Minnesota Pollution Control Agency	Со
520 Lafayette Road North St. Paul. MN 55155-4194	Existing Sub

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA)	
requirements and attached forms – additional local requirements may also apply.	

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

System Status

System status on date (mm/dd/yyyy): 10/18/2019

Compliant – Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

_ Noncompliant − Notice of Noncompliance

For local tracking purposes:

(See Upgrade Requirements on page 3.)

Reason(s) for noncompliance (check all applicable)

- □ Impact on Public Health (Compliance Component #1) Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) Imminent threat to public health and safety
- 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

P

Property Information

arcel ID# or S	ec/Twp/Range:	17.0

17.030.21.12.0009

Property address: 7735 100 th St. North City of Grant	Reason for inspection: Property Transfer				
Property owner: Mr. Paul Guehler	Owner's phone:651-653-7350				
or					
Owner's representative:	Representative phone:				
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-6000				

Comments or recommendations:

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:	Paul Brandt	Certification number:	5182
Business name:	Soil Investigation & Design, Inc.	License number:	3263
Inspector signatur	2:	Phone number:	6512603783

Necessary or Locally Required Attachments

Soil boring logs	System/As-built drawing	Forms per local ordinance
Other information (list):		

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

Compliance criteria:		Verification method(s):			
System discharges sewage to the	🗌 Yes 🛛 No	\boxtimes Searched for surface outlet			
ground surface.		Searched for seeping in yard/backup in home			
System discharges sewage to drain	🗌 Yes 🛛 No	Excessive ponding in soil system/D-boxes			
tile or surface waters.		Homeowner testimony (See Comments/Explanation)			
System causes sewage backup into	🗌 Yes 🛛 No	"Black soil" above soil dispersal system			
dwelling or establishment.		System requires "emergency" pumping			
Any "yes" answer above indi	icates the	Performed dye test			
system is an imminent threat	t to public	Unable to verify (See Comments/Explanation)			
health and safety.		Other methods not listed (See Comments/Explanation)			

Comments/Explanation:

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)			
		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 indu	cates the	Unable to verify (See Comments/Explanation)			
system is failing to protect gr	oundwater.	Other methods not listed (See Comments/Explanation)			

Comments/Explanation:

The tank was tested using a recording data logger, water was turned off in the house and lines were allowed to drain. The test was then completed. the recording data logger showed no change in the water lervel in the tank. The results indicate that the tank is water tight.

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

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound. 🗌 Yes* 🛛 No 🗋 Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. *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 . Xes* No *System is failing to protect groundwater.

Explain:

Redox within 12 inches of the bottom of the distribution trenches.

4. Soil Separation - Compliance component #4 of 5

Date of installation:	6/1/1995	🛛 Unkno	own	Verification method(s):			
Shoreland/Wellhead protect lodging?	🗌 Yes 🛛 No		Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local				
	A 11 4 4000 I			\square Conducted soil observation(s) (At	toob boring logo)		
not located in Shoreland	April 1, 1996, and or Wellhead	⊠ Yes [_] NO	\square Two previous verifications (Attack	boring logs)		
Protection Area or not ser	rving a food,				drainfield)		
beverage or lodging estat	blishment:						
Drainfield has at least a two	wo-foot vertical				xpianation)		
saturated soil or bedrock.	penodically			Other (See Comments/Explanation)			
Non-performance system	s built April 1,	□ Yes [X No	Comments/Explanation:			
1996, or later or for non-p systems located in Shore Protection Areas or servir beverage, or lodging esta	erformance land or Wellhead ng a food, blishment:			Surface 990			
Drainfield has a three-foo separation distance from saturated soil or bedrock.	t vertical periodically *						
"Experimental", "Other", o	r "Performance"	🗌 Yes [No	Indicate depths or elevations			
systems built under pre-2 or V systems built under 2	008 Rules; Type IV 2008 Rules (7080.			A. Bottom of distribution media	987.5		
2350 or 7080.2400 (Advanced Inspector							
License required)			-	B. Periodically saturated soil/bedrock	981.5		
Drainfield meets the designed vertical			-	C. System separation	3 foot		
saturated soil or bedrock.	periodically			D. Required compliance separation*	2 feet		
Any "no" answer above indicates the s failing to protect groundwater.			m is	*May be reduced up to 15 percent if Ordinance.	allowed by Local		

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 X Not applicable

Is the system operated under an Operating Permit?

Yes No If "yes", A below is required

Is the system required to employ a Nitrogen BMP? 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

~.		
b.	Is the required nitrogen BMP in place and properly functioning?	□ Yes □ No
	Have the Operating Permit requirements been met?	
a.	Operating Permit number:	

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.



Figure 1: Site Location Map

Soil Investigation & Design, Inc, 2809 78th Ave. N Brooklyn Park, Mn 55444 pbrandt@soilinvestigations.us 651-260-3783

Client: Mr. Paul Guehler Address: 7735 100th St. N. White Bear Lake, MN



Figure 2: Site Detail Map

Soil Investigation & Design, Inc, 2809 78th Ave. N Brooklyn Park, Mn 55444 pbrandt@soilinvestigations.us 651-260-3783

Client: Mr. Paul Guehler Address: 7735 100th St. N. White Bear Lake, MN



Soil Observation Log

PROGRAM	-21	Project ID: v 04.01.2019						v 04.01.2019					
Client: Mr. Pat Guehler						Location / Address: 7735 100th St. North City of Grant							
Soil parent material(s): (Check all that apply) 🛛 Outwash 🗆 Lacustrine						Loess Till I Alluvium Bedrock Organic Matter							
Landscape Po	andscape Position: (check one) 🗆 Summit 🗵 Shoulder 🗆 Back/Side Slope 🖾 Foot Slope 🗆 Toe Slope Slope shape Convex, Linear						vex, Linear						
Vegetation: Grass Soil survey map units:							Slope %:	7.0	Elevation:	990			
Weather Con	ditions/Time	of Day:			Clear Warm,	12:00	Date		1	10/18/19			
Observatio	n #/Location:				SB 1		Obse	ervation Type:		Auger			
Depth (in)	Texture	Rock Frag. %	Matrix	Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I Shape	Grade	Consistence			
			10YR	3/3				Shape	Grade	consistence			
0 tyo 10	Fine Sand	<35%						Blocky	Weak	Friable			
10 to 15	Fine Sand	<35%	10YR 4/4					Blocky	Weak	Friable			
15 to 34	Fine Sand	<35%	10YR 5/6					Blocky	Weak	Friable			
34 to 47	Fine Sand	<35%	<u>10YR 6/6</u>					Granular	Weak	Friable			
47 to 55	Fine Sand	<35%	10YR	8/3				Granular	Weak	Friable			
55 to 72	Fine Sand	<35%	5YR 3/4					Blocky	Weak	Friable			
Comments			1		<u> </u>		1			1			
I hereby cert	ify that I have	completed	d this work	k in accord	dance with all applic	able ordinances,	rules and laws						
F	aul Brandt			Vaules	ond tPSS			5182		10/18/2019			
(Desi	or)			(Signature)			(License #)		(Date)				

_	Additi	onal	Soil O	bser	vation Log	S	Project ID:	0	UNIVERSITY OF MINNESOT ONSITE SEWAGE TREATMEN PROGRAM	
	Client:		Mr. I	Pat Gueł	nler	Locat	ion / Address:	7735	100th St. North	City of Grant
Soil parent n	naterial(s): (Cl	heck all th	nat apply)		Outwash 🗹 Lacustrine	🗆 Loess 🛛 T	ill 🗆 Alluvi	um 🗆 Bedro	ock 🗌 Organie	c Matter
Landscape Po	osition: (check	(one)	🗆 Summit	□ Shoul	der 🛛 Back/Side Slop	e 🛛 Foot Slope	□ Toe Slope	Slope shape	Conv	vex, Linear
Vegetation:		Grass		Soi	l survey map units:		Slope %:	10.0	Elevation:	986
Weather Con	ditions/Time	of Day:			Clear Warm	13:00		Date:	06	5/26/19
Observation	n #/Location:				SB 2		Obse	ervation Type:		Auger
Dopth (in)	Toxturo	Rock	Matrix C	olor(c)	Mottle Color(s)	Podox Kind(s)	Indicator(s)	-	Structure	
Depth (III)	Texture	Frag. %	Matrix C	0101(5)	Mottle Color(s)	Redux Killd(S)	indicator (S)	Shape	Grade	Consistence
0 to 6	Fine Sand	<35%	10YR 3	3/3				Blocky	Weak	Friable
6 to 13	Fine Sand	<35%	10YR 4/4					Blocky	Weak	Friable
13 to 24	Fine Sand	<35%	10YR 5/6					Blocky	Weak	Friable
24 to 48	Fine Sand	<35%	<u>10YR 6/6</u>					Granular	Weak	Friable
Comments										

Textures:		Subsoil Indicator(s) of Saturation:	Consistence:			
c-clay		S1. Depleted matrix (value >/=4 and chroma =2)</td <td>Loose-</td> <td colspan="3">Intact specimen not available</td>		Loose-	Intact specimen not available		
sic-silty clay		S2. Distinct gray or red redox features		Friable-	Slight force between fingers		
sc-sandy clay		S3. 5Y chroma = 3</td <td>Firm-</td> <td colspan="3">Moderate force between fingers</td>		Firm-	Moderate force between fingers		
cl-clay loam		S4. 7.5 YR or redd	er faint redox concentrations or redox depletion	Extremely	Moderate force between hands or slight		
				<u>firm-</u>	foot pressure		
sicl-silty clay loam			If yes to one of the above indicators then:	<u>Rigid-</u>	Foot pressure		
scl-sandy clay loam			Topsoil Indicator(s) of Saturation:	Slope Shape:			
si-silt			T1. Wetland Vegetation	Slope shape	hape is described in two directions: up and down slope		
sil-silt loam		*Sand Modifiers	T2. Depressional Landscape	(perpendicul	idicular to the contour), and across slope (along the		
l-loam		co-coarse	T3. Organic texture or organic modifiers	horizontal co	ontour); e.g. Linear, Convex or LV'.		
sl-sandy loam*		m-medium	T4. N 2.5/ 0 color		N I I LL	LV LV	TILC
ls-loamy sand*		f-fine	T5. Redox features in topsoil		111	177	1 + 1
s-sand*		vf-very fine	T6. Hydric Soil		VL		VC
Soil Structure					111	NIN W	1.1
Grade:					1	14 2	
Massive-	2- No observable aggregates, or no orderly arrangement of natural lines of weakness			iess	CL	CUI CV	T) CC
Weak- Poorly formed		d, indistinct peds, l	barely observable in place		1 1	77	1 + 1
<u>Moderate-</u>	Well formed, distinct peds, moderately durable and evident, but not distinct in und			n undisturbed	(adapted from Wysock),	L = Linear V = Convex	Surface flow
Strong-	Durable peds that are quite evident in un-displaced soil, adhere weakly to one another,				et al., 2000)	C = Concave	pathway
	withstand displacement, and become separated when soil is disturbed				Landscape Position:		
Loose-	No peds, sand	andy soil			Summit		
					Back/Side		_ L
Soil Structu	re			Foot Slope Toe Slope			
Shape:							
<u>Granular-</u>	The peds are approximately spherical or polyhedral and are commonly found in topsoil. These are the small, rounded peds that hang onto roots						
<u>Platy-</u>	The peds are flat and plate like. They are oriented horizontally and are usually overlapping. Platy structure is commonly found in forested areas						
<u>Blocky-</u>	The peds are block-like or polyhedral, and are bounded by flat or slightly rounded surface that are casting of the faces of surrounding peds.						
Prismatic-	<u>atic-</u> Flat or slightly rounded vertical faces bound the individual peds. Peds are distinctly longer vertically, and faces are typically cast or molds of						
Single Grain. The structure found in a sandy soil. The individual particles are not held together.							