Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear	Brian Humpal				
651-492-7550/Brian@Midw	MPCA Licensed Advanced Inspector				
SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT					
Date: October 23, 2017Time: 8:45 AMOwner: Barry Nelson					
Inspection Address: 5550 Neal Ave S, Afton, MN 55001					

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 chamber trench drainfield. There is a cesspool serving another part of the house. Additional cesspool(s) may exist beyond the cesspool. This house is presently vacant.

It should be noted that all of the trenches are full of soil. Repair of the trenches are required or the system could become an imminent threat to public health and safety.

Although not a compliance criteria, it should be noted that the caps on the inspection ports for the tanks are missing and should be replaced.

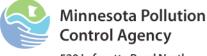
My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B) because of cesspool. Washington County issued sewage treatment permit #010003021 for the installation of this septic system.

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 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

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520 Lafayette Road North 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.

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>10/23/2017</u>

Compliant – Certificate of Compliance

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

Noncompliant – Notice of Noncompliance

For local tracking purposes:

(See Upgrade 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 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:	5550 Neal Ave S, Afton, MN 55001	Reason for inspection: Property Transfer
Property owner:	Barry Nelson	Owner's phone: 651-276-8145
or		
Owner's representation	ative:	Representative phone:
Local regulatory au	thority: Washington County	Regulatory authority phone: _651-430-4052
Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, a greater tanks a pre-cast lift tank a greater tanks a greater tanks a pre-cast lift tank a greater tanks a pre-cast lift tank a greater tanks a pre-cast lift tank a greater tanks a greater tanks a pre-cast lift tank a greater tanks a pre-cast lift tank a greater tanks a		lift tank, a chamber trench drainfield.

Comments or recommendations:

There is a cesspool serving another part of the house. Additional cesspool(s) may exist beyond the cesspool. It should be noted that all of the trenches are full of soil. Repair of the trenches are required or the system could become an imminent threat to public health and safety. Although not a compliance criteria, it should be noted that the caps on the inspection ports for the tanks are missing and should be replaced.

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	e: 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

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 the system is an Imminent Threat to Public Health and Safety.		 Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)

Comments/Explanation:

It should be noted that all of the trenches are full of soil. Repair of the trenches are required or the system could become an imminent threat to public health and safety.

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.

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)

Comments/Explanation:

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

Lowered underwater camera into second system - walls of block constuction.

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

a.	Maintenance hole covers are damage	ed, cracked, unsecured,	or appear to structurally	unsound. 🛛 Yes*	🛛 No	Unknowr

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 \Box Yes* \boxtimes No *System is failing to protect groundwater

Explain:

_____ Inspector initials/Date: __10/23/2017

4. Soil Separation – Compliance component #4 of 5

Date of installation: 2004	Unknown	Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Previous soil			
Compliance criteria:		observations by two independent parties are sufficient, 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: 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 logs) 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 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 allowed by Local Ordinance.			
Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable					
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	1P? 🗌 Yes	⊠ No If "yes", B below is required			
BMP=Best Management Practice(s) specif	ied in the system d	esign			
If the answer to both questions is "no", this section does not need to be completed.					
Compliance criteria					

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

Any "no" answer indicates Noncompliance.

5.

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.*

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Inspect Minnesota & Midwest Soil Testing

Subsurface Sewage Treatment System Owner/Property Information

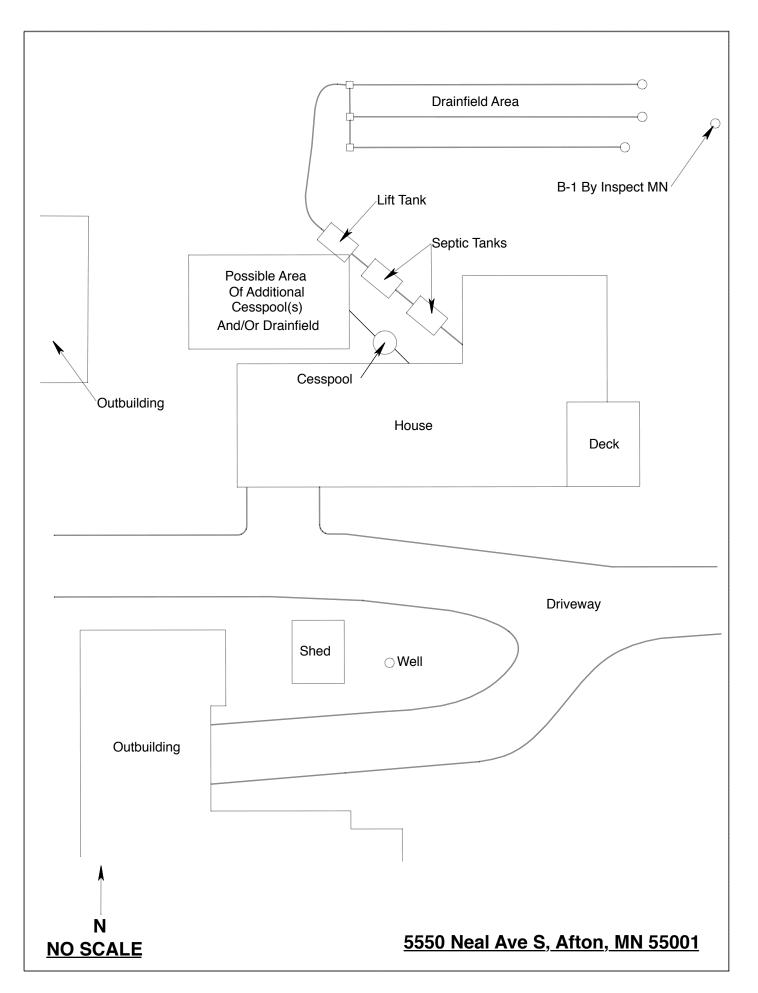
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Data of Immediane October 22, 2017	Times 8:45 AM		
Date of Inspection: October 23, 2017	Time: 8:45 AM		
Property Address: 5550 Neal Ave S, Afton, MN	Zip: 55001		
Property Owner: Barry Nelson	Phone: 651-276-8145		
Septic 2 Fiberglass Ro Aerobic Plastic Gr ZLift Metal Ch Holding Concrete See Other: Block Model	reatment System Other ck trench Alternative system avelless trench Experimental system amber trench Cesspool system 1 or more epage bed Other system und grade		
Are the tank maintenance covers accessible? \boxtimes Y performed through the maintenance holes. Maintenance holes and proper the ground surface to facilitate access and proper to be a surface to facilitate access and proper to be a surface to facilitate access and proper to be a surface to facilitate access and proper to be a surface to facilitate access and proper to be a surface to facilitate access and proper to be a surface to facilitate access and proper to be a surface to	enance hole covers should be made accessible to		
Year house built: 1870 Year septic installe			
How long has seller owned the property?	Number of residents in home?		
	ors drained by gravity? Y		
	Whirlpool bath?		
More than one system (laundry, etc.)? Does this property have any footing drain tiles con			
Are any buildings on this property such as garages or out-buildings connected to this system? Unknown Are there any additional systems on this property serving other buildings? Unknown			
Location of septic system on lot? North Side			
Location of water well on lot? South 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? 2010	Name of pumper:		
How often pumped in previous years?	Is system on a monitoring plan?		
Have you received notices from any government a	agency concerning this system?		
Is your property located in a shoreland manageme			
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:

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Log Of Soil Borings

Location of Project: 5550 Neal Ave S, Afton, MN 55001							
Borings Made By: Inspect Minnesota			011, 111, 550	Date:	10/23/17		
		Hand/Bucket	Classi	fication System:	USDA		
Boring Number: 1		Boring Number:					
Surface Same ground		und surface as last nfield trench	Surface Elevation of Boring				
Depth In Inches	Soils Encountered		Depth In Inches	<u>Soils En</u>	Soils Encountered		
48-60 60-78 10	10YR 4 0YR 3/4 Loamy ≈15% Ro 10YR 4/4 L 0YR 3/4 Loamy ≈15% Ro	/2 Silt Loam /3 Silt Loam Fine Sand With Gravel ock Fragments oamy Fine Sand Fine Sand With Gravel ock Fragments					
78" De	epth To End Of Boring Or Redox]	Depth To End Of Bo	oring Or Redox		
Same Ele	evation Of Boring Relative To System		E	Elevation Of Boring	Relative To System		
-39" Depth To Bottom Of Distribution Media ≥39" Of Separation				Depth To Bottom O Df Separation	f Distribution Media		
End Of Boring At: 78"				End Of Boring At:			
Redox Present At: None				Redox Present At:			
Standing Water Present At: None				Water Present At:			

Bottom Of Distribution Medium At: 39 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 <u>Non-transferable</u> 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 Inspect		
C9852	Christopher R Uebe	3/4/2018	
C9052	Designer, Inspector	5/4/2016	



Minnesota Pollution Control Agency

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

Steven Giddings, Manager Prevention and Solid Waste Management Section