# **Midwest Sewer Services**

P.O. Box 10853 White Bear	Brian Humpal			
651-492-7550/Brian@Midwe	MPCA Licensed Advanced Inspector			
SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT				
Date: February 14, 2022	<b>Time:</b> 12:30 PM	Owner: Pagnia Vang		
Inspection Address: 1141 Oryan Trail N, Lakeland, 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 older system (installed in 1999) consists of two pre-cast septic tanks and a rock trench drainfield. Pinky's Sewer Service pumped the septic tank on August 9, 2021.

Although not a compliance criteria, it should be noted that gravelless pipe is no longer approved for installation in the State of Minnesota and we have had experience with this product having significantly reduced performance and/or life expectancy. We cannot guarantee the performance of this system beyond the compliance date (2/14/2022).

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.

Midwest Sewer Services have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Midwest Sewer Services disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.

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Brian Humpal

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Brian Humpal

### MINNESOTA POLLUTION CONTROL AGENCY

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

# Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

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

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Property information	Local tracking	number:
Parcel ID# or Sec/Twp/Range:	Reason for Inspection	Property Transfer
Local regulatory authority info: Washington County		
Property address: 1141 Oryan Trail N, West Lakeland, MN 55082		
Owner/representative: Pagnia Vang		_ Owner's phone: <u>651-210-8229</u>
Brief system description: Two pre-cast septic tanks and a gravelles	ss trench drainfield.	

## System status

System status on date (mm/dd/yyyy): 2/14/2022

### Compliant – Certificate of compliance\*

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

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

### □ Noncompliant – Notice of noncompliance

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

An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance or under section 145A.04 subdivision 8.

### Reason(s) for noncompliance (check all applicable)

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

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

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

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

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

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

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

### **Comments or recommendations**

Although not a compliance criteria, it should be noted that gravelless pipe is no longer approved for installation in the State of Minnesota and we have had experience with this product having significantly reduced performance and/or life expectancy. We cannot guarantee the performance of this system beyond the compliance date (2/14/2022).

## Certification

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

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

Business name: Midwest Sewer Services

Certification number: 5342/9852

Inspector signature:

(This document has been electronically signed	1)
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License number: L2896

Phone: 651-492-7550

## Necessary or locally required supporting documentation (must be attached)

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

Property Address:	1141 Oryan Trail N, West Lakeland, MN 55082	

Business Name: Midwest Sewer Services

Date: 2/14/2022

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

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

### Describe verification methods and results:

Although not a compliance criteria, it should be noted that gravelless pipe is no longer approved for installation in the State of Minnesota and we have had experience with this product having significantly reduced performance and/or life expectancy. We cannot guarantee the performance of this system beyond the compliance date (2/14/2022).

# 2. Tank integrity – Compliance component #2 of 5

Compliance criteria:		Attached supporting o	locumentation:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	🗌 Yes* 🛛 No	☐ Empty tank(s) viewed b Name of maintenance		
Sewage tank(s) leak below their designed operating depth?	🗌 Yes* 🛛 No	License number of maintenance business: Date of maintenance: ⊠ Existing tank integrity assessment (Attach)		
If yes, which sewage tank(s) leaks:		Date of maintenance (mm/dd/yyyy):	8/9/2021 (must be within three years)	
Any "yes" answer above indicates the system is failing to protect groundwater.		<ul> <li>(See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))</li> <li>Tank is Noncompliant (pumping not necessary – explain below)</li> <li>Other:</li> </ul>		

Describe verification methods and results:

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Property Address:	1141 Oryan Trail N, West Lakeland, MN 55082
Business Name:	Midwest Sewer Services

Date: 2/14/2022

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

	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?				
		□ Yes* ⊠ No □ Unknown			
	3b.	Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe	ety? □ Yes*	🛛 No 🔲 Unknown	
		*Yes to 3a or 3b - System is an imminent threat to public health and safety.			
	3c.	System is non-protective of ground water for other conditions as determined by inspector?	□ Yes*	🖾 No	
	3d.	System not abandoned in accordance with Minn. R. 7080.2500?	☐ Yes*	🖾 No	
		*Yes to 3c or 3d - System is failing to protect groundwater.			
		Describe verification methods and results:			
		Attached supporting documentation: 🛛 Not applicable			
4.	Ор	erating permit and nitrogen BMP* – Compliance component #4 of	of5 ⊠ N	lot applicable	
	Is th	e system operated under an Operating Permit?	lf "yes", A	below is required	
	Is th	e system required to employ a Nitrogen BMP specified in the system design?	lf "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. Have the operating permit requirements been met?  $\hfill Yes \hfill No$ 

b. Is the required nitrogen BMP in place and properly functioning?  $\Box$  Yes  $\Box$  No

## Any "no" answer indicates noncompliance.

Describe verification methods and results:

Attached supporting documentation: Operating permit (Attach)

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.

Property Address:	1141 Oryan Trail N, West Lakeland, MN 55082
Rusiness Name	Midwest Sewer Services

Date: 2/14/2022

usiness Name: Midwest Sewer Services

## 5. Soil separation – Compliance component #5 of 5

Date of installation 1999 (mm/dd/yyyy)	Unknown			
Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria (select one):	🗌 Yes 🖾 No	Attached supporting documentation: ☐ Soil observation logs completed for the report ☐ Two previous verifications of required vertical separ		
<ul> <li>5a. 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:</li> <li>Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.</li> </ul>	/ □ Yes □ No*	Not applicable (No soil treatment area           Reviewed design and permit records.		
5b. 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*	Indicate depths or elevations         A. Bottom of distribution media       See Attached Boring Log(s)         B. Periodically saturated soil/bedrock       C. System separation         D. Required compliance separation*       *May be reduced up to 15 percent if allowed by Local Ordinance.		
<ul> <li>5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required &gt; 2,500 gallons per day)</li> <li>Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.</li> </ul>	☐ Yes ☐ No*			

failing to protect groundwater.

\*Any "no" answer above indicates the system is

Describe verification methods and results:

Property address:	11/11	OLDING THE NI		
01	11-11	O'RYAN TH M	0	Parcel ID:
City: 51	Illuciter	State	mM	Zin code: 55087

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# **Optional section: Sewage Tank Compliance Certification**

This form does not represent a complete system inspection report and only certifies sewage tank compliance status.

Instructions: This section of the form may be completed and signed by a Designated Certified Individual (DCI) of a licensed SSTS Maintenance Business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system.

When this section of the form is signed by a qualified certified professional, it becomes *necessary supporting documentation* to an Existing System Compliance Inspection Report: <u>Compliance inspection form - Existing system (wq-wwists4-31b)</u>. This form can be found on the MPCA website at <u>https://www.pca.state.mn.us/water/ssts-and-msts-technical-and-compliance-criteria</u>.

The information and certified statement on this form is **required** when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits the inspection report. It represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4 Item (B) subitem (1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is R. 7082.0700, subp. 4 Items B, C, and D; 7083.0730 Item C.

## Certificate of sewage tank compliance

Affirm all three statements:

- The SSTS does not contain a seepage pit, cesspool, drywell, leaching pit, or other pit.
- It does not contain a sewage tank that was designed to be watertight, but subsequently leaks below the designed operating depth.
- It does not represent an imminent safety threat by reason of unsecured, damaged, or weak maintenance hole cover(s) or other unsafe condition.

# Notice of sewage tank non-compliance

Select all that apply:

- The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit – "Failure to Protect Groundwater."
- It has a sewage tank that was designed to be watertight, but subsequently leaks below the designed operating depth – "Failure to Protect Groundwater."
- It presents a threat to public safety by reason of unsecured, damaged, or weak maintenance hole cover(s) or other unsafe condition – "Imminent Threat to Public Health or Safety."

# Designated Certified Individual (DCI) information

Print name:	Meil	Cl	ymer	
Certification	number:	28	121	

I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS Maintenance Business. I personally conducted the necessary procedures to assess the compliance status of each sewage tank in this SSTS:

Designated Certified Individual's signature:

**Company information** 

Business license number:

Company name:

wer Service

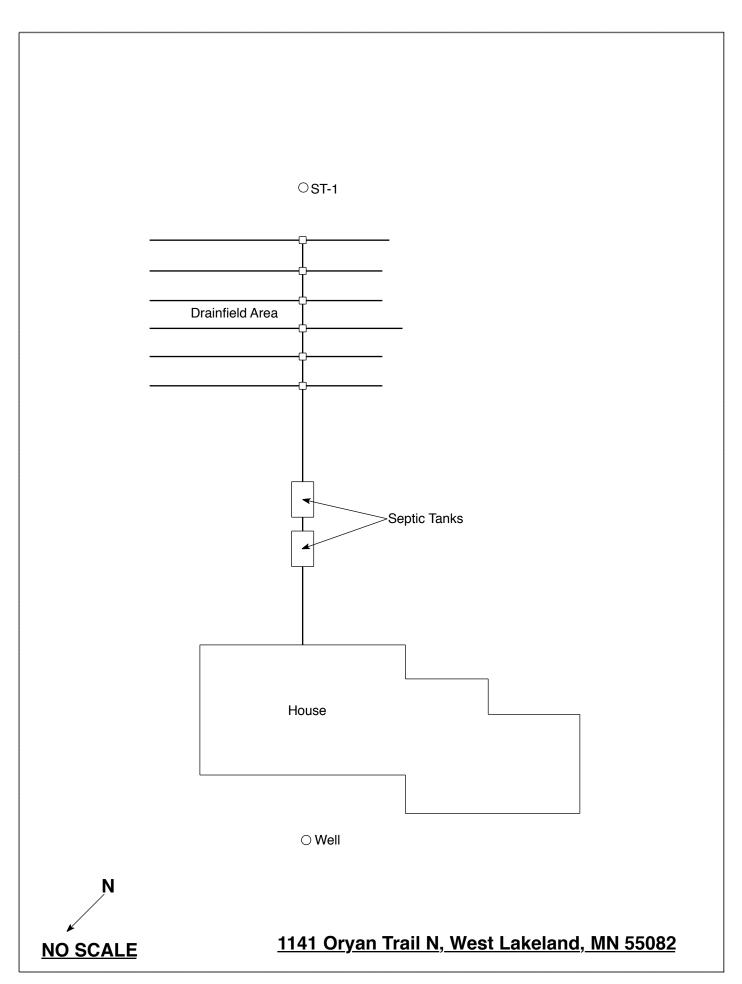
Date (mm/dd/yyyy):

## <u>Midwest Šewer Testing</u> Subsurface Sewage Treatment System Owner/Property Information

This information will be used for the purpose of conducting an MPCA Compliance Inspection.						
Date of Inspection: February 14, 2022	Time: 12:30 PM					
Property Address: 1141 Oryan Trail N, West Lakeland, MN	Zip: 55082					
Property Owner: Pagnia Vang	Phone: 651-210-8229					
Tank(s)       Tank(s)Material       Soil Treatment System         Septic 2       Fiberglass       Rock 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? $\boxtimes$ 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: 1999 Year septic installed: 1999	Tank size (gals.): 1-1500, 1-1000					
	sidents in home?					
Number of bedrooms? 5 Are all floors drained by gr						
Garbage disposal? Whirlpool bath?						
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles connected to the septic system?						
Are any buildings on this property such as garages or out-buildings connected to this system?						
Are there any additional systems on this property serving other buildings?						
Location of septic system on lot? East Side						
Location of water well on lot? West Side Is the well a deep well? Y						
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups,						
surfacing of sewage onto the ground, septic tank overflowing, etc. to the system? If yes, explain:	; or have any repairs been made					
When was the system last pumped? 8/9/2021Name of pumper: Pinky'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 area? N						
Do you have any additional information that should be given to the new owner?						

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing

Owner/Occupant:



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# Soil Observations Log

	Location of Project: 1141 Oryan Trail N, West Lakeland, MN 55082						
Ob	Observations Made By: Midwest Sewer Ser				Date:	2/14/2022	
		ation System:	USDA				
Soil Observation: ST-1		ST-1		Soil C	bservation:		
Surface Elevation of Same gro		-	nd surface as last Tield trench	Surface Elevation of Observation			
Depth In Inches	Rock %	Soils Encountered		Depth In Inches	Rock %	Soils Encountered	
	≈15-20	10YR 3 10YR 3/4 10YR 3/4 Mediu Sand 10YR 4/4 Mediu	2/2 Silt Loam 3/3 Silt Loam 4 Sandy Loam Im To Medium Coarse With Gravel Im Coarse Sand With Gravel				
75"	Depth T	To End Of Soil Observation Or Redox			Depth T	o End Of Soil	Observation Or Redox
Same	Same Elevation Of Observation Relative To System			Elevation Of Observation Relative To System			
-42" Depth To Bottom Of Distribution Media				Depth To Bottom Of Distribution Media			
≥33" Of Separation			Of Separation				
<u> </u>							
	End Of Soil Observation At: 75"				End Of Soil Observation At:		
Limiting Soil Conditions At: None			Limiting Soil Conditions At:				
Stan	Standing Water Present At: None S				ng Wate	r Present At:	

Bottom Of Distribution Medium At: 42 Inches

Signature:

Other Ula



EARTH SCIENCE TESTING SOILS INFORMATION COMPANY

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# **SOIL BORINGS**

LOT 11 - BLOCK 4 - SWEETWATER

## BORING NO.1

0"-8" = DARK BROWN FINE SILTY LOAM. (10YR 4/2) 8"-18" = BROWN FINE SANDY LOAM & ROCKS. (10YR 44) 18"-66" = LIGHT BROWN MED. LOAMY SAND & GRAVEL. (10YR 5/4) OBSTRUCTION - END BORE

## BORING NO.2

0"-7" = DARK BROWN FINE SILTY LOAM. (10YR 4/2) 7"-14" = LIGHT BROWN FINE SANDY LOAM & ROCKS. (10YR 5/4) 14"-34" = LIGHT BROWN MED. LOAMY SAND, FILM. (10YR 5/4) 34"-45" = LIGHT BROWN MED. LOAMY SAND & GRAVEL. (10YR 5/4) 45"-7'-0" = LIGHT TAN FINE - MED. CLEAN SAND. (10YR 6/4) END BORE

## BORING NO.3

0"-8" = DARK BROWN FINE SILTY LOAM. (10YR 4/2) 8"-14" = BROWN FINE SILTY LOAM. (10YR 4/4) 14"-37" = LIGHT BROWN MED. LOAMY SAND & GRAVEL. (10YR 5/4) 37"-7'-0"= LIGHT TAN MED. SAND & GRAVEL. (10YR 6/4) END BORE

### <u>BORING NO.4</u>

1

0"- 8" = DARK BROWN FINE SILTY LOAM. (10YR 4/2) 8"- 15" = BROWN FINE SANDY LOAM & ROCKS. (10YR 4/4) 15"- 40" = LIGHT BROWN MED. SAND & GRAVEL. (10YR 5/4) 40"- 7'-0" = LIGHT TAN MED. SAND (10YR 6/4) END BORE

# **DISCLAIMER**

## Brian L. Humpal, Inc. dba. Midwest Sewer Services, Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

- 1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
- 3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
- 4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
- 5. Minimum Compliance Inspection requirements relative to this inspection and this report include <u>only</u> verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
- 4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
- 5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
- 6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
- 7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 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.