Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Inspection Address: 11335 Grenelefe Ave N, Grant, MN 55110

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system, have reviewed the history of the system with the Owner, Roy Wong, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1984) consists of a pre-cast septic tank, a pre-cast lift 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. This system is not an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A). Washington County issued sewage treatment permit #3175 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 verify 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



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	sults based on Minnesota Pollution Control Agency (Norms – additional local requirements may also apply.	MPCA) For local tracking purposes:		
Submit completed form to within 15 days	Local Unit of Government (LUG) and system ov	vner		
System Status				
System status on da	te (mm/dd/yyyy): <u>9/7/2016</u>			
	from report date, unless shorter time (S	oncompliant – Notice of Noncompliance ee Upgrade Requirements on page 3)		
☐ Impact on Public ☐ Other Complian ☐ Tank Integrity (0 ☐ Other Complian ☑ Soil Separation	compliance (check all applicable) c Health (Compliance Component #1) – Imminent in the Compliance Component #3) – Imminent in Compliance Component #2) – Failing to protect groupe Conditions (Compliance Component #3) – Failing (Compliance Component #4) – Failing to protect group it/monitoring plan requirements (Compliance Component Pailing to protect group plan requirements (Component Pai	nent threat to public health and safety oundwater og to protect groundwater roundwater		
	3 to 1 3 to 1 to 1 to 1 to 1 to 1 to 1 t			
Property Informatio	Devel ID# or Coo/Tv	Wa (Dense)		
Property owner: Roy Won		Reason for inspection: Owner's Request Owner's phone: 651-503-2152		
or				
Owner's representative:	Re	Representative phone:		
Local regulatory authority:	Washington County Re	Regulatory authority phone: 651-430-4052		
	A pre-cast septic tank, a pre-cast lift tank, and rock	trench drainfield.		
Comments or recommendat	ions.			
Certification				
determination of future syste	ecessary information has been gathered to determinem performance has been nor can be made due to made quate maintenance, or future water usage.			
Inspector name: Brian Hu	ımpal C	ertification number: _L5342		
Business name: Inspect N	Minnesota, Midwest Soil Testing	License number: L2896		
Inspector signature: Bean Humpal		Phone number: 651-492-7550		
Necessary or Locally	Required Attachments			
⊠ Soil boring logs		ms per local ordinance		
	-	·		
` '				

1.	lm	Impact on Public Health — Compliance component #1 of 5				
2.	Sygro Sygro Sydw Ar an	stem discharge sewage to the bund surface. stem discharge sewage to drain tile surface waters. stem cause sewage backup into relling or establishment. ny "yes" answer above indicates of Imminent Threat to Public Heal remembers/Explanation: one of the above found.	th and S	No No Stem is Safety.		rification method(s): Searched for surface outlet Searched for seeping in yard/backup in home Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)
<u></u>	Sy ces	ompliance criteria: stem consists of a seepage pit, sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be impliant if allowed in local ordinance.	☐ Yes	⊠ No		rification method(s): Probed tank(s) bottom Examined construction records Examined Tank Integrity Form (Attach) Observed liquid level below operating depth
3.	If y AI Sy Co Lor Liff	wage tank(s) leak below their signed operating depth. res, which sewage tank(s) leaks: res, which sewage tank(s) leaks: restem is Failing to Protect Green to Protect Green to Protect Green tanks and the pump and alarm were operational at the Compliance Conditions.	baffles a	nd tank walls OK.		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)
	 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: c. 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: 11335 Grenelefe Ave N, Grant, MN 55110

Inspector initials/Date: 9/7/2016

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • 3 of **TO**Y 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

4.	Soil Separation – Compliance compo	nent #4 d	of 5				
	Date of installation: 1983	Unkı	nown	V	/erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No		Soil observation does not expire. Probservations by two independent pa		
	Compliance criteria:				inless site conditions have been ali	tered 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 log) 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.	vo-foot vertical Unable to verify (See		☐ Unable to verify (See Comments/☐ 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	C	Comments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
-	"Experimental", "Other", or "Performance"	☐ Yes	□No	<u>l</u> i	ndicate 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				Periodically saturated soil/bedrock System separation		
	saturated soil or bedrock.						
5.	Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B			*	 Required compliance separation* May be reduced up to 15 percent in Ordinance. Apponent #5 of 5 Not app 		
	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		☐ Yes		-		
	BMP=Best Management Practice(s) specif	ied in the	system de	sign			
	If the answer to both questions is "no",	this sec	ction doe	s not	need to be completed.		
	Compliance criteria						
	a. Operating Permit number: Have the Operating Permit requirements been met?				☐ Yes ☐ No		
b. Is the required nitrogen BMP in place and properly functioning? ☐ Yes ☐ No			☐ Yes ☐ No				
	Any "no" answer indicates Noncom	pliance).				

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Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

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,

WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 317.5

spection of Installation Must Be Made By the Building Official Before Any Portion of System Is Covered Contact Planning Department, 439-3220 x 176, 24 HOUR NOTICE REQUIRED

wner ROY KONG
operty Description 107 7 BIK 3 NORTHRIDGE ACE
roperty Address CAFENGE AVE NO GRANT TO
se of Building: HEADE Flow Rate: H GEOPO DAT Percolation Rate: 50 mpi
eptic Tank /255 Gal. Liquid Capacity Lift Station (if needed) /555 Gal.
pe of System: TANK LIKT STATION
bsorption Trench — Square Feet Lineal Feet 4 + ラ Width Width
epth of Rock Below Lines Inches, Above Lines Inches
epth of Trench From Existing Grade — MinimumInches, MaximumInches
ecommended Number of Lines 5 21 85 (Note: Maximum Length of Individual Line is 100 Feet.)
finimum Spacing of Lines Ft. Center to Center
pecial Conditions 573 F.M. B. C.S.Z. SOLIN AREA
TESTED APPROVED LINE FROM
HOUSE TO TANKE TO BE CAST IRON. ALM
REPUBLICO FOR LIFE STATION
PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY.
Approved: Date 9-27-8
Comments left according to consection notices
tou # 42 cuple of sock - Jamette - Installer.
nstallation Approved Search Level Date 4-24-84
5 of 10

Inspect Minnesota & Midwest Soil Testing

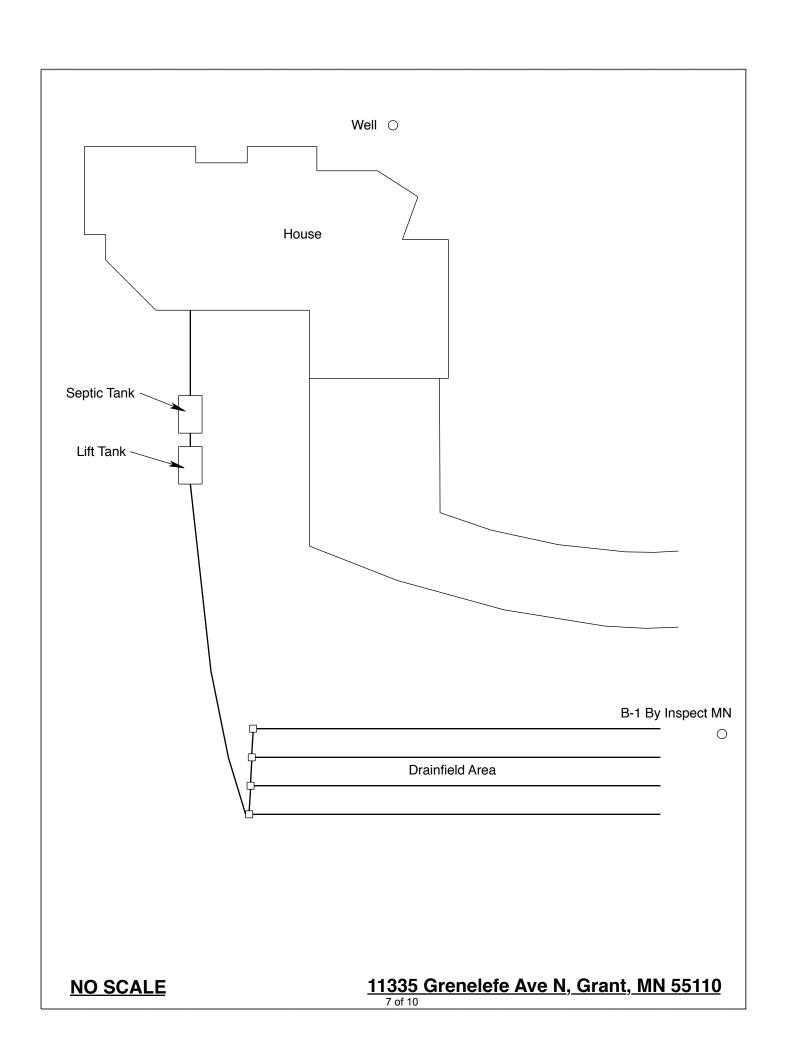
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: September 7, 2016	Time: 3:45 PM				
Property Address: 11335 Grenelefe Ave N, Grant, MN Zip: 55110					
Property Owner: Roy Wong	Phone: 651-503-2152				
1 1 -	atment System Other				
Septic 1 Fiberglass Scool	trench Alternative system				
	elless trench Experimental system				
	nber trench Cesspool system				
☐ Holding ☐ Concrete ☐ Seep☐ Other: ☐ Block ☐ Mou	age bed Other system				
Other At-gr					
Are the tank maintenance covers accessible? ⊠ Ye	s ☐ No *If no, proper maintenance must be				
performed through the maintenance holes. Mainten					
the ground surface to facilitate access and proper m					
	•				
Year house built: 1983 Year septic installed	& /				
	Number of residents in home? 2-5				
	s drained by gravity? Y /hirlpool bath? N				
C 1	niripool bath? N				
More than one system (laundry, etc.)? N	astad to the gentic greatern? N				
Does this property have any footing drain tiles conr	ected to the septic system?				
Are any huildings on this property such as garages	or out buildings connected to this 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 se	erving other buildings? N				
Location of septic system on lot? North Side					
Location of water well on lot? Southwest 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 ov					
to the system? Y If yes, explain:Replaced lift pump	and pipe.				
When was the system last pumped? 2014	Name of pumper: A&B Sanitation				
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? N					
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: Roy Wong's Signature On File Date: 9/7/2016



Log Of Soil Borings

Location of Project: 11335 Grenelefe Ave N, Grant, MN 55110							
Borings Made By: Inspect Minnesota				Date:	9/7/16		
Auger Used: Hand/Bucket			Classi	fication System:	USDA		
Boring Number: 1				Boring Number:			
Surface Elevation of Boring Same ground surface as last drainfield trench			Surface Elevation of Boring	of			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	Soils Encountered		
0-11 11-30 30-38 38-75	10YR 4/3 (Shale Pieces, Silt Calcium 10YR 4/3 (Shale Pieces, Silt Calcium (10YR 7/1 & 10YR 5/4 (Shale Pieces, Silt	3/2 Loam Clay Loam With Lenses, Iron Nodules & n Carbonate Clay Loam With Lenses, Iron Nodules & Carbonate And 7.5YR 5/8 Redox Clay Loam With Lenses, Iron Nodules & n Carbonate					
30"	Depth To End Of B	oring Or Redox]	Depth To End Of Bo	oring Or Redox		
Same	me Elevation Of Boring Relative To System		E	Elevation Of Boring	Relative To System		
-34" Depth To Bottom Of Distribution Media				f Distribution Media			
0" Of Separation		(Of Separation				
	End Of Boring At:	75"		End Of Boring At:			
	Redox Present At:	30"		Redox Present At:			
Standing	Water Present At:	None	Standing	Water Present At:			

Bottom Of Distribution Medium At: 34 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

Date of Issuance:

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

Adv Designer License Expires:

Adv Inspector License Expires: Maintainer License Expires: Installer License Expires:

Certification

Inspect Minnesota, Midwest Soil Testing

10/15/2017 Expires

10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

Designated Certified

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

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Inspector (Certified) Designer (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

Brian L. Humpal Brian L. Humpal

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