## **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 (SSTS) COMPLIANCE REPORT

**Date:** February 15, 2018 **Time:** 9:00 AM **Owner:** Jim Robin

**Inspection Address:** 22732 Olgilvie Ave N, Scandia MN **Site Conditions:** 8" Snow -" Frost

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Jim Robin, and have reviewed the original design/permit records, along with a previous compliance inspection from 2013, which were on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a mound.

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

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	
System Status	
System status on date (mm/dd/yyyy):2/15/2018	_
<del>_</del> .	mpliant – Notice of Noncompliance grade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent the Tank Integrity (Compliance Component #2) – Failing to protect groundwa Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwa Soil Separation (Compliance Component #4) – Failing to protect groundwa Operating permit/monitoring plan requirements (Compliance Component	reat to public health and safety ter otect groundwater vater
Property Information Parcel ID# or Sec/Twp/Ran	ge:
Property address: 22732 Olgilvie Ave N, Scandia, MN 55073 Reason f Property owner: Jim Robin Owner's	for inspection: Property Transfer phone: 612-309-3946
• • • • • • • • • • • • • • • • • • • •	ntative phone:
Local regulatory authority: Washington County Regulato Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, and a mount	ry authority phone: 651-430-4052
Comments or recommendations:	
Certification	
I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Brian Humpal Certificat	ion number: L5342
	nse number: L2896
Inspector signature: Brian Humpal Pho	one number: 651-492-7550
Necessary or Locally Required Attachments	
· · · · · _ <u>-</u>	local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lie	cense

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Property address: 22732 Olgilvie Ave N, Scandia, MN 55073

Inspector initials/Date: 02/15/2018

<u>1.</u>	ln	Impact on Public Health – Compliance component #1 of 5				
	Co	ompliance criteria:			Ve	erification method(s):
		stem discharge sewage to the bund surface.	☐ Yes	⊠ No	$\boxtimes$	Searched for seeping in yard/backup in home
		stem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No		Homeowner testimony (See Comments/Explanation)
		stem cause sewage backup into relling or establishment.	☐ Yes	⊠ No		"Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test
		ny "yes" answer above indicates I Imminent Threat to Public Heal	•		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)	
		omments/Explanation: one of the above found.				
<u>2.</u>	Τā	ank Integrity — Compliance com	nponent #	‡2 of 5		
	Co	ompliance criteria:			Ve	erification method(s):
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		Probed tank(s) bottom
		epage pits meeting 7080.2550 may be			$\square$	Examined construction records  Examined Tank Integrity Form (Attach)
	coi	mpliant if allowed in local ordinance.				Observed liquid level below operating depth
		wage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No		Examined empty (pumped) tanks(s)
		/es, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil"
	A	ny "yes" answer above indica stem is Failing to Protect Gro		ter.	<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other methods not listed (See Comments/Explanation)</li> </ul>	
	Comments/Explanation:					
	Lowered underwater camera into tanks - baffles and tank walls OK.					
	Lif	t pump and alarm were operational at	the time o	f the inspection.		
<u>3.</u>	01	ther Compliance Conditions	– Comp	liance componer	nt #3	3 of 5
	a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. $\ \square \ {\sf Yes^*} \ \boxtimes \ {\sf No} \ \square \ {\sf Unknown}$					
	<ul> <li>b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown</li> <li>*System is an imminent threat to public health and safety</li> </ul>					
	Explain:					
	c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater			ined by inspector ☐ Yes* ☒ No		
	Explain:					

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Property address: 22732 Olgilvie Ave N, Scandia, MN 55073

Inspector initials/Date: 02/18/2018

4.	Soil Separation – Compliance compor	nent #4 of 5				
	Date of installation: 2004	Unknown	V	/erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ⊠ N	o s	Soil observation does not expire. Probservations by two independent pa		
	Compliance criteria:		и	nless site conditions have been alt		
	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	☐ Yes ☐ N	0	equirements differ.  ☐ Conducted soil observation(s) (Attack ☐ Two previous verifications (Attack ☐ Not applicable (Holding tank(s), not	ch boring logs) o drainfield)	
	separation distance from periodically saturated soil or bedrock.			☐ Unable to verify (See Comments/. ☐ Other (See Comments/Explanation		
	Non-performance systems built April 1, 1996, or later or for non-performance	⊠ Yes □ N		Comments/Explanation: Reviewed previous compliance insp	paction from 2012	
	systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:			Reviewed previous compliance inspections.		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
	"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV	☐ Yes ☐ N	0 <u>lı</u>	ndicate depths of elevations		
	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.		С	Periodically saturated soil/bedrock     System separation		
	Any "no" answer above indicates to	he system is		Required compliance separation*	f allowed by Leas!	
	Failing to Protect Groundwater.	o jotom k		May be reduced up to 15 percent it Ordinance.	i allowed by Local	
5.	. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 ⊠ Not applicable					
	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 BMP?			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					
	Operating Permit number:     Have the Operating Permit requirements I	peen met?	_	☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and properly functioning?			☐ Yes ☐ No		
	Any "no" answer indicates Noncompliance.					
	7y no anone maneates remoniphanes.					

**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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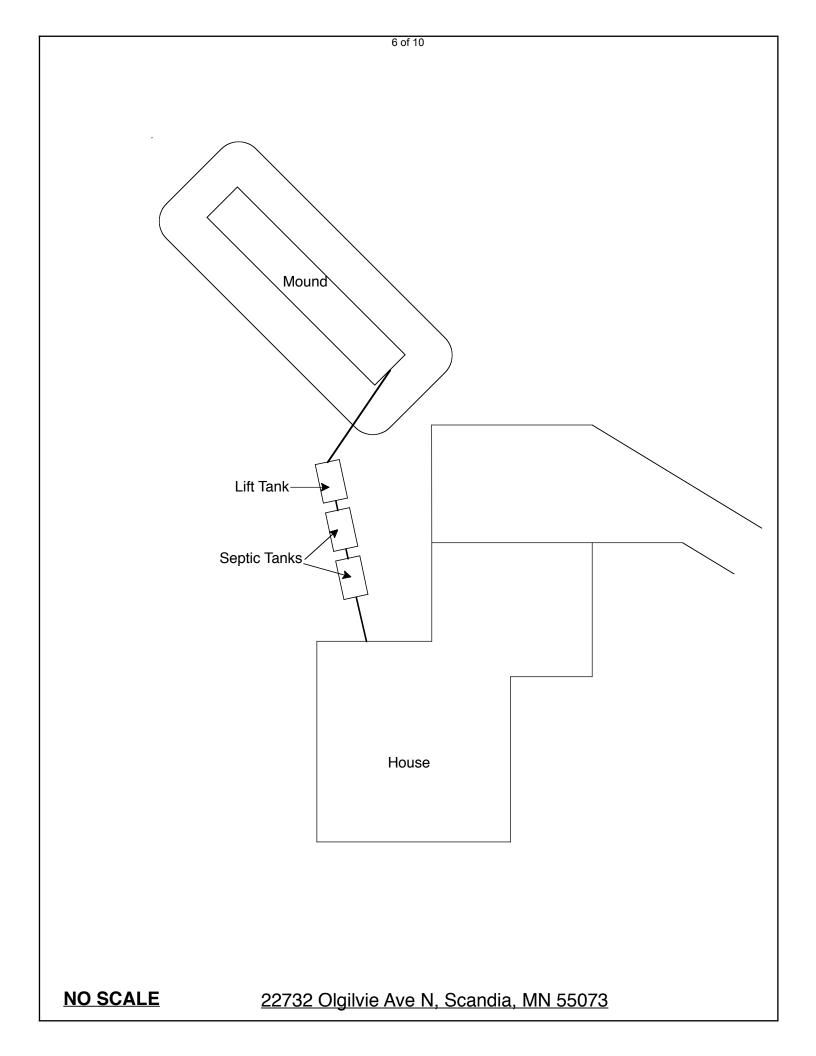
# Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

D ( CI ); F1 15 2010			
Date of Inspection: February 15, 2018	Time: 9:00 AM		
Property Address: 22732 Olgilvie Ave N, Scandia, M.	N Zip: 55073		
Property Owner: Jim Robin	Phone: 612-309-3946		
Tank(s) Tank(s)Material Soil Treatme			
Septic 2 Fiberglass Rock tren			
Aerobic Plastic Gravelles			
	<u> </u>		
Holding Concrete Seepage 1	oed Other system		
☐ Other: ☐ Block ☐ Mound ☐ Other ☐ At-grade			
Are the tank maintenance covers accessible? ⊠ Yes [			
performed through the maintenance holes. Maintenance			
the ground surface to facilitate access and proper maint	enance of the system.		
Year house built: 2004 Year septic installed: 20	04 Tank size (gals.): 2-1000		
How long has seller owned the property? 2014 Nu	imber of residents in home? 2		
Number of bedrooms? 4 Are all floors dr	rained by gravity? Y		
Garbage disposal? Y Whir	lpool bath? Y		
More than one system (laundry, etc.)? N			
Does this property have any footing drain tiles connected	ed to the septic system? N		
Are any buildings on this property such as garages or out-buildings connected to this system? N			
A di distribution di distribut	4 1 11 22		
Are there any additional systems on this property serving	ig other buildings? N		
Location of septic system on lot? West Side			
Location of water well on lot? Community Well	Is the well a deep well? N/A		
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:			
	me of pumper: Smilie's Sewer Service		
How often pumped in previous years? Every 3			
Have you received notices from any government agenc	y concerning this system? N		
Is your property located in a shoreland management are	ea? 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: Jim Robin's Signature On File Date: 02/15/2018



## **Log Of Soil Borings**

Location of Project: 22732 Olgilvie Ave N, Scandia, MN 55073					
Borings Made By: Inspect Minnesota					1/30/13
	Auger Used:	Hand/Bucket	Classi	ification System:	USDA
В	Boring Number:	1		Boring Number:	
Surface Elevation o Boring	1 1	top of mound on inal contour	Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered_
0-16 16-27 27-36 36-42	10YR 3/4 Fine 5YR 10YR 3/ Few 5Y 10YR 3/6 Loa	Fine Sandy Loam e Sandy Loam With 5/8 Redox 6 Loam With R 5/8 Redox my Fine Sand With R 5/8 Redox			
16" D	epth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
+52" Elevation Of Boring Below Top Of Mound			Elevation Of Boring	Relative To System	
-28" Depth To Bottom Of System		Depth To Bottom Of System		of System	
=40" Of Separation			Of Separation		
F. J. O.C. D				E 4 Of D - 1 4 -	
	and Of Boring At:	42" 16"		End Of Boring At:	
			Redox Present At: Standing Water Present At:		
Standing W	vater Present At:	None	Standing	water Present At:	

Bottom Of Distribution Medium At: 28 Inches

#### **LOGS OF SOIL BORINGS**

Location of Project Joe Pelton, Lot 5, Block 2, Swenson's Goose Lake Farm Ests., Sec. 11, New Scandia Twp., Washington Co.

Borings Made by Chris Zierke

Date: 4/5/04

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth,	Daving Number 1
In Feet	Boring Number 1
0	·
0-10"	Dark-brown sandy loam(10YR-3/3)
10-16"	Dark yellowish-brown loam(10YR-4/4)
16-48"	Yellowish-brown silt loam(10YR-5/4), iron-stains & light-gray mottles below 32"

End of boring at 4 feet.

Standing water table:

Present at feet of depth, hours after boring.

Standing water not present in hole ☑.

Mottled Soil:

Observed at 32" feet of depth.

Mottled soil not present in bore hole □.

Comments:

Depth, In Feet	Boring Number 3
0-8"	Dark-brown sandy loam(3/3)
8-14"	Dark y-brown loam(4/4)
14-30"	Yellowish-brown silt loam(5/4), iron-st. & light-gray mottles below 18"

End of boring at 2.5 feet.

Standing water table:

Present at feet of depth, hours after boring.

Standing water not present in hole .

Mottled Soil:

Observed at 1.5 feet of depth.

Mottled soil not present in bore hole .

Comments:

0-10" Dark-brown sandy loam(3/3)  10-20" Dark y-brown loam(4/4)  20-42" Yellowish-brown silt loam(5/4), iron-st. & light-gray mottles below 30"	Depth, In Feet	Boring Number 2
20-42" Yellowish-brown silt loam(5/4), iron-st.	0-10"	Dark-brown sandy loam(3/3)
	10-20"	Dark y-brown loam(4/4)
l e e e e e e e e e e e e e e e e e e e	20-42"	

End of boring at 3.5 feet.

Standing water table:

Present at feet of depth, hours after boring.

Standing water not present in hole .

Mottled Soil:

Observed at 2.5 feet of depth.

Mottled soil not present in bore hole .

Comments:

Depth,	
In	Boring Number 4
Feet	
0	**************************************
0-10"	Dark-brown sandy loam(3/3)
10-18"	Dark y-brown loam(4/4)
18-30"	Yellowish-brown silt loam(5/4), iron-st. light-gray mottles

End of boring at 2.5 feet.

Standing water table:

Present at feet of depth, hours after boring.

Standing water not present in hole ⊠.

Mottled Soil:

Observed at 1.5 feet of depth.

Mottled soil not present in bore hole □.

Comments:

### **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: 12/22/2018

Issued: 10/10/2017

es:

## Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

## Designated Certified Individual(s):

Cert #	Name	Certification Expir
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)	
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov,	Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	



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

Charles K Thompson, Supervisor Certification & Training Unit