Midwest Sewer Services

P.O. Box 10853 White Bea	r Lake, MN 55110	Brian Humpal				
651-492-7550/Brian@Midwestsoiltesting.com		MPCA Licensed Advanced Inspector				
SUBSURFACE SEWAGE	TREATMENT SYSTEM	A (SSTS) COMPLIANCE REPORT				
Date: August 1, 2022Time: 11:15 AMOwner: Gerry Larson						
Inspection Address: 8292 Deer Pond Trail N, Lake Elmo, MN 55042						

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This system consists of two plastic septic tanks and an EZ flow drainfield. Pinky's Sewer Service pumped the septic tank on May 13, 2021.

Predicated on my inspection of the system and my review of the original design/permit records, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

Midwest Sewer Services 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. Midwest Sewer Services 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.

Christopher Uebe

Brian Humpol

Brian Humpal



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

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wg-wwists4-31a.pdf.

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Property information	Local tracking	number:
Parcel ID# or Sec/Twp/Range:	Reason for Inspection	Property Transfer
Local regulatory authority info: Washington County		
Property address: 8292 Deer Pond Trail N, Lake Elmo, MN 55042	2	
Owner/representative: Gerry Larson		Owner's phone: <u>651-777-7191</u>
Brief system description: Two plastic septic tanks and an EZ flow of	drainfield.	

System status

System status on date (mm/dd/yyyy): 8/1/2022

Compliant – Certificate of compliance*

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04. subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not quarantee future performance.

□ Noncompliant – Notice of noncompliance

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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 or under section 145A.04 subdivision 8.

Reason(s) for noncompliance (check all applicable)

□ Impact on public health (Compliance component #1) – Imminent threat to public health and safety

Tank integrity (Compliance component #2) – Failing to protect groundwater

Other Compliance Conditions (Compliance component #3) – Imminent threat to public health and safety

Other Compliance Conditions (Compliance component #3) – Failing to protect groundwater

System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) - Failing to protect groundwater

Soil separation (Compliance component #5) – Failing to protect groundwater

Operating permit/monitoring plan requirements (Compliance component #4) – Noncompliant - local ordinance applies

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.

By typing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Business name: Midwest Sewer Services Certification number: 5342/9852 Brian Humpal Atter Inspector signature: License number: L2896 (This document has been electronically signed) Phone: 651-492-7550 Necessary or locally required supporting documentation (must be attached) Soil observation logs System/As-Built 🔲 Locally required forms 🖾 Tank Integrity Assessment Operating Permit

Other information (list): Report Summary, Property Information, Disclaimer

Property Address:	8292 Deer Pond Trail N, Lake Elmo, MN 55042	

Business Name: Midwest Sewer Services

Date: 8/1/2022

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:		Attached supporting documentation:
System discharges sewage to the ground surface	🗋 Yes* 🛛 No	☐ Other: ☐ Not applicable
System discharges sewage to drain tile or surface waters.	🗌 Yes* 🛛 No	_
System causes sewage backup into dwelling or establishment.	🗆 Yes* 🛛 No	_
Any "yes" answer above indicates imminent threat to public health an		_
Describe verification methods and	results:	

None of the above found.

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:		Attached supporting o	locumentation:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	🗌 Yes* 🛛 No	Empty tank(s) viewed by inspector Name of maintenance business:		
Sewage tank(s) leak below their designed operating depth?	🗌 Yes* 🛛 No	License number of maintenance business: Date of maintenance:		
If yes, which sewage tank(s) leaks:		Date of maintenance (mm/dd/yyyy):	5/13/2022 (must be within three years)	
Any "yes" answer above indication is failing to protect groundwate	-	(See form instructions Minn. R. 7082.0700 su	to ensure assessment complies with bp. 4 B (1))	
		 Tank is Noncompliant (pumping not necessary – explain below) Other: 		

Describe verification methods and results:

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Property Address:	8292 Deer Pond Trail N, Lake Elmo, MN 55042
Business Name:	Midwest Sewer Services

Date: 8/1/2022

3. Other compliance conditions – Compliance component #3 of 5

	За.	Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecu	ured?		
		□ Yes*			
	3b.	Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety?	P□Yes*	🛛 No 🔲 Unknown	n
		*Yes to 3a or 3b - System is an imminent threat to public health and safety.			
	3c.	System is non-protective of ground water for other conditions as determined by inspector?	□ Yes*	🖾 No	
	3d.	System not abandoned in accordance with Minn. R. 7080.2500?	□ Yes*	🖾 No	
		*Yes to 3c or 3d - System is failing to protect groundwater.			
		Describe verification methods and results:			
		Attached supporting documentation: Not applicable			
4.	Ор	erating permit and nitrogen BMP* – Compliance component #4 of	5 🛛 N	ot applicable	_
	Is th	e system operated under an Operating Permit?	"yes", A	below is require	d
	Is th	e system required to employ a Nitrogen BMP specified in the system design? \square Yes \square No $~$ If '	"yes", B	below is require	d
		BMP = Best Management Practice(s) specified in the system design			
	lf th	e answer to both questions is "no", this section does not need to be completed.			
	Con	npliance criteria:			

a. Have the operating permit requirements been met?	Yes	🗌 No
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b. Is the required nitrogen BMP in place and properly functioning?

Any "no" answer indicates noncompliance.

Describe verification methods and results:

Attached supporting documentation:
Operating permit (Attach)

Property Address:	8292 Deer Pond Trail N, Lake Elmo, MN 55042
Business Name:	Midwest Sewer Services

Date: 8/1/2022

5. Soil separation – Compliance component #5 of 5

Date of installation 2021 (mm/dd/yyyy)	_ 🗌 Unkr	nown		
 Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria (select one): 5a. 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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock. 	⊠ Yes	□ No	 Attached supporting documentation: Soil observation logs completed for the Two previous verifications of required Not applicable (No soil treatment area <u>6" Depth</u> 	vertical separation
5b.Non-performance systems built	🛛 Yes	🗌 No*	Indicate depths or elevations	
April 1, 1996, or later or for non- performance systems located in Shoreland or Wellhead Protection Areas or serving a			A. Bottom of distribution media	See Attached Boring Log(s)
food, beverage, or lodging establishment:			B. Periodically saturated soil/bedrock	
Drainfield has a three-foot vertical			C. System separation	
separation distance from periodically saturated soil or bedrock.*			D. Required compliance separation*	
			*May be reduced up to 15 percent if allo Ordinance.	wed by Local
5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes	□ No*		

*Any "no" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

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.

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Property	address:	8292	BeerPereltri No	Parcel ID:	
City:	iane	Elme	State: MM	Zip code:	550412

Optional section: Sewage Tank Compliance Certification

This form does not represent a complete system inspection report and only certifies sewage tank compliance status.

Instructions: This section of the form may be completed and signed by a Designated Certified Individual (DCI) of a licensed SSTS Maintenance Business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system.

When this section of the form is signed by a qualified certified professional, it becomes *necessary supporting documentation* to an Existing System Compliance Inspection Report: <u>Compliance inspection roun</u> - Existing system (wo-wwists4-31b). This form can be found on the MPCA website at https://www.pca.state.on.us/water/ssts-and-msts-technical-and-compliance-oriteria.

The information and certified statement on this form is **required** when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits the inspection report. It represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4 Item (B) subitem (1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is required according to local regulations. Additional Administrative Rule references for this activity can be found at Minn. R. 7082.0700, subp. 4 Items B, C, and D; 7083.0730 Item C.

Certificate of sewage tank compliance

Affirm all three statements:

- The SSTS does not contain a seepage pit, cesspool, drywell, leaching pit, or other pit.
- ✓ It does not contain a sewage tank that was designed to be watertight, but subsequently leaks below the ▲designed operating depth.
- ✓ It does not represent an imminent safety threat by reason of unsecured, damaged, or weak maintenance hole cover(s) or other unsafe condition.

Notice of sewage tank non-compliance

Select all that apply:

- The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit – "Failure to Protect Groundwater."
- It has a sewage tank that was designed to be watertight, but subsequently leaks below the designed operating depth – "Failure to Protect Groundwater."
- ☐ It presents a threat to public safety by reason of unsecured, damaged, or weak maintenance hole cover(s) or other unsafe condition – "Imminent Threat to Public Health or Safety."

Company information

Company name:

Business license number:

Designated Certified Individual (DCI) information

Print name:	Meil C	ymer	
Certification nu	imber: <u>C2</u>	814	

I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS Maintenance Business. I personally conducted the necessary procedures to assess the compliance status of each sewage tank in this SSTS:

Designated Certified Individual's signature:

Kymir

Date (mm/dd/yyyy):

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Midwest Sewer Testing

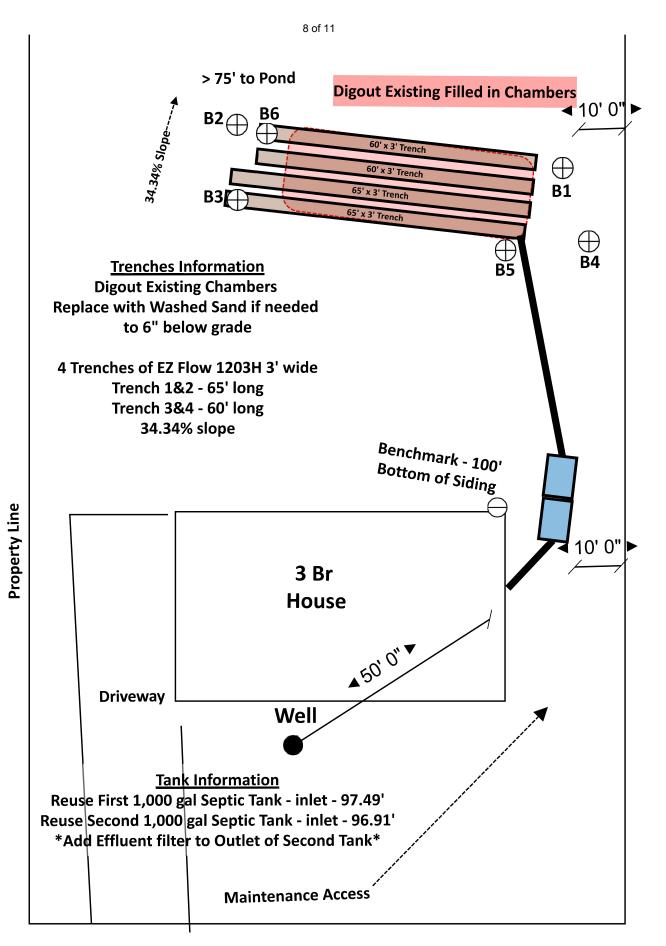
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: August 1, 2022	Time: 11:15 AM
Property Address: 8292 Deer Pond Trail N, Lake	
Property Owner: Gerry Larson	Phone: 651-777-7191
Tank(s) Tank(s)Material Soil Tr	eatment System Other
	k trench Alternative system
	relless trench Experimental system mber trench Cesspool system
	age bed Other system EZ Flow
Other: Block Mou	
Other At-grade	
Are the tank maintenance covers accessible? \boxtimes Ye	es \Box No *If no, proper maintenance must be
performed through the maintenance holes. Mainten	nance hole covers should be made accessible to
the ground surface to facilitate access and proper m	aintenance of the system.
Year house built: 1969 Year septic installed	: 2021 Tank size (gals.): 2-1000
How long has seller owned the property?	Number of residents in home?
Number of bedrooms?3Are all floor	rs drained by gravity?
Garbage disposal?	Vhirlpool bath?
More than one system (laundry, etc.)?	
Does this property have any footing drain tiles com	nected to the septic system?
Are any buildings on this property such as garages	or out-buildings connected to this system?
Are there any additional systems on this property so	erving other huildings?
The more any additional systems on this property s	erving other oundings:
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	
surfacing of sewage onto the ground, septic tank ov	
to the system? If yes, explain:	contowing, etc., of have any repairs been made
to the system? If yes, explain.	
When was the system last pumped?	Name of pumper:
How often pumped in previous years?	Is system on a monitoring plan?
Have you received notices from any government ag	
Is your property located in a shoreland management	
Do you have any additional information that should	
	to 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

Owner/Occupant:



8292 Deer Pond Trail N - Lake Elmo - 3 Br Septic Design Design By: Ten Thirty Environmental Solutions, SBC **⊲** 25' 0" ►

Washing Cou nstallation Permit # 2021-19 Status: Review Complete	mit Site Review UID # 34111	Washington County Public Health & Environment 1949 - 62ND ST N, PO BOX 6, STLLWATER, MN 5582-2006 (651143-6655
		(651) 430-6655 FAX (651) 430-6730
Site Inspection		
Date of the sol observation:	6/4/21	
Inspector:	Barbara Pena	
Soil Information narrative:	Weather conditional lima: Surveyl 10:45 am Sol verification location: Sol boring conducted outside of proposed area, between designer's 583 and 582, 586. Sila with chambler, Chamber will need to de jout and nei replace with wash sand to 6' below grade to install E2-Flaw.	slope greater than 12%. The new proposed site will be over existing fill in
GPS Latitude :	44.8956245 Latitude	
GPS Longitude:	-02.9653082 Longitude	
Soil Parent Material Select all that apply:	Outwash	
Parent Material:	Outwash	
Landscape Position Please choose one:	Shoulder	
Vegetation:	Hills, traes, grass	
Soil Survey Map Unit(s) with description:	155D?Chetek sandy loam, 12 to 25 percent slopes	
Soil Horizon Level 1		
Depth:	0.8 Inches	
Texture:	koam	
Matrix Color:	10YR 3/2	
Rock Fragment %:	0-35%	
s this the Restrictive Layer?	No	

Client:		Reube	n and Ge	rry Larso	n	Location / Address: 8292 Deer Pond Trail North, Lake Elmo						
Soil parent	material(s): (Cl	neck all th	nat apply) = C	utwash 🗆 Lacustrine	□ Loess □ Till	Alluvium Bedrock Organic Matter					
Landscape F	osition: (selec	t one)	Back/Si	de Slope	Slope %: 34.3	Slope shape	Linear	, Linear		relative to enchmark: 79.8		
Vegetation:	F	orest		Soil	survey map units:		155D		Limiting Layer	Elevation: 76.05		
Weather Co	nditions/Time	of Day:		Mostly	r Sunny	10:30/	AM	Date	05	6/10/21		
Observatio	n #/Location:	В	1		See Site Ma	ар	Obse	rvation Type:	See Soil Narrat	Moderate Friable		
Depth (in)	Texture	Rock Frag. %	Matrix	Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I- Shape				
0-8	Loam	<5%	10 YR	3/2				Granular	Moderate	Friable		
8-20	Loam	<5%	10YR	4/4				Blocky	Moderate	Friable		
20-45	Sandy Loam	<5%	10YR	4/4	7.5YR 4/6	None		Blocky	Moderate	Friable		
20-45	Sandy Edam	Sandy Ebann	-3/1			10YR 5/3	None		blocky	moderate	Thable	
45-50 Sandy Loan		<5%	10YR	4/4	10YR 4/6	Concentrations	S1	Blocky	Moderate	Friable		
					10YR 5/3	Depletions				<u> </u>		
50-60	Medium Sand	<10%	7.5YR	4/4				Single grain	Structureless	Loose		
Comments	Tricky soils wi	ith multip	le textur	es in hori	zons. See soil nar	rative on elevation	ns page for de	tailed interpre	etation. Redox a	t 45".		

Depth:	8-21 Inches
Texture:	andy kam
Matrix Color:	10YR 4/3
Rock Fragment %:	0.35%
	20% Rock fragments observed at 16"
is this the Restrictive Layer?	No
Soil Horizon Level 3	
Depth:	21-32 Indies
Texture:	loemy send
Matrix Color:	10YR 44
Rock Fragment %:	0-35%
	Some motiling 10YR 4/6 and 20% rock fragments observed at 26*
s this the Restrictive Layer?	No
Soil Horizon Level 4	
Depth:	32-44 Inches
Texture:	Medium Sand
Matrix Color:	7YR 4/6
Rock Fragment %:	0-35%
is this the Restrictive Layer?	Yes
Restricitve Layer Depth	
Depth to Restriction:	43 Inches
Approvals	
Approva	I Signature
#1 Site Review Performed	Barbara Paria - 061402021 7:12 AM 055041 656343.az 51322.c5904b77a.d8o31 cc68b2.655656714b746440.049433aa
Public Notes	
Text:	
File(s):	
i defe).	
Internal Notes	
Text File(s):	

lient:		Reube	n and Ge	erry Larso	'n	Location / Address: 8292 Deer Pond Trail North, Lake Elmo						
ioil parent r	naterial(s): (Cl	neck all t	hat apply) = 0	utwash 🛛 Lacustrine	□ Loess □ Til	Alluviu	m 🗆 Bedro	ck 🗆 Organic M	fatter		
andscape P	osition: (selec	t one)	Back/Si	de Slope	Slope %: 34.3	Slope shape	Linear	, Linear	Elevation-	relative to enchmark: 80.6		
egetation:	F	orest		Soil	survey map units:		155D		Limiting Layer E			
Veather Co	nditions/Time	of Day:		Mostly	Sunny	10:30	AM	Date	05	/10/21		
Observatio	n #/Location:	E	2		See Site Ma	ар	Obse	ervation Type:	See Soil Narrative on Elevations pg			
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)		Mottle Color(s)) Redox Kind(s)	Indicator(s)	icator(s)	Grade Consistence			
		1145. 10	10 YR	3/2				Shape	Grade	consistence		
0-12	Sandy Loam	<5%		-				Granular	Moderate	Friable		
			10YR	4/4	7.5YR 4/6	None						
12-44	Sandy Loam	<5%			10YR 5/3	None		Blocky	Moderate	Friable		
44-52	Contration	<5%	10YR	4/4	10YR 4/6	Concentrations	S1	Blocky	Moderate	Friable		
44-52	Sandy Loam	<0%			10YR 5/3	Depletions		DIOCKY	Moderate	rnable		
52-60	Medium Sand	ium Sand <10%		<10%	7.5YR	4/4				Single grain	Structureless	Loose
52.00	medium sand	10/6						Single grain	Structuretess	LOOSE		
								ļ				
								ļ				
Comments	Tricky soils w	ith multip	ole textur	es in hori	zons. See soil nar	rative on elevatio	ns page for de	tailed interpre	etation. Redox at	: 44".		

Client:		Reube	n and Ge	rry Larso	n	Locati	on / Address:	8292 D	eer Pond Trail No	orth, Lake Elmo				
Soil parent r	naterial(s): (Cl	heck all th	nat apply) ¤ C	utwash 🛛 Lacustrine	Loess Till	Alluvia	Alluvium Bedrock Organic Matter						
Landscape P	osition: (selec	t one)	Back/Si	de Slope	Slope %: 34.3	Slope shape	Linear	, Linear		relative to enchmark: 87.8				
Vegetation:	I	Forest		Soil	survey map units:		155D		Limiting Layer	Elevation: 84.1				
Weather Co	nditions/Time	of Day:		Mostly	/ Sunny	10:30	AM	Date	05	i/10/21				
Observatio	n #/Location:	В	3		See Site Ma	ар	Obse	ervation Type:	See Soil Narrat	ive on Elevations p				
Depth (in) Texture		Rock Frag. %	Matrix	Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I- Shape	Grade	Consistence				
0-6	Sandy Loam	<5%	10 YR	3/2				Granular	Moderate	Friable				
6-44 Sandy Lo	Sandy Loam	<5%	10YR	4/4	7.5YR 4/6	None		Blocky	Moderate	Friable				
0-44	Sundy Louin	~ 5/6			10YR 5/3	None		DIOCKY	moderate	Thable				
44-50	Sandy Loam	<5%	10YR	4/4	10YR 4/6	Concentrations	S1	Blocky	Moderate	Friable				
44-50	Sandy Loam	Januy Ludin	Sandy Lodin	Sundy Lodill	1/6			10YR 5/3	Depletions		DIOCKY	moderate	. nubic	
50-56	Loamy Medium Sand	<10%	7.5YR	4/4				Single grain	Structureless	Loose				
	-				zons. See soil nar dance with all appl				etation. Redox a	t 44".				

Client:	120	Bauha	n and Co	rrv Larso		Project ID: 8292D v 04.01.2021 Location / Address: 8292 Deer Pond Trail North. Lake Elmo						
	naterial(s): (Cl				utwash 🗆 Lacustrine							
	osition: (selec				Slope %: 34.3	Slope shape				relative to 87.4		
			Back/SI					~	enchmark:			
Vegetation:		Forest			survey map units:		155D		Limiting Layer I			
	ditions/Time			Mostly	Sunny	10:30		Date		5/10/21		
Observation	B	5 See Site M			ар	Obse		See Soil Narrative on Elevations pe				
Depth (in)	Texture	Frag. %	Matrix	Color(s)	Mottle Color(s)	Redox Kind(s) Indica	Indicator(s)	Shape	Grade	Consistence		
0-6	Sandy Loam	<5%	10 YR	3/2				Granular	Moderate	Friable		
0-0		Sandy Loan	Sundy Loann	condy codiff	. 376						Grandtar	moderate
6-43	Sandy Loam	<5%	10YR	4/4	7.5YR 4/6	None		Blocky	Moderate	Friable		
0-43	Sundy Eduni	10/6			10YR 5/3	None		DIOCKY	moderate	ritable		
43-48	Sandy Loam	<5%	10YR	4/4	10YR 4/6	Concentrations	S1	Blocky	Moderate	Friable		
43-40		Joann ~5%			10YR 5/3	Depletions			moderate	Thable		
48-60	Loamy Medium Sand <10		<10%	7.5YR	4/4				Single grain	Structureless	Loose	
40-00			Medium Sand	Medium Sand	Medium Sand	× 10%						Single grain
Comments	Tricky soils w	ith multip	le textur	es in hori	zons. See soil nari	rative on elevatio	ns page for de	tailed interpr	etation. Redox a	t 43".		
					dance with all appli							

	~2/2					Project ID: 8292D v 04.01.2021									
lient:				rry Larso	n	Location / Address: 8292 Deer Pond Trail North, Lake Elmo									
ioil parent r	naterial(s): (Ch	neck all th			utwash D Lacustrine	D Loess D Till	Alluviu	m 🗆 Bedro	k □ Organic M Elevation-r						
andscape P	osition: (select	t one)	Back/Si	de Slope	Slope %: 34.3	Slope shape	Linear	, Linear		enchmark: 86.3					
egetation:	F	orest		Soil	survey map units:		levation: 84.19								
Veather Co	nditions/Time	of Day:		Mostly	Sunny	10:30	AM	Date	05	/10/21					
Observatio	n #/Location:	В	4		See Site Ma	эр	Obse	ervation Type:	See Soil Narrati	ve on Elevations pg					
Depth (in) Texture Rock Frag. %			Matrix Color(s) Mottle Color(s)			Redox Kind(s)	Indicator(s)		Grade Consistence						
		Fldg. 76	10 YR	2/2				Shape	Grade	Consistence					
0-6	Loam	<5%	10 16	3/2				Granular	Moderate	Friable					
			10YR	4/4											
6-25 Loam		<5%						Blocky	Moderate	Friable					
	Silt Loam	<5%	10YR	4/4	10YR 4/6	Concentrations	S1	Dissis	Moderate	Friable					
25-48	Sitt Loain	~3/0			10YR 5/3	Depletions		Blocky	Moderate	rnable					
48-60	Sandy Loam	am <5%	-5%	10YR	4/4	10YR 4/6	Concentrations	S1	Single grain	Structureless	1				
40.00	sandy Loam	Sandy Loam	Sandy Loann	Sandy Loam	Sandy Loam	< <u>5</u> ,6			10YR 5/3	Depletions		Single grain	Structureless	Loose	
Comments	Boring outside	of propo	sed area	and dowr	ngrade of discharg	e pipe for drainag	e. Move close	er to system.	Different soils her	e					
hereby cert	ify that I have o	completed	this work	in accord	dance with all appl	cable ordinances,	rules and law	s.							
	-								Different soils her	e 5/10/2					
(Des	igner/Inspecto	r)	•		(Signature)	•	(License #)		(Date)					

Client:		Reube	n and Ge	rry Larso	m	Location / Address: 8292 Deer Pond Trail North, Lake Elmo						
Soil parent r	material(s): (Cl	neck all ti	nat apply) ¤C	lutwash 🗆 Lacustrine	□ Loess □ Till	Alluviu	m 🗆 Bedro	:k □ Organic I	Matter		
andscape P	osition: (selec	t one)	Back/Si	de Slope	Slope %: 34.3	Slope shape	Linear	, Linear		evation-relative to benchmark: 81.3		
Vegetation: Forest Soil survey map units:							155D		Limiting Layer Elevation: 77.58			
Weather Cor	nditions/Time	of Day:		Mostly	/ Sunny	10:30	AM.	Date	05	Organ: Matter verstion-relative to 81.3 benchmark: 81.3 g Layer Elevation: 77.58 O5/10/21 II Narrative on Elevations pg urcture		
Observation #/Location: B6			6		See Site Ma	ър	Obse	ervation Type:	See Soil Narrat	tive on Elevations pg		
Depth (in)	Texture	Rock Frag. %	Matrix	Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I- Shape	Grade Consistence			
0-8	Sandy Loam	<5%	10 YF					Granular	Moderate			
0-8	Jandy Loan	, coun	10						Granutar	moderate	rnable	
8-44	Sandy Loam	<5%	10YR	4/4	7.5YR 4/6	None		Blocky	Moderate	Friable		
0.44					10YR 5/3	None		ыску	moderate	Thable		
44-55	Sandy Loam	<5%	10YR	4/4	10YR 4/6	Concentrations	\$1	Blocky	Moderate	Friable		
	Sundy Louin	.5%			10YR 5/3	Depletions						
55-60	Loamy Medium Sand	<10%	7.5YR	4/4				Single grain	Structureless	Loose		
								ł				
								1				
					zons. See soil nar							

DISCLAIMER

Brian L. Humpal, Inc. dba. Midwest Sewer Services, 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.