Midwest Sewer Services

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: June 26, 2023 **Time:** 10:30 AM **Owner:** Kurt Stephan

Inspection Address: 2771 Trading Post Trail S, Afton, MN 55001

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. Meyer Sewer Service pumped the tanks on June 26, 2023.

Although not a compliance criteria, it should be noted that the lift pump electrical should be reconfigured above ground to reduce the potential for problems.

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.

Christopher Uebe

Brian Humpal

Brian Humpal



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 https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Property information	Local tracking	number:
Parcel ID# or Sec/Twp/Range:	Reason for Inspection	Property Transfer
Local regulatory authority info: Washington County		
Property address: 2771 Trading Post Trail S, Afton, MN 55001		
Owner/representative: Kurt Stephan		Owner's phone: 651-571-6332
Brief system description: Two pre-cast septic tanks, a pre-cast I	ift tank, and a mound.	
System status		
System status on date (mm/dd/yyyy): 6/26/2023		
☐ Compliant – Certificate of compliance*	☐ Noncompliant – Notice	ce of noncompliance
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and		ound water must be upgraded, replaced, or ime required by local ordinance.
abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)	upgraded, replaced, or its us	health and safety (ITPHS) must be e discontinued within ten months of receipt
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	of this notice or within a shor under section 145A.04 subdi	ter period if required by local ordinance or vision 8.
Reason(s) for noncompliance (check all applicat	ole)	
☐ Impact on public health (Compliance component #1) – Immi	nent threat to public health a	nd safety
☐ Tank integrity (Compliance component #2) – Failing to prote	ct groundwater	
$\hfill \Box$ Other Compliance Conditions (Compliance component #3) -	- Imminent threat to public he	ealth and safety
☐ Other Compliance Conditions (Compliance component #3) -	- Failing to protect groundwa	ter
System not abandoned according to Minn. R. 7080.2500 (Co		Failing to protect groundwater
Soil separation (Compliance component #5) – Failing to prot		
Operating permit/monitoring plan requirements (Compliance	component #4) – Noncompi	liant - local ordinance applies
Comments or recommendations		
Although not a compliance criteria, it should be noted that the li- reduce the potential for problems.	ft pump electrical should be i	econfigured above ground to
Certification		
	to datarmina the compliance of	totus of this system. No determination of
I hereby certify that all the necessary information has been gathered future system performance has been nor can be made due to unknowinadequate maintenance, or future water usage.		
By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	and correct, to the best of my	knowledge, and that this information can be
Business name: Midwest Sewer Services		Certification number: 5342/9852
Inspector signature: Brian Humpal (After 1)		License number: L2896
(This document has been electronically sign	ned)	Phone: 651-492-7550
Necessary or locally required supporting do	cumentation (must b	e attached)
☐ Soil observation logs ☐ System/As-Built ☐ Locally red	quired forms 🛛 Tank Integr	ity Assessment
$oxed{\boxtimes}$ Other information (list): Report Summary, Property Informa	tion, Disclaimer	

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npact on public health — Co Compliance criteria:	<u> </u>	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	<u> Постаррисавіе</u>	
System causes sewage backup into dwelling or establishment.	☐ Yes* ⊠ No		
Any "yes" answer above indicates imminent threat to public health a			
Describe verification methods and	l results:		
None of the above found.			
ank integrity – Compliance	component #2	of 5	
· · · · · · · · · · · · · · · · · · ·	component #2		
Compliance criteria:	· 	of 5 Attached supporting documentation:	
Compliance criteria: System consists of a seepage pit,	component #2		
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	· 	Attached supporting documentation:	Meyer Se
Compliance criteria: System consists of a seepage pit,	· 	Attached supporting documentation:	Meyer Se Service
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☑ No	Attached supporting documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business:	Service
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	· 	Attached supporting documentation: ☑ Empty tank(s) viewed by inspector	Service s: L915
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	☐ Yes* ☑ No	Attached supporting documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business	Service s: L915 6/26/2023
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	☐ Yes* ☑ No	Attached supporting documentation: ⊠ Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business: Date of maintenance: □ Existing tank integrity assessment (Attack	Service s: L915 6/26/2023
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☑ No	Attached supporting documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business Date of maintenance:	Service S: L915 6/26/2023
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Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicing is failing to protect groundwate.	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Attention of the system for.	Attached supporting documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business Date of maintenance: Existing tank integrity assessment (Attack Date of maintenance (mm/dd/yyyy): (must be within (See form instructions to ensure assessment) Minn. R. 7082.0700 subp. 4 B (1))	Service s: L915 6/26/2023 h) three years nent complies
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	pperty Address: 2771 Trading Post Trail S, Afton, MN 55001 siness Name: Midwest Sewer Services	Date: 6/26/2023
3.	Other compliance conditions – Compliance component #3 of 5	
	 3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or uns ☐ Yes* ☒ No ☐ Unknown 3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe 	
	*Yes to 3a or 3b - System is an imminent threat to public health and safety.	cty: res No Olikilowii
	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:	
4.	Attached supporting documentation: Not applicable Operating permit and nitrogen BMP* − Compliance component #4	of 5 🛭 Not applicable
	Is the system operated under an Operating Permit? ☐ Yes ☐ No	If "yes", A below is required
	Is the system required to employ a Nitrogen BMP specified in the system design? Yes No	If "yes", B below is required
	BMP = Best Management Practice(s) specified in the system design	
	If the answer to both questions is "no", this section does not need to be complete	ed.
	Compliance criteria:	
	a. Have the operating permit requirements been met? ☐ Yes ☐ No	
	b. Is the required nitrogen BMP in place and properly functioning? $\ \square$ Yes $\ \square$ No	
	Any "no" answer indicates noncompliance.	
	Describe verification methods and results:	
	Attached supporting documentation: ☐ Operating permit (Attach) ☐	

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Soil separation – Complian	ce compon	ent #5 o	f 5	
Date of installation 2013 (mm/dd/yyyy)	☐ Unk	known		
Shoreland/Wellhead protection/Foo	d 🛚 Ye			
beverage lodging?			☐ Soil observation logs completed for	the report
Compliance criteria (select one):	:			ed vertical separation
5a. For systems built prior to April 1, 19	· —	s □ No*	☐ Not applicable (No soil treatment a	rea)
not located in Shoreland or Wellhea Protection Area or not serving a foo beverage or lodging establishment:	od,		□ Reviewed design and permit record	ds.
Drainfield has at least a two-foot ve separation distance from periodical saturated soil or bedrock.				
5b. Non-performance systems built		☐ No*	Indicate depths or elevations	
April 1, 1996, or later or for non- performance systems located in Sh or Wellhead Protection Areas or se			A. Bottom of distribution media	See Attached Boring Log(s)
food, beverage, or lodging establish			B. Periodically saturated soil/bedrock	
Drainfield has a three-foot vertical	lv.		C. System separation	
separation distance from periodical saturated soil or bedrock.*	ıy		D. Required compliance separation*	
			*May be reduced up to 15 percent if a Ordinance.	allowed by Local
5c. "Experimental", "Other", or "Perform systems built under pre-2008 Rules Type IV or V systems built under 20 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License rec 2,500 gallons per day; Advanced Ir License required > 2,500 gallons per	s; 008 quired ≤ ospector	s □ No*		
Drainfield meets the designed verti- separation distance from periodical saturated soil or bedrock.				

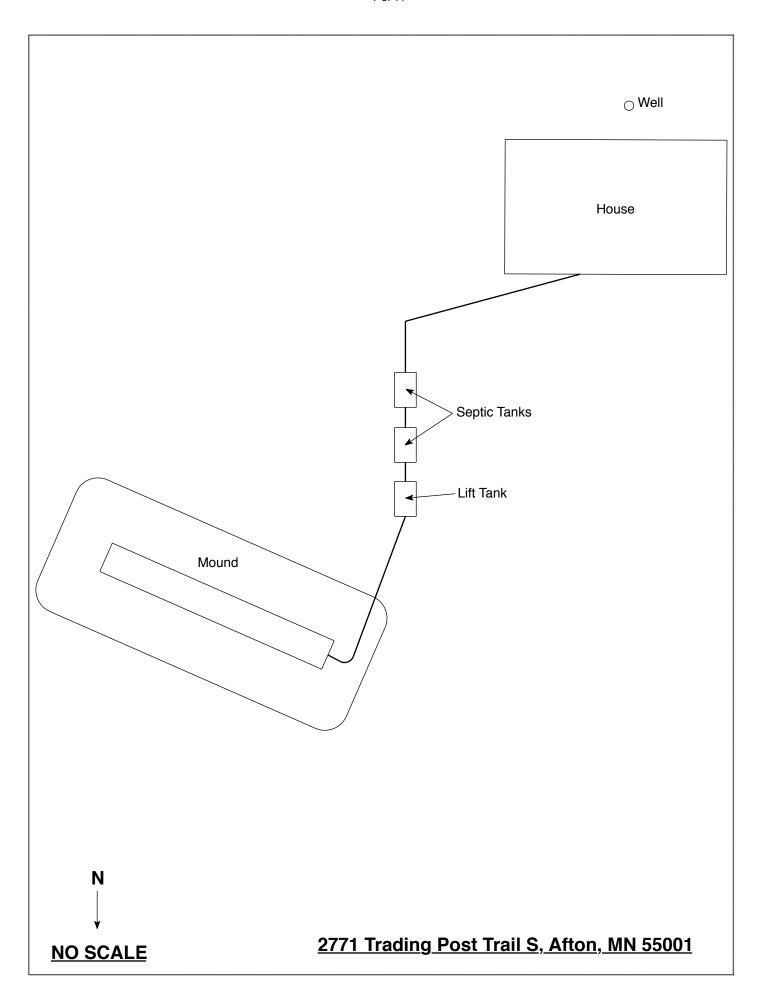
Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, 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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<u>Midwest & of 11</u> Subsurface Sewage Treatment System Owner/Property Information

This information will be used for the purpose of conducting an MPC	r compitance inspection.				
Date of Inspection: June 26, 2023	Time: 10:30 AM				
Property Address: 2771 Trading Post Trl S, Afton, MN	Zip: 55001				
Property Owner: Kurt Stephan	Phone: 651-571-6332				
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? ⊠ Yes ☐ No *I performed through the maintenance holes. Maintenance hole co the ground surface to facilitate access and proper maintenance of	vers should be made accessible to				
Year house built: 1968 Year septic installed: 2013	Tank size (gals.): 2-1000				
	residents in home?				
Number of bedrooms? 3 Are all floors drained by	gravity? Y				
Garbage disposal? Whirlpool bath	1?				
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 by	,				
	,				
Are there any additional systems on this property serving other by Location of septic system on lot? Northeast Side Location of water well on lot? South Side Is the system of the serving other by Location of septic system on lot?	ouildings? ne well a deep well? Y				
Are there any additional systems on this property serving other background Location of septic system on lot? Northeast Side	ne well a deep well? Y s: tree roots, sewage back-ups,				
Are there any additional systems on this property serving other by Location of septic system on lot? Northeast Side Location of water well on lot? South Side Have you ever experienced any problems with the system such a surfacing of sewage onto the ground, septic tank overflowing, et to the system? If yes, explain: When was the system last pumped? 6/26/2023 Name of pu	ne well a deep well? Y s: tree roots, sewage back-ups,				
Are there any additional systems on this property serving other by Location of septic system on lot? Northeast Side Location of water well on lot? South Side Have you ever experienced any problems with the system such a surfacing of sewage onto the ground, septic tank overflowing, et to the system? If yes, explain: When was the system last pumped? 6/26/2023 Name of pure by the property serving other by the property serving of the property serving	me well a deep well? Y s: tree roots, sewage back-ups, c.; or have any repairs been made mper: Meyer Sewer Service m on a monitoring plan?				
Are there any additional systems on this property serving other by Location of septic system on lot? Northeast Side Location of water well on lot? South Side Have you ever experienced any problems with the system such a surfacing of sewage onto the ground, septic tank overflowing, et to the system? If yes, explain: When was the system last pumped? 6/26/2023 Name of pure How often pumped in previous years? Is system that you received notices from any government agency concerns.	me well a deep well? Y s: tree roots, sewage back-ups, c.; or have any repairs been made mper: Meyer Sewer Service m on a monitoring plan?				
Are there any additional systems on this property serving other by Location of septic system on lot? Northeast Side Location of water well on lot? South Side Have you ever experienced any problems with the system such a surfacing of sewage onto the ground, septic tank overflowing, et to the system? If yes, explain: When was the system last pumped? 6/26/2023 Name of pure How often pumped in previous years? Is system that you received notices from any government agency concerns Is your property located in a shoreland management area?	ne well a deep well? Y s: tree roots, sewage back-ups, c.; or have any repairs been made mper: Meyer Sewer Service m on a monitoring plan? ning this system?				
Are there any additional systems on this property serving other by Location of septic system on lot? Northeast Side Location of water well on lot? South Side Have you ever experienced any problems with the system such a surfacing of sewage onto the ground, septic tank overflowing, et to the system? If yes, explain: When was the system last pumped? 6/26/2023 Name of pure How often pumped in previous years? Is system that you received notices from any government agency concerns.	ne well a deep well? Y s: tree roots, sewage back-ups, c.; or have any repairs been made mper: Meyer Sewer Service m on a monitoring plan? ning this system?				

by Inspect Minnesota and Midwest Soil Testing	
Owner/Occupant:	Date:



U of MN Onsite Sewage Treatment Program Soil Boring Log

Client/ Address: 277	1 TRADING POST TE	E. S. Legal Description	n/GPS: 16-028-20-4	3-0005 Date: 170CT 2013
		44°54′24.424	2" 92°48' 25.0493"	
Soil Parent Material(s) (circle all that ap		Lacustrine Alluvium	Loess Organic Ma	tter Bedrock
Landscape Position: (circle one)	Summit Sh	oulder Back/Side Slope	Foot Slope Toe Slo	ppe
Vegetation:	So	il Survey Map Unit(s):		Slop e (%):
Weather conditions/Ti	me of Dav:			Slone Shape

Depth (in)	Texture	Matrix	Mottle	Redox	Saturated Soil Indicator(s)	I	Structure	I
	· · · ·	Color(s)	Coior(s)	Kind(s)	(see back)	Shape	Grade	Consistence
0-6	64ND	10 4R 3/2		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Gran Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
6-18	LOAMS SANS	10 1.F 414		Concentrations Depletions Gleyed		Granutar Platy Blocky Prismatic Single Gran Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
18-24"	LOAMY SAND	10 4R 7/2	107R 7/2	Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Gra.n Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Gram Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grant Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
Commonto				Concentrations Depletions Gleyed	·	Granular Platy Blocky Prismatic Single Grair. Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid

Comments:

,s	ocation: 2/11/1/			AFTON MN. 5500. Borings made by: TOM TRODIEN 1568			
City State Zip uring method: Auger X Pit Probe Other			Color classification system: Munsell Other				
Surface	Number 1 Elevation at system depth:			Number 2 Elevation e at system depth:			
Depth Feet)	Texture	Color	Dopth (Feet)	Texture	Color		
1 —	LOAMY SANO	2.54R514	1-	LOAMYSAND	10yn3/2		
2-	SANDY LOAM	10yr 5/6	20-	SANDYLOAM	10Y1 5/6		
3-	MED SAND	104R6/3	3-				
5-	SILTY SAND	104n 5/4	·5]	SILTY SAND	10/n 5/9		
7-	FINESAND	104/2 7/3	6 <u>63"</u>	MED SAND	10/n 614		
tandi reser lottle lbser ot pr	boring at 8 feet. ng water table: ves no nt at feet of depth, hours after boring. d soll: NONE ved at feet of depth. esent in boring hole vations and comments:		Slope: End of Standi Prese Mottle Obser Not pr	f boring at feet. Ing water table: feet of depth, hours after boring. Ind soil: feet of depth Inved at feet of depth The sent in boring hole The vations and comments:	ı.		

Nope: 3 % ind of boring at 8 feet.
Standing water table: yes no resent at feet of depth, hours after boring.
Noticed soil: NONE Observed at feet of depth. Iot present in boring hole Observations and comments:

End of boring at _	feet.
Standing water tab Present athours	•
Mottled soil:	
Observed at	feet of depth.
Not present in bor	ing hole
Observations and	comments:

Slope: _____%

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 only 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.