Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Inspection Address:11379 Neal Ave N Stillwater Twp, MN Site Conditions:0" Snow 12" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1980) consists of a pre-cast septic tank, a pre-cast lift tank (leaking), and a rock trench drainfield.

The lift tank appears to have a crack and has a liquid level below the operational range of the lift pump. Leaking tanks are considered to be cesspools by the MPCA.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because the leaking lift tank and the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils. Washington County issued sewage treatment permit #2512 for the installation of this septic system.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact Washington County Environmental Specialist, Mr. Chris LeClair (651-430-4052), to <u>verify</u> the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

Brian Humpal



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): _2/14/2017	
	npliant – Notice of Noncompliance trade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent threat to Tank Integrity (Compliance Component #2) – Failing to protect groundward Other Compliance Conditions (Compliance Component #3) – Failing to protect	reat to public health and safety ter
⊠ Soil Separation (Compliance Component #4) – Failing to protect groundw	_
☐ Operating permit/monitoring plan requirements (Compliance Component	
Property Information Parcel ID# or Sec/Twp/Range Property address: 11379 Neal Ave N, Stillwater Twp, MN 55082 Reason for Property owner: Rob & Shari Clifford Owner's or	or inspection: Property Sale
· · · · · · · · · · · · · · · · · · ·	ntative phone: 612-819-3518
	ry authority phone: 651-430-4052
Brief system description: A pre-cast septic tank, a pre-cast lift tank, (leaking) and a	rock trench drainfield.
Comments or recommendations: The lift tank appears to have a crack and has a liquid level below the operational range considered to be cesspools by the MPCA.	e of the lift pump. Leaking tanks are
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 Certificat	ion number: L5342
	nse number: _L2896
Inspector signature: Brian Humpal Pho	one number: 651-492-7550
Necessary or Locally Required Attachments	
	local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic	

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: 11379 Neal Ave N, Stillwater Twp, MN 55082

Inspector initials/Date: 2/14/2017

1.	Impact on Public Health – Compliance component #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) 			
	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 an Imminent Threat to Public Heal		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:					
	None of the above found.					
2.	Tank Integrity — Compliance com	nponent #2 of 5				
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit,	⊠ Yes □ No	□ Probed tank(s) bottom			
	cesspool, drywell, or leaching pit.					
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)			
	Sewage tank(s) leak below their	☐ Yes ☐ No	☐ Observed liquid level below operating depth☐ Examined empty (pumped) tanks(s)			
	designed operating depth.		Probed outside tank(s) for "black soil"			
	If yes, which sewage tank(s) leaks:	Lift Tank	☐ Unable to verify (See Comments/Explanation)			
	Any "yes" answer above indica system is Failing to Protect Gre		☐ Other methods not listed (See Comments/Explanation)			
2	considered to be cesspools by the MPCA	I has a liquid level below the A.	operational range of the lift pump. Leaking tanks are			
3.	Other Compliance Conditions					
	a. Maintenance hole covers are damaged		•			
	 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 *System is failing to protect ground		ermined by inspector ☐ Yes* ☒ No			
	Explain:					

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Property address: 11379 Neal Ave N, Stillwater Twp, MN 55082

Inspector initials/Date: 2/14/2017

Date of installation: 1980	☐ Unkr	nown	V	erification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No	S	oil observation does not expire. Proservations by two independent pa	
Compliance criteria:			uı	nless site conditions have been al	
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	_		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.					
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	C	omments/Explanation:	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	☐ Yes	□No	In	dicate 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)			<u>A.</u>	Bottom of distribution media	See Attached Boring Log(s)
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			-	Periodically saturated soil/bedrock System separation	
Any "no" answer above indicates t	ho syst	om ic	D. Required compliance separation*		
			*May be reduced up to 15 percent if allowed by Local Ordinance.		
			-		
Operating Permit and Nitrogen B	MP* – C	complianc	e com	ponent #5 of 5 🔀 Not app	licable
Is the system operated under an Operating Per	mit?	☐ Yes	⊠ No	If "yes", A below is required	
Is the system required to employ a Nitrogen BM	IP?	☐ Yes	⊠ No	If "yes", B below is required	
BMP=Best Management Practice(s) specific	ied in the	system de	sign		
If the answer to both questions is "no",	this sec	tion does	s not r	need to be completed.	
Compliance criteria					
a Operating Permit number:					
Have the Operating Permit requirements I				☐ Yes ☐ No	
b. Is the required nitrogen BMP in place and properly functioning?					

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.

OFFICE OF THE 20010 ADMINISTRATOR WASHINGTON COUNTY, MINNESOTA

Tel. 439-3220

PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM
Owner Kichard Drobinski Permit No. 25/
1/379 Neal Ame N STILLWATER TWO.
MINIMUM SYSTEM REQUIRED:
Septic Tank 1200 (1500 Nec.) Gal. Liquid Capacity Lift Station 1000 G
Distribution Box DR Drop Box Congrete with Removable
Absorption Trench – Square Feet 1064 Lineal Feet 3.55 Width 36"
Depth of Rock Below Tile Lines Inches, Above Tile Inches
Depth of Trench — Minimum CoverInches, Maximum Cover Inches
Minimum Number of Lines Maximum Length of Individual Line Ft.
Recommended Number of Lines
Minimum Spacing of Lines Ft. Center to Center.
Inspection of Installation Must Be Accomplished By This Office Before Any Portion of System Is Covered.
Special Conditions
SUSTAND go in Area Tested and Shown on attach
Site Dlan. Line from House TO TANK TO BE CAST I
Life Station to Dumn son eal per Cucle, 1500 gu
TANK regular for HOT 7 WHO 16 INSTALLED
System Inspected
Installation Approved (1995) (INSPECTOR
Comments
그 사진하면 아니는 이 가는 것 같습니다. 그렇게 되는 사람들은 이 물을 받는 것 같습니다.
PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application, to the specifications shown under minimum system required. This permit is granted upon express condition that the person to whom it
granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. Th permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced with
(6) months. Installer must hold current Septic Installer License with Washington County.
Approved: (ZONING ADMINISTRATOR) (DATE)
(DATE)

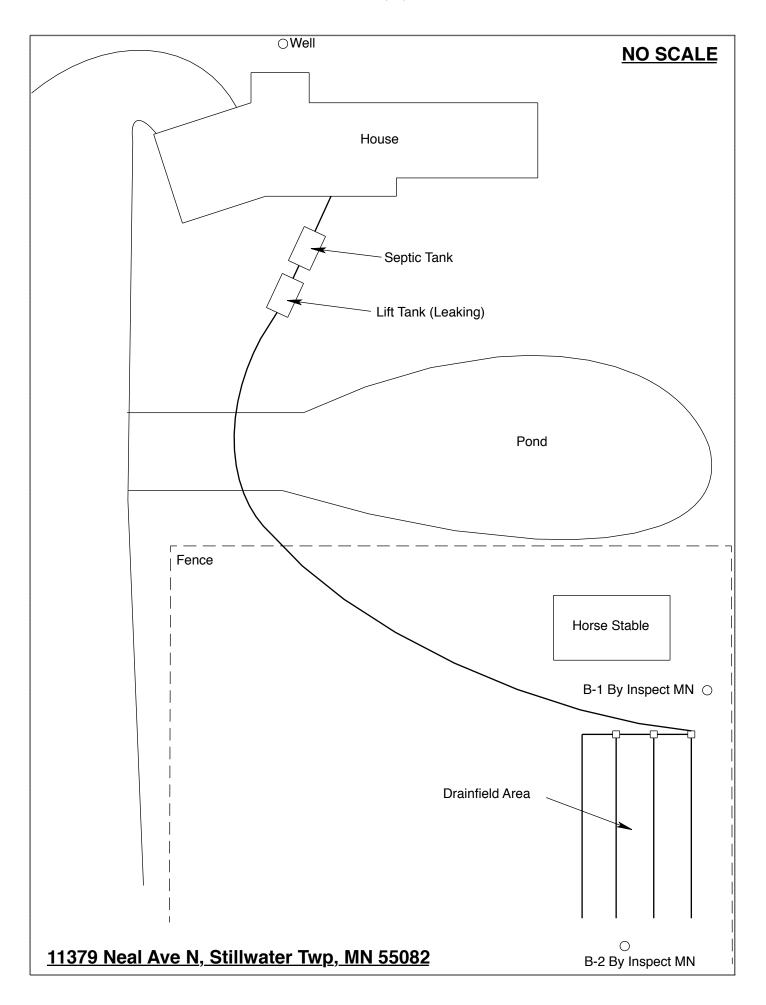
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

This information will be used for the purpose of conducting all ivit ex	Compliance inspection.					
Date of Inspection: February 14, 2017	Time: 9:15 AM					
Property Address: 11379 Neal Ave N, Stillwater Twp, MN	Zip: 55082					
Property Owner: Rob & Shari Clifford	Phone:					
Tank(s) Tank(s)Material Soil Treatment System Septic 1 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.): 1500					
	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? Tanks - West Side, Drainfield - Northwest Corner of Pasture						
Location of water well on lot? East 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.; or have any repairs been made to the system? If yes, explain:						
When was the system last pumped? 2014 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? Y						
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						

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



Log Of Soil Borings

Location of Project: 11379 Neal Ave N, Stillwater Twp, MN 55082						
Borings Made By: Inspect Minnesota				Date:	2/14/17	
	Auger Used: Hand/Bucket		Class	sification System:	USDA	
В	Boring Number:	1		Boring Number:	2	
Surface Same ground sur		ind surface as last nfield trench	Boring drai		nd surface as last field trench	
Depth In Inches	Depth In Soils Encountered		Depth In Inches	Soils Encountered		
0-12 12-23 23-40 40-45	10YR 3/4 S 10YR 7/1 & 10YR 6 10YR 7/1, 5YR 4, 10YR 3/4 S	2/2 Loam andy Loam With 7.5YR 5/8 Redox 5/2 Silt With /6, & 7.5YR 5/8 Redox andy Loam With 5/8 Redox	0-6 6-27 27-31 31-47	hes 10YR 2/2 Loam 10YR 4/3 Sandy Loam With Trace Of Gravel 7.5YR 4/4 Sandy Loam		
23" Depth To End Of Boring Or Redox		31"	Depth To End Of Boring Or Redox			
Same Elevation Of Boring Relative To System		Same Elevation Of Boring Relative To System		Relative To System		
-37" Depth To Bottom Of Distribution Media =0" Of Separation		-37" Depth To Bottom Of Distribution Media =0" Of Separation				
Е	nd Of Boring At:	45"		End Of Boring At:	47"	
	edox Present At:	23"		Redox Present At:	31"	
Standing Water Present At: None			Standing	Water Present At:	None	

Bottom Of Distribution Medium At: 37 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