Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 300 Laurel Rd, Mahtomedi, MN 55115

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2008, which were on file at the City of Mahtomedi. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a pressurized seepage bed.

Predicated on my inspection of the system and my review of the records, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

Inspect Minnesota and Midwest Soil Testing have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Inspect Minnesota and Midwest Soil Testing disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.

Brian Humpal Brian Humpal



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

For local tracking purposes: 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): 3/21/2016 Compliant – Certificate of Compliance Noncompliant - Notice of Noncompliance (Valid for 3 years from report date, unless shorter time (See Upgrade Requirements on page 3) frame outlined in Local Ordinance.) Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) - Failing to protect groundwater Soil Separation (Compliance Component #4) – Failing to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant **Property Information** Parcel ID# or Sec/Twp/Range: Property address: 300 Laurel Rd, Mahtomedi, MN 55115 Reason for inspection: Required By City Property owner: Randy Ewald Owner's phone: 651-653-4706 or Owner's representative: Representative phone: Local regulatory authority: Washington County Regulatory authority phone: 651-430-4052

Certification

Brief system description:

Comments or recommendations:

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.

Two pre-cast septic tanks, a pre-cast lift tank, and a seepage bed.

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

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ecessary 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 - Cor	mpliance componer	nt #1 of 5
	Compliance criteria: System discharge sewage to the ground surface. System discharge sewage to drain tile or surface waters. System cause sewage backup into dwelling or establishment. Any "yes" answer above indicates an Imminent Threat to Public Heat. Comments/Explanation: None of the above found.	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ the system is	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 cor	nponent #2 of 5	
3.	System consists of a seepage pit, cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance. Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks: Any "yes" answer above indicasystem is Failing to Protect Gr. Comments/Explanation: Lowered underwater camera into tanks tift pump and alarm were operational at	oundwater. - baffles and tank wall the time of the inspec	ction.
	_	immediately and adver ublic health and safet ater for other conditions	

Property address: 300 Laurel Rd, Mahtomedi, MN 55115

Inspector initials/Date: 3/21/2016

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 •3 of **TO**Y 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

1.	Soil Separation – Compliance compor	nent #4 of	5			
	Date of installation: 1999	Unkno	own	V	erification method(s):	
	Shoreland/Wellhead protection/Food Beverage Lodging?		☐ No		oil observation does not expire. Pr bservations by two independent pa	
	Compliance criteria:			ur	nless site conditions have been alt	
	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		requirements differ. Conducted soil observation(s) (Attach boring lo Two previous verifications (Attach boring lo Not applicable (Holding tank(s), no drainfield,	
	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,	⊠ Yes	□ No	C	omments/Explanation:	
	1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:				eviewed previous compliance inspections of the contract of the	
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
	"Experimental", "Other", or "Performance"	☐ Yes	☐ No	– In	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)				Bottom of distribution media	See Attached Boring Log(s)
	Drainfield meets the designed vertical			<u>B</u> .	Periodically saturated soil/bedrock	
	separation distance from periodically saturated soil or bedrock.			C.	System separation	
	Any the Handwar shave indicates t	ha awata	i-		Required compliance separation*	
	Any "no" answer above indicates to Failing to Protect Groundwater.	ne syste	m is		May be reduced up to 15 percent it Ordinance.	f allowed by Local
				_ `	ordinance.	
5.	Operating Permit and Nitrogen B	MP* – Co	omplian	ce com	ponent #5 of 5 Not app	licable
	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		_ ☐ Yes		•	
	BMP=Best Management Practice(s) specif	ied in the s	ystem de	esign		
	If the answer to both questions is "no",	this sect	ion doe	s not n	need to be completed.	
	•				•	
	Compliance criteria					
	Operating Permit number: Have the Operating Permit requirements I	neen met?			☐ Yes ☐ No	
	b. Is the required nitrogen BMP in place and		ınctionin	n?	☐ Yes ☐ No	
			an locionini (y:		
	Any "no" answer indicates Noncom	pilalice.				

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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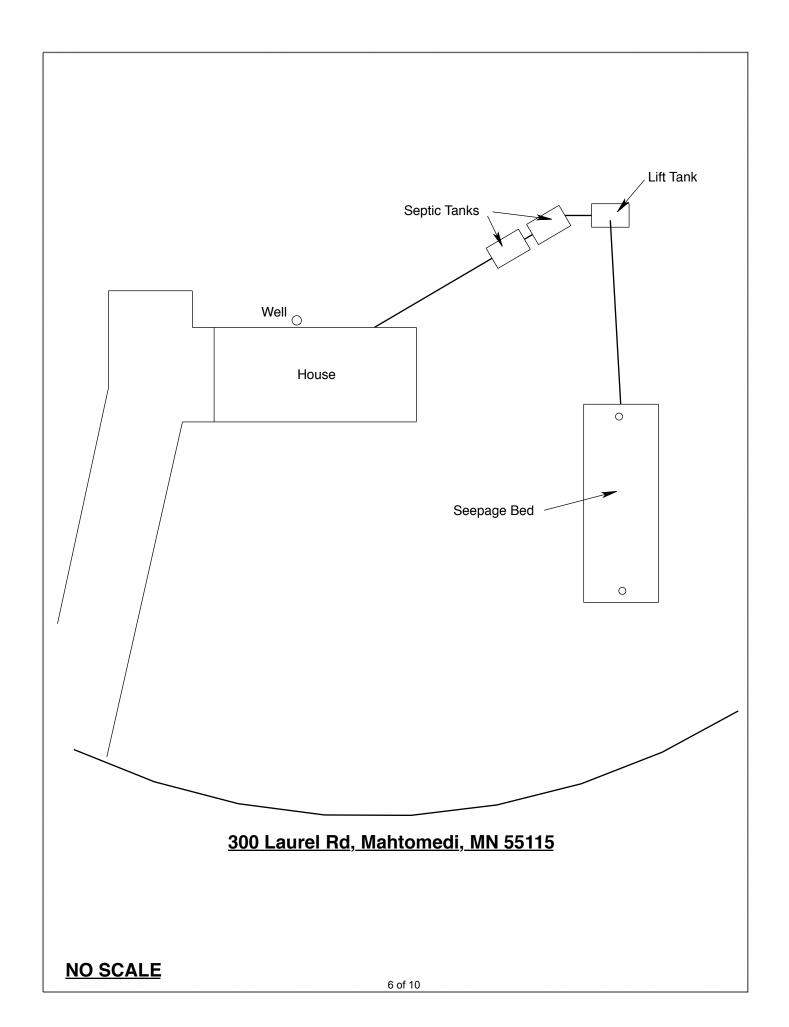
Property address: 300 Laurel Rd, Mahtomedi, MN 55115

Inspector initials/Date: 3/21/2016

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: March 21, 2016	Time: 10:30 AM
Property Address: 300 Laurel Rd, Mahtomedi, MN	Zip: 55115
Property Owner: Randy Ewald	Phone: 651-653-4706
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	Other Alternative system Experimental system Cesspool system Other system
Are the tank maintenance covers accessible? Yes No *If i performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the surface of the surface to facilitate access and proper maintenance of the surface	ers should be made accessible to
Year house built: 1966 Year septic installed: 1999	Γank size (gals.): 2-1000
	sidents in home? 2-3
Number of bedrooms? 3 Are all floors drained by gr	ravity? Y
Garbage disposal? Y Whirlpool bath?	N
More than one system (laundry, etc.)? N	
Does this property have any footing drain tiles connected to the se	ptic system? N
Are any buildings on this property such as garages or out-building	s connected to this system? N
Are there any additional systems on this property serving other bu	ildings? N
Location of septic system on lot? Tanks - Southeast Side, Bed - So	outhwest Side
Location of water well on lot? Basement - South Side Is the	well a deep well? Unknown
Have you ever experienced any problems with the system such as:	
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 pum	per:
How often pumped in previous years? Is system	on a monitoring plan? N
Have you received notices from any government agency concerning	ng this system? N
Is your property located in a shoreland management area? Y	
Do you have any additional information that should be given to the	e new owner? N
I hereby certify that the above information is correct to the best of my knowledge considered "non-compliant/failing" per MPCA rules, that the inspector must by local government unit within 15 days of the date of inspection completion. I all this report, that I/we are ultimately responsible for payment of all fees for all we by Inspect Minnesota and Midwest Soil Testing.	law submit a copy of this report to the so agree that unless otherwise noted in
Owner/Occupant:	Date:



Log Of Soil Borings

Location of Project: 300 Laurel Road, Mahtomedi, MN						
Во		Inspect Minnesota	Date: 3/1/0		3/1/08	
Auger Used: Hand/Bucket			Classification System: USDA		USDA	
E	Boring Number:	1		Boring Number:		
Surface Elevation o Boring	T I	Top Of Ground At ner Of Seepage Bed	Surface Elevation Boring			
Depth In Inches	Soils E	ncountered	Depth In Inches	h In Soils Encountered		
0-6 6-26 26-60 60-78	10YR 4/4 L 7.5YR 4/6 Lo With S 10YR 4,	2/2 Silt Loam oamy Fine Sand am & Sandy Loam Sand Seams /4 Fine Sand /el At 78" Refusal				
78" D	epth To End Of B	oring Or Mottled Soils		Depth To End Of Bo	oring Or Mottled Soils	
Same E	Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System	
	Pepth To Bottom (Of Separation	Of System		Depth To Bottom C Of Separation	of System	
	End Of Boring At:	78"		End Of Boring At-		
Mottled Soil Present At: None			End Of Boring At: Mottled Soil Present At:			
	Standing Water Present At: None			Standing Water Present At:		
Standing Water Fresent At.						

Bottom	Ωf	Distribution	Medium	Δ+٠	38	Inches
DULLUIII	Οı	DISTIDUTION	Mediuiii	AL.	30	mones

DATE_ JOB KOBERT MOJAK 300 LANKEL ROAD MANTOMEDI 1-25-99 BORING LOG
10° SUNNY
12"m 16" FROST

- 11	» 7	6 6		ω N	다 다 다	DATE
BROWN LOAMS 7.5 YR 4/4 LIGHT BROWN LOAM 10 YR 5/6	CLASSIELCATION CLASSIELCATION SAND SAND	STAP MOTILE 42"	GRAY, FINE TO MEDIUM SAMD- DYIOTLED SAME	BROWN, FINE TO MEDIUM	SANDY FILL- BINGE DIET	7-25-99 HOLE #1
 	╏╸╻ ╶╏╶╻╻		COAM AND BLACK DIRT	- - - - - - -	' 5 1	HOLE #2
	S72P	LIGHT BROWN,	 	' 1 }	, Ø 1	12"m 16" FR*ST HOLE #3
 	S70/2	- - - - -	CORNIC CARRIET	7 2 3	V¹	HOLE #4
	ST. 15			1 1 2 -1 0	(A) (A)	BOREHOLE DIAMETER 4" 3%" HOLE #5
├ ╏ ╏	STOP OKAY 6 6	- - - - -	FINE SAND of	V :	* ! (5	3%" HOLE #6

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



License # L2896

Date of Issuance:

Maintainer License Expires:
Installer License Expires:
Adv Inspector License Expires:
Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

Designated Certified Individual (DCI)	Certification Type	Certification Expires
Brian L. Humpal	Maintainer (Certified)	10/15/2017
Brian L. Humpal	Advanced Designer (Certified)	10/15/2017
Brian L. Humpal	Advanced Inspector (Certified)	10/15/2017
Brian L. Humpal	Installer (Certified)	10/15/2017
Brian L. Humpal	Service Provider (Certified)	10/15/2017
Christopher R. Uebe	Designer (Certified)	03/04/2018
Christopher R. Uebe	Inspector (Certified)	03/04/2018



St. Paul, Minnesota 55155-4194

