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## ZIERKE SOIL TESTING

Larry Brown  
22145 Kirk Ave  
Scandia, MN 55073

6/7/2019

Dear Larry Brown,

At your request, I have conducted a septic inspection to determine the compliance status of your system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your system is compliant. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. Proper care and maintenance of the system can prolong lifespan – see <https://septic.umn.edu/septic-system-owners> for more information. A copy of this report will be filed with your local unit of government for their records.

Sincerely,



Benjamin Zierke

ADDRESS:  
28587 Jeffrey Ave  
Chisago City, MN 55013

PHONE 651-249-1346  
EMAIL [benzierke@gmail.com](mailto:benzierke@gmail.com)

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**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

**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): 6/7/2019

**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: 22145 Kirk Ave Scandia, MN 55073 Reason for inspection: Sale

Property owner: Larry Brown Owner's phone: 651-485-2625

or  
 Owner's representative: \_\_\_\_\_ Representative phone: \_\_\_\_\_

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6655

Brief system description: (2) 1000 gallon septic tanks, (1) 1000 gallon lift station, mound dispersal system (see comments)

**Comments or recommendations:**

There are two mounds on site. The first, constructed in 1998, is a 10'x60' rock bed mound and has been blended into the hill side. The second mound (from 2011) is a 10'x75' rock bed mound and is a visible mound in the yard. A valve was installed in the lift station to allow the homeowner to alternate between the two systems. The original mound has two previous soil verifications on file with Washington County and has required separation. The new mound has one soil verification on file, elevations in this report refer to that system.

### 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: Benjamin Zierke Certification number: C9594

Business name: Zierke Soil Testing License number: L119

Inspector signature:  Phone number: 651-249-1346

### Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other information (list): Pumping Report

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

**Compliance criteria:**

System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes 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.**

**Comments/Explanation:**

Larry has not had any issues with the systems.

**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)

**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.**

**Comments/Explanation:**

Tanks pumped and OK'ed by Olson's 1/11/2019 during pump replacement. Checked tanks during site visit 6/6/2019 - no issues noted.

**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 be 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: 11/25/2011  Unknown  
(mm/dd/yyyy)

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.

**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:**

**Indicate depths or elevations**

A. Bottom of distribution media	101.4'
B. Periodically saturated soil/bedrock	98.0'
C. System separation	3.4'
D. Required compliance separation*	3.0'

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

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

**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?  Yes  No
- 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, 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.

## Logs of Soil Borings

Location of Project: 22145 Kirk Ave Scandia, MN 55073

Borings Made by Ben Zierke

Date:

6/6/2019

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-----	-----	0-----	-----
0-12"	10YR 3/3 sandy loam	0-20"	sandy loam fill
12-16"	10YR 5/4 sandy loam	20-28"	10YR 5/4 fine sandy loam, redox present below 24"
16-32"	7.5YR 5/6 sandy loam, redox present below 28"		
32-36"	7.5YR 4/4 clay loam		

End of boring at 3 feet

**Standing water table:**

Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring

Standing water not present in hole

**Mottled Soil:**

Observed at 2.3 feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at 2.3 feet

**Standing water table:**

Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring

Standing water not present in hole

**Mottled Soil:**

Observed at 2 feet of depth

Mottled soil not present in bore hole

Comments:

Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0-----	-----	0-----	-----

End of boring at \_\_\_\_\_ feet

**Standing water table:**

Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring

Standing water not present in hole

**Mottled Soil:**

Observed at \_\_\_\_\_ feet of depth

Mottled soil not present in bore hole

Comments:

End of boring at \_\_\_\_\_ feet

**Standing water table:**

Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring

Standing water not present in hole

**Mottled Soil:**

Observed at \_\_\_\_\_ feet of depth

Mottled soil not present in bore hole

Comments:

Relative Elevations (in decimal feet)

B1: 100.0, redox 97.6  
B2: 100.0, redox 98.0

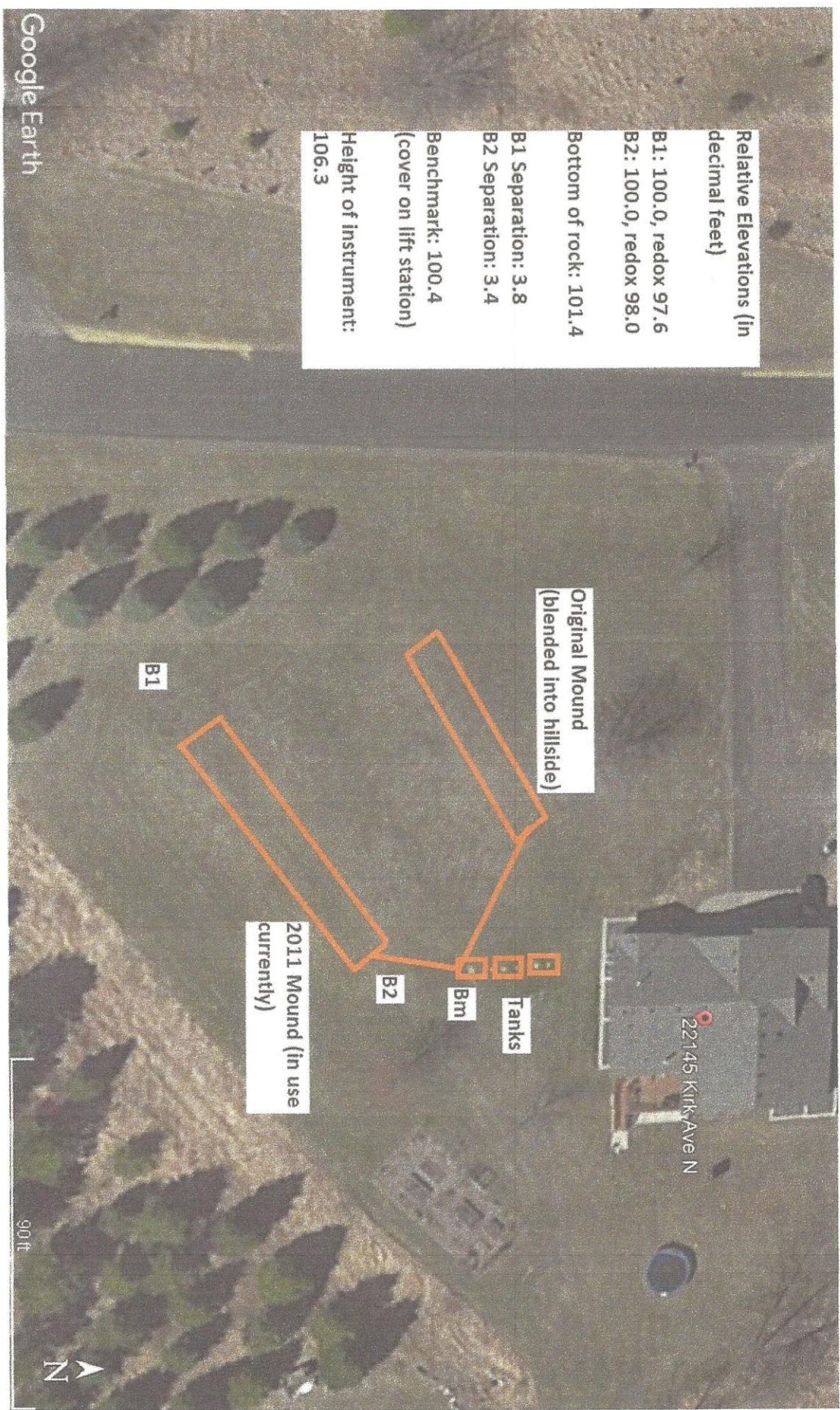
Bottom of rock: 101.4

B1 Separation: 3.8

B2 Separation: 3.4

Benchmark: 100.4  
(cover on lift station)

Height of instrument:  
106.3



Original Mound  
(blended into hillside)

B1

2011 Mound (in use  
currently)

B2

Bm

Tanks

22145 Kirk Ave N

90ft





DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
 GOVERNMENT CENTER  
 14949 62nd STREET NORTH P.O. BOX 6 STILLWATER, MN 55082-0006  
 Office: 651-430-6655 TTY: 651-430-6246 FAX: 651-430-6730

### Subsurface Sewage Treatment System Maintenance Permit

This section must be completed in its entirety to constitute a valid maintenance permit. This permit must be completed prior to performing maintenance activities and remain on-site for the duration of the maintenance activity.

Date of Maintenance: 1-11-2019 Reason for Maintenance: Pump replaced + maintenance  
 Property Address: 22045 Kirk Ave. Property Owner's Name: Jenny Olson  
 Municipality: Scandia ZIP: 55073 Property Identification Number: \_\_\_\_\_  
 Maintenance Permit No: 63972-4043 Maintainer Name and License No. Olson's Sewer Service/L216

Maintenance Performed	Tank(s) with liquid level measured (if not pumped)
<input checked="" type="checkbox"/> Tank(s) Pumped <input type="checkbox"/> Sludge and scum measured Do tanks need to be pumped? <input type="checkbox"/> Yes <input type="checkbox"/> No (if no provide measurements)	Liquid Level of Tank _____ in Sludge level in Tank _____ in Scum Level in Tank _____ in Sludge + Scum _____ / Liquid Level _____ X 100 = % Sludge & Scum _____ Tanks must be pumped if 25% or greater

- Access used to remove septage:  Maintenance Hole  Other (enter authorization code)
- Were all covers securely replaced?  Yes  No
- Is there evidence of tank leakage from a septic, holding, pretreatment or pump tank below the operating depth or evidence of damaged, cracked, or structurally unsound maintenance hole covers?  Yes  No

Tank	Leaking Out	Leaking In	Cover Damage
Septic/Holding Tank #1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Septic/Holding Tank #2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pretreatment Tank	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pump Tank	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

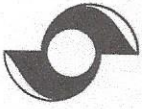
4. How many gallons of septage were removed?  
 Tank #1 1,000 gal Tank #2 1,000 gal Pretreatment tank \_\_\_\_\_ gal Pump Tank 500 gal

5. Other information: List any troubleshooting, minor repairs conducted, tank safety concerns, or other concerns.  
Pump replacement.

6. Location of septage disposal: Mt.

Olson's Sewer Service Inc  
 17638 Lyons St NE  
 Forest Lake, MN 55025  
 License# 216 P: 651-464-2082

Maintenance activities must be reported to the Department within 90 days.



**Olson's Sewer Service, Inc.**  
**Olson's Excavating Service**

17638 Lyons Street NE  
 Forest Lake, Minnesota 55025  
 www.olsonsinthepink.com

Ph (651) 464-2082  
 Fax (651) 464-9029

# INVOICE

DATE INVOICE #

1/15/2019 88103

**PAID**  
**01/15/2019**

BILL TO:

Larry Brown  
 22145 Kirk Avenue North  
 Scandia, MN 55073

	P.O. NUMBER	TERMS	PROJECT
		Due on receipt	

QUANTITY	DESCRIPTION	RATE	AMOUNT
	Wastewater removal and disposal to 2900 gallons to include inspection of inlet and outlet baffles as possible, and scum and sludge evaluation when cleaned through the maintenance opening. All wastewater was disposed of for regulated and monitored treatment at a wastewater treatment facility.	520.00	520.00
	\$17.00 SSTS Pumping Permit/Report to be filed with appropriate authorities upon receipt of full payment;	17.00	17.00
	01/14/18 Installation of a new WEO511H 1/2 hp Gould pump and SJE Pump Master Sensor Alarm Float and Pump Float Switches to include a three year warranty on the parts only; labor/ pumping additional. Cost for today to include any parts and labor.	1,391.40	1,391.40
1½% interest will be charged after 30 days, (a minimum charge of \$.50).			

Thank you for your business!

**TOTAL \$1,928.40**

**Please note the invoice number on your payment and retain this copy for your records. Thank you!**





# SOIL BORING & PERCOLATION TEST REPORT

PROJECT Lot 3 Block 2 Williamsburg  
New Seaside

DATE 8/22/97

CLIENT Larry Lunge

RECEIVED

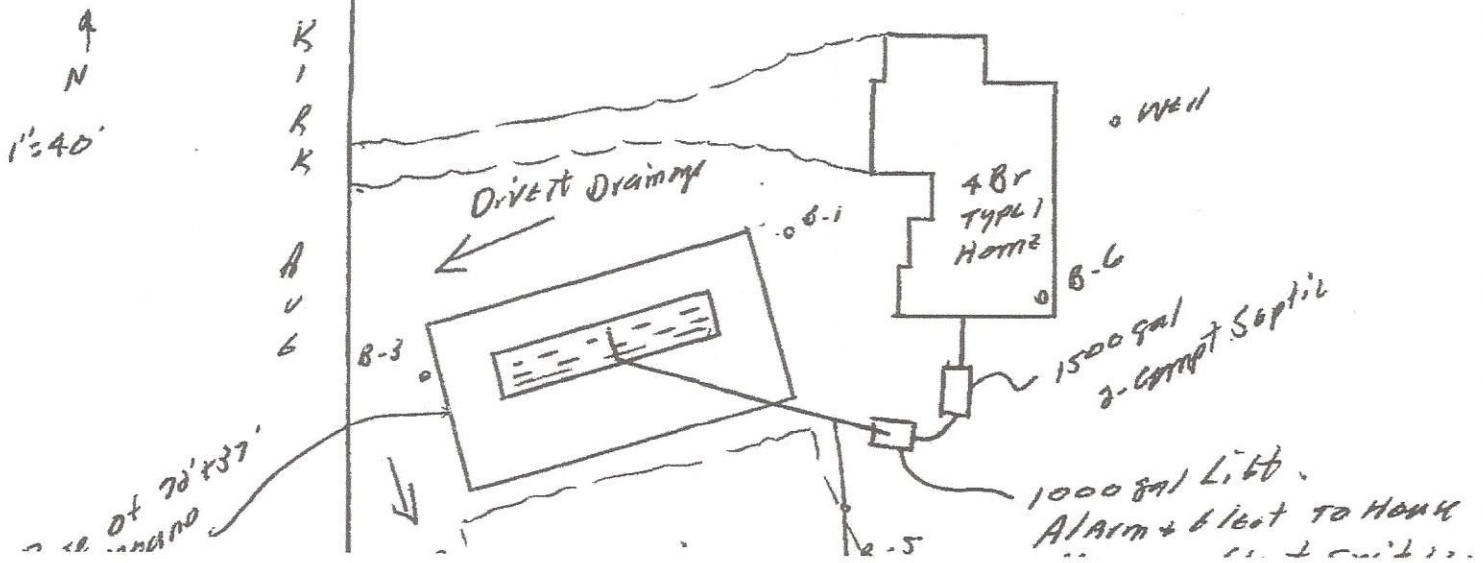
SEP 29 1997

HELM

ASSUMED ELV - 100 @ N.W. Lot Corner pin

NO. B-1	ELV 98.25	NO. B-2	ELV 101	NO. B-3	ELV 99	NO. B-4	ELV 98.5	NO. B-5	ELV 97
0-1' SANDY 10AM 10yr 5/4		0-8" SANDY 10AM 10yr 4/4		0-1' SANDY 10AM 10yr 4/4		0-1' SANDY 10AM 10yr 5/4		0-1' SANDY 10AM 10yr 4/4	
1-2 1/2' SANDY Clay loam 10yr 6/4		8"-2 1/2' SANDY Clay loam 10yr 5/4-6/4		1-3' LOAM + SANDY Clay 10AM 10yr 5/4-6/4		1-2 1/2' SANDY Clay loam 10yr 6/4		1-3' Clay loam 10yr 5/4	
Notbed at 3'		Notbed at 3'		Notbed at 2 1/2'		Notbed at 3'		Notbed at 18"	
NO. B-6	ELV 98	NO.	ELV	NO.	ELV	NO.	ELV	NO.	ELV
0-1' SANDY 10AM 10yr 4/4									
1-4 1/2' Clay 10AM									
Notbed at 2 1/2'									
Soft at 4'									
<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     Septic Area for Home to North                 </div>									

SKETCH PLAN:





# SOIL REVIEW/SEPTIC PERMIT APPLICATION

RECEIVED

SEP 29 1997

HELM

Washington County Health, Environment & Land Management

14900 61st Street N., P.O. Box 3803

Stillwater, MN 55082-3803

612/430-6708 or 612/430-6656 FAX 612/430-6730

22145 Kirk Ave N

FEE

\$150.00 app fee Paid  
Receipt # 28580  
FOR COUNTY USE ONLY

150

Make checks payable to WASHINGTON COUNTY TREASURER

\$100 - Application Fee (site review)  
\$100 - Drainfield System Permit Fee  
\$150 - Mound System Permit Fee

\$25 - Additional Review Fee (1 hour minimum)  
\$100 base fee, plus \$50 per lot - Subdivision Fee

94-97157

Legal Description and Parcel Identification Number  
Lt. 3, Blk. 2 Williamsburg Addition 91130-2150

Applicant Lundy and Company Address 6561 Fawn Lake Dr. Stacy City Stacy State MN Zip 55079 Phone 462-1467

Owner (if different from applicant) Address City State Zip Phone

Use of Building: Single Family Number of Bedrooms: 4 Gallons Per Day: 600

Check the following fixture(s) which are or will be installed: Garbage Disposal No Recreational Bathing Facility: (jacuzzi, hot tub, etc.) No

New System X Approval Only      Previously Approved      Denied      Existing System Repair      Existing System Alteration      Fill Site     

If this site has been previously approved, please attach a copy of the approval letter

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Reports; Soil Boring Logs; Site Plan drawn to scale showing location of buildings, lot lines, percolation test holes, soil boring holes, proposed location of system and well; two (2) copies of the System Design; and one (1) copy of the Final Building Plan. The house and the drainfield areas must be staked. Inaccurate or incomplete information will result in delays in processing.

AGREEMENT: The undersigned hereby makes Application for Permit to Install or Extend Sewage Treatment System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches and Design submitted herewith, and which are reviewed by the Washington County Building Official or his agent, together with any requirement and/or restriction made necessary by conditions peculiar to a particular location, shall become a part of the permit. Applicant further agrees to provide access, at reasonable times, to the Building Official or his agent for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. APPLICATION IS FOR AN INSTALLATION AT A SPECIFIC LOCATION; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT. It shall be the responsibility of the applicant for the permit to notify the Office of the Building Official that the installation is ready for inspection.

[Signature] Signature of Applicant (Owner or Builder) 9/29/97 Date

### FOR OFFICE USE ONLY

REVIEWS: PLANNER \_\_\_\_\_ INSPECTOR P. Gaud DATE 9/30

SITE EVALUATION: Soil Boring Evaluation: Depth of Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:

Soils Map Data:	Percolation Test Evaluation:					Actual
	Required [circle appropriate item(s)]					
Setbacks:	50'	75'	100'	150'		1
Well (including adjacent property)						
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	1

CONCLUSIONS: Site Suitable: X Site Unsuitable: \_\_\_\_\_ Additional Tests Required: \_\_\_\_\_ Verify Use: \_\_\_\_\_

NOTES: Lot Size \_\_\_\_\_ Year Built \_\_\_\_\_  
mottled @ 24-36  
Sandy loam