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Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lake, MN 55110		Brian Humpal		
651-492-7550/Brian@Midwestsoiltesting.com		MPCA Licensed Advanced Inspector		
SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT				
Date: November 14, 2017Time: 12:45 PMOwner: Mary Marty				
Inspection Address: 12407 80th St 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 Marty. This very old system has a tank from the main house connected to a rock trench drainfield, that in addition has two tanks from a "lounge/barn" and a second house that connect to the same rock trench drainfield.

It should be noted that this system may be undersized for the number of bedrooms and flow from the "lounge/barn."

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(E) because of the lack of the required two foot separation between the bottom of the drainfield and bedrock/seasonally saturated soils.

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 verify the County's position.

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

Brian Humpal Brian Humpal

System status on date (mm/dd/yyyy): 11/14/2017 Compliant – Certificate of Compliance 🖄 Noncompliant – Notice of Noncompliance (See Upgrade Requirements on page 3)

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

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 threat to public health and safety

Tank Integrity (Compliance Component #2) – Failing to protect groundwater

Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater

Soil Separation (Compliance Component #4) – Failing to protect groundwater

Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range:

Property address: 12407	80 th St S, Denmark Twp, MN 55033	Reason for inspection: Property Transfer	
Property owner: Mary Ma	arty	Owner's phone: _ 651-459-9875	
or			
Owner's representative:		Representative phone:	
Local regulatory authority:	Washington County	Regulatory authority phone: 651-430-4052	
Brief system description:	See Comments		
-			

Comments or recommendations:

This system has a tank from the main house connected to a rock trench drainfield, that in addition has two tanks from a "lounge/barn" and a second house that connect to the same rock trench drainfield. This system may be undersized for the number of bedrooms and flow from the "lounge/barn."

Certification

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 Humpal	Certification number:	L5342
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signature	Brian Humpal	Phone number:	651-492-7550

Necessary or Locally Required Attachments

Soil boring logs System/As-built drawing Forms per local ordinance Other information (list): Report Summary, Property Information, Disclaimer, License

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems

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(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	



520 Lafayette Road North St. Paul, MN 55155-4194

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1. Impact on Public Health – Compliance component #1 of 5

🗌 Yes 🖾 No			
🗌 Yes 🖾 No			
System cause sewage backup into ☐ Yes ⊠ No dwelling or establishment.			

Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.

Verification method(s):

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

Comments/Explanation:

This system may be undersized for the number of bedrooms and flow from the "lounge/barn."

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:

Lowered underwater camera into tanks - 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	d, cracked, unsecured,	, or appear to structurally unso	und. 🛛 Yes*	🖾 No	🗌 Unknown

b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. *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 \Box Yes* \boxtimes No *System is failing to protect groundwater

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1985?	Unknown	Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Pre observations by two independent par			
Compliance criteria:	1	unless site conditions have been alte			
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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	□ Yes 🖾 No	 requirements differ. Conducted soil observation(s) (Attach boring log Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) 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:			
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		B. Periodically saturated soil/bedrock			
separation distance from periodically saturated soil or bedrock.		C. System separation			
		D. Required compliance separation*			
Any "no" answer above indicates t Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Local		
		Ordinance.			
Operating Permit and Nitrogen B	MP* – Compliance	e component #5 of 5 🛛 🛛 Not appli	cable		
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 BMP? Yes No If "yes", B below is required					
BMP=Best Management Practice(s) specif	ïed in the system des	sign			
If the answer to both questions is "no",	this section does	s not need to be completed.			

Compliance criteria

5.

a.	Operating Permit number:	□ Yes □ No
	Have the Operating Permit requirements been met?	
b.	Is the required nitrogen BMP in place and properly functioning?	🗌 Yes 🗌 No

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.*

<u>Inspect Minnesota & Midwest Soil Testing</u>

Subsurface Sewage Treatment System Owner/Property Information

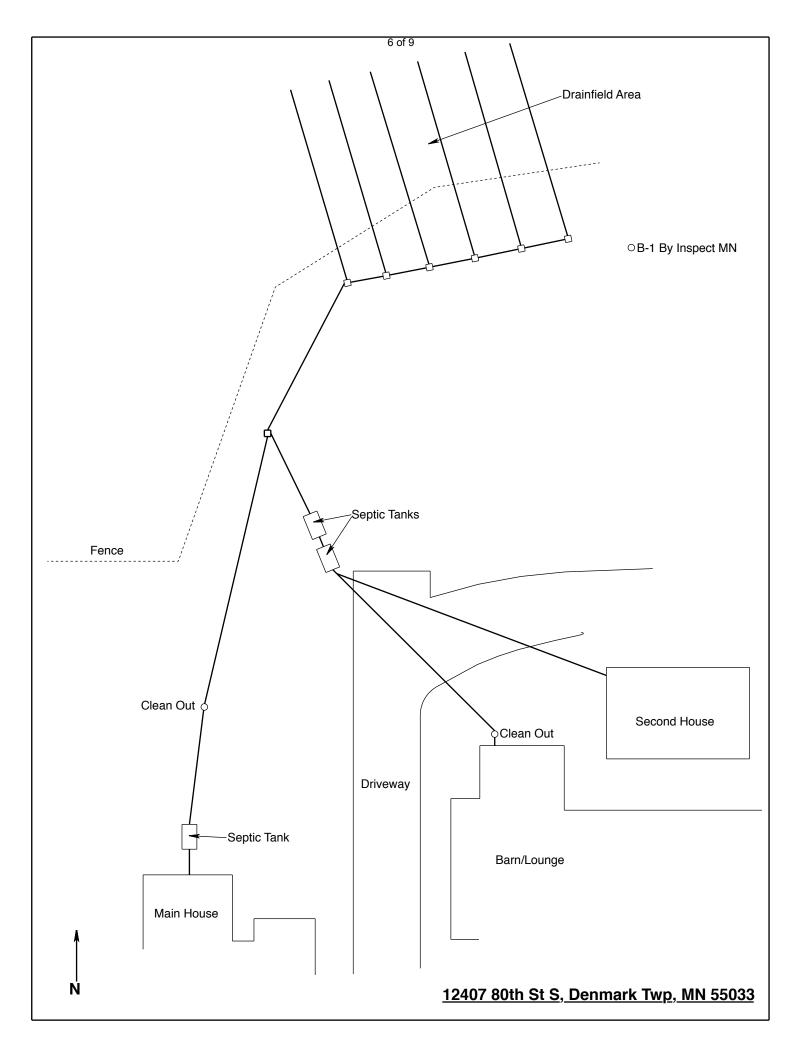
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: November 14, 2017	Time: 12:45 PM				
Property Address: 12407 80th St S, Denmark Twp, M	N Zip: 55033				
	Phone: 651-459-9875				
Property Owner: Mary Marty Tank(s) Tank(s)Material Soil Treatmed Septic 3 Fiberglass Rock tren Aerobic Plastic Gravelles Lift Metal Chamber Holding Concrete Seepage b Other: Block Mound Other At-grade Are the tank maintenance covers accessible? Yes performed through the maintenance holes. Maintenance the ground surface to facilitate access and proper mainter	Other ch Alternative system ch Alternative system strench Experimental system trench Cesspool system oed Other system No *If no, proper maintenance must be e hole covers should be made accessible to				
Year house built: 1957 & 2004 Year septic installed:	1985? Tank size (gals.): 3-1000				
How long has seller owned the property? 1992 Nu					
	ained by gravity? Y/Y				
Garbage disposal? N/N Whirl	pool bath? Y/N				
More than one system (laundry, etc.)? N Does this property have any footing drain tiles connected					
	Are any buildings on this property such as garages or out-buildings connected to this system? This system has two houses and a "lounge/barn" connected to the system.				
houses and a "lounge/barn" connected to the system.					
Location of septic system on lot? North Side					
Location of water well on lot?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? N If yes, explain:					
	me of pumper: Meyer's Sewer Service				
How often pumped in previous years? Every 2 Is system on a monitoring plan? N					
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 Marty's Signature On File

Date: 11/14/2017



Log Of Soil Borings

Borings Made By: Inspect Minnesota Date: 11/14/17 Classification System: USDA Surface Elevation of Boring Same ground surface as last drainfield trench Surface Elevation of Boring Surface Elevation of Boring Surface Boring 0-22 1017 Silt Loam Depth In Inches Soils Encountered Depth In Inches Soils Encountered 0-22 1017 S/4 Medium Sand A.S.Y.R 6/4 Fine Sand (Unconsolidated Bedrock) With 7.5YR 6/4 Fine Sand (Unconsolidated Bedrock) With 7.5YR 7/8 Redox Soils Encountered Soils Encountered 48" Depth To End Of Boring Or Bedrock/Redox Depth To End Of Boring Or Redox Depth To End Of Boring Or Redox 3ame Elevation Of Boring Relative To System Elevation Of Boring Relative To System Depth To Bottom Of Distribution Media of O Separation Depth To Bottom Of Distribution Media 0 Of Separation -49" Depth To Bottom Of Distribution Media a of O Of Separation Depth To Bottom Of Distribution Media 0 Of Separation Depth To Bottom Of Distribution Media 0 Of Separation		Location of Project: 12407 80th St S, Denmark Twp, MN 55033				
Auger Used: Hand/Bucket Classification System: USDA Boring Number: 1 Boring Number: Soriag Surface Elevation of Boring Same ground surface as last drainfield trench Surface Boring Surface Elevation of Boring Surface Boring Depth In Inches Soils Encountered Depth In Inches Soils Encountered Depth In Inches Soils Encountered 0-22 10YR Silt Loam 22-43 10YR 5/4 Medium Sand Soils Encountered Soils Encountered 43-48 10YR 5/4 Medium Sand 2.SYR 6/4 Fine Sand Soils Encountered Soils Encountered (Unconsolidated Bedrock) With 7.5YR 7/8 Redox With 7.5YR 7/8 Redox Depth To End Of Boring Or Redox 48" Depth To End Of Boring Or Bedrock/Redox Depth To End Of Boring Or Redox 48" Depth To End Of Boring Relative To System Elevation Of Boring Relative To System -49" Depth To Bottom Of Distribution Media =0" Depth To Bottom Of Distribution Media =0" -0'' Separation Of Separation Of Separation						11/14/17
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Bedrock/Redox Present At: 48" Redox Present At:		End Of Boring At.	64"		End Of Boring At	
			-		_	
Standing Water Present At: None Standing Water Present At:			_			

Bottom Of Distribution Medium At: 49 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 # 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 Installer, Maintainer, Serv Prov,	10/15/2017 Adv Designer, Adv Inspector
C9852	Christopher R Uebe Designer, Inspector	3/4/2018



Minnesota Pollution Control Agency

520 Lafayette Road North St. Paul, Minnesota 55155-4194

Steven Giddings, Manager Prevention and Solid Waste Management Section