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 SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 4041 Dorchester Dr, Woodbury, MN 55129

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, and have reviewed the history of the system with the owner, Bob Mercado. I contacted Washington County and was advised that there are no records for this system. This older system (installed in 1988) consists of a pre-cast septic tank and a rock trench drainfield.

Predicated on my inspection of the system and my review of the history of the system with the owner, 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.

Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	Doe Type. Somplance and Emolechism
Instructions: Inspection results based on Minnesota Pollution Control Agency (MF requirements and attached forms – additional local requirements may also apply.	PCA) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system own within 15 days	er
System Status	
System status on date (mm/dd/yyyy): _5/12/2016	
	ncompliant – Notice of Noncompliance e Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent the Other Compliance Conditions (Compliance Component #3) – Immine Tank Integrity (Compliance Component #2) – Failing to protect group Other Compliance Conditions (Compliance Component #3) – Failing Soil Separation (Compliance Component #4) – Failing to protect group Operating permit/monitoring plan requirements (Compliance Component	ent threat to public health and safety ndwater to protect groundwater undwater
Property Information Parcel ID# or Sec/Twp	-
· · · · · · · · · · · · · · · · · · ·	son for inspection: Property Sale
Property owner: Bob & Kim Mercado Owr	ner's phone: 651-497-7470
Owner's representative: Rep	resentative phone:
Local regulatory authority: Washington County Reg	ulatory authority phone: 651-430-4052
Brief system description: Pre-cast septic tank and a rock trench drainfield. Comments or recommendations:	
Certification I hereby certify that all the necessary information has been gathered to determine determination of future system performance has been nor can be made due to un possible abuse of the system, inadequate maintenance, or future water usage.	
	tification 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	
	s per local ordinance
✓ Other information (list): Report Summary, Property Information, Disclaime	'

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 ☑ Homeowner testimony (See Comments/Explanation) □ "Black soil" above soil dispersal system 			
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ System requires "emergency" pumping ☐ Performed dye test			
	Any "yes" answer above indicate an Imminent Threat to Public He		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation: None of the above found.					
2.	Tank Integrity – Compliance c	omponent #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. Seepage pits meeting 7080.2550 may be		Examined construction recordsExamined Tank Integrity Form (Attach)			
	compliant if allowed in local ordinance.		Observed liquid level below operating depth			
	Sewage tank(s) leak below their	☐ Yes ⊠ No	Examined empty (pumped) tanks(s)			
	designed operating depth. If yes, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil"			
	Any "yes" answer above indi	cates the	 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 			
	system is Failing to Protect C					
	Comments/Explanation:					
	Lowered underwater camera into tank	- baffles and tank wal	Is OK.			
_						
3.	Other Compliance Conditio	ns – Compliance co	Imponent #3 of 5			
	a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown					
	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 *System is failing to protect groundwater				
	Explain:					

Property address: 4041 Dorchester Dr, Woodbury, MN 55129

Inspector initials/Date: 5/12/2016

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1.	Soil Separation – Compliance compor	nent #4 o	of 5				
	Date of installation: 1988	☐ Unkr	nown	V	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?		□No	S	oil observation does not expire. P		
	Compliance criteria:			u	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 borin Two previous verifications (Attach boring log 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. 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	С	omments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			_			
	"Experimental", "Other", or "Performance"	☐ Yes	□ No	lr	ndicate depths of elevations	1	
	systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			<u>A</u> .	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/bedrock System separation		
				D.	Required compliance separation*		
Any "no" answer above indicates the system is Failing to Protect Groundwater. *May be reduced up to 15 percent if allowed by Local Ordinance.					f allowed by Local		
5.	Operating Permit and Nitrogen B	MP* – C	Compliand	e com	ponent #5 of 5 🔀 Not app	licable	
	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							
	a. Operating Permit number: Have the Operating Permit requirements been met?				□ Ves □ No		
					☐ Yes ☐ No		
b. Is the required nitrogen BMP in place and properly functioning?							
	Any "no" answer indicates Noncom	pliance.					

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, repaired, 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.

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Inspector initials/Date: 5/12/2016

Inspect Minnesota & Midwest Soil Testing

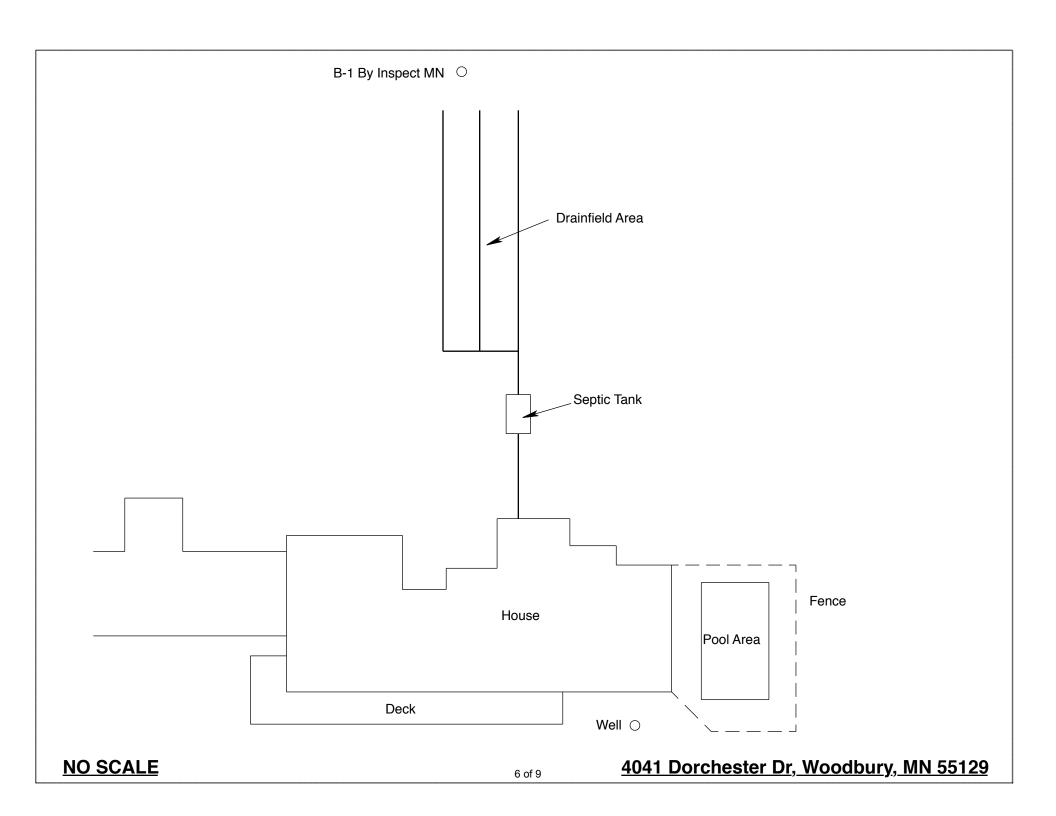
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 12, 2016	Time: 1:00 PM				
Property Address: 4041 Dorchester Dr, Woodbury	z, MN Zip: 55129				
Property Owner: Bob & Kim Mercado	Phone: 651-497-7470				
	elless trench Descrimental system Cesspool system Descrimental system Cesspool system Descrimental system Cesspool system age bed Descrimental system Cesspool system age bed Descrimental system Cesspool system Description Des				
Are the tank maintenance covers accessible? \boxtimes Yes \square No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.					
Year house built: 1988 Year septic installed	: 1988 Tank size (gals.): 1500				
-	Number of residents in home? 5				
	s drained by gravity? Lower Pumped				
	hirlpool bath? N				
More than one system (laundry, etc.)? N	•				
Does this property have any footing drain tiles connected to the septic system? N Are any buildings on this property such as garages or out-buildings connected to this system? N					
Are there any additional systems on this property serving other buildings? N					
Location of septic system on lot? North Side					
Location of water well on lot? South Side	Is the 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? N If yes, explain:					
When was the system last pumped? 2015	Name of pumper: Pinky's Sewer Service				
How often pumped in previous years? Every 2 Is system on a monitoring plan? N					
Have you received notices from any government agency concerning this system? N					
Is your property located in a shoreland management area? Y					
Do you have any additional information that should be given to the 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: Bob Mercado's Signature On File Date: 5/12/2016



Log Of Soil Borings

Location of Project: 4041 Dorchester Dr, Woodbury, MN 55129					
Borings Made By: Inspect Minnesota			Date:		5/12/16
Auger Used: Hand/Bucket		Classi	fication System:	USDA	
Boring Number: 1		Boring Number:			
Surface Elevation of Boring Same ground surface a drainfield trench			Surface Elevation of Boring		
Depth In Soils Encountered		Depth In Inches	Soils Er	Soils Encountered	
0-12 12-30 30-42 42-50 50-70 70-96	Soils Encountered Soils Encountered				
96" Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox			
Same Elevation Of Boring Relative To System		Elevation Of Boring Relative To System			
-56" Depth To Bottom Of Distribution Media ≥40" Of Separation		Depth To Bottom Of Distribution Media Of Separation			
	End Of Boring At:	96"	End Of Boring At:		
Redox Present At: None		Redox Present At:			
Standing Water Present At: None			Standing	Water Present At:	

Bottom Of Distribution Medium At: 56 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.

Sulbsurface Sewage Treatment Systems

Non-transferable



License # L2896

Maintainer License Expires:

Adv Inspector License Expires:

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

Adv Designer License Expires:

Date of Issuance:

Installer License Expires:

Certification

Inspect Minnesota, Midwest Soil Testing

Expires

10/15/2017 10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

Designated Certified

Individual (DCI) Brian L. Humpal Brian L. Humpal Brian L. Humpal Brian L. Humpal Brian L. Humpal

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Designer (Certified) Inspector (Certified)

Christopher R. Uebe Christopher R. Uebe

03/04/2018

03/04/2018

Steven Giddings Manager Environmental Business Assistance Section



Minnesota Pollution Control Agency

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