Inspect Minnesota & Midwest Soil Testing							
P.O. Box 383 Hugo, MN 55038 Brian Humpal							
651-492-7550/Brian@m	idwestsoiltesting.com	MPCA Licensed Designer & Inspector	r				
SUBSURFACE SEWA	AGE TREATMENT S	SYSTEM COMPLIANCE REPOR	<u>T</u>				
Date: June 14, 2016Time: 10:00 AMOwner: River Country Cooperative							
Inspection Address: 4201 Manning Ave N, Lake Elmo, MN 55042							
REPORT SUMMARY							

I have performed an "MPCA Compliance Inspection" on this septic system. This system consists of three pre-cast septic tanks, a pre-cast lift tank, and a rock trench drainfield. This system is currently hydraulically overloaded with frequent pumping required to prevent effluent from discharging onto the ground surface.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B) because of the surface discharge. This system is an imminent threat to public health and safety per MPCA rule 7080.1500 Subp. 4(A). The drainfield <u>does</u> have the required three foot separation to the limiting soil conditions.

It is my understanding that municipal sewer services will be available to this property within the next 18 months. Since the connection to municipal services is imminent, the following interim actions could be considered: add flow buffering controls to the lift pump, increase the frequency of pumping, reduce wastewater flow, or convert the system to a holding tank system. At the time of this inspection, we were requested to turn off the lift pump; the system is currently being used as a holding tank system.

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 <u>verify</u> the County's position.

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

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)
5 au, mi 55155 4194	Doc Type: Compliance and Enforcement
Instructions: Inspection results based on Minnesota requirements and attached forms – additional local re	
Submit completed form to Local Unit of Governm within 15 days	ent (LUG) and system owner
System Status System status on date (mm/dd/yyyy):6/1	W2016
Compliant – Certificate of Comp (Valid for 3 years from report date, unless frame outlined in Local Ordinance.)	— · ·
Reason(s) for noncompliance (check a	l applicable)
☐ Impact on Public Health (Compliance C	mponent #1) – Imminent threat to public health and safety
	ce Component #3) – Imminent threat to public health and safety
Tank Integrity (Compliance Component	

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:	4201 Manning Ave N, Lake Elmo, MN 55042	Reason for inspection:	County Request
Property owner:	River Country Cooperative	Owner's phone:	
or			
Owner's represent	ative:	Representative phone:	
Local regulatory a	uthority: Washington County	Regulatory authority pho	one: 651-430-4052
Brief system descr	iption: Three pre-cast septic tanks, a pre-cast lift	tank, and a rock trench drainfie	eld.
Commonto or rooo	mmondations:		

Comments or recommendations:

This system is currently hydraulically overloaded with frequent pumping required to prevent effluent from discharging onto the ground surface.

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 signature	: 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 Information	n, Disclaimer, License

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

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

Other methods not listed (See Comments/Explanation)

Comments/Explanation:

This system is currently hydraulically overloaded with frequent pumping required to prevent effluent from discharging onto the ground surface.

2. Tank Integrity – Compliance component #2 of 5

an Imminent Threat to Public Health and Safety.

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes 🛛 No
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.	
Sewage tank(s) leak below their designed operating depth.	🗌 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 tanks - 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

а	Maintenance hole covers are damaged	cracked unsecured	or appear to structurally	hunsound		
a.	Intaintenance noie covers are damaged	i, ciackeu, unsecuieu,	or appear to structurally	unsound.		

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:

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

Explain:

Inspector initials/Date: 6/14/2016

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1999	Unknown	Verification method(s):
Shoreland/Wellhead protection/Food Beverage Lodging?	🛛 Yes 🗌 No	Soil observation does not expire. Previous soil
Compliance criteria:	r	observations by two independent parties are sufficient unless site conditions have been altered or local
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 logs) Two previous verifications (Attach boring logs) 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/Explanation) Other (See Comments/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	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/bedrock C. System separation
Any "no" anowar above indicates t	ha avatam ia	D. Required compliance separation*
Any "no" answer above indicates the Failing to Protect Groundwater.	ne system is	*May be reduced up to 15 percent if allowed by Local Ordinance.
Operating Permit and Nitrogen B		·
Is the system operated under an Operating Peri		
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	esign
If the answer to both questions is "no",	this section does	s not 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

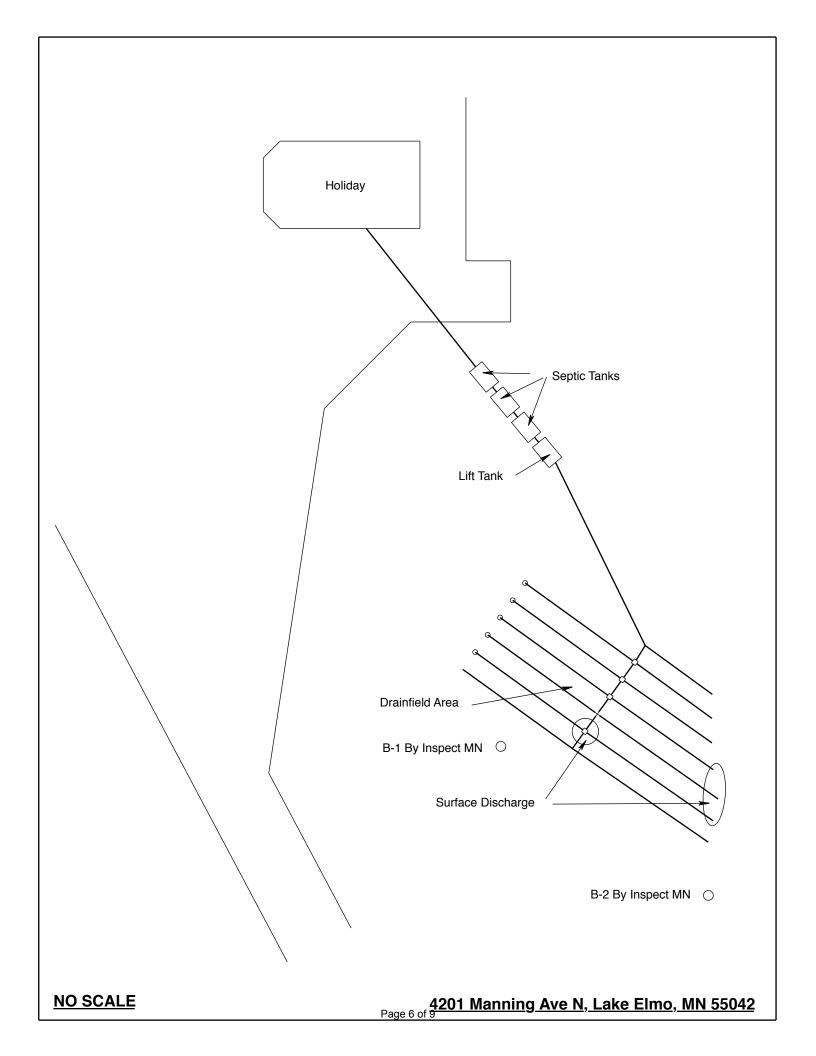
<u>Inspect Minnesota & Midwest Soil Testing</u>

Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: June 14, 2016	Time: 10:00 AM					
Property Address: 4201 Manning Ave N, Lake	Elmo, MN Zip: 55042					
Property Owner: River Country Cooperative	Phone:					
Tank(s)Tank(s)MaterialSoil \square Septic 3 \square Fiberglass \square R \square Aerobic \square Plastic \square G \square Lift \square Metal \square C \square Holding \square Concrete \square Se \square Other: \square Block \square M	Creatment System Other ck trench Alternative system avelless trench Experimental system amber trench Cesspool system epage bed Other system ound					
Are the tank maintenance covers accessible? \boxtimes performed through the maintenance holes. Main the ground surface to facilitate access and proper	enance hole covers should be made accessible to					
Year house built: 1999 Year septic install	ed: 1999 Tank size (gals.): 3-1000					
How long has seller owned the property?	Number of residents in home?					
Number of bedrooms?Are all flo	ors drained by gravity?					
Garbage disposal?	Whirlpool bath?					
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles co Are any buildings on this property such as garage						
wash is apparently connected to the system						
Are there any additional systems on this property	serving other buildings?					
Location of septic system on lot? Southeast Side						
Location of water well on lot?	Is the well a deep well?					
Have you ever experienced any problems with th	e 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:						
	1					
When was the system last pumped?Name of pumper: Meyers						
How often pumped in previous years?	Is system on a monitoring plan?					
Have you received notices from any government agency concerning this system?						
Is your property located in a shoreland managem						
Do you have any additional information that show	Id be given to the new owner?					

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.



Log Of Soil Borings

Location of Project: 4201 Manning Ave N, Lake Elmo, MN 55042								
						6/14/16		
		Hand/Bucket	Class	sifica	ation System:	USDA		
Bo	oring Number:				ring Number:	2		
Surface Elevation of Boring	Same grou	Same ground surface as last drainfield trench		e Same ground surface as las drainfield trench		Boring dra		
Depth In Inches	<u>Soils E</u>	ncountered	Inches		<u>Soils En</u>	ncountered		
0-20 20-40 40-59 59-94	10R 4/ 10YR 4/4 10YR 5/4 Mediu	/2 Silt Loam 3 Clay Loam 4 Sandy Loam im Coarse Sand With ine Sand Pockets	Depth In InchesSoils Encountered0-1710YR 2/2 Silt Loam17-2310YR 4/3 Clay Loam23-4010YR 4/4 Sandy Loam40-5310YR 4/4 Medium Coarse Sand With ≈15-20% Gravel53-9210YR 5/4 Medium Coarse Sand Layers An Few Iron Nodules		3 Clay Loam Sandy Loam oarse Sand With Gravel D% Gravel m Coarse Sand With Sand Layers And			
94" De	epth To End Of B	oring Or Redox	92"	Dep	oth To End Of Bo	oring Or Redox		
Same Ele	evation Of Boring	g Relative To System	Same	Elev	ation Of Boring	Relative To System		
	epth To Bottom (Separation	Df Distribution Media	-54" ≥38"		o <u>th To Bottom O</u> Separation	f Distribution Media		
Fr	nd Of Boring At:	94"		End	d Of Boring At:	92"		
	dox Present At:	None			lox Present At:	None		
	ater Present At:		Standing		ter Present At:	None		

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

License # L2896

Date of Issuance: Maintainer License Expires: Installer License Expires: Adv Inspector License Expires: Adv Designer License Expires:

Oct 28, 2015 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

Designated Certified Individual (DCI)	Brian L. Humpal	Christopher R. Uebe	Christopher R. Uebe				
Ĩ Ď	B	B	B	Б	Ы	Ъ	Ъ

Certificatio Expires		10/15/2017	10/15/2017	 10/15/2017		
	-			 	\mathbf{U}	\sim

Ä



Minnesota Pollution Control Agency

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



Road North

Steven Giddings Manager Environmental Business Assistance Section