#### **Inspect Minnesota & Midwest Soil Testing**

P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal

MPCA Licensed Advanced Inspector

#### SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Inspection Address: 14501 41st Street S, Afton, MN 55001

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Sandra Coffin, and have reviewed the original design/permit records on file at the City of Afton. This system consists of two pre-cast septic tanks 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 #01-96012 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

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MP requirements and attached forms – additional local requirements may also apply.	CA) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system own within 15 days	
System Status	
System status on date (mm/dd/yyyy):10/17/2017	
<del></del>	compliant – Notice of Noncompliance Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent thro Other Compliance Conditions (Compliance Component #3) – Imminent Tank Integrity (Compliance Component #2) – Failing to protect groun	nt threat to public health and safety
☐ Other Compliance Conditions (Compliance Component #2) — Failing to protect groun	
Soil Separation (Compliance Component #4) − Failing to protect group	
Operating permit/monitoring plan requirements (Compliance Componing Property Information	
Property Information       Parcel ID# or Sec/Twp/         Property address:       14501 41 <sup>st</sup> St S, Afton, MN 55001       Reas         Property owner:       Sandra Coffin       Own	
Property Information Parcel ID# or Sec/Twp/ Property address: 14501 41st St S, Afton, MN 55001 Reas Property owner: Sandra Coffin Own or	Range:son for inspection:VBWD
Property Information       Parcel ID# or Sec/Twp/         Property address:       14501 41 st St S, Afton, MN 55001       Read         Property owner:       Sandra Coffin       Own         or       Owner's representative:       Repute the property owner         Local regulatory authority:       Washington County       Regulatory	Range:  con for inspection: VBWD  er's phone: 651-436-3552  esentative phone: 651-430-4052
Property Information Property address: 14501 41st St S, Afton, MN 55001 Property owner: Sandra Coffin Own  Owner's representative: Local regulatory authority: Washington County Brief system description: Two pre-cast septic tanks and a rock trench drainfield	Range:  con for inspection: VBWD  er's phone: 651-436-3552  esentative phone: 651-430-4052
Property Information Property address: 14501 41 <sup>st</sup> St S, Afton, MN 55001 Property owner: Sandra Coffin Owner's representative: Local regulatory authority: Washington County Brief system description: Two pre-cast septic tanks and a rock trench drainfield Comments or recommendations:	Range:  con for inspection: VBWD  er's phone: 651-436-3552  esentative phone: 651-430-4052
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Property Information Property Juddress: 14501 41st St S, Afton, MN 55001 Property owner: Sandra Coffin Ownor Owner's representative: Representative: Regressery authority: Washington County Regressery Brief system description: Two pre-cast septic tanks and a rock trench drainfield Comments or recommendations:  Certification I hereby certify that all the necessary information has been gathered to determine determination of future system performance has been nor can be made due to unit possible abuse of the system, inadequate maintenance, or future water usage.  Inspector name: Brian Humpal Cert Business name: Inspect Minnesota, Midwest Soil Testing Inspector signature: Regressery  Parcel ID# or Sec/Twp/  Reas  Own  Own  Own  Own  Own  Own  Own  Ow	Range:  Son for inspection: VBWD  Ser's phone: 651-436-3552  Sesentative phone: 651-430-4052  Lilatory authority phone: 651-430-4052  Sthe compliance status of this system. No known conditions during system construction, fication number: L5342  License number: L2896
Property Information Property address: 14501 41st St S, Afton, MN 55001 Property owner: Sandra Coffin Ownor Owner's representative: Reprible System description: Two pre-cast septic tanks and a rock trench drainfield Comments or recommendations:  Certification I hereby certify that all the necessary information has been gathered to determine determination of future system performance has been nor can be made due to unipossible abuse of the system, inadequate maintenance, or future water usage.  Inspector name: Brian Humpal Cert Business name: Inspect Minnesota, Midwest Soil Testing Inspector signature: Attachments  Necessary or Locally Required Attachments	Range:  son for inspection: VBWD  er's phone: 651-436-3552  essentative phone: latory authority phone: 651-430-4052  the compliance status of this system. No known conditions during system construction,  fication number: L5342 License number: L2896

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Property address: 14501 41st St S, Afton, MN 55001

Inspector initials/Date: \_\_10/17/2017

1.	lm	<b>npact on Public Health</b> – Cor	npliance	component #1 of	f 5			
	Co	Compliance criteria:				Verification method(s):		
		rstem discharge sewage to the bund surface.	☐ Yes	⊠ No	$\boxtimes$	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) "Black soil" above soil dispersal system		
		rstem cause sewage backup into relling or establishment.	☐ Yes	⊠ No		System requires "emergency" pumping Performed dye test		
		ny "yes" answer above indicates the system is n Imminent Threat to Public Health and Safety.				Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)		
		omments/Explanation: one of the above found.						
	INC	one of the above found.						
•	_							
2.		ank Integrity — Compliance com	nponent #	‡2 of 5				
	Co	ompliance criteria:			Ve	rification method(s):		
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		Probed tank(s) bottom  Examined construction records		
	Se	epage pits meeting 7080.2550 may be				Examined Tank Integrity Form (Attach)		
	COI	mpliant if allowed in local ordinance.				Observed liquid level below operating depth		
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No		Examined empty (pumped) tanks(s)		
		/es, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil"		
	Any "yes" answer above indicates the system is Failing to Protect Groundwa			ter.		Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)		
		omments/Explanation:						
Lo		owered underwater camera into tanks - baffles and tank walls OK.						
3.	01	ther Compliance Conditions	– Comp	liance componer	nt #3	3 of 5		
	a.	Maintenance hole covers are damaged		<u> </u>				
Explain:								
	c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater				ned by inspector ☐ Yes* ☑ No			
	Explain:							

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Property address: 14501 41st St S, Afton, MN 55001

Inspector initials/Date: 10/17/2017

	Data of installation: 1006			.,			
	Date of installation: 1996 Shoreland/Wellhead protection/Food Beverage	Unkr			rification method(s):		
	Lodging?	☐ Yes ⊠ No			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)		
	Compliance criteria:		uni				
	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.				☐ 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	Со	mments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes	□No	Inc	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)			_A.	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		
				D.	Required compliance separation*		
	Any "no" answer above indicates to Failing to Protect Groundwater.	he syst	em is		ay be reduced up to 15 percent rdinance.	if allowed by Local	
5.	Operating Permit and Nitrogen B	<b>MP*</b> – 0	Complianc	e comp	onent #5 of 5 🛮 🗵 <b>Not ap</b>	olicable	
	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) specifi	ied in the	system de	sign			
	If the answer to both questions is "no",	this sec	tion doe	s not n	eed to be completed.		
	Compliance criteria						
	a. Operating Permit number:						
	Have the Operating Permit requirements to	peen met	?		☐ Yes ☐ No		

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

Department of Health, Environment of 10 and Land Management 612/430-6708

AFTON CITY

PERMIT NUMBER

assitions:

0198012

SENAGE PERMIT

Curser :

SAMPRA L

COPPIN

6673 PALSTAPP RD

HOODBURY

SAMORA L

COFFIN

1404

55126

612-731-4002

SEPTIC APPLICATION SEPTIC SYSTEM PERMIT

Total Fees :

Total Paid : Total Due :

200.00 100.00 100.00

100.00

100.00

#### PERHISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following described property upon express condition that said persons and their agents, employees and workmen shall conform in all respects to the provisions of the Building Code, and/or Ordinances.

This permit may be revoked at any time upon the violation of any of the provisions of said code and ordinances.

Project Address : /450/ 4187 ST S

AFTON

55001

Flow Capacity

600 Gal/Day

Soil Conditions: Depth to Restriction

54 Inches

Perc Rate

37 Min/Inch

Soil Treatment Area Type:

Drain Field Y In Ground V In Fill N Bed H

Authorized Nork / Special Conditions

- Install individual sowage treatment system as per approved design in area tested and shown on site plan.
- THIS SYSTEM HRIST BE INSTALLED BY A CERTIFIED/LICENSED SEMAGE TREATMENT SYSTEM INSTALLER HOLDING A CURRENT LICENSE WITH MASHINGTON COUNTY. (A list of licensed installers is available at your request.)
- Haximum trench depth 18", follow contours.

\*\* Permit Expiration Date :

Sewage Treatment : 5/14/97

A CERTIFICATE OF OCCUPANCY MUST BE REQUESTED AND ISSUED PRIOR TO USE OR OCCUPANCY OF WORK PERMITTED

\*\* This permit shall expire and be null and void if the work authorized by the Building Permit is not commenced within 60 days of the date of issuance or if work is abandoned or suspended for a period of 120 days. Term of the Building Fermit is 12 months from date of issue. Term of sewage treatment

Penalty for violation of any of the provisions of building code: Fine not to exceed five hundred

dollars (\$500.00) or imprisionment for not more than ninety (90) days, or both.

5/14/96 Permit Issue Date

Code Enforcement Officer

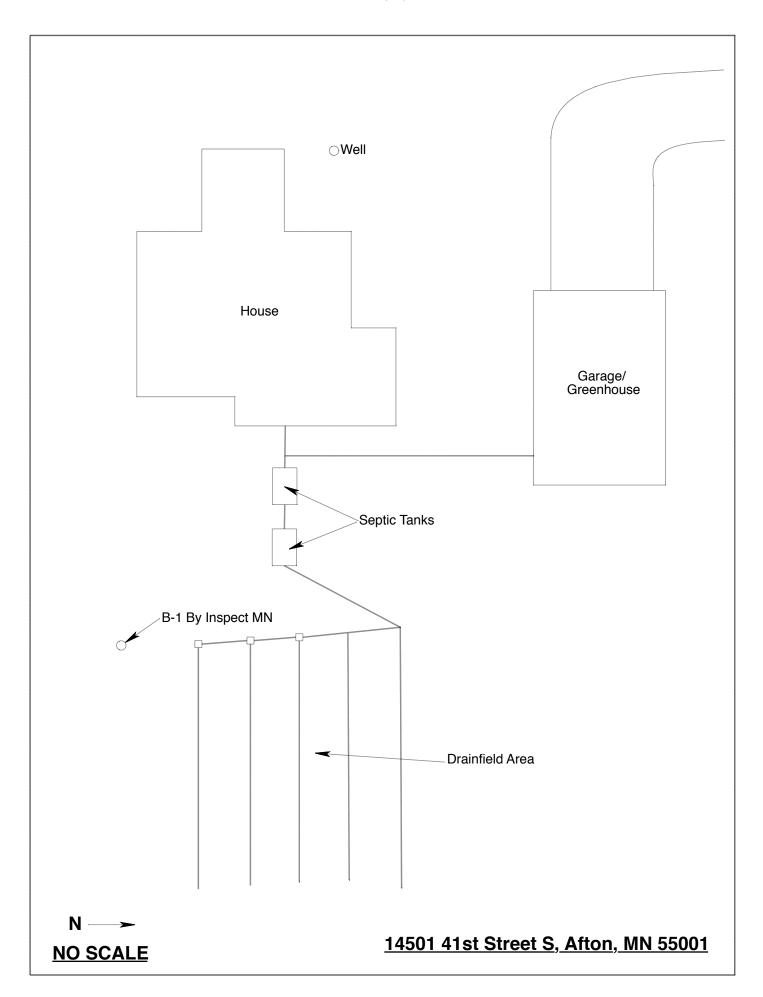
## Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: October 17, 2017	Time: 9:00 AM					
Property Address: 14501 41st St S, Afton, MN	Zip: 55001					
Property Owner: Sandra Coffin	Phone: 651-436-3552					
Tank(s)       Tank(s)Material       Soil Treatment System         Septic 2       Fiberglass       Rock trench         Aerobic       Plastic       Gravelless trench         Lift       Metal       Chamber trench         Holding       Concrete       Seepage bed         Other:       Block       Mound         Other       At-grade     Are the tank maintenance covers accessible?  Yes No *If the content of th						
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.						
±	Γank size (gals.): 2-1000					
How long has seller owned the property? 1996 Number of re	sidents in home? 1					
Number of bedrooms? 2 Are all floors drained by g	, , ,					
Garbage disposal? N Whirlpool bath?	Y					
More than one system (laundry, etc.)? N						
Does this property have any footing drain tiles connected to the septic system? N  Are any buildings on this property such as garages or out-buildings connected to this system? Yes, floor drain in green house connected and may be the floor drain in the garage.						
Are there any additional systems on this property serving other buildings? N						
Location of septic system on lot? East Side	11 1 110 37					
	e 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:						
When was the system last pumped? 9/21/2017 Name of pum	per: Pinky's Sewer Service					
How often pumped in previous years? Every 3  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: Sandra Coffin's Signature On File Date: 10/17/2017



#### **Log Of Soil Borings**

Loc	cation of Project:	14501 41st St S, Afto	on, MN 550	01	
Borings Made By: Inspect Minnesota				Date:	10/17/17
Auger Used: Hand/Bucket			Class	ification System:	USDA
Boring Number: 1				Boring Number:	
Surface Elevation of Boring  Same ground surface as last drainfield trench			Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	<u>countered</u>
0-19 19-27 27-38 38-51 51-65 65-74	10YR 2/2 2.5Y 10YR 4/ 7.5YR 4/ 10YR 4/4 5YR 3/4, 10YR 6/ 10YR 4/4 Silt L (Mixed With Unco	/2 Silt Loam Silt Loam With R 4/8 Till? /3 Clay Loam /4 Clay Loam Silt Loam With /2, & 7.5YR 5/8 Redox oam/Very Fine Sand onsolidated Bedrock?) /4, 10YR 6/2, & . 5/8 Redox			
51"	Depth To End Of Boring Or Redox			Depth To End Of Bo	ring Or Redox
Same	Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System
-45" Depth To Bottom Of Distribution Media			Depth To Bottom Of	f Distribution Media	
=6" Of Separation			Of Separation		
	= 106B	<b>–</b>		= 1065 · · · · ·	
	End Of Boring At:			End Of Boring At:	
	Redox Present At:			Redox Present At:	
Standing Water Present At: None			Standing	Water Present At:	

Bottom Of Distribution Medium At: 45 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 1<sup>st</sup> through April 1<sup>st</sup>) 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