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: 12233 Mayberry Trl N, Scandia, MN Site Conditions: 4" 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 1986) consists of a pre-cast septic tank and a rock trench drainfield.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils. Washington County issued sewage treatment permit #4163 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



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (Morequirements and attached forms – additional local requirements may also apply.	For local tracking purposes:		
Submit completed form to Local Unit of Government (LUG) and system ow within 15 days	/ner		
System Status			
System status on date (mm/dd/yyyy): 2/16/2017			
<u> </u>	oncompliant – Notice of Noncompliance ee Upgrade Requirements on page 3)		
Reason(s) for noncompliance (check all applicable)			
☐ Impact on Public Health (Compliance Component #1) – Imminent to	hreat to public health and safety		
☐ Other Compliance Conditions (Compliance Component #3) – Immir	nent threat to public health and safety		
☐ Tank Integrity (Compliance Component #2) – Failing to protect gro			
Other Compliance Conditions (Compliance Component #3) – Failing			
 Soil Separation (Compliance Component #4) – Failing to protect gr □ Operating permit/monitoring plan requirements (Compliance Component #4) 			
	-		
Property Information Parcel ID# or Sec/Tw	In IDen we		
•	· · · · · · · · · · · · · · · · · · ·		
	Reason for inspection: Property Sale Owner's phone: 651-235-2218		
or	wher s phone. <u>031-233-2210</u>		
Owner's representative:	epresentative phone:		
	egulatory authority phone: 651-430-4052		
Brief system description: A pre-cast septic tank and a rock trench drainfield.			
Comments or recommendations:			
Certification			
I hereby certify that all the necessary information has been gathered to determined determination of future system performance has been nor can be made due to upossible abuse of the system, inadequate maintenance, or future water usage.			
	ertification 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			
	ms per local ordinance		
☐ Other information (list): Report Summary, Property Information, Disclain	ner, License		

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Property address: 12233 Mayberry Trl N, Scandia, MN 55047

Inspector initials/Date: 2/16/2017

1.	lm	npact on Public Health – Cor	npliance	component #1 o	5		
	Co	ompliance criteria:			Verification method(s):		
		rstem 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 surface waters.	☐ Yes	⊠ No	Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Plack soil" shows soil disposal system		
		stem cause sewage backup into velling 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 Healt				☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
		omments/Explanation: one of the above found.					
2.	Ta	ank Integrity — Compliance com	nponent #	#2 of 5			
	Co	ompliance criteria:			Verification method(s):		
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No	☑ Probed tank(s) bottom☑ Examined construction records		
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.			Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
	de	ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	☐ Examined empty (pumped) tanks(s)☐ Probed outside tank(s) for "black soil"		
	If yes, which sewage tank(s) leaks:			☐ Unable to verify (See Comments/Explanation)			
		ny "yes" answer above indica ⁄stem is Failing to Protect Gro			Other methods not listed (See Comments/Explanation)		
3.	Lo	omments/Explanation: wered underwater camera into tanks -			nt #3 of 5		
	a.	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 in *System is an imminent threat to pu	mmediatel	ly and adversely im	•		
		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: 			ermined by inspector ☐ Yes* ☒ No			

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Property address: 12233 Mayberry Trl N, Scandia, MN 55047

Inspector initials/Date: 2/16/2017

4.	Soil Separation — Compliance compor	nent #4 o	of 5				
	Date of installation: 1986	☐ Unkr	nown	٧	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No	S	oil observation does not expire. Pi		
	Compliance criteria:			u	bservations by two independent pa 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	_	equirements differ. Conducted soil observation(s) (a Two previous verifications (Attac Not applicable (Holding tank(s), n	ch boring logs)	
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				Unable to verify (See Comments/ Other (See Comments/Explanation	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	С	omments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes	□No	Ir	ndicate 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 separation distance from periodically saturated soil or bedrock.			C	Periodically saturated soil/bedrock System separation		
	Any "no" answer above indicates the system is				D. Required compliance separation* *May be reduced up to 15 percent if allowed by Local		
	Failing to Protect Groundwater.			_ (Ordinance.		
5.	Operating Permit and Nitrogen B	MP* – C	Complian	ce com	ponent #5 of 5 🔀 Not app	licable	
	Is the system operated under an Operating Per			⊠ 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) specif	ied in the	system de	esign			
	If the answer to both questions is "no",	this sec	tion doe	s not i	need to be completed.		
	Compliance criteria						
	a. Operating Permit number:				□ Ves □ No		
	Have the Operating Permit requirements been met? b. Is the required nitrogen BMP in place and properly functioning?				☐ Yes ☐ No		
				g?	☐ Yes ☐ No		
	Any "no" answer indicates Noncom	pliance.	•				

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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WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 4163

Inspection of Installation Must Be Made By the Building Offical Before Any Portion of System is Covered Contact Planning Department, 779-5444, 24 Hour Notice Required

Owner Large J. Duncan
Property Description PT OF Garthor 2 Sec 20 TRANK 2000 N
Property Address 13033 MAGRICARYTR, N.
Use of Building: Flow Rate: 48.0 /6006 Porcolation Rate: 30 mpi
Septic Tank 1950 Gal. Liquid Capacity Lift Station (if needed) 1050 Gal.
Type of System: STANDARD DEAINFIEND / SEDTITANK
Absorption Trench — Square Feet 1002 Lineal Feet 334 Width 36
Depth of Rock Below Lines 12 Inches, Above Lines Inches
Depth of Trench From Existing Grade — Minimum 26 Inches, Maximum 42 Inches
Recommended Number of Lines 4- (Note: Maximum Length of Individual Line is 100 Feet.)
Minimum Spacing of Lines 7 /2 Ft. Center to Center
Special Conditions System To Gold Area Testes Away 1001 (ATES) On Arracotes SITE PLAN.
PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within six (6) months. INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Date
Approved:
Comments In the Potion 4 lains 84' king 3 wills 3 thop fixe OK
3 from Loxue OK
Installation Approved Al Section Date 11-24-86

<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

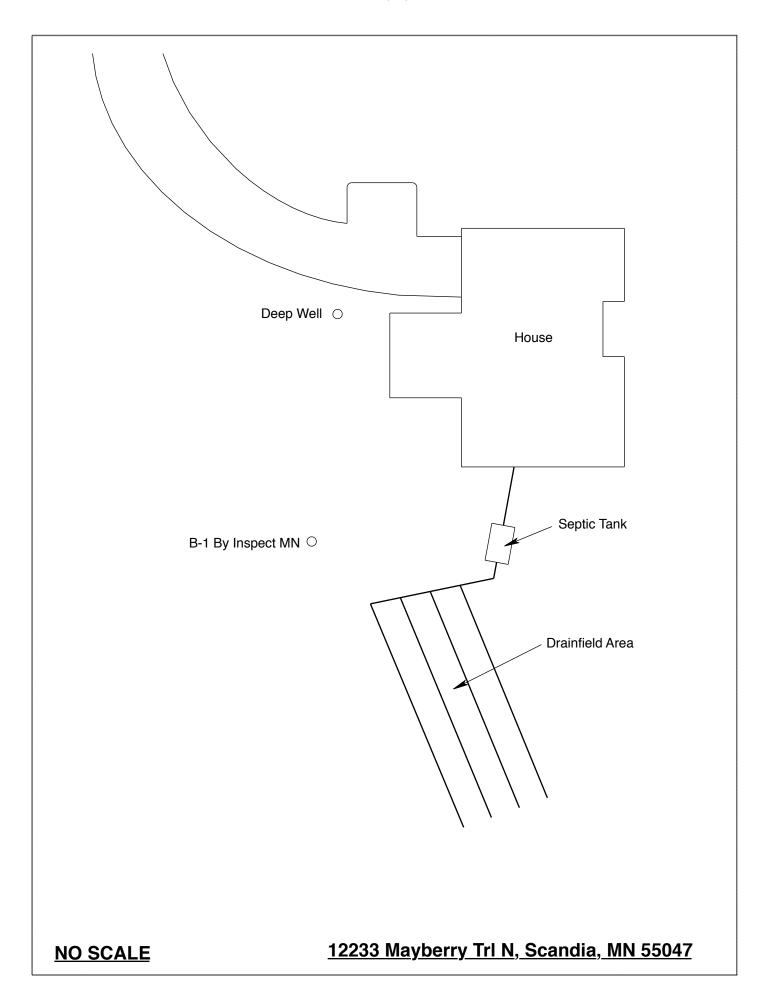
This information will be used for the purpose of conducting all for CA Compitance inspection.				
Date of Inspection: February 16, 2017	Time: 9:00 AM			
Property Address: 12233 Mayberry Trl N, Scandia, MN	Zip: 55047			
Property Owner: Tia Erickson	Phone: 651-235-2218			
Tank(s) Tank(s)Material Soil Treatment System Septic 1 □Fiberglass □Rock trench □Aerobic □Plastic □Gravelless trench □Lift □Metal □Chamber trench □Holding □Concrete □Seepage bed □Other: □Block □Mound □Other □At-grade	Alternative system h			
Are the tank maintenance covers accessible? ☐ Yes ☒ No	• • •			
performed through the maintenance holes. Maintenance hole				
the ground surface to facilitate access and proper maintenance	ee of the system.			
Year house built: 1986 Year septic installed: 1986	Tank size (gals.): 1200			
	of residents in home?			
Number of bedrooms? 4 Are all floors drained				
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 oth	er buildings?			
Are there any additional systems on this property serving oth Location of septic system on lot? Southwest Side	er buildings?			
Location of septic system on lot? Southwest Side	er buildings? Is the well a deep well? Y			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side Have you ever experienced any problems with the system su	Is the well a deep well? Y ch as: tree roots, sewage back-ups,			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side	Is the well a deep well? Y ch as: tree roots, sewage back-ups,			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side Have you ever experienced any problems with the system su surfacing of sewage onto the ground, septic tank overflowing to the system? If yes, explain:	Is the well a deep well? Y ch as: tree roots, sewage back-ups,			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side Have you ever experienced any problems with the system su surfacing of sewage onto the ground, septic tank overflowing to the system? If yes, explain: When was the system last pumped? 2013 Name of	Is the well a deep well? Y ch as: tree roots, sewage back-ups, g, etc.; or have any repairs been made			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side Have you ever experienced any problems with the system su surfacing of sewage onto the ground, septic tank overflowing to the system? If yes, explain: When was the system last pumped? 2013 Name of	Is the well a deep well? Y ch as: tree roots, sewage back-ups, g, etc.; or have any repairs been made f pumper: ystem on a monitoring plan?			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side Have you ever experienced any problems with the system su surfacing of sewage onto the ground, septic tank overflowing to the system? If yes, explain: When was the system last pumped? 2013 Name of How often pumped in previous years? Is s	Is the well a deep well? Y ch as: tree roots, sewage back-ups, g, etc.; or have any repairs been made f pumper: ystem on a monitoring plan?			
Location of septic system on lot? Southwest Side Location of water well on lot? West Side Have you ever experienced any problems with the system su surfacing of sewage onto the ground, septic tank overflowing to the system? If yes, explain: When was the system last pumped? 2013 Name of How often pumped in previous years? Is so Have you received notices from any government agency con	Is the well a deep well? Y ch as: tree roots, sewage back-ups, g, etc.; or have any repairs been made f pumper: ystem on a monitoring plan? cerning this system?			

by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant:

Date:

this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection



Log Of Soil Borings

Borings Made By: Inspect Minnesota	Location of Project: 12233 Mayberry Trl N, Scandia, MN 55047					
Surface Flow Surface Flow Surface						2/16/17
Surface Elevation of Boring Depth In Inches 0-12 10YR 3/3 Fine Sand 10YR 4/3 Clay Loam 10YR 8/68, 7.5YR 5/8, 5YR 5/8, And 10YR 7/1, & 10YR 6/3 Redox 40" Depth To End Of Boring Or Redox Same Elevation Of Boring Relative To System -40" Depth To Bottom Of Distribution Media =0" Of Separation End Of Boring At: Redox Present At: Soils Encountered Soils Encountered Soils Encountered Soils Encountered Depth In Inches Soils Encountered Depth In Inches Soils Encountered Depth To End Of Boring Or Redox Elevation of Boring Or Redox Elevation of Boring Relative To System Depth To End Of Boring Relative To System End Of Boring At: Redox Present At: Soils Encountered Depth To End Of Boring Or Redox Elevation of Boring Or Redox Elevation of Boring At: Redox Present At: Soils Encountered Elevation of Boring Or Redox Elevation of Boring Or Redox Elevation of Boring At: Redox Present At: Soils Encountered Soils Encountered Elevation of Boring Or Redox Elevation of Boring Or Redox Elevation of Boring Relative To System Depth To Bottom Of Distribution Media Redox Present At: End Of Boring At: Redox Present At:						
Elevation of Boring Depth In Inches O-12 10-12 10-12 10-13 323-40 40-65 40" Depth To End Of Boring Or Redox Same Elevation Of Boring Relative To System -40" Depth To Bottom Of Boring Relative To System -40" Depth To Bottom Of Distribution Media =0" Of Separation Elevation of Boring At: Redox Present At: Elevation of Boring Or Redox Soils Encountered Depth In Inches Soils Encountered Soils Encountered Inches Soils Encountered Soils Encountered Soils Encountered Depth In Inches Soils Encountered Soils Encountered Soils Encountered Depth In Inches Soils Encountered Soils Encoun		Boring Number:	1	Boring Number:		
Inches	Elevation Boring	of Same grou	Same ground surface as last			
12-23 23-40 40-65 10YR 4/3 Clay Loam 10YR 7/1, & 10YR 6/3 Redox 40" Depth To End Of Boring Or Redox Same Elevation Of Boring Relative To System -40" Depth To Bottom Of Distribution Media =0" Depth To Boring At: End Of Boring At: Redox Present At: 10YR 7/3 Fine Sand 10YR 4/3 Clay Loam 10YR 4/4 End Of Boring Or Redox 10YR 4/4 End Or Boring Or Redox 10YR 4	Inches			•	Soils Er	ncountered_
Same Elevation Of Boring Relative To System -40" Depth To Bottom Of Distribution Media =0" Of Separation End Of Boring At: 65" End Of Boring At: Redox Present At: 40" Elevation Of Boring Relative To System Depth To Bottom Of Distribution Media Of Separation End Of Boring At: Redox Present At:	12-23 23-40	10YR 5, 10YR 4/ 10YR 4/4 7.5YR 6/8, 7.5Y	/3 Fine Sand /3 Clay Loam Fine Sand With /R 5/8, 5YR 5/8, And			
-40" Depth To Bottom Of Distribution Media =0" Of Separation Of Separation End Of Boring At: 65" End Of Boring At: Redox Present At: 40" Redox Present At:	40" Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox	
=0" Of Separation Of Separation End Of Boring At: 65" End Of Boring At: Redox Present At: 40" Redox Present At:			<u> </u>	Elevation Of Boring	Relative To System	
End Of Boring At: 65" End Of Boring At: Redox Present At: 40" Redox Present At:						
Redox Present At: 40" Redox Present At:	=U" Of Separation		[(Of Separation		
Redox Present At: 40" Redox Present At:	End Of Boring Δt· 65"			Fnd Of Boring At-		

Bottom Of Distribution Medium At: 40 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