



Minnesota Pollution Control Agency

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

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.

For local tracking purposes:

RECEIVED

OCT 25 2016

PUBLIC HEALTH

System Status

System status on date (mm/dd/yyyy): 7/24/2015

[X] Compliant - Certificate of Compliance
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

[ ] Noncompliant - Notice of Noncompliance
(See Upgrade Requirements on page 3)

Reason(s) for noncompliance (check all applicable)

- [ ] Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety
[ ] Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety
[ ] Tank Integrity (Compliance Component #2) - Failing to protect groundwater
[ ] Other Compliance Conditions (Compliance Component #3) - Failing to protect groundwater
[ ] Soil Separation (Compliance Component #4) - Failing to protect groundwater
[ ] Operating permit/monitoring plan requirements (Compliance Component #5) - Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range:

Property address: 420 Emerald Lane, Mahtomedi, MN 55115 Reason for inspection: Property Sale

Property owner: Scott Krohn Owner's phone: 908-559-2559

Owner's representative: Representative phone:

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6673

Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, and a seepage bed.

Comments or recommendations: Although not a compliance criteria, it should be noted that the lift pump alarm is currently not operational. This alarm should be repaired as soon as possible to notify the occupants of the house in the event of a pump malfunction.

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Humpal Certification number: L5342

Business name: Inspect Minnesota, Midwest Soil Testing License number: L2896

Inspector signature: Brian Humpal Phone number: 651-492-7550

Necessary or Locally Required Attachments

- [X] Soil boring logs [X] System/As-built drawing [ ] Forms per local ordinance
[X] Other information (list): Report Summary, Property Information, Disclaimer, License

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

**Compliance criteria:**

System discharge sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharge sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System cause sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.**

- Verification method(s):**
- Searched for surface outlet
  - Searched for seeping in yard/backup in home
  - Excessive ponding in soil system/D-boxes
  - Homeowner testimony (See Comments/Explanation)
  - "Black soil" above soil dispersal system
  - System requires "emergency" pumping
  - Performed dye test
  - Unable to verify (See Comments/Explanation)
  - Other methods not listed (See Comments/Explanation)

Comments/Explanation:  
None of the above found.

**2. Tank Integrity – Compliance component #2 of 5**

**Compliance criteria:**

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

- 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)

Comments/Explanation:  
Lowered underwater camera into tanks - baffles and tank walls OK.  
Lift pump was operational at the time of the inspection.  
Although not a compliance criteria, it should be noted that the lift pump alarm is currently not operational. This alarm should be repaired as soon as possible to notify the occupants of the house in the event of a pump malfunction.

**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.  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**

Explain:

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

Date of installation: 2001  Unknown  
 Shoreland/Wellhead protection/Food Beverage Lodging?  Yes  No

**Compliance criteria:**

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

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:  Yes  No

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 or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required)  Yes  No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

**Any "no" answer above indicates the system is Failing to Protect Groundwater.**

**Verification method(s):**

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

**Comments/Explanation:**

Reviewed previous compliance inspection from 2012.  
 Reviewed design and permit records.

**Indicate depths of elevations**

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

\*May be reduced up to 15 percent if allowed by Local Ordinance.

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

Is the system operated under an Operating Permit?  Yes  No If "yes", A below is required

Is the system required to employ a Nitrogen BMP?  Yes  No If "yes", B below is required

BMP=Best Management Practice(s) specified in the system design

**If the answer to both questions is "no", this section does not need to be completed.**

**Compliance criteria**

a. Operating Permit number: _____ Have the Operating Permit requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the required nitrogen BMP in place and properly functioning?	<input type="checkbox"/> Yes <input type="checkbox"/> 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.

# Inspect Minnesota & Midwest Soil Testing

## Subsurface Sewage Treatment System Owner/Occupant Information

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

Date of Inspection: July 24, 2015	Time: 11:45 AM
Property Address: 420 Emerald Lane, Mahtomedi, MN	Zip: 55115
Property Owner: Scott Krohn	Phone: 908-559-2559

(Check appropriate sewer system component and indicate on site sketch on back of form).

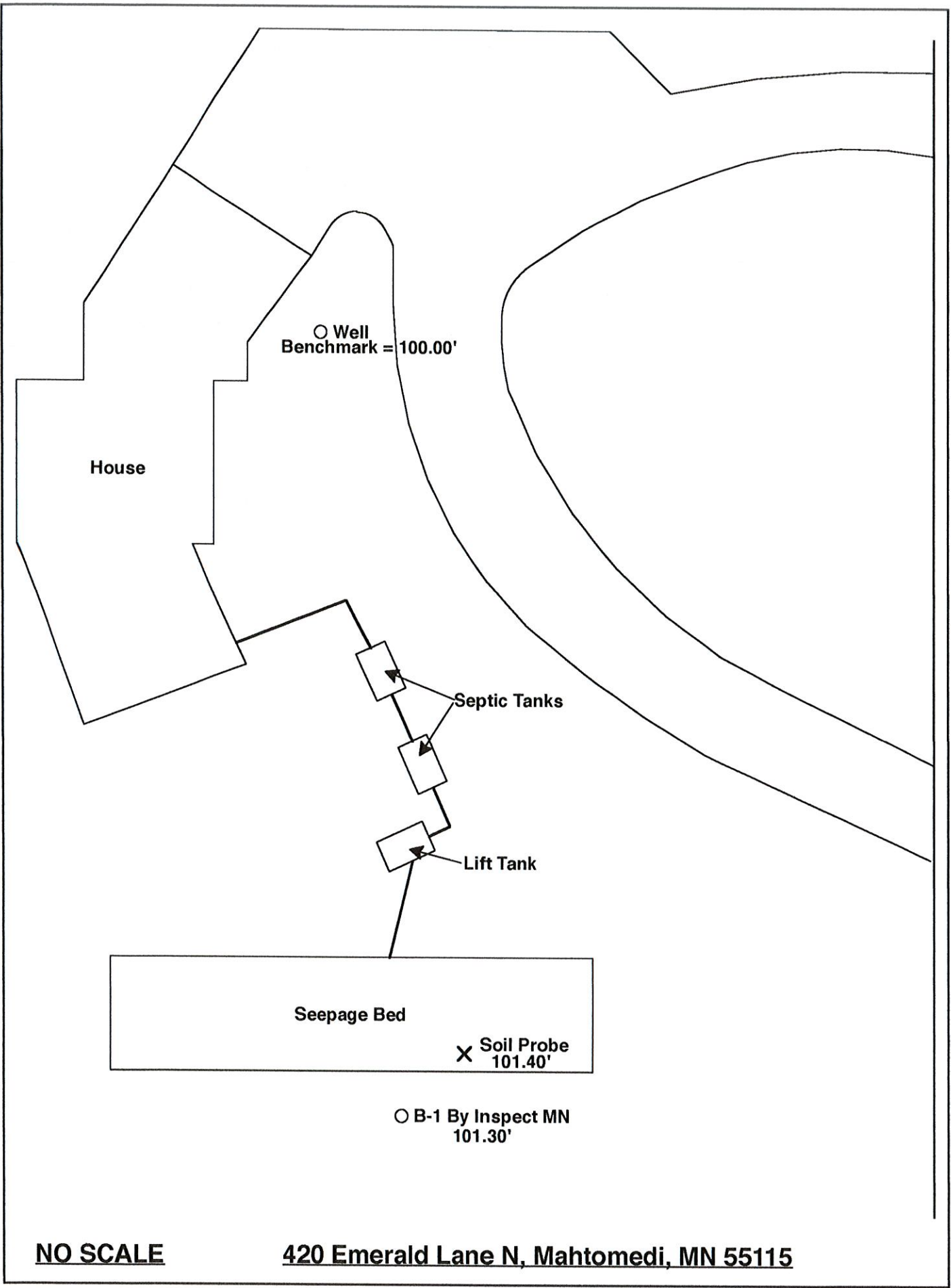
Tank(s)	Tank(s)Material	Soil Treatment System	Other
<input checked="" type="checkbox"/> Septic 2	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Rock trench	<input type="checkbox"/> Alternative system _____
<input type="checkbox"/> Aerobic	<input type="checkbox"/> Plastic	<input type="checkbox"/> Gravelless trench	<input type="checkbox"/> Experimental system _____
<input type="checkbox"/> Lift	<input type="checkbox"/> Metal	<input type="checkbox"/> Chamber trench	<input type="checkbox"/> Cesspool system _____
<input type="checkbox"/> Holding	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Seepage bed	<input type="checkbox"/> Other system _____
	<input type="checkbox"/> Block	<input type="checkbox"/> Mound	
	<input type="checkbox"/> Other _____	<input type="checkbox"/> At-grade	

Have any other compliance inspections been done on this system? Y		When/who? 2012/BHI
Year house built: 1986	Year septic installed: 2001	Tank size (gals.): 2-1000
How long has seller owned the property? 2012		Number of residents in home? 5
Number of bedrooms? 5	Are all floors drained by gravity? Y	
Garbage disposal? Y		Whirlpool bath? Y
More than one system (laundry, etc.)? N		
Does this property have any footing drain tiles connected to the septic system? N		
Are any buildings on this property such as garages or out-buildings connected to this system? N		
Are there any additional systems on this property serving other buildings? N		
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 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:		
When was the system last pumped? 2014		Name of pumper:
How often pumped in previous years? Every 3		Is system on a monitoring plan? N
Have you received notices from any government agency concerning this system? N		
Is your property located in a shoreland management area? Y		
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 unit of government 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: Scott Krohn's Signature On File

Date: 7/24/2015



**NO SCALE**

**420 Emerald Lane N, Mahtomedi, MN 55115**

## Log Of Soil Borings

Location of Project:		420 Emerald Lane N, Mahtomedi, MN 55115	
Borings Made By:		Inspect Minnesota	Date: 6/4/12
Auger Used:		Hand/Bucket	Classification System: USDA
Boring Number:		1	Boring Number:
Surface Elevation of Boring	101.30' Benchmark = 100.00' top of existing well		Surface Elevation of Boring
Depth In Inches	<u>Soils Encountered</u>	Depth In Inches	<u>Soils Encountered</u>
0-5 5-18 18-30 30-72	7.5YR 2.5/2 Loamy Fine Sand 7.5YR 3/4 Fine Sand 7.5YR 4/4 Fine Medium Sand, Trace Gravel 7.5YR 4/4 Medium Sand With Gravel & Cobbles		
98.57'	Elevation To Bottom Of Drainfield		Elevation To Bottom Of Drainfield
-95.30'	Depth To Redox Or End Of Boring		Depth To Redox
≥3.27'/39"	Of Separation		Of Separation
End Of Boring At:		72"	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: 34" Or Elevation 98.57' At Soil Probe

JOB TOM CONROY  
420 EMERALD LANE  
MARTINEAU

BORING LOG

BOREHOLE DIAMETER 4" - 3 1/4" - 2 1/2" HAND BLOWER

DATE 7-3-01

DEPTH FEET	HOLE # 4	HOLE # 5	HOLE # 6	HOLE # 7	HOLE # 8	HOLE # 9	HOLE # 10
1	TOP SOIL	TOP SOIL					
2	LIGHT BROWN MEDIUM SAND - SOME FINES	LIGHT BROWN FINE TO MEDIUM SAND					
3							
4							
5							
6	OBSTRUCTION STOP						
7	OKAY 6'	OKAY 5'6"					
8							
9							
10							

JOB EMERALD POINTE  
 LOT 3, BLK 2, LONG LAKE  
 OAKHOMER

BORING LOG

EXISTING HOUSE  
 FUTURE AREA

DATE 6-5-00

BOREHOLE DIAMETER 4'-3/8" 2 1/2" HAND RIGGED

DEPTH FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	SOIL CLASSIFICATION
1	TOP SOIL LIGHT BROWN, MEDIUM SAND	TOP SOIL LIGHT BROWN, MEDIUM SAND	TOP SOIL LIGHT BROWN, FINE TO MEDIUM SAND			LIGHT BROWN SAND 4/3 BROWN SAND 7.5YA 4/4
2	BROWN, MEDIUM TO COARSE SAND -					
3	ROCKS					
4						
5	OBSTRUCTION STOP					
6		WATER LAYER - IRON LIGHT BROWN, MEDIUM SAND STOP	LIGHT BROWN, MEDIUM SAND			
7	OKAY 4'10"		STOP			
8		OKAY 6'	OKAY 6'			
9						
10						



# Soil Boring Log

Block 2 Lot 3

ISTS 96

Client: TOWN & COUNTRY - MAHTJEDI LONG LAKE  
 Address: \_\_\_\_\_

Date: 4-04-00

Location: Block 2 Lot 3 - APPROX. CENTER OF PROPOSED SEPTIC SITE

Soil Type: \_\_\_\_\_

Disturbed/ Compacted yes  no

# of Bedrooms: \_\_\_\_\_

Type of observation: Probe Pit  Boring

Garbage Disposal: yes  no

Type: I II III IV

Flow: \_\_\_\_\_

Parent Material: Till  Outwash  Loess  Bedrock  Alluvium

Vegetation: Wet  Dry  Unknown

Slope Form: \_\_\_\_\_

Slope: \_\_\_\_\_ %

Drainage: Good  Problems  Solutions \_\_\_\_\_

Floodplain: yes  no

Elevation of Boring: \_\_\_\_\_

Depth of Water: no standing water

Depth to Bedrock: > 8'

Depth of Sat. Soil: > 8'

Max Depth of System: OK @ 3'

Soil Sizing Factor: \_\_\_\_\_

Linear Loading Rate: \_\_\_\_\_

Well Information: \_\_\_\_\_

Location: \_\_\_\_\_

Depth: \_\_\_\_\_

Casing Depth: \_\_\_\_\_

10' of Imp. material: yes  no

Depth (inches)	Texture	Color	Structure
0-8	loamy top soil	10 yr 2/2 very dark brown	Blocky Platy Prismatic None
8-16	loamy sand fine & med sand, little gravel	7.5 yr 4/4 brown	Blocky Platy Prismatic None
16-72	fine sand some gravel moist	5 yr 4/4 reddish brown	Blocky Platy Prismatic None
72-96	gravelly coarse and med sand	7.5 yr 4/4 brown	Blocky Platy Prismatic None
			Blocky Platy Prismatic None

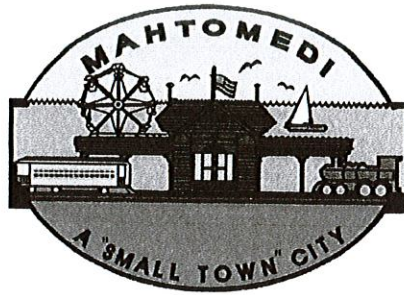
Additional Notes: Coarse material is subangular to subrounded.

Preliminary design: \_\_\_\_\_

Trench  Bed \_\_\_\_\_ Atgrade \_\_\_\_\_ Mound \_\_\_\_\_ Holding Tank \_\_\_\_\_

Gravity Dist.  Pressure Dist. \_\_\_\_\_

Sand: Serial  Pressure \_\_\_\_\_ Liner 10 of 42 Clay: Liner \_\_\_\_\_



July 28, 2016

**Re: Upcoming Septic System Inspection Deadline – 420 Emerald Lane**

Dear Property Owner:

This letter is to inform you that at this time the City of Mahtomedi has not received a copy of a certified inspection report of your septic system. The new City Ordinance adopted on December 15, 2015 requires that all property owners with septic systems have a certified inspection completed and reported to Washington County and the City of Mahtomedi on or before **December 31, 2016**. This requirement is for all septic systems regardless of age and location in the City.

Each individual property owner is responsible to schedule an inspection for their individual septic system. A list of certified inspectors can be found at the following website: <https://www.pca.state.mn.us/water/ssts-search> or by calling the Minnesota Pollution Control Agency at 800-657-3864.

The City has also provided a commonly asked question fact sheet for septic system inspections. This fact sheet is attached to this letter for your use.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Neilson".

Scott Neilson  
City Administrator

Cc: Bruce Thielen, Public Works Director  
Jay Kennedy, City Engineer  
Ben Eggan, White Bear Lake Code Enforcement

600 Stillwater Road, Mahtomedi, MN 55115  
Phone: 651-426-3344, Fax: 651-426-1786  
<http://www.ci.mahtomedi.mn.us>