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Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lake, MN 55110Brian Humpal651-492-7550/Brian@Midwestsoiltesting.comMPCA Licensed Advanced InspectorSUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORTDate: August 12, 2019Time: 12:00 PMOwner: Invitation HomesInspection Address: 883 Jasmine Ave Place N, Lake Elmo, MN 55042

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, which were on file at City of Lake Elmo, along with a previous compliance inspection from 2013, which was on file at Washington County. This older system (installed in 1995) consists of two pre-cast septic tanks and a rock trench drainfield. This house is presently vacant.

Although not compliance criteria, it should be noted that the outlet baffle in the second septic tank is missing.

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.

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 the Washington County Department of Public Health & Environment (651-430-6655) to verify the County's position.

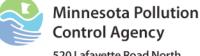
Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

Christopher Uebe

Brian Humpol

Brian Humpal

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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): 8/12/2019

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:	883 Jas	mine Ave Place N, Lake Elmo, MN 55042	R	Reason for inspec	tion: Pro	perty Transfer	
Property owner:	Invitation	Homes	С	Owner's phone:	651-355-1	850	
or							
Owner's represent	ative:		R	Representative ph	none:		
Local regulatory a	uthority:	Washington County	R	Regulatory author	ity phone:	651-430-6655	
Brief system description:Two pre-cast septic tanks and a rock trench dr			ı drainf	field.			
Commonts or roco	mmondat	ions:					

Comments or recommendations:

Although not compliance criteria, it should be noted that the outlet baffle in the second septic tank is missing.

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/Christopher Uebe	Certification number:	C5342/C9852				
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896				
Inspector signatur	e: Brian Humpal After the	Phone number:	651-492-7550				
Necessary or Locally Required Attachments							
🛛 Soil boring lo	ogs	Forms per local ordinan	се				
Other inform	ation (list): _ Report Summary, Property Information,	Disclaimer, License					

Property address: 883 Jasmine Ave Place N, Lake Elmo, MN 55042 Inspector initials/Date: 8/12/2019

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

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🖾 No	 Searched for surface outlet Searched for seeping in yard/backup in home
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation)
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	 "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test
Any "yes" answer above indicate an Imminent Threat to Public Hea		 Generation of the second second
Comments/Explanation:		

2. Tank Integrity – Compliance component #2 of 5

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

Comments/Explanation:

None of the above found.

Although not compliance criteria, it should be noted that the outlet baffle in the second septic tank is missing.

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

a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.	١	enance noie covers are damaged	I, Cracked, Unsecured.	, or app	bear to structurally	y unsound.	⊥ Yes [*]	🛆 NO	
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b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. 🗌 Yes* 🖾 No 📋 Unknown *System is an imminent threat to public health and safety

Explain:

System is non-protective of ground water for other conditions as determined by inspector Yes* 🖾 No C. *System is failing to protect groundwater

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1995	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🖾 No	Soil observation does not expire. F	
Compliance criteria:		observations by two independent p unless site conditions have been a	
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: Drainfield has at least a two-foot vertical	🗌 Yes 🖾 No	 requirements differ. Conducted soil observation(s) Two previous verifications (Attaining tank(s), r Not applicable (Holding tank(s), r Unable to verify (See Comments) 	ach boring logs) no drainfield)
separation distance from periodically saturated soil or bedrock.		Other (See Comments/Explanatio	n)
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	Comments/Explanation:	
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 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.		B. Periodically saturated soil/bedrockC. System separation	
		D. Required compliance separation*	
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent Ordinance.	if allowed by Loca
Operating Permit and Nitrogen B	MP* – Compliance	e component #5 of 5 🛛 🛛 Not app	blicable
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 section does	s not need to be completed.	
Compliance criteria			
a. Operating Permit number:			
Have the Operating Permit requirements to	been met?	🗆 Yes 🔲 No	

Any "no" answer indicates Noncompliance.

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

Inspect Minnesota & Midwest Soil Testing

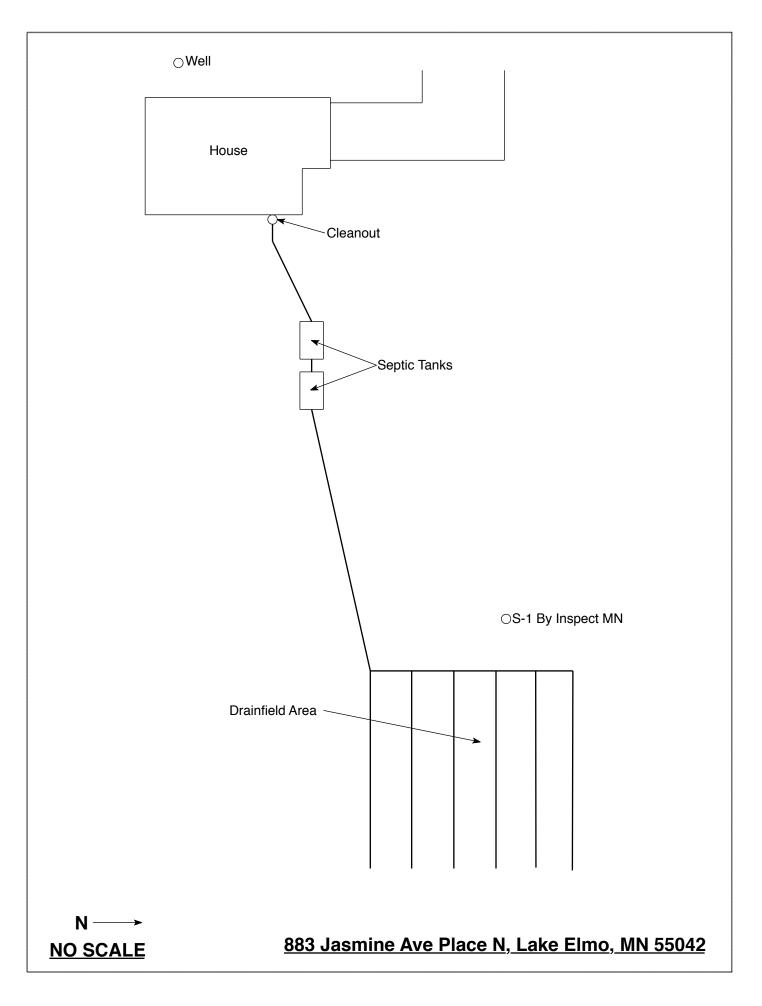
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: August 12, 2019	Time: 12:00 PM						
Property Address: 883 Jasmine Ave Place N, Lake Elmo, MN	Zip: 55042						
Property Owner: Invitation Homes	Phone: 651-355-1850						
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 Other At-grade	Other Alternative system Experimental system Cesspool system Other system						
Are the tank maintenance covers accessible? Yes No *If performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of t	ers should be made accessible to						
Ĩ	Tank size (gals.): 2-1250						
	sidents in home?						
Number of bedrooms? 5Are all floors drained by g							
Garbage disposal? Whirlpool bath?	Ŷ						
More than one system (laundry, etc.)? Unknown							
Does this property have any footing drain tiles connected to the septic system? Unknown							
Are any buildings on this property such as garages or out-buildings connected to this system? Unknown							
Are there any additional systems on this property serving other buildings? Unknown							
Location of septic system on lot? East Side							
	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? If yes, explain:Unknown							
When was the system last pumped? Unknown Name of pum	per: Unknown						
How often pumped in previous years? Unknown Is system	n on a monitoring plan? N						
Have you received notices from any government agency concerning							
Is your property located in a shoreland management area? N							
Do you have any additional information that should be given to th	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:



Soil Observations Log

Location of Project: 883 Jasmine Ave Place				ace N,	Lake El	mo, MN 5504	2	
Ob			Inspect Minnesota			Date:	8/12/19	
C	lassific	ation System:	USDA					
	Soil	Observation:	1		Soil C	bservation:		
Surf Elevat Obser	ion of	-	nd surface as last field trench	Surface Elevation of Observation				
Depth In Inches	Rock %	<u>Soils</u> E	ncountered	Depth In Inches	Rock %	<u>Soils</u>	<u>Encountered</u>	
0-8 8-28 28-48		10YR 4 10YR 4/4	2 Silt Loam Silt Loam Silt Loam With 10YR 6/2 Redox					
28"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil (Observation Or Redox	
Same	Elevatio	n Of Observatio	n Relative To System		Elevatio	n Of Observati	on Relative To System	
-24"	Depth T	o Bottom Of Dis	stribution Media		Depth T	o Bottom Of D	istribution Media	
	Of Sepa				Of Sepa			
End		Observation At:	48"	End Of		servation At:		
		dox Present At:	28"			x Present At:		
Standing Water Present At: None Standing Water Present At:								

Bottom Of Distribution Medium At: 24 inches

Signature:

Afren Va



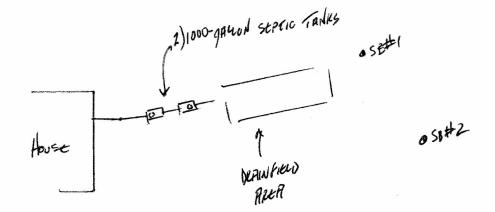
Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Boring #1 Elevation:	Boring #2 Elevation:	
0-6 10YR 4/4 dark yellowish brown loam -36 10YR 4/4, 5/4 yellowish brown silty clay loam. Redoximorphic mottling at 18".	0-6 10YR 4/4 dark yellowish brown loam -36 10YR 4/4, 5/4 yellowish brown silty clay loam. Redoximorphic mottling at 18".	

Address 883 Jasmine Av Pl, Lake Elmo

Sketch:

North



Comments: <u>Benchmark = top of septic tank.</u> Assumed elevation = 100.0'. The system consist of 2) 1000gallon septic tanks and gravity drainfield. Soil borings indicated loam and silty clay loam soils with redoximorphic mottling observed at 18". The drainfield does not meet the required two-foot vertical separation from seasonally saturated soils, therefore the system is classified as noncompliant, failure to protect groundwater.

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