Inspect Minnesota & Midwest Soil TestingP.O. Box 383 Hugo, MN 55038Brian Humpal651-492-7550/Brian@midwestsoiltesting.comMPCA Licensed Designer & InspectorSUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORTDate: Feburary 22, 2016Time: 11:30 AMOwner: Tim & RaeAnn IsermanInspection Address: 23360 Manning Ln N, Scandia, MN Site Conditions: 2" Snow 9" FrostREPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system and have reviewed the history of the system with the Owner, RaeAnn Iserman. I contacted Washington County and was advised that there are no records for this system. This very old system (installed in 1980) 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)(E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils. This system is not an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A).

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 Humpsl

Brian Humpal

Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194	-	e Inspection Form e Sewage Treatment Systems (SSTS) Doc Type: Compliance and Enforcement
Instructions: Inspection results based on Minnesota requirements and attached forms – additional local results and attached forms – additional local results are additional local results.	u i (For local tracking purposes:
Submit completed form to Local Unit of Governi within 15 days	ment (LUG) and system owner	
System Status		
System status on date (mm/dd/yyyy): _2/2	22/2016	
Compliant – Certificate of Comp (Valid for 3 years from report date, unless frame outlined in Local Ordinance.)		pliant – Notice of Noncompliance rade Requirements on page 3)
Reason(s) for noncompliance (check a	nll applicable)	
Impact on Public Health (Compliance C	Component #1) – Imminent threat to	public health and safety
Other Compliance Conditions (Compliance Conditions)	nce Component #3) – Imminent thre	eat to public health and safety
Tank Integrity (Compliance Component	t #2) – Failing to protect groundwate	er

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	s: <u>23360</u>	Manning Ln N, Scandia, MN 55073	Reason for inspection:	Property Sale
Property owner:	Tim & F	aeAnn Iserman	Owner's phone:	
or				
Owner's represe	ntative:	Nick Junker (Coldwell Banker Burnet)	Representative phone:	651-208-7850
Local regulatory	authority:	Washington County	Regulatory authority phon	e: 651-430-4052
Brief system des	cription:	Pre-cast septic tank and a rock trench drainfield		
Comments or rec	commenda	ations:		

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name:	Brian Humpal	Certification number:	L5342
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signatur	e: Brian Humpal	Phone number:	651-492-7550

Necessary or Locally Required Attachments

🖂 Soil boring logs	🛛 System/As-built drawing	Forms per local ordinance
Other information (list):	Report Summary, Property Informa	tion, Disclaimer, License

1. Impact on Public Health – Compliance component #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 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:

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:	System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes	🛛 No
designed operating depth.			
If yes, which sewage tank(s) leaks:	3	🗌 Yes	🛛 No
	If yes, which sewage tank(s) leaks:		

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

Comments/Explanation:

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

Verification method(s):

Probed tank(s) bottom
 Examined construction records
 Examined Tank Integrity Form (*Attach*)
 Observed liquid level below operating depth
 Examined empty (pumped) tanks(s)
 Probed outside tank(s) for "black soil"
 Unable to verify (See Comments/Explanation)
 Other methods not listed (See Comments/Explanation)

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

a.	Maintenance hole covers are damage	d, cracked, unsecured,	or appear to structurally une	sound. 🛛 Yes*	🖾 No	🗌 Unknown

b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. *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 ***System is failing to protect groundwater**

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1980	Unknown	V	erification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	-	oil observation does not expire oservations by two independen	
Compliance criteria:	1	unless site conditions have been altered o		
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		<i>quirements differ.</i> Conducted soil observation(s Two previous verifications (A Not applicable <i>(Holding tank(s</i>)	Attach boring logs)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.] Unable to verify (See Comme] Other (See Comments/Explana	
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	o C	omments/Explanation:	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance"	🗌 Yes 🗌 No	o In	dicate depths of elevation	ns
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/bedroo System separation	ck
			Required compliance separation	*
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is		lay be reduced up to 15 perce Drdinance.	nt if allowed by Local
Operating Permit and Nitrogen B	MP* – Compli	ance com	popent #5 of 5 🛛 🖂 Not a	pplicable
is the system operated under an Operating Per		′es ⊠ No		
Is the system required to employ a Nitrogen BM		es ⊠ No	•	
BMP=Best Management Practice(s) specifi			· · · · · · · · · · · · · · · · · · ·	
If the answer to both questions is "no",		-	need to be completed.	
-				
Compliance criteria				
a. Operating Permit number:			🗌 Yes 🔲 No	

Any "no" answer indicates Noncompliance.

Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning?

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.

☐ Yes ☐ No

<u>Inspect Minnesota & Midwest Soil Testing</u>

Subsurface Sewage Treatment System Owner/Property Information

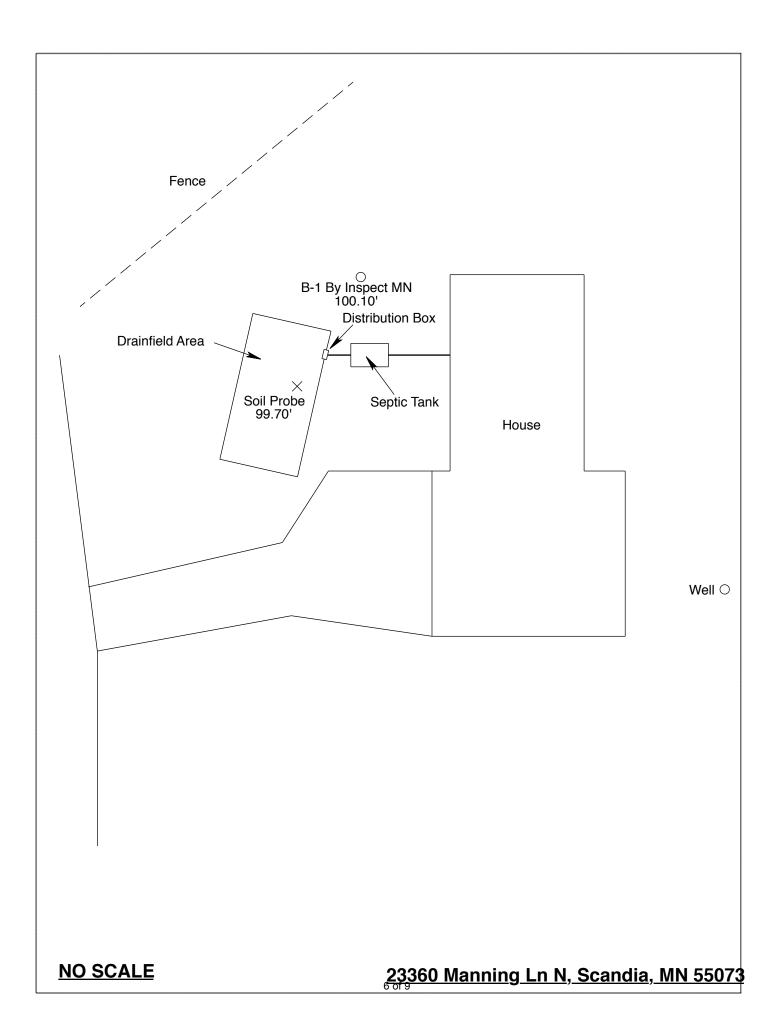
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: February 22, 2016	Time: 11:30 AM
Property Address: 22260 Manning Ln N. Saandia MN	7in: 55072
Property Address: 23360 Manning Ln N, Scandia, MN	Zip: 55073 Phone:
Property Owner:Tim & RaeAnn IsermanTank(s)Tank(s)MaterialSoil Treatment System	Other
Imate(s) Imate(s)/Material Soft 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 Experimental system Cesspool system Other system
Are the tank maintenance covers accessible? \Box Yes \boxtimes No *If r performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the	ers should be made accessible to
Year house built: 1980 Year septic installed: 1980 7	Combraine (colo.): 1500
1	Fank size (gals.): 1500 sidents in home? 4-7
Number of bedrooms? 4 Are all floors drained by gr	
Garbage disposal? N Whirlpool bath?	
More than one system (laundry, etc.)? N	1
Does this property have any footing drain tiles connected to the se	
Are any buildings on this property such as garages or out-building	s connected to this system? IN
Are there any additional systems on this property serving other but	ildings? N
Location of septic system on lot? East Side	
	well a deep well? Y
Have you ever experienced any problems with the system such as:	
surfacing of sewage onto the ground, septic tank overflowing, etc.; to the system? N If yes, explain:	; or have any repairs been made
When was the system last pumped? Aug 2015 Name of pum	per: Olson's Sewer Service
	on a monitoring plan? N
Have you received notices from any government agency concernir	
Is your property located in a shoreland management area? N	
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. 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: RaeAnn Iserman's Signature On File

Date: 2/22/2016



Log Of Soil Borings

Location of Project: 23360 Manning Ln N, Scandia, MN 55073					
		Inspect Minnesota		Date:	2/22/16
		Hand/Bucket	Class	ification System:	USDA
E	Boring Number:	1		Boring Number:	
Surface		L00.10'	Surface		
Elevation o	f Benchmark	= 100.00' garage	Elevation	of	
Boring	concre	ete floor slab	Boring		
Depth In	Soils Er	ncountered	Depth In	Soils E	ncountered
Inches			Inches	<u></u>	
0-10 10-16		4/2 Loam 3 Loam With			
10 10		8 & 10YR 6/2			
16-26	10YR 4/2 Sa	andy Loam With			
26-40		/8, & 10YR 6/1 Redox			
20-40		Silt Loam With 10YR 6/2 Redox			
	10111 0/ 1 0	10111 0/2 11040			
		n Of Distribution Media			Of Distribution Media
	epth To Redox Or of Separation	LIN UI DUIIIY		Depth To Redox Of Separation	
E	End Of Boring At:	40"		End Of Boring At:	
R	edox Present At:	10"/99.27'		Redox Present At:	
Standing W	Vater Present At:	None	Standing	Water Present At:	

Bottom Of Distribution Medium At: 35" Or Elevation 96.78' At Soil Probe

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:	Oct 28, 2015
Maintainer License Expires:	Dec 22, 2016
Installer License Expires:	Dec 22, 2016
Adv Inspector License Expires:	Dec 22, 2016
Adv Designer 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	



Minnesota Pollution Control Agency

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

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Environmental Business Assistance Section