
Inspect Minnesota & Midwest Soil Testing

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Brian Humpal
MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Date: May 2, 2018

Time: 11:45 AM

Owner: Estate

Inspection Address: 9411 Newgate Ave N, Stillwater Twp, MN 55082

REPORT SUMMARY

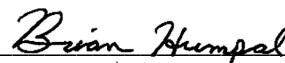
I have performed an “MPCA Compliance Inspection” on this system and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1974/1982) consists of a pre-cast lift tank and a rock trench drainfield. I was unable to locate the original septic tank from 1974; it is possible that this tank may be cesspool. This house is presently vacant.

It should be noted that the lift pump is not equipped with an alarm.

My inspection indicates that this system is presently “non-compliant” and is an imminent threat to public health and safety in accordance with MPCA rule 7080.1500 Subp. 4(A) (E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils, the broken manhole on the lift tank, and a possible cesspool.

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 the Washington County Department of Public Health & Environment (651-430-6655) 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



Minnesota Pollution Control Agency
 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.

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): 5/22/2018

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) – *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: 9411 Newgate Ave N, Stillwater Twp, MN 55082 Reason for inspection: Property Transfer

Property owner: Estate Owner's phone: _____

or
 Owner's representative: Kirk Barlass - Trustee Representative phone: 251-895-9981

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6655

Brief system description: This very old system (installed in 1974/1982) consists of a pre-cast lift tank and a rock trench drainfield. I was unable to locate the original septic tank from 1974, it is possible that this tank may be cesspool.

Comments or recommendations: _____

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

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

System discharge sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharge sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System cause sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Comments/Explanation:
None of the above found.

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*)

2. Tank Integrity – Compliance component #2 of 5**Compliance criteria:**

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:
It should be noted that the lift pump is not equipped with an alarm.
The manhole on the lift tank is broken.

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, cracked, unsecured, 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 water for other conditions as determined by inspector Yes* No
***System is failing to protect groundwater**

Explain:

Property address: 9411 Newgate Ave N, Stillwater Twp, MN 55082

Inspector initials/Date: 5/22/2018 BA

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1974/1982 Unknown

Shoreland/Wellhead protection/Food Beverage Lodging? Yes No

Compliance criteria:

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

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 or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required) Yes No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Any “no” answer above indicates the system is Failing to Protect Groundwater.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local 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)

Comments/Explanation:

Indicate depths of elevations

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

*May be reduced up to 15 percent if allowed by Local Ordinance.

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable

Is the system operated under an Operating Permit? 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) specified in the system design

If the answer to both questions is “no”, this section does not need to be completed.

Compliance criteria

- 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, 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.

Inspect Minnesota & ^{5 of 9} Midwest Soil Testing
Subsurface Sewage Treatment System Owner/Property Information

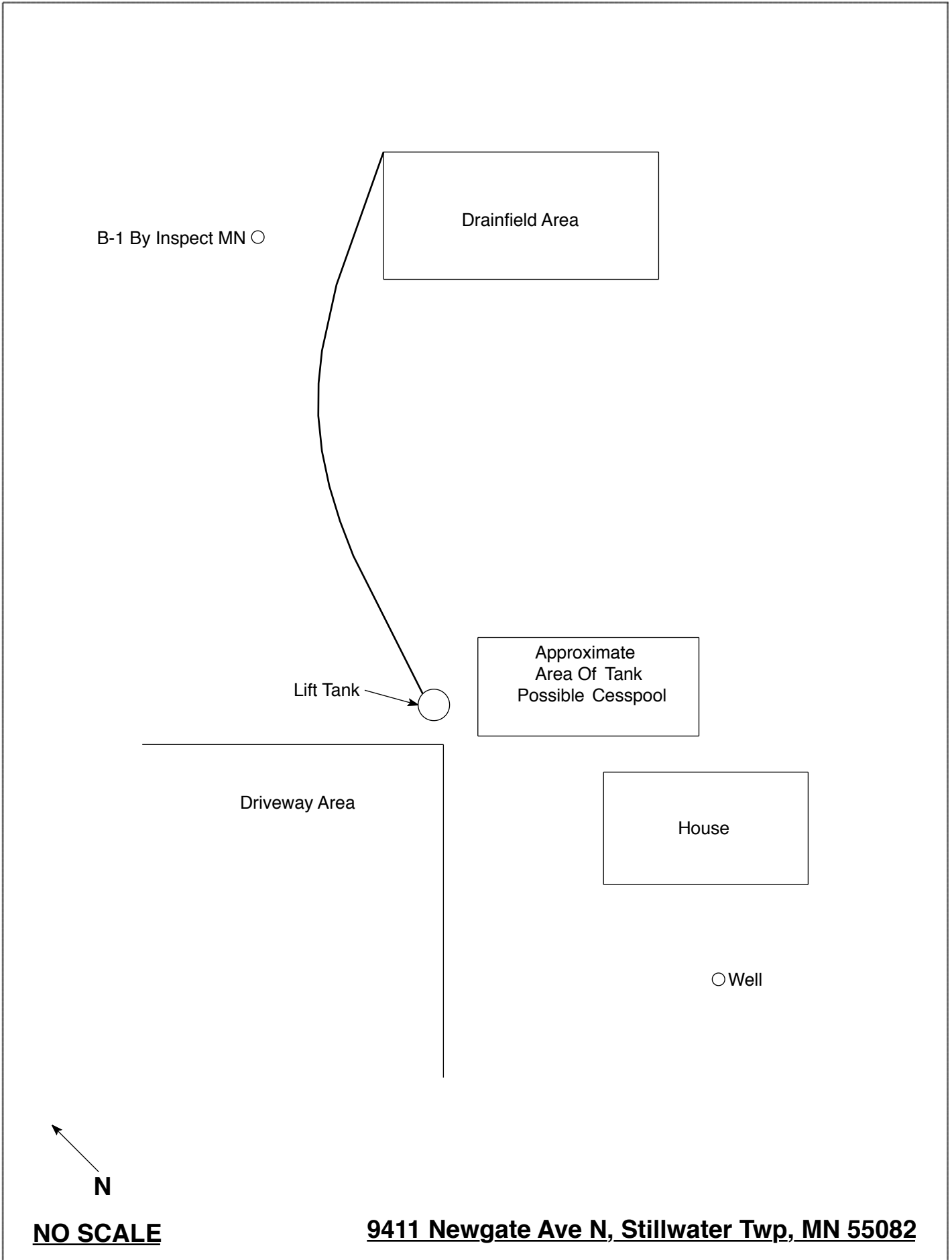
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: May 22, 2018		Time: 11:45 AM	
Property Address: 9411 Newgate Ave N, Stillwater Twp, MN		Zip: 55082	
Property Owner: Estate		Phone:	
<u>Tank(s)</u> <input type="checkbox"/> Septic <input type="checkbox"/> Aerobic <input checked="" type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other:	<u>Tank(s)Material</u> <input type="checkbox"/> Fiberglass <input type="checkbox"/> Plastic <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other _____	<u>Soil Treatment System</u> <input checked="" type="checkbox"/> Rock trench <input type="checkbox"/> Gravelless trench <input type="checkbox"/> Chamber trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade	<u>Other</u> <input type="checkbox"/> Alternative system _____ <input type="checkbox"/> Experimental system _____ <input type="checkbox"/> Cesspool system Possible Cesspool <input type="checkbox"/> Other system _____ _____ _____
Are the tank maintenance covers accessible? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.			
Year house built: 1974	Year septic installed: 1974/1982	Tank size (gals.):	
How long has seller owned the property?		Number of residents in home?	
Number of bedrooms? 3	Are all floors drained by gravity? Y		
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? North Side			
Location of water well on lot? Southwest 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? 2015		Name of pumper: Pinky's Sewer Service	
How often pumped in previous years?		Is system 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: _____



B-1 By Inspect MN ○

Drainfield Area

Lift Tank

Approximate
Area Of Tank
Possible Cesspool

Driveway Area

House

○ Well

N

NO SCALE

9411 Newgate Ave N, Stillwater Twp, MN 55082

Log Of Soil Borings

Location of Project:		9411 Newgate Ave N, Stillwater Twp, MN 55082	
Borings Made By:		Inspect Minnesota	Date: 5/22/18
Auger Used:		Hand/Bucket	Classification System: USDA
Boring Number:		1	Boring Number:
Surface Elevation of Boring	Same ground surface as last drainfield trench		Surface Elevation of Boring
Depth In Inches	<u>Soils Encountered</u>		Depth In Inches
0-12	10YR 2/2 Loam		
12-20	10YR 5/3 Silt Loam With 7.5YR 5/8 Redox		
20-31	10YR 5/4 Medium Sand		
31-45	10YR 4/4 Medium Coarse Sand With Gravel 10% Rock Fragments		
45-53	10YR 4/4 Medium Coarse Sand With Gravel 10% Rock Fragments And 7.5YR 5/8 Redox		
53-61	10YR 5/4 Medium Sand With 7.5YR 5/8 Redox		
12"	Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox
Same	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System
-31"	Depth To Bottom Of Distribution Media		Depth To Bottom Of Distribution Media
=0"	Of Separation		Of Separation
End Of Boring At:	61"	End Of Boring At:	
Redox Present At:	12"	Redox Present At:	
Standing Water Present At:	None	Standing Water Present At:	

Bottom Of Distribution Medium At: 31 Inches

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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:		Time:	
Property Address:		Zip:	
Property Owner:		Phone:	
<u>Tank(s)</u> <input type="checkbox"/> Septic <input type="checkbox"/> Aerobic <input type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other:	<u>Tank(s)Material</u> <input type="checkbox"/> Fiberglass <input type="checkbox"/> Plastic <input type="checkbox"/> Metal <input type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other _____	<u>Soil Treatment System</u> <input type="checkbox"/> Rock trench <input type="checkbox"/> Gravelless trench <input type="checkbox"/> Chamber trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade	<u>Other</u> <input type="checkbox"/> Alternative system _____ <input type="checkbox"/> Experimental system _____ <input type="checkbox"/> Cesspool system _____ <input type="checkbox"/> Other system _____ _____ _____
Are the tank maintenance covers accessible? <input type="checkbox"/> Yes <input type="checkbox"/> 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.			
Year house built:	Year septic installed:	Tank size (gals.):	
How long has seller owned the property?		Number of residents in home?	
Number of bedrooms?	Are all floors drained by gravity?		
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?			
Location of water well on lot?		Is the well a deep well?	
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?		Name of pumper:	
How often pumped in previous years?		Is system on a monitoring plan?	
Have you received notices from any government agency concerning this system?			
Is your property located in a shoreland management area?			
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:			
Borings Made By:		Inspect Minnesota	Date:
Auger Used:		Hand/Bucket	Classification System: USDA
Boring Number:		Boring Number:	
Surface Elevation of Boring		Surface Elevation of Boring	
Depth In Inches	<u>Soils Encountered</u>	Depth In Inches	<u>Soils Encountered</u>
	Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox
	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System
	Depth To Bottom Of System		Depth To Bottom Of System
	Of Separation		Of Separation
	End Of Boring At:		End Of Boring At:
	Redox Present At:		Redox Present At:
	Standing Water Present At:		Standing Water Present At:

Bottom Of Distribution Medium At: _____ Inches