Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear	Brian Humpal	
651-492-7550/Brian@Midwe	MPCA Licensed Advanced Inspector	
SUBSURFACE SEWAGE T	REATMENT SYSTEN	A (SSTS) COMPLIANCE REPORT
Date: December 13, 2018	Time: 1:45 PM	Owner: Phil Johnson
Inspection Address: 1569 Quer	ntin Ave S, LSCB, MN	Site Conditions: 3" Snow 5" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Phil Johnson, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1985) consists of a precast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance.

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

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

Please contact me should you have any questions.

Christopher Uebe

Brian Humpal

Brian Humpal



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems

(SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	
System Status	
System status on date (mm/dd/yyyy): <u>12/13/2018</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	public health and safety
Other Compliance Conditions (Compliance Component #3) – Imminent three	eat to public health and safety
☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwat	er
Other Compliance Conditions (Compliance Component #3) – Failing to pro	tect groundwater
Soil Separation (Compliance Component #4) – Failing to protect groundwa	ater
Operating permit/monitoring plan requirements (Compliance Component #	ŧ5) — Noncompliant

2 of 9

Property Information

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Property address: 1569 0	Quentin Ave S, Lake St. Croix Beach, MN	Reason for inspection:	Property Transfer	
Property owner: Phil Joh	nson	Owner's phone: 651-332-0361		
or				
Owner's representative:		Representative phone:		
Local regulatory authority:	Washington County	Regulatory authority phone	e: 651-430-6655	
Brief system description:	Pre-cast septic tank and a rock trench drainfield			
	ti			

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 H	umpal/Christo	pher	Uebe			Certificatio	n number:	C5	342/C9852
Business name:	Inspect	Minnesota, N	lidwes	st Soil Testing			Licens	e number:	L2	896
Inspector signatur	re:	Brian ;	Hem	pal After	_1/1		Phon	e number:	65	1-492-7550
Necessary or	Local	y Require	d At	tachment	S					
🛛 Soil boring lo	ogs	🛛 Syst	em/As	s-built drawing]		Forms per lo	cal ordinan	ce	
🛛 Other inform	ation (list): Report S	umma	ary, Property I	Inform	nation, Dis	claimer, Lice	nse		
www.pca.state.mn.	us •	651-296-6300	•	800-657-3864	•	TTY 651-2	82-5332 or 80	0-657-3864	•	Available in alternative formats

Impact on Public Health – Compliance component #1 of 5

Property address: 1569 Quentin Ave S, Lake St. Croix Beach, MN

1.

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🖾 No	Searched for surface outletSearched for seeping in yard/backup in home
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation)
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	 "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test
Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.		 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:	
System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes 🖾 No
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.	
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🖾 No
If yes, which sewage tank(s) leaks:	
• " "	

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:

Comments/Explanation: None of the above found.

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

Verification method(s):

- Probed tank(s) bottom
 Examined construction records
 Examined Tank Integrity Form (Attach)
 Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

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

a.	Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.	□ Yes*	🛛 No	Unknown
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b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. \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: 1985	🗌 Unkn	nown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes	🛛 No	Soil observation does not expire. P observations by two independent p		
Compliance criteria:			unless site conditions have been al requirements differ.		
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	🛛 Yes	🗌 No	Conducted soil observation(s)	(Attach boring logs)	
Protection Area or not serving a food, beverage or lodging establishment:			 Two previous verifications (Atta Not applicable (Holding tank(s), r. 		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			 Other (See Comments/Explanation Other (See Comments/Explanation 	/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	<i>Comments/Explanation:</i> 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 separation distance from periodically saturated soil or bedrock.			B. Periodically saturated soil/bedrockC. System separation		
			D. Required compliance separation*		
Any "no" answer above indicates the Failing to Protect Groundwater.	he syste	em is	*May be reduced up to 15 percent of Ordinance.	if allowed by Loca	
Operating Permit and Nitrogen Based on the system operated under an Operating Permited		Compliance		blicable	
is the system required to employ a Nitrogen BM			•		
		system desid	jri		
BMP=Best Management Practice(s) specifi					
BMP=Best Management Practice(s) specifi			not need to be completed.		
BMP=Best Management Practice(s) specifi If the answer to both questions is "no",			not need to be completed.		
			·		
BMP=Best Management Practice(s) specifi If the answer to both questions is "no", Compliance criteria	this sec	tion does i	Protineed to be completed.		

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

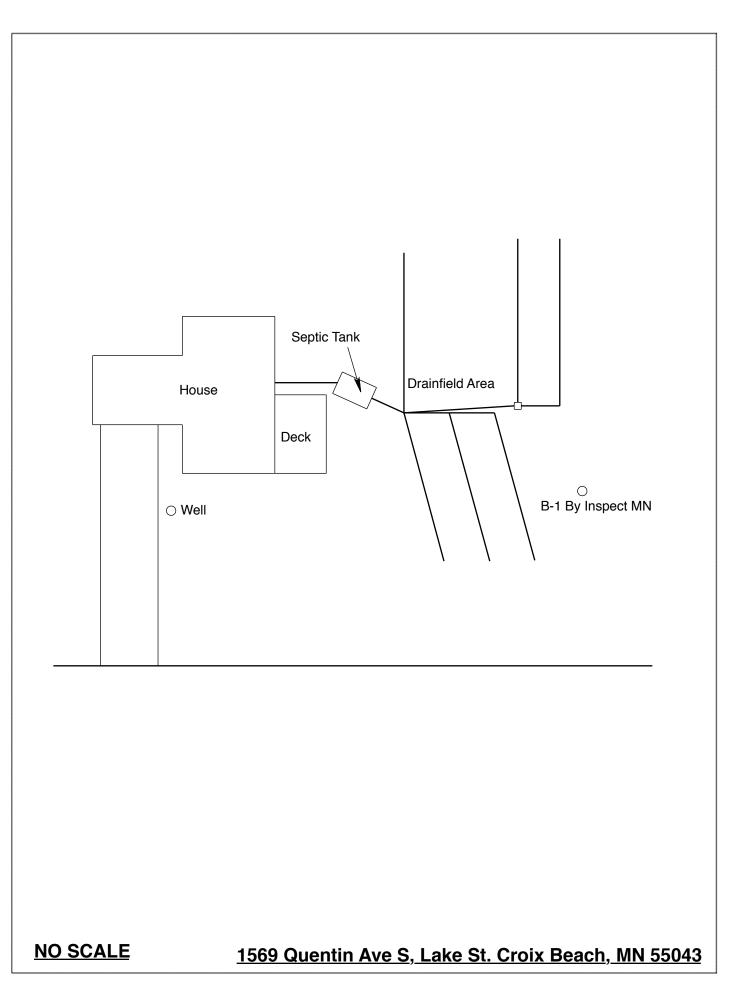
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: December 13, 2018	Time: 1:45 PM				
Property Address: 1560 Quentin Ave S. LSCD MN	7in: 55042				
Property Address: 1569 Quentin Ave S, LSCB, MN Property Owner: Phil Johnson	Zip: 55043 Phone: 651-332-0361				
Tank(s)Tank(s)MaterialSoil Treatment SystemSeptic 1FiberglassRock trenchAerobicPlasticGravelless trenchLiftMetalChamber trenchHoldingConcreteSeepage bedOther:BlockMoundOtherAt-grade	Other Alternative system Experimental system Cesspool system Other system				
Are the tank maintenance covers accessible? Yes No * 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: 1985 Year septic installed: 1985	Tank size (gals.): 1250				
	residents in home? 2-6				
	gravity? Lower Pumped				
Garbage disposal? N Whirlpool bat					
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-buildi	ngs connected to this system? N				
Are there any additional systems on this property serving other	ouildings? N				
Location of septic system on lot? Southside					
	he 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? Sept 2018 Name of pu	mper: Pinky's Sewer Service				
	em on a monitoring plan? N				
Have you received notices from any government agency concer					
Is your property located in a shoreland management area? N					
Do you have any additional information that should be given to	the new owner? N				

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

Owner/Occupant: Phil Johnson's Signature On File

Date: 12/13/2018



Log Of Soil Borings

Loca	tion of Project.	1569 Quentin Ave S,	Lake St. Cr	oix Beach MN 5	5043
		Inspect Minnesota		Date:	12/13/18
		Hand/Bucket	Classi	fication System:	USDA
В	oring Number:	1		Boring Number:	
Surface Elevation of Boring	f Same grou	und surface as last nfield trench	Surface Elevation o Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	countered
0-30 30-57 57-72	7.5YR 4/ 5YR 4/6	/3 Loamy Sand 4 Loamy Sand Medium Sand sal At 72"			
72" D	epth To End Of B	oring Or Redox	[Depth To End Of Bo	oring Or Redox
Same El	levation Of Borin	g Relative To System	E	Elevation Of Boring	Relative To System
	epth To Bottom (f Separation	Of Distribution Media		Depth To Bottom O Df Separation	f Distribution Media
E	nd Of Boring At:	72"		End Of Boring At:	
	edox Present At:	None		Redox Present At:	
Standing W	/ater Present At:	None	Standing	Water Present At:	

Bottom Of Distribution Medium At: 45 Inches

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing

Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

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

Subsurface Sewage[®]Treatment Systems Non-transferable Business License

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	Certification Expires:
C9633	Anthony P Scully	3/5/2020
•	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv De	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