Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: February 27, 2017 **Time:** 2:00 PM **Owner: Inspection Address:** 22850 Kirk Ave N, Scandia, MN 55073

Allk Ave IV, Scalidia, WIIV 55075

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.

Although not a compliance criteria, it should be noted that the lift pump electrical is poorly configured and should be re-configured as soon as possible to reduce the potential for problems. Additionally, it should be noted that the septic tank is currently due for maintenance pumping and should be pumped when possible.

The mound has had vehicle traffic over the middle of the system. It is unknown what kind of negative impact this has had on the mound due to disruption and compaction of the soils. Further vehicle traffic must be prevented.

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.

Brian Humpal



☑ Other information (list):

St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

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Instructions: Inspection results based on Minnesota Pollution Control Agrequirements and attached forms – additional local requirements may also	
Submit completed form to Local Unit of Government (LUG) and syswithin 15 days	tem owner
System Status	
System status on date (mm/dd/yyyy): _2/27/2017	
□ 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) – Im ☐ Other Compliance Conditions (Compliance Component #3) ☐ Tank Integrity (Compliance Component #2) – Failing to pro ☐ Other Compliance Conditions (Compliance Component #3)	- Imminent threat to public health and safety tect groundwater - Failing to protect groundwater
 ☐ Soil Separation (Compliance Component #4) – Failing to p ☐ Operating permit/monitoring plan requirements (Compliance 	_
Property address: 22850 Kirk Ave N, Scandia, MN 55073 Property owner:	Sec/Twp/Range: Reason for inspection: Owner's phone:
Owner's representative: Donna Kohs (Re/Max Results)	Representative phone: 651-336-2327
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-4052
Brief system description: Two pre-cast septic tanks, a pre-cast lift tar	
Comments or recommendations:	
Although not a compliance criteria, it should be noted that the lift pump as soon as possible to reduce the potential for problems. Additionally, i maintenance pumping and should be pumped when possible.	
The mound has had vehicle traffic over the middle of the syste on the mound due to disruption and compaction of the soils. Further ve	·
Certification	
I hereby certify that all the necessary information has been gathered to determination of future system performance has been nor can be made possible abuse of the system, inadequate maintenance, or future water	due to unknown conditions during system construction,
Inspector name: Brian Humpal	Certification number: L5342
Business name: Inspect Minnesota, Midwest Soil Testing	License number: L2896
Inspector signature: Buan Humpal	Phone number: 651-492-7550
Necessary or Locally Required Attachments	
Soil boring logs	☐ Forms per local ordinance

Report Summary, Property Information, Disclaimer, License

1.	Impact on Public Health – Co	mpliance compone	nt #1 of 5		
	Compliance criteria:		Verification method(s):		
	System discharge sewage to the ground surface.	☐ Yes ⊠ No	☑ Searched for surface outlet☑ Searched 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) "Black soil" above soil dispersal system 		
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ System requires "emergency" pumping ☐ Performed dye test		
	Any "yes" answer above indicate an Imminent Threat to Public Hea	s the system is Ith and Safety.	☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
	Comments/Explanation: None of the above found.				
2.	Tank Integrity — Compliance cor	mponent #2 of 5			
	Compliance criteria:		Verification method(s):		
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☑ Probed tank(s) bottom☑ Examined construction records		
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s)☐ Probed outside tank(s) for "black soil"		
	If yes, which sewage tank(s) leaks:		☐ 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)		
3.	Comments/Explanation: Lowered underwater camera into tanks Lift pump and alarm were operational at Other Compliance Conditions	the time of the inspe	ction.		
	Maintenance hole covers are damage	d, cracked, unsecured	d, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b. Other issues (electrical hazards, etc.) to *System is an imminent threat to pu		ersely impact public health or safety. Yes* No Unknown		
	Explain:				
	c. System is non-protective of ground wa *System is failing to protect ground Explain:		as as determined by inspector ☐ Yes* ☒ No		

Property address: 22850 Kirk Ave N, Scandia, MN 55073

Inspector initials/Date: 2/27/2017

Date of installation: 1997	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ☐ No	Soil observation does not expire. Pr	
Compliance criteria:	observations by two indep riteria: unless site conditions hav		
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	☐ Yes ☐ No	requirements differ. Conducted soil observation(s) (A Two previous verifications (Attac	ch boring logs)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		☐ Unable to verify (See Comments/IDDE) ☐ 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	Comments/Explanation: Reviewed design and permit record	s.
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV	☐ Yes ☐ No	Indicate depths of elevations	
or V systems built under pre-2006 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/bedrock C. System separation	
Any "no" answer above indicates t	ho system is	D. Required compliance separation*	
Failing to Protect Groundwater.	*May be reduced up to 15 percent if Ordinance.	allowed by Local	
 Operating Permit and Nitrogen B 	MP* – Compliance	e component #5 of 5 Not appl	icable
Is the system operated under an Operating Per	mit?	⊠ No If "yes", A below is required	
Is the system required to employ a Nitrogen BMP?			
BMP=Best Management Practice(s) specif	ied in the system des	sign	
If the answer to both questions is "no",	this section does	not need to be completed.	
Compliance criteria			
Operating Permit number: Have the Operating Permit requirements	been met?	☐ Yes ☐ No	
b. Is the required nitrogen BMP in place and	properly functioning	?	
Any "no" answer indicates Noncom	pliance.		

Property address: 22850 Kirk Ave N, Scandia, MN 55073

Inspector initials/Date: 2/27/2017

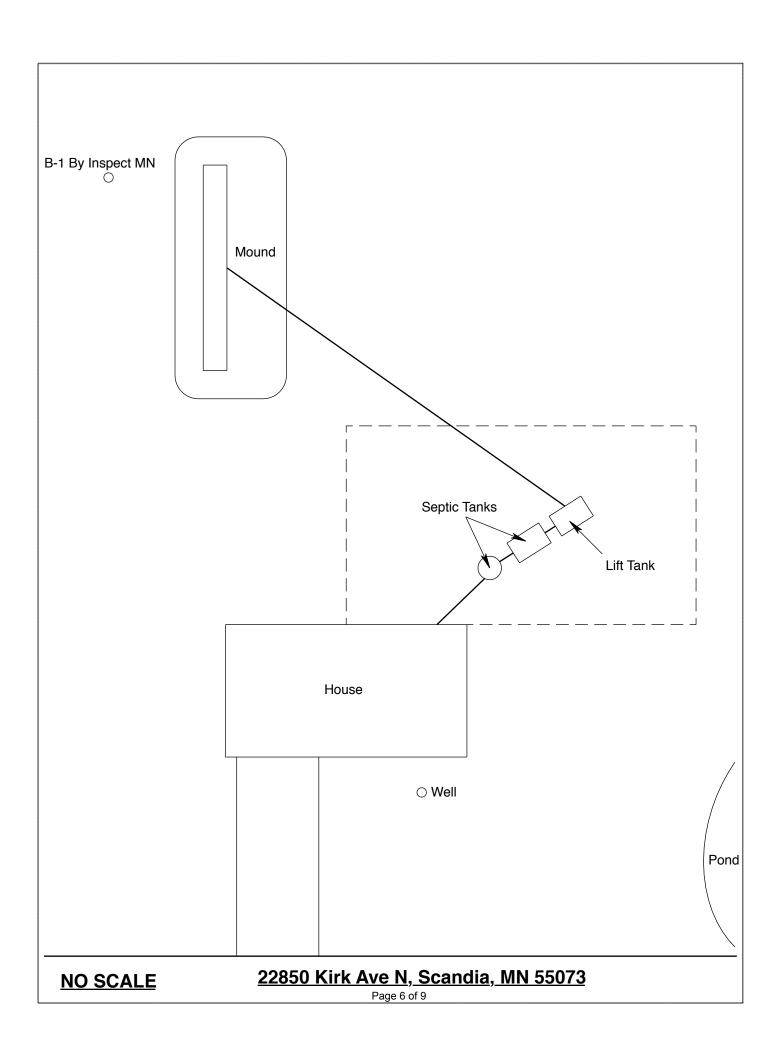
Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, 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.

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 Page 4TOTY9651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 3 of 3

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: February 27, 2017	Time: 2:00 PM		
Property Address: 22850 Kirk Ave N, Scandia, MN	Zip: 55073		
Property Owner:	Phone:		
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 *If i performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the surface to facilitate access and proper maintenance of the surface to facilitate access and proper maintenance of the surface to facilitate access and proper maintenance of the surface access access and proper maintenance of the surface access acces	ers should be made accessible to		
1	Γank size (gals.): 2-1000		
	sidents in home?		
Number of bedrooms? 5 Are all floors drained by gr	ravity? Y		
Garbage disposal? Whirlpool bath?			
More than one system (laundry, etc.)?			
Does this property have any footing drain tiles connected to the se	ptic 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? Tanks - Southwest Side, Mound	- Southeast Side		
Location of water well on lot? North Side	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? If yes, explain:			
When was the system last pumped? 2015 Name of pum	per:		
	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:	Date:		



Log Of Soil Borings

Location of Project: 22850 Kirk Ave N, Scandia, MN 55073					
Borings Made By: Inspect Minnesota			Date:	2/27/17	
Auger Used: Hand/Bucket		Hand/Bucket	Classification System:		USDA
Boring Number: 1			Boring Number:		
ICIEVATION OLI		top of mound on inal contour	Surface Elevation of Boring	of	
Depth In Inches	th In Soils Encountered		Depth In Inches	Soils Er	ncountered
0-9 9-36	10YR 5/4 San	2/2 Loam dy Clay Loam With a 10YR 6/2 Redox			
9"	Depth To End Of B	oring Or Redox]	Depth To End Of Bo	oring Or Redox
+77"	Elevation Of Boring	g Below Top Of Mound	E	Elevation Of Boring	Relative To System
-34" Depth To Bottom Of Distribution Media				of Distribution Media	
=52" Of Separation		(Of Separation		
	End Of Boring At:	36"		End Of Boring At:	
	Redox Present At:	9"		Redox Present At:	
Standing Water Present At: None			Water Present At:		
Ctarianing		140110	Ctantaing		

Bottom Of Distribution Medium At:	34 Inches

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 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



Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2017

Issued: 11/29/2016

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2017

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852

Christopher R Uebe

3/4/2018

Designer, Inspector



St. Paul, Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section