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: January 16, 2018 **Time:** 9:00 AM **Owner:** Tom Miles **Inspection Address:** 11245 142nd St S, May Twp, MN **Site Conditions:** 7" Snow 14" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2004, which were on file at Washington County. This older system (installed in 1992) consists of a pre-cast septic tank and a rock trench drainfield. This house is presently vacant.

Predicated on my inspection of the system 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

Instructions: 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	For local tracking purposes:
System Status	
System status on date (mm/dd/yyyy):1/16/2018	
· · · · · · · · · · · · · · · · · · ·	npliant – Notice of Noncompliance rade 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 threat the Tank Integrity (Compliance Component #2) – Failing to protect groundwate Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate Soil Separation (Compliance Component #4) – Failing to protect groundwate	eat to public health and safety er tect groundwater ater
☐ Operating permit/monitoring plan requirements (Compliance Component #	i5) – Noncompliant
☐ Operating permit/monitoring plan requirements (Compliance Component #	5) – Noncompliant
Property Information Parcel ID# or Sec/Twp/Range	
Property Information Parcel ID# or Sec/Twp/Rang Property address: 11245 142 nd St N, May Twp, MN 55082 Reason for	ge:
Property Information Parcel ID# or Sec/Twp/Range Property address: 11245 142 nd St N, May Twp, MN 55082 Reason for Property owner: Tom Miles Owner's por	ge: or inspection: Property Transfer ohone: 612-401-1110
Property Information Parcel ID# or Sec/Twp/Range Property address: 11245 142 nd St N, May Twp, MN 55082 Reason for Property owner: Tom Miles Owner's property Owner's representative: Representative	ge:
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Property Information Property Information Property address: 11245 142 nd St N, May Twp, MN 55082 Property owner: Tom Miles Owner's representative: Local regulatory authority: Washington County Brief system description: A pre-cast septic tank and a rock trench drainfield. 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 unknow possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Brian Humpal Certification Business name: Inspect Minnesota, Midwest Soil Testing Licen Inspector signature: Pho Necessary or Locally Required Attachments	pe:

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

Property address: 11245 142nd St N, May Twp, MN 55082

Inspector initials/Date: 01/16/2018

1.	lm	mpact on Public Health — Compliance component #1 of 5						
	Compliance criteria:			Verification method(s):				
		stem discharge sewage to the bund surface.	☐ Yes	⊠ No		1 9 , 1		
		stem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system		
		rstem cause sewage backup into relling or establishment.	☐ Yes	⊠ No		System requires "emergency" pumping Performed dye test		
		Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
		omments/Explanation: one of the above found.						
	INC	one of the above lound.						
•	_							
2.		ank Integrity — Compliance com	ponent	#2 of 5				
	Co	Compliance criteria:			Verification method(s):			
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		Probed tank(s) bottom Examined construction records		
	Se	epage pits meeting 7080.2550 may be				Examined Constitution records Examined Tank Integrity Form (Attach)		
	COI	mpliant if allowed in local ordinance.				Observed liquid level below operating depth		
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	Examined empty (pumped) tanks(s)Probed outside tank(s) for "black soil"			
		es, which sewage tank(s) leaks:						
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.				 ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) 			
	Comments/Explanation: Lowered underwater camera into tank - baffles and tank walls OK.							
3. Other Compliance Conditions – Compliance component #3 of 5						3 of 5		
	a.	-	-	-				
	 a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown *System is an imminent threat to public health and safety 							
Explain:								
	c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☐ No *System is failing to protect groundwater					ned by inspector ☐ Yes* ☒ No		
		Explain:						

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Property address: 11245 142nd St N, May Twp, MN 55082

Inspector initials/Date: 01/16/2018

4.	Soil Separation – Compliance compor	nent #4 c	of 5				
	Date of installation: 1992 & 2003	Unkr	nown	V	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes □ No		Soil observation does not expire. Previous soil observations by two independent parties are sufficient,			
	Compliance criteria:			ш	nless site conditions have been al		
	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	□ No		requirements differ. Conducted soil observation(s) (Attach born Two previous verifications (Attach boring In Not applicable (Holding tank(s), no drainfield)		
	separation distance from periodically saturated soil or bedrock.			_ L _	Unable to verify (See Comments/ Other (See Comments/Explanation		
	Non-performance systems built April 1, 1996, or later or for non-performance	⊠ Yes	□No	С	Comments/Explanation:		
	systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	Areas or serving a food, Reviewed previous of Revi		eviewed previous compliance inspections and permit record	·		
	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	□No	<u>In</u>	ndicate depths of elevations		
	or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			_A.	Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				Periodically saturated soil/bedrock System separation		
				D.	Required compliance separation*		
	Any fine!! analysis shave indicates the system is				May be reduced up to 15 percent in Drdinance.	f allowed by Local	
				_ `			
5.	5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable						
	Is the system operated under an Operating Per		☐ Yes		•		
	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?			g?	☐ 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, 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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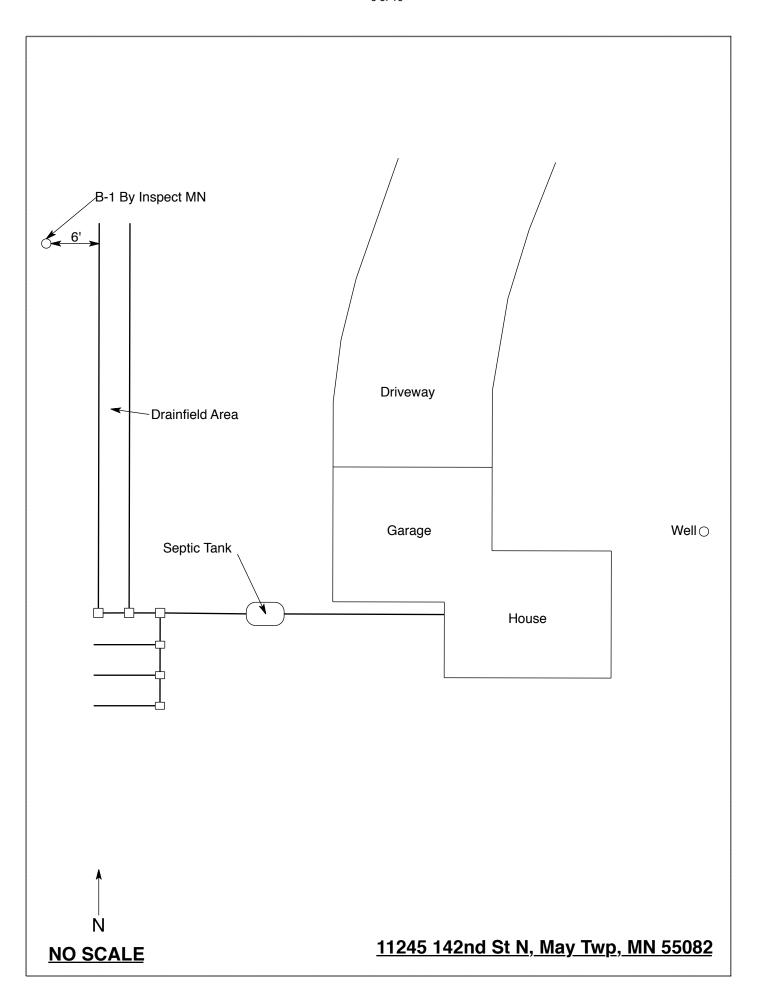
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

This information will be used for the purpose of conducting all this ex-				
Date of Inspection: January 16, 2018	Time: 9:00 AM			
Property Address: 11245 142 nd St N, May Twp, MN	Zip: 55082			
Property Owner: Tom Miles	Phone: 612-401-1110			
Tank(s) Tank(s)Material Soil Treatment System □ Septic 1 □ Fiberglass □ Rock trench □ Aerobic □ Plastic □ Gravelless trench □ Lift □ Metal □ Chamber trench □ Holding □ Concrete □ Seepage bed □ Other: □ Block □ Mound □ Other □ At-grade	Other Alternative system Experimental system Cesspool system Other system			
Are the tank maintenance covers accessible? Yes No *If the performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface access and the second surface access access and the second surface access access and the second surface access access access and the second surface access acc	ers should be made accessible to he system.			
Year house built: 1992 Year septic installed: 1992 & 03	` `			
	sidents in home?			
Number of bedrooms? 4 Are all floors drained by g				
Garbage disposal? Whirlpool bath?				
More than one system (laundry, etc.)?				
Does this property have any footing drain tiles connected 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 serving other bu	ildings?			
Location of septic system on lot? West Side				
Location of water well on lot? East Side	well a deep well? Y			
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? If yes, explain:				
When was the system last pumped? 2014 Name of pum	per:			
How often pumped in previous years? Is system	on a monitoring plan?			
Have you received notices from any government agency concerning this system?				
Is your property located in a shoreland management area? Y				
Do you have any additional information that should be 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				

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



Log Of Soil Borings

Location of Project: 11245 142nd St N, May Twp, MN 55082					
Borings Made By: Inspect Minnesota				Date:	1/16/18
Auger Used: Hand/Bucket			Classi	fication System:	USDA
В	Boring Number:	1		Boring Number:	
Surface Same ground surface as last		Surface Elevation of Boring	of		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	<u>icountered</u>
0-9 9-24 24-28 28-32 32-40 40-70 70-80	10YR 3/ 10YR 4/4 10YR 4/4 Sand ≈35% Rc 10YR 4/4 10YR 5/4 L Trace 10YR 4/4 S Trace	72 Clay Loam 74 Clay Loam 74 Clay Loam 74 Clay Loam 79 Loam With Gravel 79 Sandy Loam 79 Sand With 79 Of Gravel 79 andy Loam With 79 Of Gravel			
80" Depth To End Of Boring Or Redox		[Depth To End Of Bo	oring Or Redox	
Same Elevation Of Boring Relative To System		E	Elevation Of Boring	Relative To System	
-47" Depth To Bottom Of Distribution Media ≥33" Of Separation			Depth To Bottom O Of Separation	of Distribution Media	
	nd Of Boring At:	80"		End Of Boring At:	
Redox Present At: None				Redox Present At:	
Standing Water Present At: None			Standing	Water Present At:	

Bottom Of Distribution Medium At: 47 Inches

Logs of	f Soil Borings			
location of Project 1124 -	1H2 of (t. B-3!			
	D. H. Dace 9-25-04			
Classification System: AASHO; USDA-SCS; Unified; other				
Auger used (check two): Hand , or Pou	ver; Flight, or Bucket; other			
Addet daed (check two). Hand, or to				
Depth, Boring number	Depth, Boring number			
in Surface elevation and we	in Surface elevation			
Tro.4- a D-1/2.	feet			
^ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0			
0-6" Tophail				
1- 6-30 // CLAY 10 YR 5/4 LOAM	1			
10 VO = /4 CLAY				
2 - LOAM	2			
	1.			
3- 30-42"	3 —			
164R5/6 CLAY				
4- 16712316 COAM	4 -			
10/				
5 - \ \ \ 42-48"	5 —			
7.5425/4				
6- LOAMY SAMD	6			
LONKY Shirt				
7- 49-84	7 —			
16426/16 5AND				
8 -	8 —			
1111 21" - (1000-				
HAS+36" OF SEPARATION.				
7	End of boring at fee:			
ind of boring at feet.	Standing water table:			
Standing water table:	Present at feet of depts.			
resent at feet of depth,	hours after boring.			
hours after boring.	Not present in boring hole			
lot present in boring hole	not present in outing noise			
fortled soil:	Mottled soil:			
Observed at feet of depth.	Observed at feed of depth			
Not present in boring hole	Not present in boring hole			
Observations and comments:	Observations and comments:			
SOSCIABITORS and Commence.				
TOP OF DISTRIBUTION MEDIUM AT: _	INCHES			
BOTTOM OF DISTRIBUTION MEDIUM A				
REMARKS:				

WERE SOIL SAMPLES SPRAYED? YES

DISCLAIMER

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

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

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