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Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White B	ear Lake, MN 55110	Brian Humpal
651-492-7550/Brian@Mie	dwestsoiltesting.com	MPCA Licensed Advanced Inspector
SUBSURFACE SEWAGI	E TREATMENT SYST	EM (SSTS) COMPLIANCE REPORT
Date: June 4, 2019	Time: 9:15 AM	Owner: Mike & Bev O'Connor
Inspection Address: 9450 N	Iendel Road N, Stillwater	r, MN 55082

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Mike O'Connor, and have reviewed the original design/permit records, along with a previous compliance inspection from 2001, which were on file at Washington County. This system consists of two pre-cast septic tanks and a rock trench drainfield.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the original design/permit 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.

Christopher Uebe

Brian Humpal

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): 6/4/2019

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:	9450 N	lendel Road N, Stillwater, MN 55082		Reason for inspection: Property Transfer
Property owner:	Mike & E	Bev O'Connor		Owner's phone: 651-303-0308
or				
Owner's represen	tative:			Representative phone:
Local regulatory a	uthority:	Washington County		Regulatory authority phone: 651-430-6655
Brief system desc	ription:	Two pre-cast septic tanks and a rock tr	rench draii	nfield.
Comments or reco	ommonda	tions:		

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 H	lumpal/Christo	pher	Uebe			Certification nu	mber:	C5	342/C9852
Business name:	Inspect	: Minnesota, M	lidwe	st Soil Testing			License nu	mber:	L2a	896
Inspector signatur	re:	Brian ;	Hu	npal After	Vi	<u> </u>	Phone nu	mber:	65	1-492-7550
Necessary or	Local	ly Require	d A	ttachment	S					
Soil boring lo	ogs	⊠ Syst	em/A	s-built drawing	J		Forms per local of	ordinan	ice	
🛛 Other inform	ation (lis	t): Report S	Summ	nary, Property I	nforn	nation, Dise	claimer, License			
www.pca.state.mn.	us •	651-296-6300	•	800-657-3864	•	TTY 651-2	82-5332 or 800-65	7-3864	•	Available in alternative formats

wq-wwists4-31 • 1/24/12

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

Compliance criteria: Ve System discharge sewage to the ground surface. Yes ⊠ No System discharge sewage to drain tile or surface waters. Yes ⊠ No System cause sewage backup into dwelling or establishment. Yes ⊠ 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:		Verification method(s):
System consists of a seepage pit,	🗌 Yes 🖾 No	Probed tank(s) bottom
cesspool, drywell, or leaching pit.		Examined construction records
Seepage pits meeting 7080.2550 may be		Examined Tank Integrity Form (Attach)
compliant if allowed in local ordinance.		Observed liquid level below operating depth
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🖾 No	Examined empty (pumped) tanks(s)
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
		Unable to verify (See Comments/Explanation)
Any "yes" answer above indic system is Failing to Protect G		Other methods not listed (See Comments/Explanation)

Comments/Explanation:

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

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

a.	Maintenance hole covers a	re damaged, c	cracked, unsecured,	or appear to structurally	y unsound.	□ Yes*	🛛 No	Unknown

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 Yes* No *System is failing to protect groundwater

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1998	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🛛 Yes 🗌 No	Soil observation does not expire. Pr observations by two independent pa	
Compliance criteria:		unless 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) (A ☐ Two previous verifications (Attac ☐ Not applicable (Holding tank(s), not	h boring logs)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		 ☐ Unable to verify (See Comments/L ☑ 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	<i>Comments/Explanation:</i> Reviewed previous compliance insp Reviewed design and permit record	
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		A. Bottom of distribution media	See Attached Boring Log(s)
License required) 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 Ordinance.	allowed by Local
Operating Permit and Nitrogen B	MP* – Compliance	component #5 of 5 🛛 🖂 Not appl	icable
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) specified in the system design

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

Compliance criteria

5.

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, 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 & Midwest Soil Testing

Subsurface Sewage Treatment System Owner/Property Information

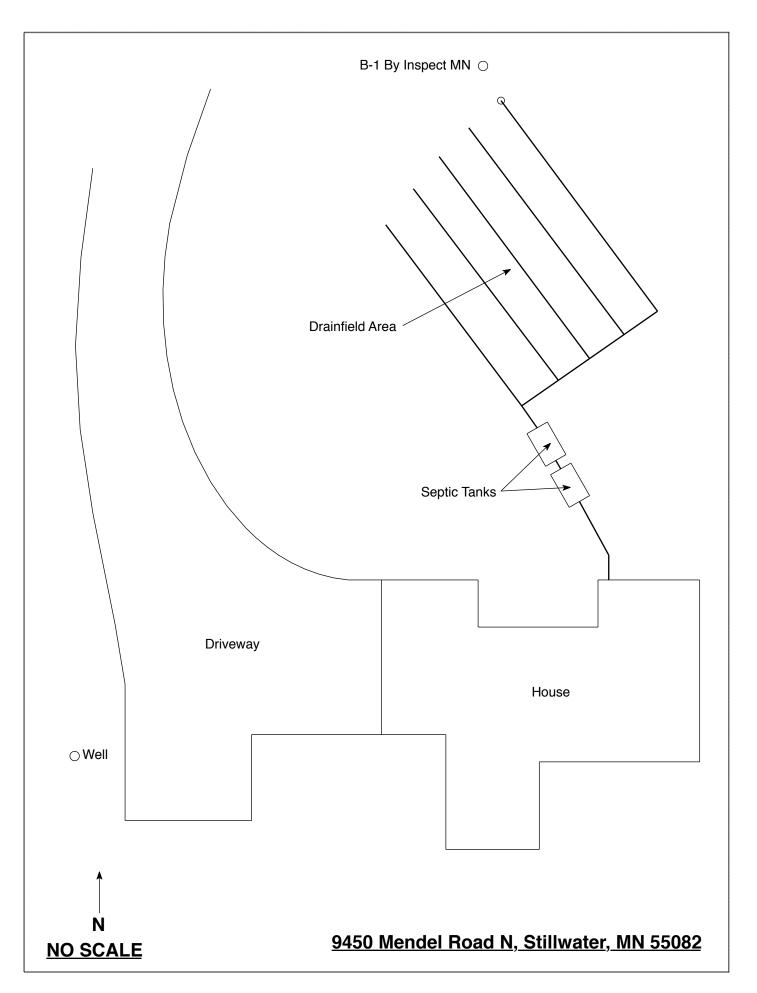
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: June 4, 2019	Time: 9:15 AM
Property Address: 9450 Mendel Road N, Stillwater, N	IN Zip: 55082
Property Owner: Mike & Bev O'Connor	Phone: 651-303-0308
Troperty Owner: Write & Bev O comfor Tank(s) Tank(s)Material Soil Treatm	
$\qquad \qquad $	
Aerobic Plastic Gravelles	
Lift Metal Chamber	
☐ Holding ⊠Concrete ☐ Seepage ☐ Other: ☐ Block ☐ Mound	Ded Other system
Other At-grade	
Are the tank maintenance covers accessible? \boxtimes Yes [□ No *If no proper maintenance must be
performed through the maintenance holes. Maintenance	
the ground surface to facilitate access and proper main	
Year house built: 1998 Year septic installed: 19	98 Tank size (gals.): 2-1000
1	imber of residents in home? 2-5
	ained by gravity? Lower Pumped
	lpool bath? Y
More than one system (laundry, etc.)? N	
Does this property have any footing drain tiles connect	ed to the septic system? N
Are any buildings on this property such as garages or o	ut-buildings connected to this system? N
	4 1 11: 9 M
Are there any additional systems on this property serving	ng other buildings? N
Leasting of continent on 1-12 North Cile	
Location of septic system on lot? North Side	Is the well a deep well? V
Location of water well on lot? West Side	Is the well a deep well? Y
Have you ever experienced any problems with the system surfacing of sewage onto the ground, septic tank overfl	
to the system? N If yes, explain:	owing, etc., of have any repairs been made
to the system? IV II yes, explain.	
When was the system last pumped? 2016 Na	me of pumper: Meyer Sewer Service
How often pumped in previous years? Every 3	Is system on a monitoring plan? N
Have you received notices from any government agence	
Is your property located in a shoreland management are	
Do you have any additional information that should be	

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: Mike O'Connor's Signature On File

Date: 6/4/2019

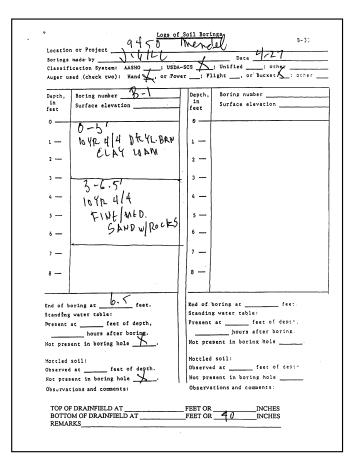


Log Of Soil Borings

Locat	ion of Project.	9450 Mendel Road N	Stillwator	MN 55082		
		Inspect Minnesota	, Stillwater,	Date:	6/4/19	
		Hand/Bucket	Classi	Classification System: USDA		
Bo	oring Number:			Boring Number:		
Surface		-	Surface			
Elevation of		and surface as last	Elevation of	of		
Boring	draii	nfield trench	Boring			
Depth In	Soile E	ncountered	Depth In	Soile En	countered	
Inches			Inches	<u>30115 L1</u>	icountereu	
0-14 14-27 27-45 45-73	10YR 3/3 7.5YR 3/	oamy Fine Sand 3 Loamy Sand 4 Sandy Loam 4 Loamy Sand				
	epth To End Of B		Depth To End Of Boring Or Redox			
	Same Elevation Of Boring Relative To System			Elevation Of Boring Relative To System		
	epth To Bottom (Separation	Of Distribution Media		<u>Depth To Bottom O</u> Df Separation	of Distribution Media	
230 [0]	Separation					
Er	nd Of Boring At:	73"		End Of Boring At:		
Re	dox Present At:	None		Redox Present At:		
Standing Wa	ater Present At:	None	Standing	Water Present At:		

Bottom Of Distribution Medium At: 37 Inches

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DATE	062 Ro. N., PAROEL WILMATER TUISP. 1-8-96	A	BORING LOG 26° SUNNY No FROOT	3	OREHOLE DIAMETER 4°-	34" HAND BUGGE
FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	HOLE #6
+	70 P 501L -	- TOP SOIL -	+ -			
1 +0	SANDY LOAM -	BROWIS, SANDY -	70P SOIL -	TOP SOIL -	TOP SOIL	-
±		E -	SANDY LOAM	BROWN, FINE -	- BROWNS, SANDY -	-
2 ±	-	REODISH BROWN _	BROWN, SANDY -	LOAM -	LOAM	-
+	BROWNS, SANDY -	LIGHT SAND	LOAM -	BROWN, SANDY -		-
3 ±	_	REDDISH BROOK	F · - 1	- 20AM -	F ‡	-
±	-	SANDY LOAM -	E . T	BROWN, MEDIUM -	F 4	-
4 ±	-	£ -	F. I	SAND	F 1	-
+	-	E i	F -		F 1	
5	BROWNS, FINE	£ -		F `=	F 1	-
+	SAND	£ -	BROWN, MEDIUM -		F 1	-
	Rown Lonn	F	F 7	F -		- 1
· ±*	ENVY MOTLE	OBSTRUCTION -	F 7	F -	BROWN, FINE GAND WITH LORM - BATRUCTION	
7 +	-	\$70P _	F 7	F -	575P +	-
±	STOP -	E	STOP	576P	F 1	
s ±		- OKAY 6'6" -	F . :		F 1	
±4	Nomen Son - 5'6" -	£ -	OKAY 7'	FORAY 7 -	- 1	
, ±	-	£ 1	Ŧ -	F	CHAY 6'+ +	-
	DW BORING - VENT TO SWALE	E I	F -	F -	F 4	-
10 +	-	± -	E :	F -	F 1	. .
+		+ -	F	F -		_

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 Expires: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

License # L2896

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
•	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv D	esigner, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	

MINNESOTA POLLUTION CONTROL AGENCY

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

Nich Haig

Nick Haig, Supervisor Certification and Training Unit