#### **Inspect Minnesota & Midwest Soil Testing**

P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal

MPCA Licensed Advanced Inspector

#### SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

**Inspection Address:** 7040 117th Street N, Grant, MN 55110

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Kim Duea, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1984) consists of a precast 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)(D) because of the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils. The system is an imminent threat to public health and safety per MPCA rule 7080.1500 Subp. 4(A) because of the discharge of effluent to the ground surface. Washington County issued sewage treatment permit #3367 for the installation of this septic 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



## **Compliance Inspection Form**

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPC requirements and attached forms – additional local requirements may also apply.	A) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owner	
within 15 days	
System Status	
System Status System status on date (mm/dd/yyyy): 7/17/2017	
	ompliant – Notice of Noncompliance  Ipgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  ☐ Impact on Public Health (Compliance Component #1) – Imminent three ☐ Other Compliance Conditions (Compliance Component #3) – Imminent	threat to public health and safety
☐ Tank Integrity (Compliance Component #2) – Failing to protect ground	
<ul> <li>☐ Other Compliance Conditions (Compliance Component #3) – Failing to</li> <li>☑ Soil Separation (Compliance Component #4) – Failing to protect groun</li> </ul>	-
	awater
☐ Operating permit/monitoring plan requirements (Compliance Componer	nt #5) – Noncompliant
	nt #5) – Noncompliant
Operating permit/monitoring plan requirements (Compliance Componer	
Operating permit/monitoring plan requirements (Compliance Componer  Property Information Parcel ID# or Sec/Twp/R	ange:
□ Operating permit/monitoring plan requirements (Compliance Componer  Property Information Parcel ID# or Sec/Twp/R  Property address: 7040 117 <sup>th</sup> Street N, Grant, MN 55110 Reason	ange: n for inspection: <u>Property Transfer</u>
□ Operating permit/monitoring plan requirements (Compliance Componer  Property Information Parcel ID# or Sec/Twp/R  Property address: 7040 117 <sup>th</sup> Street N, Grant, MN 55110 Reason	ange:
Property Information Property address: 7040 117 <sup>th</sup> Street N, Grant, MN 55110 Property owner: Mark & Kim Duea Owner's representative: Representative:	ange:  n for inspection: Property Transfer 's phone: 651-426-3249 sentative phone:
Property Information Property address: 7040 117 <sup>th</sup> Street N, Grant, MN 55110 Property owner: Mark & Kim Duea Owner's representative: Local regulatory authority: Washington County  Property (Compliance Componer Parcel ID# or Sec/Twp/R Reason Owner Owner Repre	ange:
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Property address: 7040 117th Street N, Grant, MN 55110

Inspector initials/Date: 07/17/2017

1.	Impact on Public Health - Compliance component #1 of 5					
	Compliance criteria:		Verification method(s):			
	System discharge sewage to the ground surface.	⊠ Yes □ No	<ul><li>☑ Searched for surface outlet</li><li>☑ Searched for seeping in yard/backup in home</li></ul>			
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	<ul> <li>☑ Excessive ponding in soil system/D-boxes</li> <li>☑ Homeowner testimony (See Comments/Explanation)</li> <li>☐ "Pleak soil" above soil dispersal system</li> </ul>			
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	<ul> <li>"Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>			
	Any "yes" answer above indicate an Imminent Threat to Public Hea		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:					
	Effluent is surfacing to the ground surfa	ce.				
2.	Tank Integrity – Compliance co	mnonent #2 of 5				
<u></u>		mponent #2 of o				
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	<ul> <li>☐ Probed tank(s) bottom</li> <li>☐ Examined construction records</li> </ul>			
	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.		<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other methods not listed (See Comments/Explanation)</li> </ul>			
	Comments/Explanation:					
3.	Other Compliance Condition	s – Compliance co	mponent #3 of 5			
	Maintenance hole covers are damage	ed, cracked, unsecured	d, 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 ☐ Unkno *System is an imminent threat to public health and safety					
	Explain:					
	c. System is non-protective of ground w *System is failing to protect ground		s as determined by inspector ☐ Yes* ☐ No			
	Explain:					
	- <del> </del>					

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Property address: 7040 117th Street N, Grant, MN 55110

Inspector initials/Date: 07/17/2017

4.	Soil Separation — Compliance compor	nent #4 o	of 5				
	Date of installation: 1984	☐ Unkr	nown	٧	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No	S	oil observation does not expire. Pr bservations by two independent pa		
	Compliance criteria:			u	nless 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:	☐ Yes	∐ No	_	requirements differ.  Conducted soil observation(s) (Attach boring logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation)		
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.						
	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	C	omments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes	□No	Ir	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)			_A.	Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			C	Periodically saturated soil/bedrock  System separation		
	Any "no" answer above indicates t	he syste	em is		D. Required compliance separation*  *May be reduced up to 15 percent if allowed by Local  * The second in the separation is allowed by Local in the second in the sec		
	Failing to Protect Groundwater.			Ordinance.			
5.	Operating Permit and Nitrogen B	<b>MP*</b> – C	Complian	ce com	ponent #5 of 5 🔀 <b>Not app</b>	licable	
	Is the system operated under an Operating Per			⊠ No	If "yes", A below is required		
	Is the system required to employ a Nitrogen BMP?			⊠ No	If "yes", B below is required		
	BMP=Best Management Practice(s) specif	ied in the	system de	esign			
	If the answer to both questions is "no",	this sec	tion doe	s not i	need to be completed.		
	Compliance criteria				<del> </del>		
	a. Operating Permit number:				☐ Yes ☐ No		
	Have the Operating Permit requirements I	been met?	?		☐ 1 <i>C2</i> ☐ IAO		
	b. Is the required nitrogen BMP in place and	properly	functionin	g?	☐ Yes ☐ No		
	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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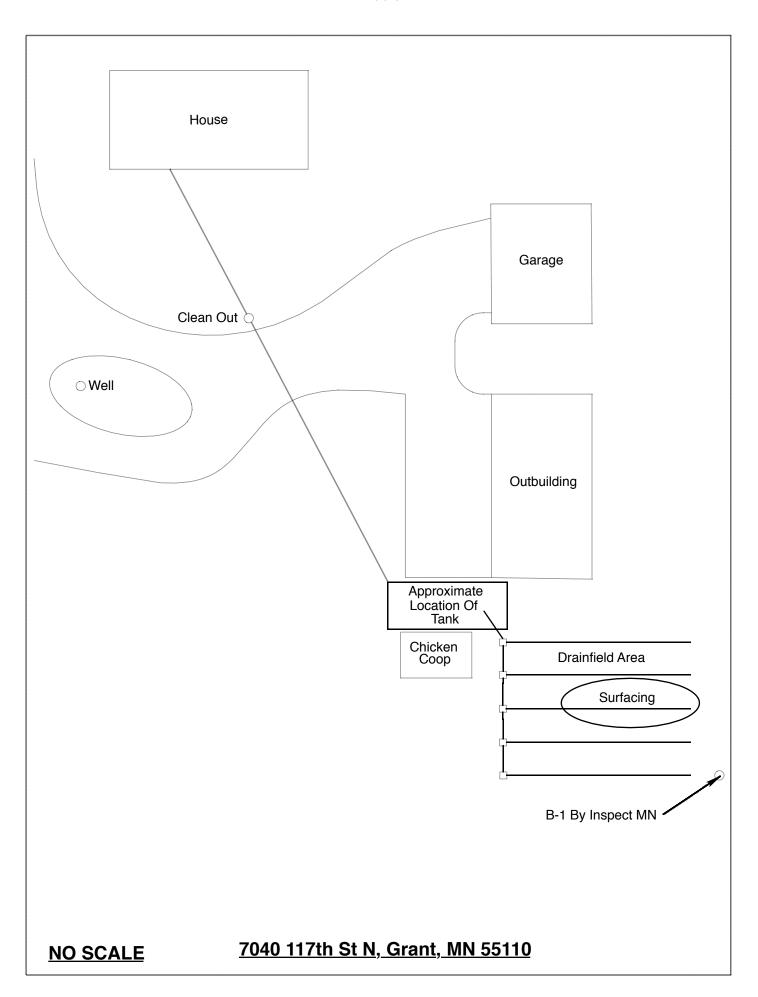
## Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: July 17, 2017	Time: 10:45 AM						
Property Address: 7040 117 <sup>th</sup> Street N, Grant, MN Zip: 55110							
<u> </u>	Zip: 55110						
Property Owner: Mark & Kim Duea	Phone: 651-426-3249						
$\begin{array}{ccc} \underline{Tank(s)} & \underline{Tank(s)Material} & \underline{Soil\ Trea} \\ \hline & \underline{\boxtimes} Septic\ 1 & \underline{\square} Fiberglass & \underline{\boxtimes} Rock\ t \end{array}$	tment System Other rench Alternative system						
	lless trench Experimental system						
	per trench Cesspool system						
Holding Concrete Seepag							
Other: Block Mound							
Other At-gra	de						
Are the tank maintenance covers accessible?   Yes	⊠ No *If no, proper maintenance must be						
performed through the maintenance holes. Maintena							
the ground surface to facilitate access and proper ma							
Year house built: 1951 Year septic installed:	(C)						
	Number of residents in home? 5-7						
	drained by gravity? Y						
C I	nirlpool bath? N						
More than one system (laundry, etc.)? N							
Does this property have any footing drain tiles conne	cted 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? Northwest Side							
Location of water well on lot? North 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? Y If yes, explain: Replaced line between house and tank							
When was the system last pumped? 2015	Name of pumper: Pinky's Sewer Service						
How often pumped in previous years? Every 2-3	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? N							
Do you have any additional information that should be given to the new owner? N							
20 you have any additional information that should be given to the new owner: IV							

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: Kim Duea's Signature On File Date: 07/17/2017



#### **Log Of Soil Borings**

Location of Project: 7040 117th Street N, Grant, MN 55110					
Borings Made By: Inspect		Inspect Minnesota	Date:		7/17/17
Auger Used: Hand/Buck		Hand/Bucket	Classification System:		USDA
Boring Number: 1			Boring Number:		
FIEVATION OF S		ind surface as last ofield trench	Surface Elevation of Boring	of	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered	
0-8 8-19 19-34 34-46	Solis Encountered				
19"	Depth To End Of Boring Or Redox		]	Depth To End Of Bo	oring Or Redox
Same	Same Elevation Of Boring Relative To System		E	Elevation Of Boring	Relative To System
-20"		Of Distribution Media			f Distribution Media
=0" Of Separation		(	Of Separation		
	End Of Boring At:	46"		End Of Boring At:	
Redox Present At: 19"			Redox Present At:		
Standing Water Present At: None			Water Present At:		

Bottom Of Distribution Medium At: 20 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 1<sup>st</sup> through April 1<sup>st</sup>) 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



St. Paul. Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section