Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lak	Brian Humpal			
651-492-7550/Brian@Midwestso	MPCA Licensed Advanced Inspector			
SUBSURFACE SEWAGE TREA	ATMENT SYSTEM	I (SSTS) COMPLIANCE REPORT		
Date: September 12, 2018	Time: 9:30 AM	Owner: Dan Potter		
Inspection Address: 8220 105 th St, Grant, MN 55115				

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 2002 & 2004, which were on file at Washington County. This very old system (installed in 1982) consists of a pre-cast septic tank 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 inspection, my inspection indicated that the distribution box was full of solids. The solids should be removed from the box as soon as possible.

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.

Inspect Minnesota and Midwest Soil Testing 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. Inspect Minnesota and Midwest Soil Testing 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

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St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems

(SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) For local tracking purposes: requirements and attached forms – additional local requirements may also apply.					
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days					
System Status					
System status on date (mm/dd/yyyy):9/12/2018					
 Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Noncompliant – Notice of Noncompliance (See Upgrade Requirements on page 3) 					
Reason(s) for noncompliance (check all applicable)					
☐ Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety					
Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety					
Tank Integrity (Compliance Component #2) – Failing to protect groundwater					
Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater					
Soil Separation (Compliance Component #4) – Failing to protect groundwa	ater				
Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant					

Property Information

Doroal	10# ~~	Coo/Tw	n/Dongo	
Parcer	1D# 01	Sec/Tw	p/Range:	

Property address:	8220 105 th St, Grant, MN 55115	Reason for inspection: Property Transfer
Property owner:	Dan Potter	Owner's phone: 651-491-9706
or		
Owner's represen	ative:	Representative phone:
Local regulatory a	uthority: Washington County	Regulatory authority phone: _651-430-6655
Brief system desc	ription: A pre-cast septic tank and a rock tre	ench drainfield.
a .		

Comments or recommendations:

Although not a compliance inspection, my inspection indicated that the distribution box was full of solids. The solids should be removed from the box as soon as possible.

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.

Inspector name:	Brian H	lumpal/Christ	ophei	Uebe			Certification number:	С	5342/C9852
Business name:	Inspec	t Minnesota, N	/lidwe	st Soil Testing			License number:	L	2896
Inspector signatur	e:	Brian .	Hu	mpal Afra	_1/1	/	Phone number:	6	51-492-7550
Necessary or	Local	ly Require	ed A	ttachment	s				
Soil boring logs System/As-built drawing Forms per local ordinance									
🛛 Other inform	ation (lis	st): Report S	Sumn	nary, Property I	nforn	mation, Disc	laimer, License		
www.pca.state.mn.	us •	651-296-6300	•	800-657-3864	•	TTY 651-28	32-5332 or 800-657-3864	•	Available in alternative formats

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🖾 No	 Searched for surface outlet Searched for seeping in yard/backup in home
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation)
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	 Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test
Any "yes" answer above indicate an Imminent Threat to Public Hea		 Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)

Comments/Explanation:

Although not a compliance inspection, my inspection indicated that the distribution box was full of solids. The solids should be removed from the box as soon as possible.

2. Tank Integrity - Compliance component #2 of 5

Compliance criteria:		Verification method(s):
System consists of a seepage pit,	🗌 Yes 🖾 No	Probed tank(s) bottom
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
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🖾 No	Examined empty (pumped) tanks(s)
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
		Unable to verify (See Comments/Explanation)
Any "yes" answer above indicates the system is Failing to Protect Groundwater.		Other methods not listed (See Comments/Explanation)

Comments/Explanation:

Lowered underwater camera into tank - baffles and tank walls OK.

3. Other Compliance Conditions – Compliance component #3 of 5

a.	Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.	□ Yes*	🖾 No	Unknown
ч.	maintenance note cevere are damaged, eracited, en appear te eractarany anecarta.			

b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. \Box Yes* \boxtimes No \Box Unknown *System is an imminent threat to public health and safety

Explain:

c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ⊠ No *System is failing to protect groundwater

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1982	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria:	🛛 Yes 🗌 No	Soil observation does not expire. Previous soil observations by two independent parties are sufl 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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No	 requirements differ. Conducted soil observation(s) (A Two previous verifications (Attact Not applicable (Holding tank(s), no Unable to verify (See Comments/Explanation) Other (See Comments/Explanation) 	h boring logs) drainfield) Explanation)
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	⊠ Yes 🔲 No	Comments/Explanation: Reviewed previous compliance inspe Reviewed previous compliance inpse Reviewed design and permit records	ection from 2004
"Experimental", "Other", or "Performance"	□ Yes □ No	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)	IV	A. Bottom of distribution media	See Attached Boring Log(s)
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		B. Periodically saturated soil/bedrock C. System separation	
Anv "no" answer above indicates t	Any "no" answer above indicates the system is		allowed by Least
Failing to Protect Groundwater.	*May be reduced up to 15 percent if Ordinance.	allowed by LOCA	

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Kot applicable

Is the system operated under an Operating Permit?	🗌 Yes 🛛 No	If "yes", A below is required
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, 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.*

Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

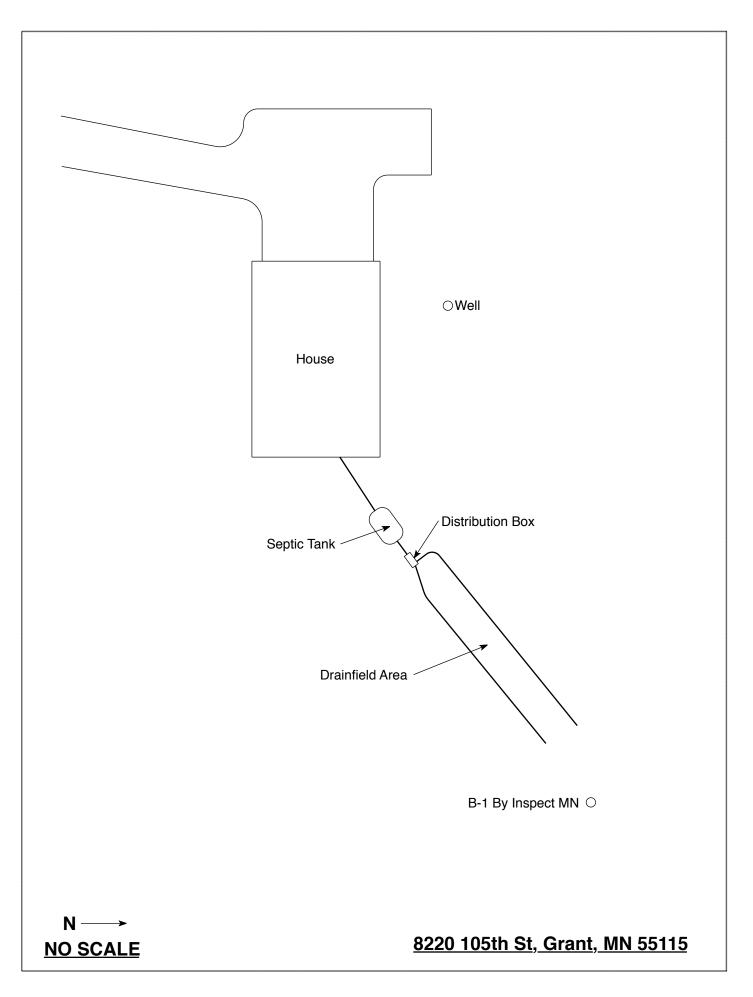
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: September 12, 2018	Time: 9:30 AM				
Property Address: 8220 105 th St, Grant, MN	7in: 55115				
Property Owner: Dan Potter	Zip: 55115 Phone: 651-491-9706				
Tank(s) Tank(s)Material Soil Tree Septic 1 Fiberglass Rock Aerobic Plastic Grav Lift Metal Char	eatment System Other a trench Alternative system relless trench Experimental system nber trench Cesspool system age bed Other system nd				
Are the tank maintenance covers accessible? \Box Ye performed through the maintenance holes. Mainten the ground surface to facilitate access and proper m	nance hole covers should be made accessible to				
Year house built: 1982 Year septic installed					
How long has seller owned the property?	Number of residents in home?				
	rs drained by gravity? Lower Pumped				
	/hirlpool bath?				
More than one system (laundry, etc.)?					
Does this property have any footing drain tiles conr	nected 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 se	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? North 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? 2015	Name of pumper:				
How often pumped in previous years?	Is system on a monitoring plan?				
Have you received notices from any government ag					
Is your property located in a shoreland managemen					
Do you have any additional information that should					

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:

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Lacation of Projects 2220 105th St. Crant. MN 55115					
Location of Project: 8220 105th St, Grant			L, MIN 3311	Date:	9/14/18
Borings Made By: Inspect Minnesota Auger Used: Hand/Bucket		Classi		USDA	
Ba	pring Number:		Classification System:		USDA
		L1		Boring Number:	
Surface	Same grou	und surface as last nfield trench	Surface	of	
Elevation of Boring	draiı		Elevation of Boring		
Depth In			Boring Depth In		
Inches	<u>Soils E</u>	ncountered	Inches	<u>Soils En</u>	countered
0-15 15-22 22-27 27-44 44-74	7.5YR 3/ 7.5YR 4/4 Medii ≈10% Ro 7.5YR 5/4 7.5YR 5/4 M Trace C 7.5YR 3/4 Lo	/3 Loamy Sand 4 Sandy Loam um Sand With Gravel ock Fragments 4 Medium Sand ledium Sand With of Gravel And oamy Sand Layers sal At 74"			
74" De	epth To End Of Boring Or Redox		[Depth To End Of Bo	oring Or Redox
	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System		
			Depth To Bottom Of Distribution Media		
≥36" Of Separation			(Of Separation	
En	d Of Boring At:	74"		End Of Boring At:	
Redox Present At: None			Redox Present At:		
Standing Water Present At: None				Water Present At:	

Bottom Of Distribution Medium At: 38 Inches

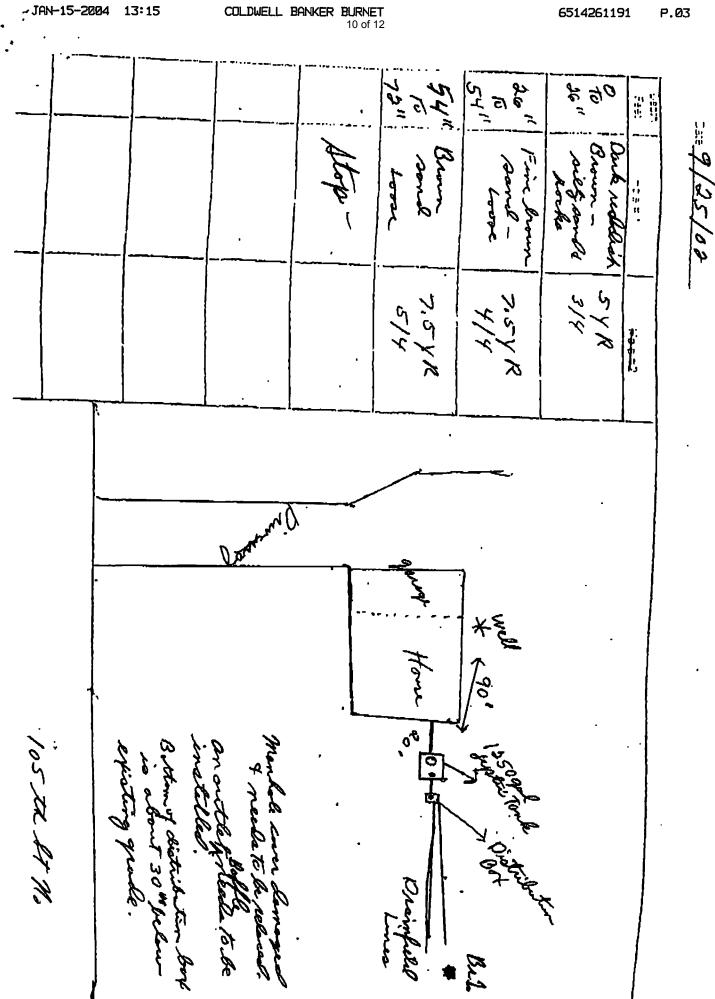
Log Of Soil Borings

Location of Project: 8220 105th St, Grant, MN 55115					
Borings Made By: Inspect Minnesota		.,	Date:	9/12/18	
Auger Used: Hand/Bucket		Classification System:		USDA	
Во	Boring Number: 1		Boring Number:		
Surface Elevation of Same ground		und surface as last nfield trench	Surface Elevation of Boring		
Depth In Inches	<u>Soils E</u>	Soils Encountered		<u>Soils Er</u>	ncountered
0-15 15-22 22-27 27-44 44-74	7.5YR 3/ 7.5YR 4/4 Medii ≈10% Ro 7.5YR 5/4 7.5YR 5/4 M Trace C 7.5YR 3/4 Lo	/3 Loamy Sand 4 Sandy Loam um Sand With Gravel ock Fragments 4 Medium Sand ledium Sand With of Gravel And oamy Sand Layers Isal At 74"	Inches		
74" De	pth To End Of Boring Or Redox		D	epth To End Of Boring Or Redox	
Same Ele	evation Of Boring Relative To System		Elevation Of Boring Relative To System		
-38" Depth To Bottom Of Distribution Media ≥36" Of Separation			epth To Bottom O f Separation	f Distribution Media	
Er	nd Of Boring At:	74"	E	End Of Boring At:	
Redox Present At: None				Redox Present At:	
Standing Water Present At: None		Standing V	Water Present At:		

Bottom Of Distribution Medium At: 38 Inches

Logs of Soil Borings 3-31 0 9 of 205 Location or Project Borings made by Dace Classification System: AASHO ____; USDA-SCS ____ Unified ____; other _; Flight ___, or Bucket S Auger used (check two): Hand 📐, or Power _ mul anger + Ъ-Depth Boring number Boring number ____ Depth, in in Surface elevation - ower Surface elevation feet feet made of 0 -0 -"TOPSOIL 6-66" 1 ---1 — 7.54R4/6 ST.B.R. 2 — 2 -CLAY LOAM 3 — 3 -4 — 5 ----5 -6-6411 6 — 7.5 YR 416 6 — LOAMY SAND 7 — 7 ----HAS + 24" 8 — 8 ---- 8 OF SEPARATION. End of boring at _____ feet. End of boring at _____ feet Standing water table: Standing water table: Present at _____ feet of depth. Present at _____ feet of depth, hours after boring hours after boring. Not present in boring hole _____ Not present in boring hole Mottled soil: Mottled soil: Observed at _____ feet of depth. Observed at _____ feet of depth Not present in boring hole _____ Not present in boring hole X Observations and comments: Observations and comments: **INCHES** TOP OF DISTRIBUTION MEDIUM AT: INCHES BOTTOM OF DISTRIBUTION MEDIUM AT: REMARKS: Lia. level m dant. bot -301

KEIVLAKKS:			<u><u> </u></u>	
WERE SOIL	SAMPLES	SPRAYED	? YES_	NO)



~JAN-15-2004 13:15

6514261191

P.03

TOTAL P.03

DISCLAIMER

Brian L. Humpal, Inc. dba. 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.

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Subsurface Sewage Treatment Systems Non-transferable Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

Specialty Area(s):

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

Designated Certified Individual(s):

Name	Certification Expires:
Anthony P Scully	7/28/2018
Installer, Designer (Condition	nal)
Brian L Humpal	10/15/2020
Installer, Maintainer, Serv Pr	ov, Adv Designer, Adv Inspector
Christopher R Uebe	3/4/2018
Designer, Inspector	
	Anthony P Scully Installer, Designer (Condition Brian L Humpal Installer, Maintainer, Serv Pro Christopher R Uebe

MINNESOTA POLLUTION CONTROL AGENCY

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

Charles K Thompson, Supervisor Certification & Training Unit