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 SYST	EM (SSTS) COMPLIANCE REPORT
Date: 1/30/17 & 1/31/17 Time: 1:45 PM & 10:00 A	AM Owner: Royal Golf Club
Inspection Address: 11455 20 th St N, Lake Elmo, MN	Site Conditions: 6" Snow 30" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system. This very old system (install in approximately 1979) consists of two pre-cast septic tanks and a rock trench drainfield.

Predicated on my inspection of the system, it is my opinion that this system presently meets MPCA minimum compliance inspection requirements. However, once this facility is placed into full operation, Washington County will require an assessment of the effluent waste strength. Due to the type of this facility, I am expecting that this testing will indicate high strength waste. Washington County may require additional treatment components to be added to the system to reduce the waste strength.

At the time of our inspection, the top sections of the manhole risers on both tanks had deteriorated and are beginning to collapse. These risers must be replaced as soon as weather permits. Failure to replace these risers will potentially result in the system becoming an imminent threat to public safety.

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

Compliance Inspection Form
Existing Subsurface Sewage Treatment Systems (SSTS)
Doc Type: Compliance and Enforcemen
tion Control Agency (MPCA) For local tracking purposes: nents may also apply.
LUG) and system owner
7
er time Noncompliant – Notice of Noncompliance (See Upgrade Requirements on page 3)
olicable)
nent #1) – Imminent threat to public health and safety
1 (

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: <u>11455 20th St N, Lake Elmo, MN 55042</u>	Reason for inspection: <u>Building Permit</u>
Property owner: Royal Golf Club	Owner's phone: 612-868-5862
or	
Owner's representative:	Representative phone:
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-4052
Brief system description: Two pre-cast septic tanks and a rock t	rench drainfield.

Comments or recommendations:

once this facility is placed into full operation, Washington County will require an assessment of the effluent waste strength. Due to the type of this facility, I am expecting that this testing will indicate high strength waste. Washington County may require additional treatment components to be added to the system to reduce the waste strength.

At the time of our inspection, the top sections of the manhole risers on both tanks had deteriorated and are beginning to collapse. These risers must be replaced as soon as weather permits. Failure to replace these risers will potentially result in the system becoming an imminent threat to public safety.

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	
	Inspect Minnesota, Midwest Soil Testing	License number:	L2896	
Inspector signatur	e: Brian Humpal	Phone number:	651-492-7550	
Necessary or Locally Required Attachments				

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

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

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
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 indicates the system is an Imminent Threat to Public Health and Safety.		 Generation of the second second

Comments/Explanation:

None of the above found.

A soil boring over the drainfield indicated no signs of ponding or black/grey soils.

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"
Any "yes" answer above indicates the system is Failing to Protect Groundwater.		Unable to verify (See Comments/Explanation)
		Other methods not listed (See Comments/Explanation)

Comments/Explanation:

At the time of our inspection, the top sections of the manhole risers on both tanks had deteriorated and are beginning to collapse. These risers must be replaced as soon as weather permits. Failure to replace these risers will potentially result in the system becoming an imminent threat to public safety.

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

a. N	Maintenance hole covers are damaged, cracked, unsec	red, or appear to structurally unsound.	□ Yes*	🛛 No	Unknown
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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 \Box Yes* \boxtimes No ***System is failing to protect groundwater**

Explain:

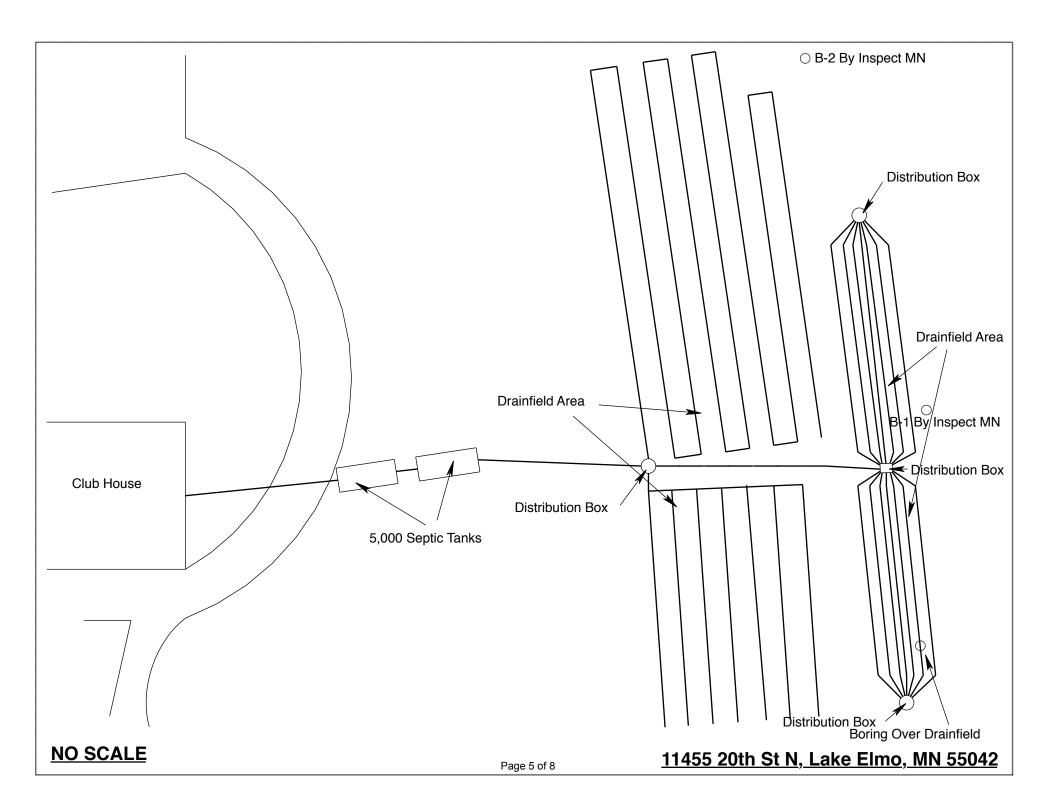
4. Soil Separation – Compliance component #4 of 5

Date of installation: 1979	Unknown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	🛛 Yes 🗌 No	Soil observation does not expire. P observations by two independent p		
Compliance criteria:		unless site conditions have been al		
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 separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No	 requirements differ. Conducted soil observation(s) (Two previous verifications (Atta Not applicable (Holding tank(s), n Unable to verify (See Comments/ Other (See Comments/Explanation) 	ch boring logs) o drainfield) 'Explanation)	
Non-performance systems built April 1,	🛛 Yes 🔲 No	– Comments/Explanation:		
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed as-build records.		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance"	🗌 Yes 🗌 No	Indicate depths of elevations	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 Attache Boring Log(s	
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 i Ordinance.	f allowed by Loca	
Operating Permit and Nitrogen B	MP* – Compliand	ce component #5 of 5 🛛 🖂 Not app	licable	
s the system operated under an Operating Per	mit? 🗌 Yes	No If "yes", A below is required		
s the system required to employ a Nitrogen BN		-		
BMP=Best Management Practice(s) speci	ïed in the system de	esign		
f the answer to both questions is "no",	this section doe	s not need to be completed		

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.*



Log Of Soil Borings

Location of Project: 1455 20th St N, Lake Elmo, MN 55042 Borings Made By: Inspect Minnesota Date: 1/30/17 & 1/31/17 Auger Used: Hand/Bucket Classification System: USDA Boring Number: 1 Boring Number: 2 Surface Elevation of Boring Same ground surface as last drainfield trench Surface Elevation of Boring Same ground surface as last drainfield trench Surface Elevation of Boring Same ground surface as last drainfield trench Depth In Inches Soils Encountered Depth In 10YR 2/2 Sandy Loam Depth In 10YR 4/3 Sandy Loam Soils Encountered 10YR 2/2 Sandy Loam 20-49 10YR 4/3 Sandy Loam 12-48 10YR 4/3 Sandy Loam 10YR 3/4 Sandy Loam 10YR 3/4 Sandy Loam 49-87 10YR 3/4 Loamy Sand (Moist) With Gravel ≈15-20% Rock Fragments Refusal At 87" 10YR 3/4 Sandy Loam With Gravel ≈15-20% Rock Fragments 10YR 3/4 Sandy Loam 10YR 3/4 Sandy Loam 87" Depth To End Of Boring Or Redox 86" Depth To End Of Boring Or Redox 86" 87" Depth To End Of Boring Or Redox 86" Depth To End Of Boring Or Redox 86" 33" Of Separation 232" Of Separation 232" 07 Separation -54" Depth To Bottom	1 1						
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Bottom Of Distribution Medium At: 54 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 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 # 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	



Minnesota Pollution Control Agency

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

Steven Giddings, Manager Prevention and Solid Waste Management Section