within	thin three years)	
Any "yes" answer above indicates the system is failing to protect groundwater.		(See form instructions to Minn. R. 7082.0700 sub		nent complies with	
		🗌 Tank is Noncompliant (pumping not necess	ary – explain below)	
		Other:			

Describe verification methods and results:

Although not a compliance criteria, it should be noted that the past performance of fiberglass tanks from this era has been substantially unreliable and often leak at the joint between the bottom and top half of the tank. Since it is not feasible to excavate the entire tank, it is impossible for me to guarantee the future performance of the tank or that the tank will not be found watertight in the future.

Property Address:	5376 Osgood Ave S, Afton, MN 55001
Business Name:	Midwest Sewer Services

Date: 7/15/2021

3. Other compliance conditions – Compliance component #3 of 5

		□ Yes* ⊠ No □ Unknown		
	3b.	Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety	/? □ Yes*	🛛 No 🔲 Unknown
		*Yes to 3a or 3b - System is an imminent threat to public health and safety.		
	3c.	System is non-protective of ground water for other conditions as determined by inspector?	☐ Yes*	🖾 No
	3d.	System not abandoned in accordance with Minn. R. 7080.2500?	☐ Yes*	🖾 No
		*Yes to 3c or 3d - System is failing to protect groundwater.		
		Describe verification methods and results:		
		Attached supporting documentation: 🛛 Not applicable 🔲		
		Attached supporting documentation: 🛛 Not applicable 🗌		
4.	Ор	Attached supporting documentation: 🛛 Not applicable 🗌 erating permit and nitrogen BMP* – Compliance component #4 of	f 5 🖂 N	lot applicable
4.	-	erating permit and nitrogen BMP* – Compliance component #4 of		lot applicable below is required
4.	ls th	erating permit and nitrogen BMP* – Compliance component #4 of	f "yes", A	below is required

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

Compliance criteria:

a. Have the operating permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning?

Any "no" answer indicates noncompliance.

Describe verification methods and results:

Attached supporting documentation: Operating permit (Attach)

5. Soil separation – Compliance component #5 of 5

Date of installation <u>1976/1988</u> (mm/dd/yyyy)	_ 🗌 Unknown			
Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria (select one): 5a. For systems built prior to April 1, 1996, and	☐ Yes ⊠ No	Attached supporting documentation:	vertical separation	
not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Drainfield has at least a two-foot vertical separation distance from periodically		Reviewed previous compliance inspection from 2018 Reviewed design and permit records.		
saturated soil or bedrock. 5b. Non-performance systems built April 1, 1996, or later or for non- performance systems located in Shoreland	Yes No*	A. Bottom of distribution media	See Attached	
or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		B. Periodically saturated soil/bedrock	Boring Log(s)	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*		C. System separation D. Required compliance separation* *May be reduced up to 15 percent if allo	wed by Local	
 5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock. 	☐ Yes ☐ No*	Ordinance.		

*Any "no" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

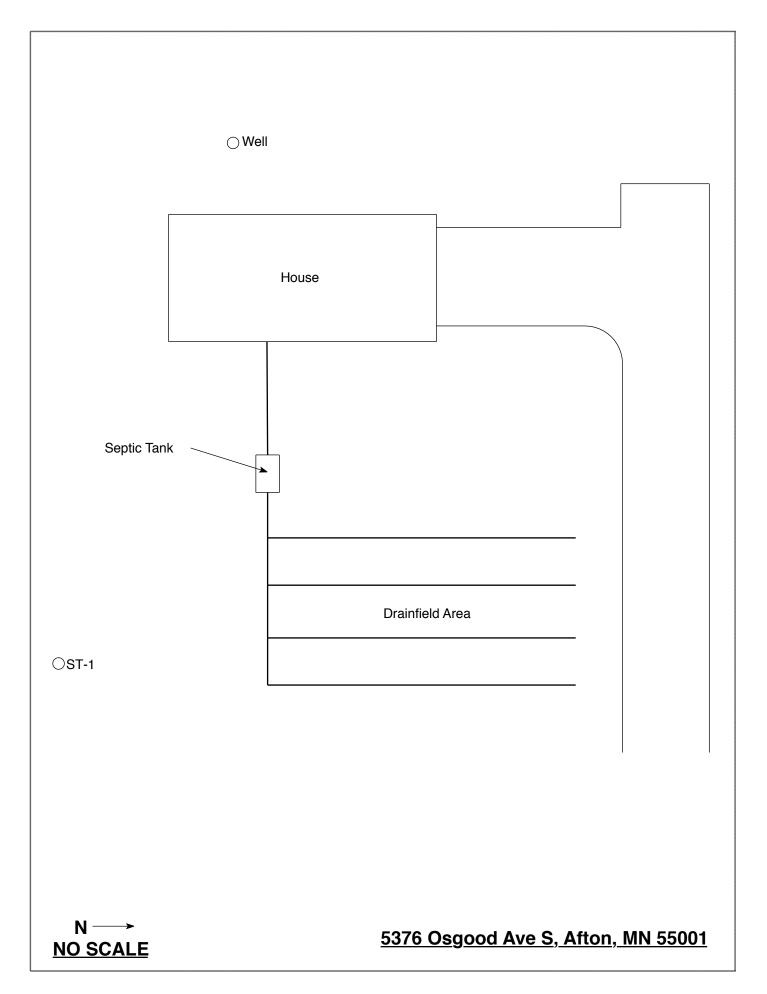
Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, 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, 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.

Date: 7/15/2021

Midwest Sewer Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection. Date of Inspection: 7/7/2021 & 7/15/2021 Time: 2:00 PM Property Address: 5376 Osgood Ave S, Afton, MN Zip: 55001 Property Owner: Phone: 651-274-2012 Heidi Seibert Tank(s) Tank(s)Material Soil Treatment System Other Septic 1 Rock trench Fiberglass Alternative system Aerobic Plastic Gravelless trench Experimental system Lift Metal Chamber trench Cesspool system Seepage bed Holding Concrete Other system Mound Other: Block Other At-grade Are the tank maintenance covers accessible? \boxtimes Yes \square No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system. Year house built: 1976 Year septic installed: 1976/1988 | Tank size (gals.): 1250 How long has seller owned the property? Number of residents in home? Number of bedrooms? 4 Are all floors drained by gravity? Y Garbage disposal? Whirlpool bath? More than one system (laundry, etc.)? Does this property have any footing drain tiles connected to the septic system? Are any buildings on this property such as garages or out-buildings connected to this system? Are there any additional systems on this property serving other buildings? Location of septic system on lot? East Side Location of water well on lot? West Side Is the well a deep well? Y 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 system last pumped? 7/15/2021 Name of pumper: Meyer Sewer Service How often pumped in previous years? Is system on a monitoring plan? 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 additional information that 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

Owner/Occupant:



Soil Observations Log

	Locati	on of Project:	5376 Osgood Ave S	5, Afton	, MN 55	5001		
Ot	Observations Made By: Midwest Sewer Serv				·	Date:	7/7/2021	
Classification System: US			USDA					
	Soil	Observation:	ST-1		Soil C	bservation:		
Surf Elevat Obser	ion of	-	nd surface as last field trench	Elevat	face tion of vation			
Depth In Inches	Rock %	<u>Soils E</u>	ncountered	Depth In Inches	Rock %	<u>Soils</u>	Encountered	
0-6 6-24 24-40 40-64		10YR 3 10YR 3	3/3 Silt Loam 3/4 Silt Loam 3/4 Fine Sand ne To Medium Sand					
64"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox	
Same	Elevatio	n Of Observatio	n Relative To System		Elevatio	n Of Observat	tion Relative To System	
-36"	Depth T	o Bottom Of Dis	stribution Media		Depth T	o Bottom Of I	Distribution Media	
	Of Sepa				Of Sepa			
End		Observation At:		End Of		servation At:		
		dox Present At:	None			x Present At:		
Stan	Standing Water Present At: None Stand					r Present At:		

Bottom Of Distribution Medium At: 36 Inches

Signature:

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Location of Project: 5376 Osgood Ave S, Afton, MN 55001							
		Inspect Minnesota		Date:	10/30/18		
		Hand/Bucket	Classification System: USDA				
В	Boring Number:	1		Boring Number:			
Surface Elevation of Same grou		und surface as last nfield trench	Surface Elevation o Boring	of			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	countered		
0-10 10-22 22-28 28-42 42-47	epth InSoils EncounteredInches10YR 2/2 Silt Loam0-1010YR 2/2 Silt Loam10-2210YR 3/3 Loam22-2810YR 3/4 Medium Sand28-4210YR 3/4 Fine Sand42-4710YR 4/4 Medium Sand						
67" D	epth To End Of B	oring Or Redox	D	epth To End Of Bo	oring Or Redox		
Same El	levation Of Borin	g Relative To System	E	levation Of Boring	Relative To System		
	epth To Bottom (If Separation	Of Distribution Media		Depth To Bottom O Df Separation	f Distribution Media		
E	nd Of Boring At:	67"	ł	End Of Boring At:			
	edox Present At:			Redox Present At:			
Standing W	Vater Present At:	None	Standing \	Water Present At:			

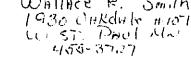
Bottom Of Distribution Medium At: 36 Inches

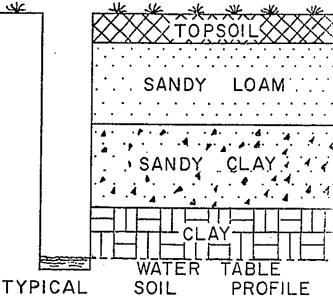
Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

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

			<u> </u>				
BORIN	G (NO. I)	BOR	ING NO. 27	BORI	NG NO. 3	BORII	NG NO. 4
DEPTH IN FEET DE	SOIL	DEPTH IN FEET	SOIL	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
	OPSOIL.	0	TOP SOIL	0	•	0	· · · · · · · · · · · · · · · · · · ·
1/2 T	CP 5011	1/2	CLAY	1/2		1/2	
1 50	NALI GLAVEL		C HU SMALL	1		I	
11/2 5n	NAH Gravel	/2	CLARY SMALL	11/2		11/2	
	HND	_2	SAND	2		2	
**************************************	SAND	21/2	SAND	21/2		21/2	
	NE SAND	3	SAND	3		3	
	WE SAND	31/2	5.4.UD	31/2		31/2	
4 F	WE SAND	4	SAND	4		4	
41/2 Fi	WE SAUD	41/2	SAND	41/2		41/2	-
5 FI	INC SAND	5	SAND	5		5	
51/2 =	WE SAND	51/2	SAND	51/2		51/2	1
6 F	INC SAND	6	SAND	6	·	6	. •
	WE SAND	61/2	SAND	61/2		61/2	
	INC SAND	7	SAND	7		7	
	INC SAND	71/2	SAND	71/2		71/2	
	INC SAND	8	SAND	8		8	
	INC SAND	81/2	SAND	81/2		81/2	
9 FI	NC SAND	9		9		9	× .

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 Mon-transferable Business License

Midwest Sewer Services

License # L2896

License Expires: 12/22/2021

Issued: 11/06/2020

Specialty Area(s):

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector	
C9852	Christopher R Uebe	3/4/2024
	Designer, Inspector	



520 Lafayette Road North St. Paul, Minnesota 55155-4194

Mich Haig

Nick Haig, Supervisor Certification and Training Unit