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

P.O. Box 10853 White Bea	Brian Humpal						
651-492-7550/Brian@Midw	MPCA Licensed Advanced Inspector						
SUBSURFACE SEWAGE	<b>A (SSTS) COMPLIANCE REPORT</b>						
Date: August 28, 219	<b>Time:</b> 12:30 PM	Owner: Ron Piela					
Inspection Address: 4961 Northbrook Blvd N, Baytown, MN 55082							

### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a mound.

Predicated on my inspection of the system 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 Humpol

Brian Humpal

2 of 11



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): 8/28/2019

### 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 groundwater

Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

### **Property Information**

Parcel ID# or Sec/Twp/Range:

Property address:	4961 Northbrook Blvd N, Baytown, MN 55082	Reason for inspection: Property Transfer
Property owner: Ron Piela		Owner's phone: 612-747-5161
or		
Owner's represent	tative:	Representative phone:
Local regulatory a	uthority: Washington County	Regulatory authority phone: 651-430-6655
Brief system desci	ription:Two pre-cast septic tanks, a pre-cast lift ta	ink, and a mound.
Commonto or room	mmondations	

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						Licens	se number:	L2	896			
Inspector signatu	re:	Brian ;	Hu	npal Africa	Vi	le	Phon	ne number:	65	1-492-7550		
Necessary or	Local	ly Require	ed A	ttachment	S							
🛛 Soil boring lo	ogs	🛛 Syst	em/A	s-built drawing	J		Forms per lo	ocal ordinan	се			
Other inform	ation (lis	t): Report S	Summ	ary, Property I	nforn	mation, Dise	claimer, Lice	ense				
www.pca.state.mn.	us •	651-296-6300	•	800-657-3864	•	TTY 651-2	.82-5332 or 80	00-657-3864	•	Available in alternative formats		

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

Property address: 4961 Northbrook Blvd N, Baytown, MN 55082

Compliance criteria:		Verif
System discharge sewage to the ground surface.	🗌 Yes 🖾 No	⊠ s ⊠ s
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	□ "E □ S □ P
Any "yes" answer above indicate an Imminent Threat to Public Hea		

Comments/Explanation:

None of the above found.

#### Verification method(s):

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

### 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 tanks - baffles and tank walls OK. Lift pump and alarm were operational at the time of the inspection.

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

a.	Maintenance hole covers are damaged, crac	cked, unsecured,	or appear to structurally uns	ound. 🗌 Yes*	🛛 No	🗌 Unknown
<b>~</b>	indinite nere eere ale damagea, era		or appoint to our diotant any arrest			

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: 2000	Unknown	Verification method(s):					
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Pro					
Compliance criteria:		observations by two independent pa unless site conditions have been alte					
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	☐ Yes ☐ No	<ul> <li>requirements differ.</li> <li>Conducted soil observation(s) (A</li> <li>Two previous verifications (Attac</li> <li>Not applicable (Holding tank(s), not</li> <li>Unable to verify (See Comments/E</li> </ul>	h boring logs) drainfield) Explanation)				
saturated soil or bedrock.		Other (See Comments/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:	🖾 Yes 🔲 No	Comments/Explanation: Reviewed design and permit records	5.				
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 separation distance from periodically		B. Periodically saturated soil/bedrock C. System separation					
saturated soil or bedrock.							
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	D. Required compliance separation* *May be reduced up to 15 percent if Ordinance.	allowed by Local				
Operating Permit and Nitrogen B	<b>MP*</b> – Compliance	component #5 of 5 🛛 🛛 Not appl	icable				
Is the system operated under an Operating Peri	mit? 🗌 Yes 🗌	] No If "yes", A below is required					
Is the system required to employ a Nitrogen BMP?							
BMP=Best Management Practice(s) specified in the system design							
If the answer to both questions is "no",	this section does i	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

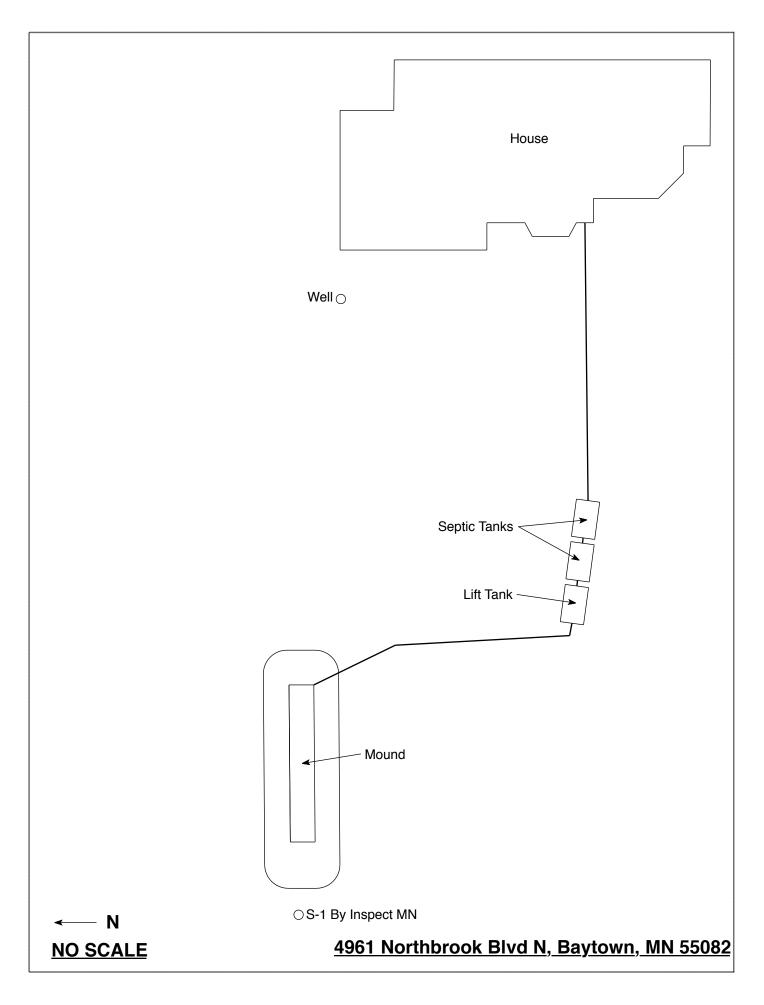
### Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: August 25, 2019	Time: 12:30 PM							
	NOL 7: 55002							
Property Address: 4961 Northbrook Blvd N, Baytow								
Property Owner: Ron Piela	Phone: 612-747-5161							
Septic 2 Fiberglass Rock tro Aerobic Plastic Gravelle	ess trench  Experimental system    er trench  Cesspool system    e bed  Other system							
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: 2000 Year septic installed: 2								
	umber of residents in home?							
	lrained by gravity? Y							
	rlpool bath?							
More than one system (laundry, etc.)?								
Does this property have any footing drain tiles connec Are any buildings on this property such as garages or								
Are there any additional systems on this property serv	ing other buildings?							
Location of septic system on lot? West Side								
Location of water well on lot? West Side	Is the well a deep well? Y							
Have you ever experienced any problems with the sys	tem 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? 2018Name of pumper: Ron's 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 a								
Do you have any additional information that should be	e 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

	Location of Project: 4961 Northbrook Blvd N, Baytown, MN 55082								
Ot			Inspect Minnesota			Date:	8/28/19		
C	lassific	ation System:	USDA						
Soil Observation:			1		Soil C	bservation:			
Surface Elevation of +28" below			top of mound on nal contour	Elevat	face tion of vation				
Depth In Inches	Rock %	<u>Soils E</u>	ncountered	Depth In Inches	Rock %	<u>Soils</u>	Encountered		
0-10 10-14 14-24 24-31		10YR 4 10YR 3 10YR 3/4	2/2 Silt Loam 3/4 Silt Loam Clay Loam With 3 5/8 Redox						
24"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox		
+28"	Elevatio	n Of Observatior	n Below Top Of Mound		Elevatio	n Of Observat	tion Relative To System		
-17"	Depth T	o Bottom Of Dis	stribution Media		Depth T	o Bottom Of I	Distribution Media		
≥35"	Of Sepa				Of Sepa				
			24"						
End		Observation At:	31"	End Of		servation At:			
Char		dox Present At:	24"	Ctand		x Present At:			
Stan	ung wa	ter Present At:	None	Stanul	ng wate	r Present At:			

Bottom Of Distribution Medium At: 17 Inches

Signature:

Afren Va

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

Lot \_\_\_\_, Pt. of the N<sub>2</sub>-NE<sub>4</sub>-NE<sub>4</sub> Sec. 8, T29N R2OW (Baytown Twnshp)

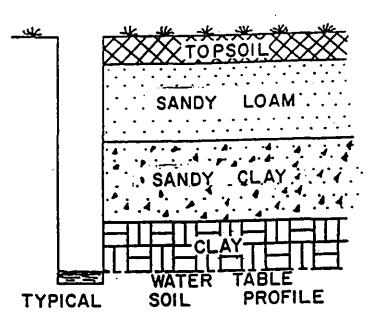
### -SOIL BORINGS-

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: September 1999

Soil Borings: RS Johnson Soil Testing

## LOG OF SOIL BORINGS

BOR	NG NO. 1	BOR	<b>NG NO.</b> 2	BORI	NG NO. 3	BORI	NG NO. 4
DEPTH JN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	Very Dark Gravish Brown Silf Joam	0	Very Lark Gravish Brown Silt Loam	0	Dark Brown Silt Loam	0	Very Dark Gravish Brown Silt Loam
1/2	Pale Brown	1/2	Pale Brown	1/2	Dark Brown	1/2	Brown
1	Silt Loam	1	<u>Silt Loam</u> Yellowish Brown		Silty Clay Loam	1	
11/2	Dark Brown (7.5YR 4/4)	11/2	Silty Clay Loan	11/2	Dark Brown Silt Brown	11/2	Silt
2	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2	Reddish Brown	2	Brown Silt	2	Brown Sandy Silt
21/2	Silt	21/2	Sandy Loam	21/2	(End)	21/2	(End)
3	0110	3	Light Brownish Gray	3		3	
31/2	Pale Brown Sandy Loam	31/2	Silt	31/2		31/2	
4	(End)	4	(End)	4	<b>_</b>	4	
41/2		41/2		41/2		41/2	
5		5		5		5	
51/2		51/2		51/2		51/2	
6	1	6		6		6	
61/2	Mottling	61/2	Mottling	61/2	Mottling	61/2	Mottling Depth: 24"
7	Depth: 38"	7	Depth: 36"	7	Depth: 24"	7	Depth: 24"
71/2		71/2	4	71/2		71/2	
8		8		8		8	-
81/2		81/2	1	81/2		81/2	
9		9		9		9	

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

Lot 2, Pt. of the N<sub>2</sub>-NE<sub>4</sub>-NE<sub>4</sub> Sec. 8, T29N R2OW (Baytown Twishp)

#### -SOIL BORINGS-

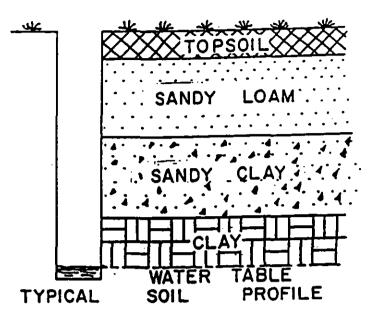
Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

s

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: September 1999

Soil Borings: RS Johnson Soil Testing

### LOG OF SOIL BORINGS

BOR	ING NO. 5	BOR	ING NO. 6	BORI	NG NO. 7	BORI	NG NO. 8
OEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN: FEET	
0	Dark Brown	0	Dark Brown	0	Dark Brown	0	Very Dark Gravish Brown
1/2	Silt Brown	1/2	Silt	1/2	Silt	1/2	Fine Sandy Loam
1	Silt	. 1	Yellowish Brown		Yellowish Brown	1	Yellowish Brown
11/2	Dark Brown Silt	11/2	Silt	11/2	Brown	11/2	Silt
2	Dark Brown Sandy Loam	2	Pale Brown Silt	2	Silt	2	Dark Brown Silt
21/2	(End)	21/2	Pale Brown Silty Clay Loam	21/2	Pale Brown	21/2	
3		3	Dark Brown Sandy Loam	3	Silt	3	Dark Brown (7.5YR 4/4)
31/2		31/2	(End)	31/2	(End)	31/2	
4		4		4		4	Sandy Loam
41/2		41/2		41/2		41/2	Dark Brown (7.5YR 4/4)
5		5		5		5	
51/2		51/2		51/2		51/2	Silt
6	1	6		6		6	(End)
61/2		61/2	) (other lines	61/2	Mottling	61/2	Mottling
7	Mottling Depth: 24"	7	Mottling Depth: 36"	7	Depth: 30"	7	Depth: 42"
71/2	-	71/2	_	71/2	_	71/2	
8		8		8	ļ	8	1
81/2		81/2	]	81/2	j	81/2	]
9		9		9		9	

### **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 Expires: 12/22/2019

Issued: 11/20/2018

# **Specialty Area(s):**

License # L2896

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

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

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

### MINNESOTA POLLUTION CONTROL AGENCY

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

Nich Haig

Nick Haig, Supervisor Certification and Training Unit