#### **Inspect Minnesota & Midwest Soil Testing**

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:** May 13, 2019 **Time:** 1:45 PM **Owner:** Carol Johnson

**Inspection Address:** 9207 St Croix Trl N, Stillwater, MN 55082

#### REPORT SUMMARY

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

Although not a compliance criteria, we recommend establishing a vegetative cover over the drainfield to prevent erosion.

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 presently meets 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



### **Compliance Inspection Form**

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

<b>Instructions:</b> 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):5/13/2019	
<u> </u>	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 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	ie:
	or inspection: Property Transfer
•	phone: 651-253-2878
or	
Owner's representative: Represen	tative phone:
Local regulatory authority: Washington County Regulator	y authority phone: <u>651-430-6655</u>
Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, and a rock to Comments or recommendations:  Although not a compliance criteria, we recommend establishing a vegetative cover over	
Certification  I hereby certify that all the necessary information has been gathered to determine the of determination of future system performance has been nor can be made due to unknow possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Brian Humpal/Christopher Uebe Certificati	on number: C5342/C9852
Business name: Inspect Minnesota, Midwest Soil Testing Licen	se number: L2896
Inspector signature:  Buan Humpal Affin Uh  Pho	ne number: 651-492-7550
Necessary or Locally Required Attachments	
	local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic	

Property address: 9207 St Croix Trl N, Stillwater, MN 55082

Inspector initials/Date: \_5/13/2019 **BA** 

1.	Impact on Public Health — Co	mpliance compone	nt #1 of 5					
	Compliance criteria:		Verification method(s):					
	System discharge sewage to the ground surface.	☐ Yes ☒ No	<ul><li>☑ Searched for surface outlet</li><li>☑ Searched for seeping in yard/backup in home</li></ul>					
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	<ul> <li>Excessive ponding in soil system/D-boxes</li> <li>Homeowner testimony (See Comments/Explanation)</li> <li>"Black soil" above soil dispersal system</li> </ul>					
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	System requires "emergency" pumping Performed dye test					
	Any "yes" answer above indicate an Imminent Threat to Public Hea		<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other methods not listed (See Comments/Explanation)</li> </ul>					
	Comments/Explanation:							
	Although not a compliance chiena, we re	ecommend establish	ing a vegetative cover over the drainfield to prevent erosion.					
2.	Tank Integrity – Compliance cor	nponent #2 of 5						
	Compliance criteria:		Verification method(s):					
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☐ Probed tank(s) bottom					
	Seepage pits meeting 7080.2550 may be		<ul><li>Examined construction records</li><li>Examined Tank Integrity Form (Attach)</li></ul>					
	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"					
	Any "yes" answer above indicasystem is Failing to Protect Gr		<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☑ Other methods not listed (See Comments/Explanation)</li> </ul>					
	Comments/Explanation:							
	Lowered underwater camera into tanks							
	Lift pump and alarm were operational at	the time of the hispe	ection.					
3.	Other Compliance Conditions	s – Compliance co	mponent #3 of 5					
	Maintenance hole covers are damage	·						
		immediately and adve	ersely impact public health or safety.   Yes*   No  Unknown					
	Explain:							
	c. System is non-protective of ground wa *System is failing to protect ground		ns as determined by inspector ☐ Yes* ☒ No					
	Explain:							

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • TTY 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

Pro	perty address: 9207 St Croix Trl N, Stillwater, I	Inspector initials/Date: 5/13/2019					
4.	Soil Separation – Compliance compor	nent #4 of 5					
	Date of installation: 2012	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 sufficient,				
	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 to Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if allowed by Local Ordinance.				
5.	Operating Permit and Nitrogen B	MP* – Compliance	component #5 of 5 🔀 <b>Not applicable</b>				
	Is the system operated under an Operating Per	mit?	No If "yes", A below is required				
	Is the system required to employ a Nitrogen BM	IP? ☐ Yes ☐	No If "yes", B below is required				
	BMP=Best Management Practice(s) specifi	ïed in the system desig	ın				
	If the answer to both questions is "no",	this section does n	not need to be completed.				
	Compliance criteria						
	a. Operating Permit number:						
	Have the Operating Permit requirements I	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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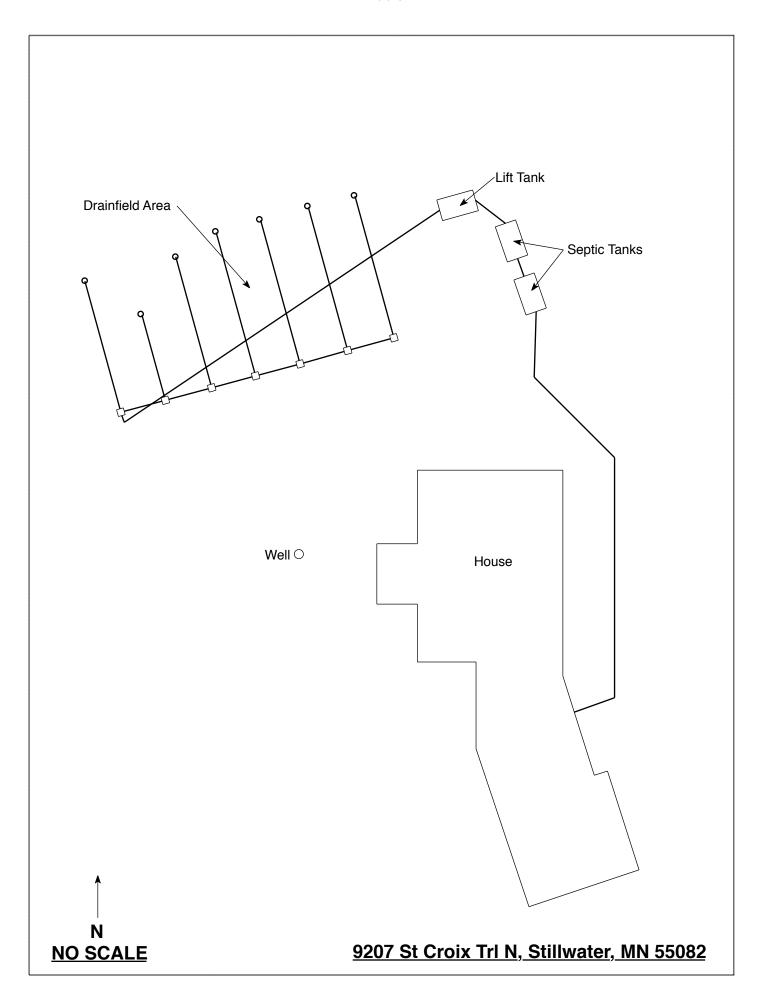
## Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 13, 2019	Time: 1:45 PM								
Property Address: 9207 St Croix Trl N, Stillwater, MN Zip: 55082									
	Phone: 651-253-2878								
1 3									
Tank(s)       Tank(s)Material       Soil Treatment System         Septic 2       Fiberglass       Scok trench         Aerobic       Plastic       Gravelless trench         Lift       Metal       Chamber trench         Holding       Concrete       Seepage bed         Other:       Block       Mound         Other       At-grade	Other  Alternative system  Experimental system  Cesspool system  Other system								
Are the tank maintenance covers accessible?   Yes  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: 1955 Year septic installed: 2012	Tank size (gals.): 1-1500, 1-1000								
How long has seller owned the property? 1980 Number of re	esidents in home? 2-5								
Number of bedrooms? 4 Are all floors drained by g	ravity? 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 other buildings? N									
Location of septic system on lot? North Side									
Location of water well on lot? West Side Is th	e 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? N If yes, explain:									
When was the system last pumped? 2018 Name of pum	nper: Ron's Sewer Service								
	n on a monitoring plan? N								
Have you received notices from any government agency concerns									
Is your property located in a shoreland management area? Y	•								
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: Clyde Saari's Signature On File Date: 5/13/2019



SITE EVALUATION  EVALUATOR: PARTY ADDRESS:					COUNTY USE ONLY			D NEW D EXISTI D DWELL SHORE CODE:	NG 🗆	☐ CLASS V ☐ COMMERCIAL ESTABLISHMENT ☐ IN WELLHEAD PROTECTION AREA		
DATE: 9	1/12/2		TIME:			Γ						
SOIL CLASSIA	ICATION:				SOIL	REVIEW PARENT MAT	ERIA	· 7	trus P	T B O n A	CL OUTWAS	
		SOIL BORI	NG 1						SOIL BOR	NG 2	CR. 00/100B	
ELEVATION C	F BORING:		LOCATION:			ELEVATION (	OF BO	RING:		LOCATION:		
GPS COORDII	ATES: LAT:		LON:			GPS COORDII	NATE	E LAT		LON:		
	BORING		PIT	_	PROBE		BOR			PIT	□ PROBE	
SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	Ri	FEATURES )	SOIL HORIZON DEPTH (IN)	TE	XTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES	
0-12	L5	7.5-5/3	Χη		<i>N</i>							
12-66	5	7-5-5/3	56	-			_			<u> </u>		
			66.	Di	13			ĺ				
				SOI	L REVIEW	CONCLUSI	ONS					
☐ SITE SE	JITABLE				DEPTH INFOR	MATION:			SOIL T	EXTURE: Medica	c. l	
UNSUIT	ABLE SOIL	STAND	ING WATER:	N	SATUR	RATED SOIL:			SOIL S	ZING FACTOR	July	
COMPA		BEDRO	ск:		MAXIMUM DEPTH OF			F SYSTEM: LINEAR LOADING RATE:			re:	
					SITE R	EVIEW						
	CHECK A	LL THAT APPL	Ÿ			ENTS ON LOT:				SETBACKS		
□ WETLA	ND OR WETL	AND VEGETATI	ON			UTILITY	BLUFFLINE					
☐ POND,	LAKE, STREA	M, RIVER				DRAINAGE POND,		ER				
C 10 YEA	R FLOOD ELE	VATION						POND, LAKE, STREAM, WETLAND				
□ 8LUFFL □ W£LL		SING DEPTH:			□ OTHER		WELL					
OMMENTS/NO	OTES:		15		0%	Sino.	,					
		4	114 1	Ve	es Va	ang	L	·~ /	BLE	Line Se	Aback	
	2-10		Som e	+,	ees q	sill në	re	110	be ven	ww		
	2-10		Shor	7	Tranc	hes						

AC	Additional Soil Observation Logs					SIVE WAGE EATMENT GGRAM	*		4/3/2012 10:45 AM	
c	Client/ Address: Carol Johnson					Landscape position				
Legal Des	cription/ GPS	9207 St.	Croix Trail North, S	itillwater , MN		1	Vegetation		lawn	
	nt materials Il that apply)	☑ Outv	rash Lacustri			Observation #/Location: BH2 Soil survey map units:4540 Slot			Slope% Linear,	i 17
Depth (in)	Texture	Coarse Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I Struc Shape	tureI Grade	Consistence	,
0-12	medium loamy sand		mixed				Single grain			
12-66	medium sand		7.5yr 5/3				Single grain			
						1				
		-								
									i	
Comment	OK 5' 6"									
Comment					Observation	on #/Location:		внз		
		Coarse Frag. %	Matrix Color(s)	Mottle Color(s)	Observation Redox Kind(s)	on #/Location:	I Struc	BH3 tureI Grade	Consistence	,
Depth (in)			Matrix Color(s)	Mottle Color(s)		Indicator(s)	I Struc	turel	Consistence	,
Depth (in) 0-16	Texture medium			Mottle Color(s)		Indicator(s)	I Struc Shape	turel	Consistence	,
Depth (in) 0-16	Texture medium loamy sand		mixed	Mottle Color(s)		Indicator(s)	I Struc Shape Single grain	turel	Consistence	,
Depth (in) 0-16	Texture medium loamy sand		mixed	Mottle Color(s)		Indicator(s)	I Struc Shape Single grain	turel	Consistence	,
Depth (in) 0-16	Texture medium loamy sand		mixed	Mottle Color(s)		Indicator(s)	I Struc Shape Single grain	turel	Consistence	,
Depth (in) 0-16	Texture medium loamy sand		mixed	Mottle Color(s)		Indicator(s)	I Struc Shape Single grain	turel	Consistence	,
Depth (in) 0-16	Texture medium loamy sand		mixed	Mottle Color(s)		Indicator(s)	I Struc Shape Single grain	turel	Consistence	,
Comments Depth (in) 0-16 16-66 Comments	Texture   medium     loamy sand     medium sand		mixed	Mottle Color(s)		Indicator(s)	I Struc Shape Single grain	turel	Consistence	•

CI	ient/ Address:	Carol Jo	hnson			Land	scape position	Back	/ Side Slope
Legal Des	cription/ GPS	9207 St.	Croix Trail North, Still	water , MN			Vegetation		lawn
	nt materials I that apply)	Outv	ash Lacustrine	□ Loess edrock □ Organic		on #/Location: vey map units		BH1 Slope shape	Slope% 17.0 Linear, Linear
Depth (in)		Coarse Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I Struc Shape	tureI Grade	Consistence
0-10	coarse loamy sand		mixed				Single grain		
10-72	medium sand		7.5yr 5/3				Single grain		
Comments	ok e			1					
hereby cer	EK (I)	complete		ce with all applicable or CELL (Signature)	dinances, rules ar	nd laws.	3268 (License #)		14/3/2012 (Date)

#### **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 1<sup>st</sup> through April 1<sup>st</sup>) 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

## Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2019

Issued: 11/20/2018

#### Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

#### **Designated Certified Individual(s):**

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
	Installer, Designer (Apprentice)	, v , v
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	



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

Nick Haig, Supervisor Certification and Training Unit