Inspect Minnesota & Midwest Soil Testing

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

Inspection Address: 6790 Omar Ave S, Denmark Twp, MN 55033

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the history of the system with the owner, Mary Stevenson, and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks and a rock trench drainfield.

It should be noted that last two drainfield trenches have minimal or no soil cover. I recommend placing additional soil over these trenches to prevent surfacing and/or freezing.

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 presently meets 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



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	For local treation in transcent
Instructions: Inspection results based on Minnesota Pollution Control Agency (MPC 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	r
within 15 days	
System Status	
System status on date (mm/dd/yyyy): <u>9/27/2017</u>	
	compliant – Notice of Noncompliance Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent three Other Compliance Conditions (Compliance Component #3) – Imminent	
☐ Tank Integrity (Compliance Component #2) – Failing to protect ground	
Other Compliance Conditions (Compliance Component #3) – Failing to	
 ☐ Soil Separation (Compliance Component #4) – Failing to protect groun ☐ Operating permit/monitoring plan requirements (Compliance Component) 	
_ 1	, ,
Property Information Parcel ID# or Sec/Twp/R	Range:
	on for inspection: Property Transfer
Property owner: Jon & Mary Stevenson Owne	r's phone: 612-385-2843
or .	
	sentative phone:651 430 4053
Local regulatory authority: Washington County Regulation Regulation System description: Two pre-cast septic tanks and a rock trench drainfield.	atory authority phone: 651-430-4052
Comments or recommendations:	
It should be noted that last two drainfield trenches have minimal or no soil cover. I retrenches to prevent surfacing and/or freezing.	ecommend placing additional soil over these
Certification	
I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Brian Humpal Certifi	cation number: <u>L5342</u>
Business name: Inspect Minnesota, Midwest Soil Testing Li	cense number: L2896
Inspector signature: Brian Humpal I	Phone number: 651-492-7550
Necessary or Locally Required Attachments	
	per local ordinance
☐ Other information (list): Report Summary, Property Information, Disclaimer,	

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

Property address: 6790 Omar Ave S, Denmark Twp, MN 55033 Inspector initials/Date: 09/27/2017

<u>1.</u>	lm	npact on Public Health – Cor	npliance	compone	ent #1 of 5		
	C	ompliance criteria:			Verification method(s):		
		stem discharge sewage to the bund surface.	☐ Yes	⊠ No	☒ Searched for surface outlet☒ Searched for seeping in yard/backup in home		
		stem discharge sewage to drain tile	☐ Yes	⊠ No			
		surface waters.			☐ Homeowner testimony (See Comments/Explanation)☐ "Black soil" above soil dispersal system		
		stem cause sewage backup into velling or establishment.	☐ Yes	⊠ No	System requires "emergency" pumpingPerformed dye test		
	Any "yes" answer above indicates an Imminent Threat to Public Heal				☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
		omments/Explanation:					
		should be noted that last two drainfield ese trenches to prevent surfacing and/			mal or no soil cover. I recommend placing additional soil over		
2.	Τā	ank Integrity – Compliance com	nponent	#2 of 5			
	C	ompliance criteria:			Verification method(s):		
		stem consists of a seepage pit,	☐ Yes	⊠ No	□ Probed tank(s) bottom □		
		sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be			Examined construction recordsExamined Tank Integrity Form (Attach)		
		mpliant if allowed in local ordinance.			Observed liquid level below operating depth		
		wage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	Examined empty (pumped) tanks(s)		
		ves, which sewage tank(s) leaks:			☐ Probed outside tank(s) for "black soil"☐ Unable to verify (See Comments/Explanation)		
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.			☐ Onable to Verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
	Сс	omments/Explanation:					
	Lowered underwater camera into tanks - baffles and tank walls OK.						
3.	Ot	ther Compliance Conditions	i – Comr	oliance co	omponent #3 of 5		
	a.	Maintenance hole covers are damaged	d, cracked	l, unsecure	ed, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown *System is an imminent threat to public health and safety						
		Explain:					
	C.	System is non-protective of ground wa	ter for oth	er conditior	ns as determined by inspector ☐ Yes* ☒ No		
		*System is failing to protect ground					
		Explain:					

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Property address: 6790 Omar Ave S, Denmark Twp, MN 55033

Inspector initials/Date: 09/27/2017

Data of installation: 2002	—		Made and a second second			
Date of installation: 2003 Shoreland/Wellhead protection/Food Beverage	Unkr		Verification method(s):			
Lodging?	☐ Yes	⊠ No	Soil observation does not expire. F observations by two independent p			
Compliance criteria:			unless site conditions have been a	unless site conditions have been altered or local		
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) ☐ Two previous verifications (Atta ☐ Not applicable (Holding tank(s), r	nch boring logs)		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			☐ Unable to verify (See Comments/Explanation) ☐ Other (See Comments/Explanation)			
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	⊠ Yes	□ No	Comments/Explanation: Reviewed design and permit record	ds.		
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	See Attached		
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/bedrock C. System separation			
			D. Required compliance separation*			
Any "no" answer above indicates to Failing to Protect Groundwater. . Operating Permit and Nitrogen B.			*May be reduced up to 15 percent Ordinance. c component #5 of 5 Not app	·		
Is the system operated under an Operating Per		-	No If "yes", A below is required	nicable		
Is the system required to employ a Nitrogen BM			No If "yes", B below is required			
BMP=Best Management Practice(s) specifi						
If the answer to both questions is "no",		-				
•	ino occ	tion does	not need to be completed.			
Compliance criteria						
 a. Operating Permit number: Have the Operating Permit requirements been met? b. Is the required nitrogen BMP in place and properly functioning 			☐ Yes ☐ No			
			? ☐ Yes ☐ No			

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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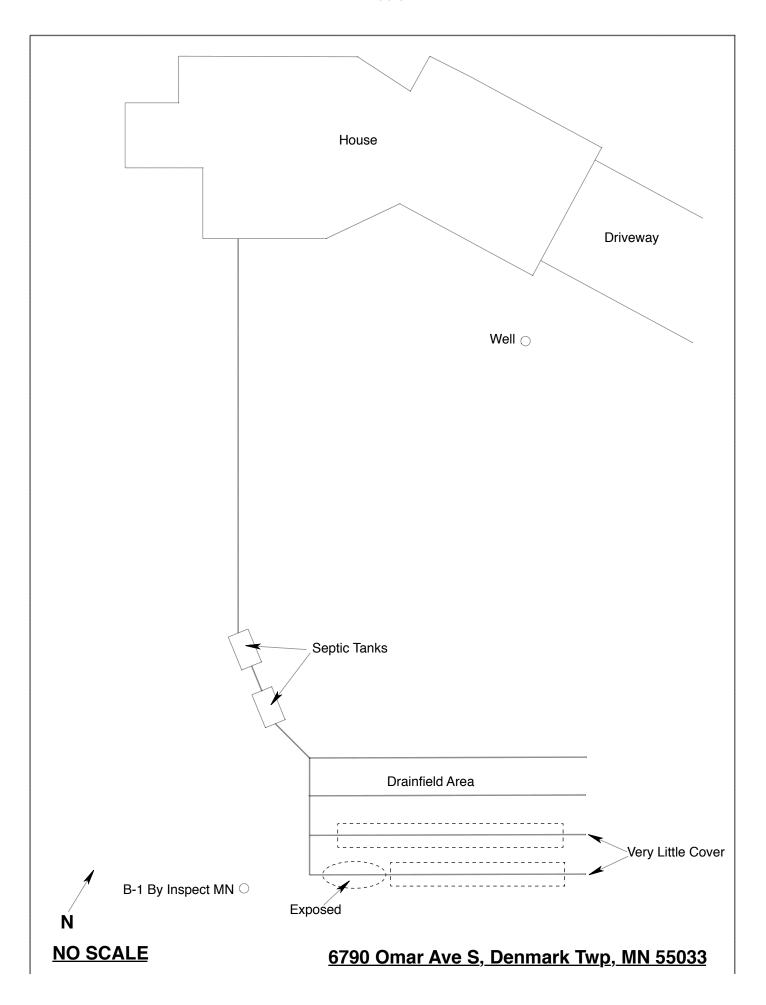
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: September 27, 2017	Time: 2:30 PM					
Property Address: 6790 Omar Ave S, Denmark Twp, MN	Zip: 55033					
Property Owner: Jon & Mary Stevenson	Phone: 612-385-2843					
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 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.						
1	Γank size (gals.): 2-1000					
How long has seller owned the property? 2003 Number of re-	sidents in home? 2-3					
Number of bedrooms? 3 Are all floors drained by gr	ž					
Garbage disposal? N Whirlpool bath?	Y					
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-buildings connected to this system? N						
Are there any additional systems on this property serving other buildings? N						
Location of septic system on lot? South 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? N If yes, explain:						
to the system: 14 II yes, explain.						
When was the system last pumped? 09/27/2017 Name of pumper: Pinky's Sewer Service						
How often pumped in previous years? Every 2						
Have you received notices from any government agency concerning this system? N						
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: Mary Stevenson's Signature On File Date: 09/27/2017



Log Of Soil Borings

Location of Project: 6790 Omar Ave S, Denmark Twp, MN 55033						
Borings Made By: Inspect Minnesota				Date:	9/27/17	
Auger Used: Hand/Bucket			Classi	ification System:	USDA	
Boring Number: 1			Boring Number:			
Surface Elevation of Boring Same ground surface as last drainfield trench		Surface Elevation Boring				
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered		
0-23 23-46 46-58 58-64	10YR 3/4 10YR 4 10YR 4/4	/2 Silt Loam Medium Sand /4 Silt Loam Silt Loam With 5/8 Redox				
58"	Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox	
Same	Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System	
-22" Depth To Bottom Of Distribution Media				of Distribution Media		
=36" Of Separation			Of Separation			
	End Of Paring At-	64"		End Of Paring At-		
	End Of Boring At: Redox Present At:	58"		End Of Boring At: Redox Present At:		
			Water Present At:			
Standing Water Present At: None		Standing	water Freschi At.			

Bottom Of Distribution Medium At: 22 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

Non-transferable

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