Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bea	Brian Humpal					
651-492-7550/Brian@Midy	MPCA Licensed Advanced Inspector					
SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT						
Date: August 8, 2017	Time: 10:15 AM	Owner: Richard & Laurie McGee				
Inspection Address: 13792 Square Lake Trail N, May Twp, MN 55082						

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Richard McGee, and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks and a chamber trench drainfield.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the original design/permit records, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

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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520 Lafayette Road North 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) 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): <u>8/8/2018</u>					
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)					
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 thr	eat to public health and safety				
Tank Integrity (Compliance Component #2) – Failing to protect groundwat	er				
Other Compliance Conditions (Compliance Component #3) – Failing to pro	tect groundwater				
Soil Separation (Compliance Component #4) – Failing to protect groundw	ater				
Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant					

Property Information

Parcel ID# or	Sec/Twp/Range:
	oco, i mpri tungo.

Property address:	13792 Square Lake Trail N, May Twp, MN 55082	Reason for inspection: Property Transfer		
Property owner: _ Richard & Laurie McGee		Owner's phone: _ 651-491-4773		
or				
Owner's representative:		Representative phone:		
Local regulatory authority: Washington County		Regulatory authority phone: 651-430-6655		
Brief system description: Two pre-cast septic tank and a chambe		ch drainfield.		
O				

Comments or recommendations:

Certification

wq-wwists4-31 • 1/24/12

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 Humpal/Christopher Uebe					Certification number:		C5342/C9852			
Business name: Inspect Minnesota, Midwest Soil Testing		License number:		L2896						
Inspector signatur	re:	Prim ?	Hump	al Africa	- 1/1		Phone	number:	65 ⁻	1-492-7550
Necessary or	Locally	Require	d Atta	chmen	ts					
🛛 Soil boring lo	ogs	🛛 Syste	em/As-b	uilt drawin	g		Forms per loc	al ordinan	се	
🛛 Other inform	ation (list):	Report S	ummary	, Property	Inform	nation, Dis	claimer, Licen	se		
www.pca.state.mn.	us • 65	1-296-6300	• 800)-657-3864	•	TTY 651-2	82-5332 or 800	-657-3864	•	Available in alternative formats

Property address: 13792 Square Lake Trail N, May Twp, MN 55082

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

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. System cause sewage backup into dwelling or establishment.	□ Yes ⊠ No □ Yes ⊠ No	 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
Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety. Comments/Explanation:		 Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)

2. Tank Integrity – Compliance component #2 of 5

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/Expl

Comments/Explanation:

None of the above found.

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

- tion)
- s/Explanation)

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
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b. 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 Yes* 🛛 No C. *System is failing to protect groundwater

Explain:

Inspector initials/Date: 8/8/2018

4. Soil Separation – Compliance component #4 of 5

Date of installation: 2003	Unknown	Verification method(s):
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Previous soil observations by two independent parties are sufficier
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)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		 Unable to verify (See Comments/Explanation) Other (See Comments/Explanation)
Non-performance systems built April 1,	🛛 Yes 🗌 No	Comments/Explanation:
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed design and permit 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 or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media See Attached Boring Log(s
Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock
separation distance from periodically saturated soil or bedrock.		C. System separation
		D. Required compliance separation*
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if allowed by Loca Ordinance.
Operating Permit and Nitrogen B	MP* – Complia	nce component #5 of 5 🛛 🛛 Not applicable
s the system operated under an Operating Peri	nit? 🗌 Ye	es ⊠ No If "yes", A below is required
s the system required to employ a Nitrogen BM	P? 🗌 Ye	es 🛛 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:	□ Yes □ No
	Have the Operating Permit requirements been met?	
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

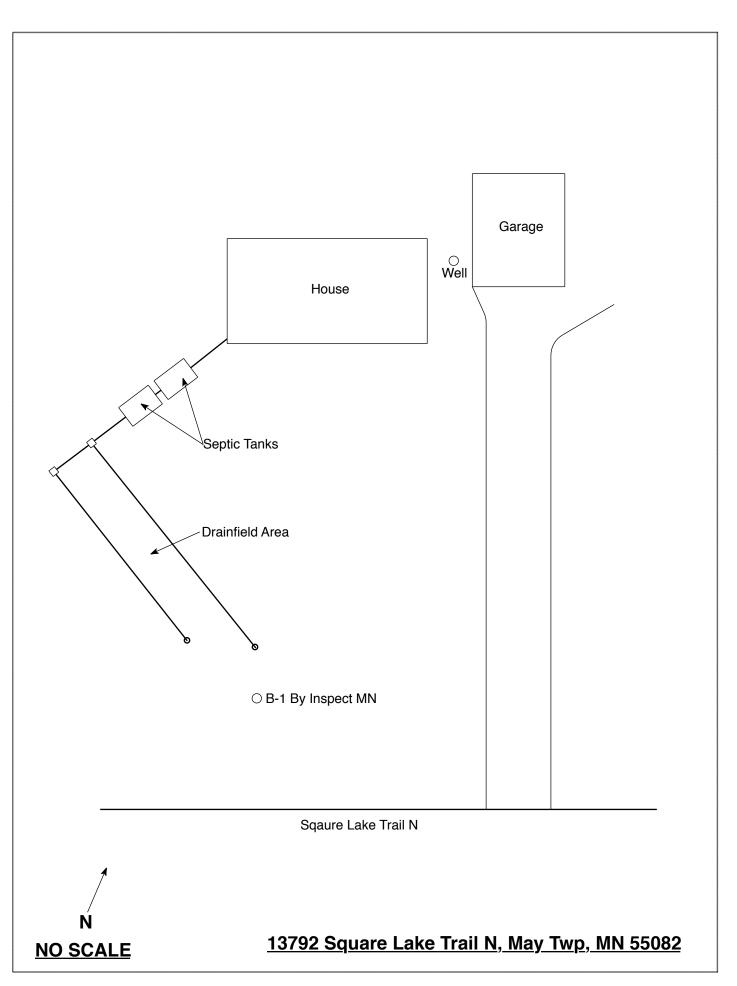
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: August 8, 2018	Time: 10:15 AM				
Property Address: 13792 Square Lake Trail N, May Twp, N	IN Zip: 55082				
Property Owner: Richard & Laurie McGee	Phone: 651-491-4773				
Tank(s) Tank(s)Material Soil Treatment Sys Septic 2 Fiberglass Rock trench Aerobic Plastic Gravelless trench Lift Metal Chamber trench Holding Concrete Seepage bed Other: Block Mound Other At-grade Are the tank maintenance covers accessible? Yes No performed through the maintenance holes. Maintenance holes. Maintenance holes.	tem Other Alternative system h Experimental system Cesspool system Other system *If no, proper maintenance must be				
the ground surface to facilitate access and proper maintenanc					
Year house built: 1960 Year septic installed: 2003	Tank size (gals.): 2-1250				
	of residents in home? 2				
Number of bedrooms? 2 Are all floors drained	by gravity? Y				
Garbage disposal? N Whirlpool	bath? N				
More than one system (laundry, etc.)? N					
Does this property have any footing drain tiles connected to the septic 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 oth	er buildings? N				
Location of septic system on lot? South Side					
	Is the well a deep well? Y				
Have you ever experienced any problems with the system suc surfacing of sewage onto the ground, septic tank overflowing to the system? N If yes, explain:					
When was the system last pumped? 2016 Name of	Fpumper: Smilies Sewer Service				
How often pumped in previous years? Every 3 Is s	ystem on a monitoring plan? N				
Have you received notices from any government agency cond	cerning this system? N				
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				

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: Richard McGee Signature On File

Date: 8/8/2018



Log Of Soil Borings

	tion of Project:	12702 Squaro Lako T	rail N. May	Twp MN 55082		
			Trail N, May Twp, MN 55082 Date: 8/8/18			
Borings Made By: Inspect Minnesota Auger Used: Heavy Bar\Post Hole Digge			Classification System:		USDA	
F	Boring Number:			Boring Number:		
Surface		1	Surface			
Elevation d	NET 5	and surface as last	Elevation	of		
Boring	draii	nfield trench	Boring			
Depth In	Soils F	ncountered	Depth In	Soils En	countered	
Inches			Inches	<u>50115 E11</u>	countered	
0-6 6-35		Medium Sand M Sand With Gravel				
0.33		ock & Cobbles				
35-61		Im Sand With Gravel				
	≈25-35%	Rock Fragments				
	Refu	sal At 61"				
61" D	Depth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox	
		g Relative To System	Elevation Of Boring Relative To System			
		Of Distribution Media	Depth To Bottom Of Distribution Media			
	Of Separation			Of Separation		
		I	•			
	End Of Boring At:			End Of Boring At:		
	edox Present At:	None	Redox Present At:			
Standing V	Water Present At:	none	Standing Water Present At:			

Bottom Of Distribution Medium At: 30 Inches

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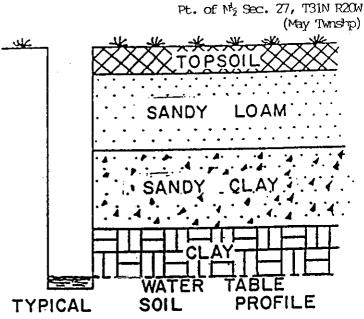
-SOIL BORINGS-

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.



Date: July 2003

13792 Square Lake Trail N.

55082

Stillwater, MV

Soil Borings: RS Johnson Soil Testing

LOG OF SOIL BORINGS

BORING NO. 1		BORING NO. 2		BORING NO. 3		BORING NO. 4	
DEPTH IN FEET	SOIL DESCRIPTION Very Dark	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION Very Dark Gravish Brown
0	Gravish Prown SIIt Loam	0	Very Dark Gravish Brown	0	Grayish Brown Silt Loam	0	Silt Loam
1/2	Dark Prown Silt Loam	1/2	Gravelly Fine Sandy Loam Dark Brown	1/2	Dark Brown (7.5YR 4/4)	1/2	
1	Dark Brown	t	Dark Brown Silt Loam	1	Silt Loam	1	Dark Brown
11/2	(7.5YR 4/4)	11/2		11/2		11/2	(7.5YR 4/4)
2	Gravelly Sand	2	Dark Brown (7.5YR 4/4)	2	Dark Brown	2	
21/2		21/2	(7.51K 4/4)	21/2	(7.5YR 4/4)	21/2	
3	Dark Brown	3		3		3	
. 31/2	(7.5YR 4/4)	31/2	Silt	31/2		31/2	
4		4	Pale Prown	4	Gravelly	4	
41/2		41/2	(10yr 6/3) Silt	41/2	Sand	41/2	Sand
5		5	(Fnd)	5	Light Prown	5	(med - coarse)
51/2	Grand	51/2		51/2	(7.5YR 6/4)	51/2	
6	Sand	6		6	Sand	6	
61/2	(End)	61/2		61/2	(Fnd)	61/2	(End)
7		7		7		7	
71/2	Mottling	71/2	Mottling	71/2	Mottling	71/2	Mottling
8	Depth:	8	Depth: 54"	8	Depth:	8	Depth:
81/2	1	81/2		81/2		81/2	
9		9		9]	9	

(Subject to Review and Approval of Officials) 9 of 11

-SOIL BORINGS-

13792Square Lake Trail N.Stillwater, MN55082Pt. of M_2 Sec. 27, T31N R20W

(May Twishp)

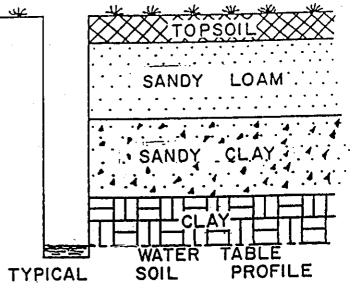
Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

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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.



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Date: July 2003

Soil Borings: RS Johnson Soil Testing

BORING NO 5 BORING NO 6 BORING NO. BORING NO.							
BORING NO. 5		BORING NO. 6		BORING NO.			
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	Very Dark	0	Gravisn Frown Fine Sandy Loam Dark Brown	0		0	
1/2	Grayish Brown (10YR 3/2)	1/2	Silt Loam	1/2		1/2	
1		1	(7.5vr 474)	1		<u> </u>	
11/2	Silt Loam	11/2	Gravelly Sand	11/2		11/2	
2	Dark Brown Silt Loam	2		2		2	
21/2		21/2	Light Brown	21/2		21/2	
3	Dark Brown (7.5YR 4/4)	3	(7.5YR 6/4)	3		3	
. 31/2	Silt	31/2		31/2		31/2	
4	(End)	4		4		4	
41/2		41/2		41/2		41/2	
5]	5		5		5	
51/2		51/2	Sand	51/2		51/2	
6	1	6		6		6	
61/2		61/2	(End)	61/2		61/2	
7] .	7		7		7	
71/2	Mottling	71/2	Mottling	71/2		71/2	ł
8	Depth: 48"	8	Depth:	8	Į	8	
81/2	1	81/2		81/2		81/2	
9	1	9]	9		9	

LOG OF SOIL BORINGS

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.

Subsurface Sewage Treatment Systems Non-transferable Business License

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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):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov	, Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	

MINNESOTA POLLUTION CONTROL AGENCY

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

Charles K Thompson, Supervisor Certification & Training Unit