1 of 11

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

P.O. Box 10853 White Bear I	Brian Humpal				
651-492-7550/Brian@Midwe	MPCA Licensed Advanced Inspector				
SUBSURFACE SEWAGE T	REATMENT SYSTE	M (SSTS) COMPLIANCE REPORT			
Date: August 6, 2018	<b>Time:</b> 9:00 AM	Owner: Alfred & Susan Williams			
Inspection Address: 5091 Hilltop Ave 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 the City of Lake Elmo. This very old system (installed in 1988) consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

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.

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.

Christopher Uebe

Brian Humpal

Brian Humpal

2 of 11



St. Paul, MN 55155-4194

# **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): <u>8/6/2018</u>							
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)							
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 thr	eat to public health and safety						
☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwat	er						
Other Compliance Conditions (Compliance Component #3) – Failing to pro	tect groundwater						
Soil Separation (Compliance Component #4) – Failing to protect groundw	ater						
Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant							

#### **Property Information**

Parcel	ID# or	Sec/Twp/Range:	
	$1D\pi 01$	Sec/ i wp/italige.	

Property address:	5091 Hilltop Ave N, Lake Elmo, MN 55042	Reason for inspection:	Property Transfer	
Property owner:	Alfred & Susan Williams	Owner's phone:		
or				
Owner's representa	tive:	Representative phone:		
Local regulatory authority: Washington County		Regulatory authority phone	e: 651-430-6655	
Brief system descri	otion: Pre-cast septic tank and a rock trench drainfield.			
<b>a</b> <i>i</i>				

Comments or recommendations:

#### Certification

wq-wwists4-31 • 1/24/12

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: Brian Humpal/Christopher Uebe					Certification	number:	C5342/C9852			
Business name: Inspect Minnesota, Midwest Soil Testing				License	number:	L28	396			
Inspector signatur	re:	Prim ?	Hump	al Africa	- 1/1		Phone	number:	65 <sup>-</sup>	1-492-7550
Necessary or	Locally	Require	d Atta	chmen	ts					
🛛 Soil boring lo	ogs	🛛 Syste	em/As-b	uilt drawin	g		Forms per loc	al ordinan	се	
🛛 Other inform	ation (list):	Report S	ummary	, Property	Inform	nation, Dis	claimer, Licen	se		
www.pca.state.mn.	us • 65	1-296-6300	• 800	)-657-3864	•	TTY 651-2	82-5332 or 800	-657-3864	•	Available in alternative formats

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

Property address: 5091 Hilltop Ave N, Lake Elmo, MN 55042

Compliance criteria:		Verification method(s):				
System discharge sewage to the ground surface.	🗌 Yes 🛛 No	<ul> <li>Searched for surface outlet</li> <li>Searched for seeping in yard/backup in home</li> </ul>				
System discharge sewage to drain tile or surface waters.	🗌 Yes 🛛 No	Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation)				
System cause sewage backup into dwelling or establishment.	🗌 Yes 🛛 No	<ul> <li>Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>				
Any "yes" answer above indicate an Imminent Threat to Public Hea		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>				
Comments/Explanation:						

#### 2. Tank Integrity - Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes 🖾 No
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.	
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🖾 No
If yes, which sewage tank(s) leaks:	

## Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:

None of the above found.

Lowered underwater camera into tank - baffles and tank walls OK.

#### Verification method(s):

- Probed tank(s) bottom
   Examined construction records
   Examined Tank Integrity Form (Attach)
   Observed liquid level below operating depth
- 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)

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

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.  $\Box$  Yes\*  $\boxtimes$  No  $\Box$  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:

#### **4. Soil Separation** – Compliance component #4 of 5

Date of installation: 1988	Unknown	Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	🛛 Yes 🗌 No	Soil observation does not expire. Previous soil observations by two independent parties are sufficie			
Compliance criteria:		unless site conditions have been a			
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)         □ Two previous verifications (Att         □ Not applicable (Holding tank(s),	ach boring logs)		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		Unable to verify (See Comment: Other (See Comments/Explanation)			
Non-performance systems built April 1,	🖾 Yes 🔲 No	Comments/Explanation:			
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed design and permit recor	ds.		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	🗌 Yes 🗌 No	 Indicate 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		B. Periodically saturated soil/bedrock			
separation distance from periodically saturated soil or bedrock.		C. System separation			
		D. Required compliance separation*			
Any "no" answer above indicates Failing to Protect Groundwater.	the system is	*May be reduced up to 15 percent _ Ordinance.	if allowed by Loca		
Operating Permit and Nitrogen I		_	plicable		

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

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

#### 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.* 

### 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: August 6, 2018	Time: 9:00 AM						
Property Address: 5091 Hilltop Ave N, Lake Elmo	, MN Zip: 55042						
Property Address: 5091 Hilltop Ave N, Lake Elmo Property Owner: Alfred & Susan Williams	o, MN Zip: 55042 Phone:						
	atment System Other						
Septic 1 Fiberglass Rock	trench Alternative system						
	elless trench     Experimental system       iber trench     Cesspool system						
	age bed Other system						
Other: Block Mour	nd						
Other At-gra							
Are the tank maintenance covers accessible? $\boxtimes$ Yes							
performed through the maintenance holes. Mainten							
the ground surface to facilitate access and proper ma	aintenance of the system.						
Year house built: 1988 Year septic installed:	1988 Tank size (gals.): 1500						
How long has seller owned the property?	Number of residents in home?						
	s drained by gravity? Y						
	'hirlpool bath?						
More than one system (laundry, etc.)?							
Does this property have any footing drain tiles conn	ected to the septic system?						
Are any buildings on this property such as garages of	Are any buildings on this property such as garages or out-buildings connected to this system?						
Are there any additional systems on this property se	rving other buildings?						
5 5 11 5	5 5						
Location of septic system on lot? East Side							
Location of water well on lot? West Side	Is the well a deep well? Y						
Have you ever experienced any problems with the s	ystem such as: tree roots, sewage back-ups,						
surfacing of sewage onto the ground, septic tank over	erflowing, etc.; or have any repairs been made						
to the system? If yes, explain:							
When was the system last pumped? 2016	Name of pumper: Pinky's Sewer Service						
How often pumped in previous years? Have you received notices from any government ag	Is system on a monitoring plan?						
Is your property located in a shoreland management							
Do you have any additional information that should							

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:

# Inspect Minnesota & Midwest Soil Testing

MPCA Licensed Advanced Designers, Inspectors, & Service Providers

August 7, 2018

Ms. Gina Lamanna (Buyer) 5091 Hilltop Ave N Lake Elmo, MN 55042

Subject: Septic System at 5091 Hilltop Ave N, Lake Elmo, MN

Dear Gina:

Please find the attached septic system results for the subject property.

Per our agreement, please find the attached invoice, which is due for payment upon receipt. If you are not in agreement with this method of payment, please advise me as to the proper procedure to receive payment.

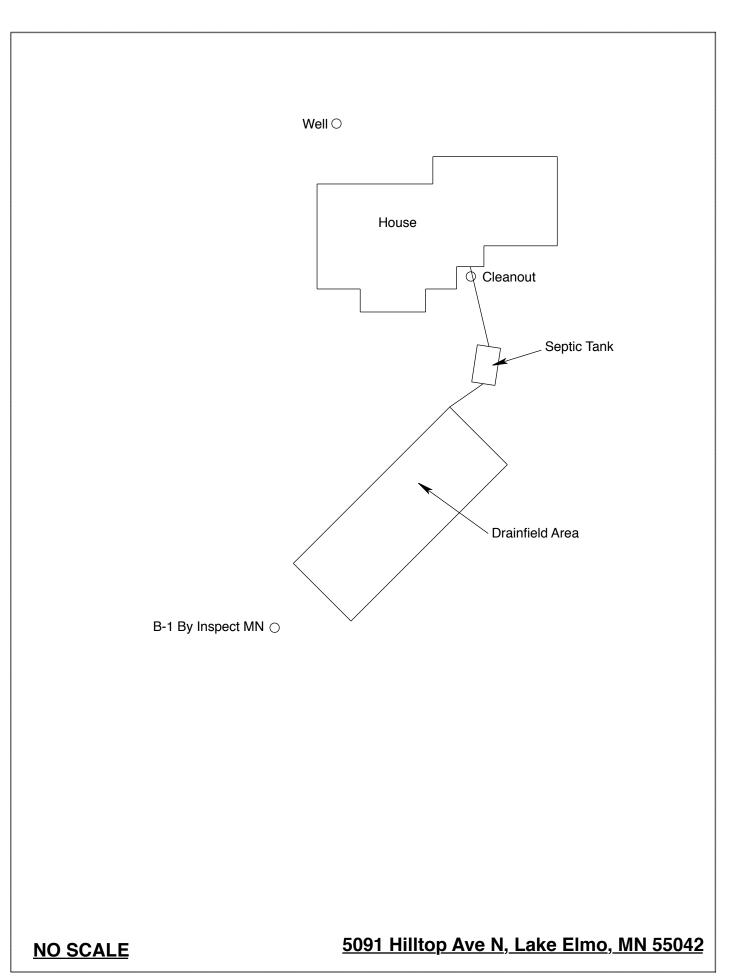
Thank you very much for allowing me to do this work. Please contact me should you have any questions.

Sincerely,

Brian Humpal

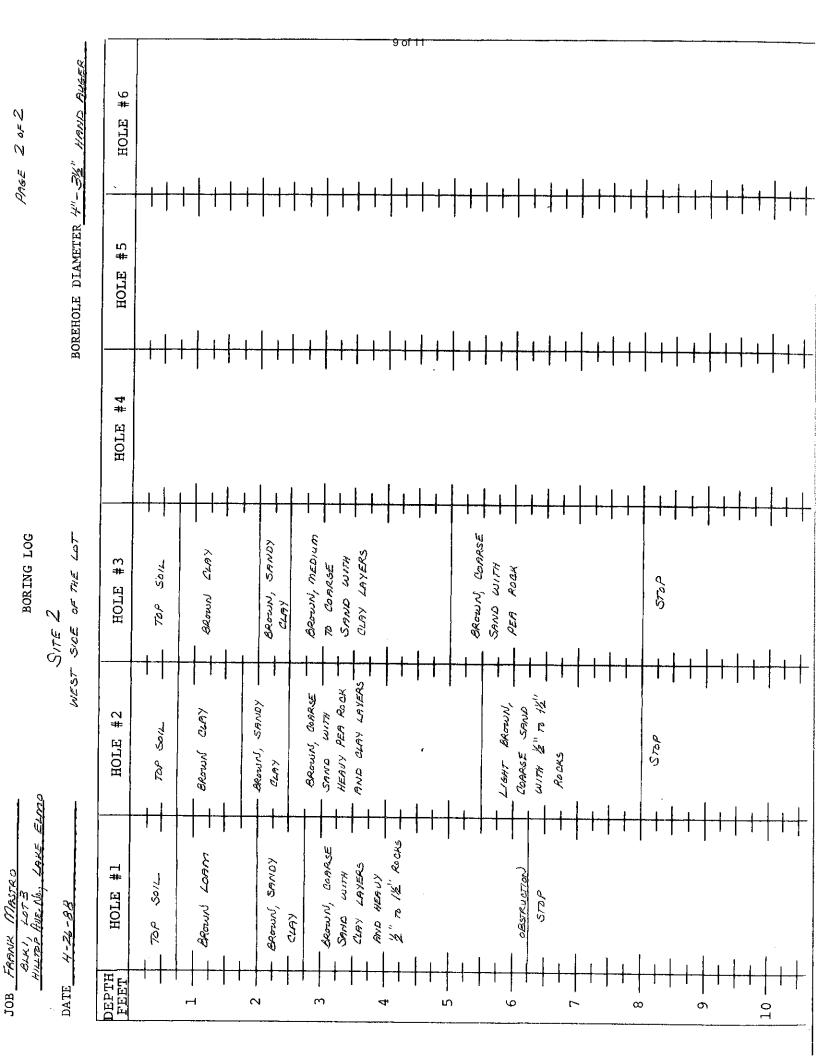
Brian Humpal

Cc Washington County Department of Public Health & Environment



		5091 Hilltop Ave N, L				
BC		Inspect Minnesota	Date: 8/6/18			
	Auger Used:	Hand/Bucket	Classi	fication System:	USDA	
E	Boring Number:	1		Boring Number:		
Surface Elevation o Boring	1FI 5	und surface as last nfield trench	Surface Elevation o Boring	of		
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	Soils En	countered	
32-49 49-60 60-80	.0YR 3/4 Medium Co 10YR 3/4 Very 10YR 4/4 M Medium Coa 10YR 5/4 M Few Fine	/2 Silt Loam oarse Sand & Loamy Sand Medium Coarse Sand edium Sand With arse Sand Layers edium Sand With a Sand Layers				
80" C	Depth To End Of B	oring Or Redox	]	Depth To End Of Bo	oring Or Redox	
Same E	Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System	
		Of Distribution Media			f Distribution Media	
<u>≥</u> 40" C	Of Separation			Of Separation		
	End Of Paring At	80"		End Of Daving AL		
	End Of Boring At:			End Of Boring At:		
	Redox Present At:	None	Redox Present At:			
Standing V	Water Present At:	None	Standing Water Present At:			

Bottom Of Distribution Medium At: 44 Inches



### **DISCLAIMER**

#### Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing

#### Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

- 1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
- 3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
- 4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
- 5. Minimum Compliance Inspection requirements relative to this inspection and this report include <u>only</u> verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
- 4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
- 5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
- 6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
- 7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1<sup>st</sup> through April 1<sup>st</sup>) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
- 8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

# Subsurface Sewage Treatment Systems Non-transferable Business License

11 of 11

# Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

## Specialty Area(s):

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

# **Designated Certified Individual(s):**

Cert #	Name	<b>Certification Expires:</b>
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	

## MINNESOTA POLLUTION CONTROL AGENCY

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

Charles K Thompson, Supervisor Certification & Training Unit