

ZIERKE SOIL TESTING

Joanna Benson
15567 Jeffrey Ave N
Hugo, MN 55038

7/7/2023

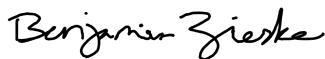
Dear Joanna Benson,

At your request, I have conducted a septic inspection to determine the compliance status of your septic 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 septic 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. A copy of this report will be filed with your local unit of government for their records.

Sincerely,



Benjamin Zierke
MPCA Lic 119, Cert 9594

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

PHONE 651-249-1346
EMAIL benzierke@gmail.com

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at <https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>.

Property information

Local tracking number: _____

Parcel ID# or Sec/Twp/Range: 1303121230002 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 15567 Jeffrey Ave N Hugo, MN 55038

Owner/representative: Joanna Benson Owner's phone: 763-689-8154

Brief system description: 1500 gallon septic tank, 1000 gallon septic tank, 1000 gallon lift tank, drop box rock trench drainfield

System status

System status on date (mm/dd/yyyy): 7/7/2023

Compliant – Certificate of compliance*

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

***Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.**

Noncompliant – Notice of noncompliance

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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 or under section 145A.04 subdivision 8.

Reason(s) for noncompliance (check all applicable)

- Impact on public health (Compliance component #1) – *Imminent threat to public health and safety*
- Tank integrity (Compliance component #2) – *Failing to protect groundwater*
- Other Compliance Conditions (Compliance component #3) – *Imminent threat to public health and safety*
- Other Compliance Conditions (Compliance component #3) – *Failing to protect groundwater*
- System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – *Failing to protect groundwater*
- Soil separation (Compliance component #5) – *Failing to protect groundwater*
- Operating permit/monitoring plan requirements (Compliance component #4) – *Noncompliant - local ordinance applies*

Comments or recommendations

Drain field functioning normally during site visit 6/19/2023. Homeowner reported no past issues with the 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.

By typing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Business name: Zierke Soil Testing Certification number: 9594

Inspector signature: Benjamin Zierke License number: 119

(This document has been electronically signed)

Phone: 651-249-1346

Necessary or locally required supporting documentation (must be attached)

- Soil observation logs
- System/As-Built
- Locally required forms
- Tank Integrity Assessment
- Operating Permit
- Other information (list): System Design/Permit

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.

Describe verification methods and results:

None of the above observed. Removed inspection caps and confirmed system is not ponded presently.

Attached supporting documentation:

- Other: _____
- Not applicable

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

Tanks pumped and OK'ed by Meyers - see attached tank integrity form.

Attached supporting documentation:

- Empty tank(s) viewed by inspector
- Name of maintenance business: Meyers
- License number of maintenance business: 915
- Date of maintenance: _____
- Existing tank integrity assessment (Attach)
- Date of maintenance (mm/dd/yyyy): 6/20/2023
(must be within three years)
- (See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))
- Tank is Noncompliant (pumping not necessary – explain below)
- Other: _____

3. Other compliance conditions – Compliance component #3 of 5

3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?

Yes* No Unknown

3b. Other issues (*electrical hazards, etc.*) to immediately and adversely impact public health or safety? Yes* No Unknown

***Yes to 3a or 3b - System is an imminent threat to public health and safety.**

3c. System is non-protective of ground water for other conditions as determined by inspector?

Yes* No

3d. System not abandoned in accordance with Minn. R. 7080.2500?

Yes* No

***Yes to 3c or 3d - System is failing to protect groundwater.**

Describe verification methods and results:

Attached supporting documentation: Not applicable

4. Operating permit and nitrogen BMP* – Compliance component #4 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 specified in the system design? 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. 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.

Describe verification methods and results:

Attached supporting documentation: Operating permit (Attach)

5. Soil separation – Compliance component #5 of 5

Date of installation 7/15/2003 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria (select one):

5a. 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.

5b. 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.*

5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080.2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day) Yes No*
 Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Attached supporting documentation:

- Soil observation logs completed for the report
- Two previous verifications of required vertical separation
- Not applicable (No soil treatment area)
- _____

Indicate depths or elevations

A. Bottom of distribution media	98.4
B. Periodically saturated soil/bedrock	95.3
C. System separation	3.1
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.**

Describe verification methods and results:

See attached design and boring logs.

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.

Property address: 15567 Jeffrey Ave N.
City: Hugo State: Mn.

Parcel ID: _____
Zip code: 55038

Optional section: Sewage Tank Compliance Certification (Tank integrity assessment)

This form does not represent a complete system inspection report and only certifies sewage tank compliance status. i.e., this form, completed, may serve as a tank integrity assessment.

Instructions: This section of the form may be completed and signed by a Designated Certified Individual (DCI) of a licensed SSTS Maintenance Business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system.

When this section of the form is signed by a qualified certified professional, it becomes *necessary supporting documentation* to an Existing System Compliance Inspection Report: Compliance inspection form - Existing system (wg-wwists4-31b). This form can be found on the MPCA website at <https://www.pca.state.mn.us/water/service-and-maintenance>.

The information and certified statement on this form is **required** when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits an inspection report. This form represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4 Item (B) subitem (1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is required according to local regulations. Additional Administrative Rule references for this activity can be found at Minn. R. 7082.0700, subp. 4 Items B, C, and D; 7083.0730 Item C.

Pages 1 and 2 are not required to accompany this form when the optional third page is completed and used to certify sewage tank compliance status.

System status

System status on date (mm/dd/yyyy): 6/20/2023

Certificate of sewage tank compliance Notice of sewage tank non-compliance

Compliance criteria:

The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit - "Failure to Protect Groundwater."	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
The SSTS has a sewage tank that leaks below the designed operating depth - "Failure to Protect Groundwater."	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
The SSTS presents a threat to public safety by reason of structurally unsound (damaged, cracked, or weak) maintenance hole cover(s) or lids or any other unsafe condition - "Imminent Threat to Public Health or Safety."	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No

Any "yes" answer above indicates sewage tank non-compliance.

Company information

Company name: MEYER SEWER SERVICE
Business license number: 915

Designated Certified Individual (DCI) information

Print name: CHRIS WAGNER
Certification number: 9761

I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS Maintenance Business. I personally conducted the necessary procedures to assess the compliance status of each sewage tank in this SSTS.

By typing/signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Designated Certified Individual's signature: Chris Wagner Date (mm/dd/yyyy): 6/20/2023



WASHINGTON COUNTY, MINNESOTA
 Department of Public Health
 and Environment 651/430-6688

Scanned 8/25/08
 BM

PERMIT NUMBER HUGO CITY
 070002033 SEWAGE PERMIT

Owner : BILL WOLFE
 15567 JEFFREY AVE N
 HUGO MN 55038
 Applicant : BILL WOLFE 430-2256

SEPTIC PERMIT RENEWAL
 Total Fees : 30.00
 Total Paid : 30.00
 Total Due : .00

Mailed
 10/31/02

0700-02033

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following described property upon express condition that said persons and their agents, employees and workmen shall conform in all respects to the provisions of the Building Code, and/or Ordinances.
 This permit may be revoked at any time upon the violation of any of the provisions of said code and ordinances.

Project Address : 15567 JEFFREY AVE N HUGO MN 55038
 Legal Description: 11.2A PT SW1/4-NW1/4 SEC13T31R21 CON AT NW CORN OF Geo : 13-031-21-23-0002
 Flow Capacity 900 Gal/Day Tank Volume 2500
 Soil Conditions: Depth to Restriction 66 Inches Perc Rate 26 Min/Inch

Soil Treatment Type:
 Bottom Area 1500 Rock Depth 12

Authorized Work / Special Conditions

- Install individual sewage treatment system as per approved design in area tested and shown on site plan.
- PERMIT RENEWED 10/31/02 SEE 0700-02005

** Permit Expiration Date : Sewage Treatment : 2003-10-31

A CERTIFICATE OF OCCUPANCY MUST BE REQUESTED AND ISSUED PRIOR TO USE OR OCCUPANCY OF WORK PERMITTED BY A BUILDING PERMIT.

** This permit shall expire and be null and void if the work authorized by the Building Permit is not commenced within 60 days of the date of issuance or if work is abandoned or suspended for a period of 120 days. Term of the Building Permit is 12 months from date of issue. Term of sewage treatment permit is 12 months from date of issue.

Penalty for violation of any of the provisions of building code: Fine not to exceed five hundred dollars (\$500.00) or imprisonment for not more than ninety (90) days, or both.

Permit Issue Date 2002-10-31 Code Enforcement Officer P. Gammal

INSPECTION RECORD

BUILDING	DATE	INSP.	COMMENTS
Foundation.....			
Foundation Wall.....			
Plumbing (Groundwork).....			
Heating (Groundwork).....			
Rough Plumbing.....			
Rough Gas Piping.....			
Rough Heating and Ventilation.....			
Framing.....			
Insulation.....			
Fireplace.....			
Chimney.....			
Wallboard or Lath and Plaster.....			
Final Electrical.....			
Final Plumbing.....			
Final Gas Piping.....			
Final Heating and Ventilation.....			
Final Building.....			

SEWAGE TREATMENT SYSTEM	DATE	INSP.	COMMENTS
Installation.....	7-14-03	PLW	Tank Size: ¹⁵⁰⁰ 2000 Treatment Area: 1500 sq
As Built.....			Installer: Bill Wolfe

DRIVEWAY	DATE	INSP.	COMMENTS
Access.....			
Installation.....			

NOTES:

7-14 trench
7-15 tanks - added (500)

EKLIN SOIL TESTING AND INSPECTIONS, INC.

1986 Ridgewood Avenue
 White Bear Lake, MN 55110
 1-651-429-1090

Owner's Name	BILL WOLFE
Job Site Address	15567 JEFFREY AVE NO.
City or Township	HUGO
Use of Building	HOME - 6-BEDROOMS

Design Flow Rate	900 GAL PER DAY	Perce Rate	26 MPI	Land Slope	12-15	Percent
Two Required Tank Sizes	1500 Gallons	1000 Gallons	Lift Station Tank Size	1250	Gallons	
Type of System (standard, at grade or bed)	STANDARD					
System Size:	1500 -Square Feet	500 -Lineal Feet	36"	-Trench Width		
Depth of rock below pipe	12"	Depth of Rock Above Pipe	2"			
MINimum Depth of Trench From Existing Grade	24	Inches	MAXimum Depth of Trench From Existing Grade	30	Inches	
Recommended Number of Trenches	5	Recommended Length of Trenches	100			
Trench Spacing Measured Center to Center	7 Feet					
Any Other Special Conditions	IT MAY BE POSSIBLE TO MOVE & USE THE EXISTING TANKS					

WHEN THE DRAIN FIELD IS COMPLETED, THE AREA WILL HAVE TO BE FENCED OFF AND NOT PASTURED

This system has been designed by a Pollution Control Agency (PCA) Certified Professional.

Designer Name	DALE EKLIN	PCA Certification #	695
Address	1986 RIDGEWOOD AVE WHITE BEAR LAKE MINN. 55110	Phone #	429-1090
Signature	<i>[Signature]</i>	Date	1-17 2002

PUMP SELECTION PROCEDURE

1. Determine pump capacity:

A. Gravity distribution

1. Minimum required discharge is 10 gpm
2. Maximum suggested discharge is 45 gpm. For other establishments at least 10% greater than the water supply rate, but no faster than the rate at which effluent will flow out of the distribution device.

B. Pressure distribution

See pressure distribution work sheet

From A or B Selected pump capacity: 25 gpm

2. Determine pump head requirements:

A. Elevation difference between pump and point of discharge?

25 feet

B. Special head requirement? (See Figure at right - Special Head Requirements)

0 feet

C. Calculate Friction loss

1. Select pipe diameter 2 in

2. Enter Figure E-9 with gpm (1A or B) and pipe diameter (C1).

Read friction loss in feet per 100 feet from Figure E-9

Friction Loss = 1.11 ft/100ft of pipe

3. Determine total pipe length from pump discharge to soil treatment discharge point. Estimate by adding 25 percent to pipe length for fitting loss. Total pipe length times 1.25 = equivalent pipe length

300 feet x 1.25 = 375 feet

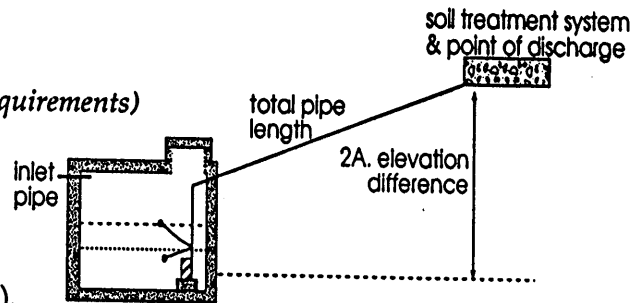
4. Calculate total friction loss by multiplying friction loss (C2) in ft/100 ft by the equivalent pipe length (C3) and divide by 100.

= 1.11 ft/100ft x 375 +100 = 4 ft

D. Total head required is the sum of elevation difference (A), special head requirements (B), and total friction loss (C4)

25 ft + 0 ft + 4 ft =

Total head: 29 feet



Special Head Requirements	
Gravity Distribution	0 ft
Pressure Distribution	5 ft

flow rate gpm	E-9: Friction Loss in Plastic Pipe Per 100 feet		
	nominal pipe diameter		
	1.5"	2"	3"
20	2.47	0.73	0.11
<u>25</u>	3.73	<u>1.11</u>	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

3. Pump selection

A pump must be selected to deliver at least 25 gpm (1A or B) with at least 29 feet of total head (2D)

I hereby certify that I have completed this work in accordance with applicable ordinances, rules and laws.

Ed Ebl

(signature)

410

(license #)

12-30-01

(date)



Washington County Public Health & Environment

14949 62nd Street N, PO Box 3803
Stillwater, MN 55082-3803
651/430-6688 FAX 651/430-6730

UNRECEIVED
JAN 18 2002
2 NEJMR

Paid \$

Receipt #

41953

0700-02005

Make checks payable to WASHINGTON COUNTY

- \$180 - New Home Drainfield
- \$ 80 - Replace Existing System with a Drainfield System
- \$300 - New Home Mound
- \$200 - Replace Existing System with a Mound System
- \$300 - Alternative/Experimental System
- \$175 - Individual Lot
- \$125 - Subdivision Soil/Site Review - Base fee Plus \$50/lot
- \$ 25 - Additional Review Fee (1 hour minimum)
- \$ 25 - Renewal of Previous Permit Fee

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION)

15567 JEFFREY AVE. NO. HUGO

SEC 13
T4W 31N
RA 21W

Applicant	Address	City	State	Zip	Phone
WILLIAM WOLFE	15567 JEFFREY AVE N.	HUGO	MN	55038	

Owner (if different from applicant)	Address	City	State	Zip	Phone
	430-2256				

New Home Existing Home New Business Existing Business Number Of Bedrooms: 6 Gallons Per Day: 900

Check the following fixture(s) which are or will be installed: Garbage Disposal _____ Recreational Bathing Facility: (jacuzzi, hot tub, etc.) _____

New Home Drainfield System Mound System Alternate/Experimental System Existing Permit Renewal Tank Replacement Only

Existing Home Replacement System Drainfield System Mound System

Site Approval Only If this site has been previously approved, attach copy of approval letter _____ Additional Soil Test Data for Previously Approved Site

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; one (1) copy 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 Washington County, 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 Washington County 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 Washington County Dept. of Public Health & Environment that the installation is ready for inspection.

I hereby certify the above to be true and correct. In connection with your request for a soil review/septic permit, I hereby give Washington County Department of Public Health and Environment permission to enter upon my property during normal business hours for the purpose of determining the suitability of the location, design, and construction, which may include minor excavation or soil borings by the Department.

Signature of Applicant (Owner or Contractor)

Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR P. Coak DATE 1-27-02

SETBACKS:	REQUIRED (CIRCLE APPROPRIATE ITEM(S))					ACTUAL
Well (including adjacent property)	50'	75'	100'	150'		1
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	1

CONCLUSIONS: Site Suitable: Site Unsuitable: Additional Tests Required: Verify Use: _____ Bedrooms

NOTES: Lot Size _____ Year Built _____

12" post open Hillside

1303121230002

JOB BILL WOLFE
15567 JEFFREY AVE.
HUGO

BORING LOG
 24° 6" 18" FROST

DATE 12-27-01

BOREHOLE DIAMETER 4" 3/8" HAND AUGER

DEPTH FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	HOLE #6
1	TOP SOIL - LOAM	TOP SOIL - LOAM	TOP SOIL - LOAM	TOP SOIL - LOAM	TOP SOIL - LOAM	TOP SOIL - LOAM
1	REDDISH BROWN LOAM	LOAM	REDDISH BROWN LOAM	YELLOWISH BROWN, SANDY CLAY	YELLOWISH BROWN LOAM	YELLOWISH BROWN, SANDY LOAM
2						
2		REDDISH BROWN LOAM				
3	REDDISH BROWN LOAM	REDDISH BROWN LOAM	BROWN, MEDIUM TO COARSE SAND	BROWN, MEDIUM SAND	LIGHT BROWN, FINE TO MEDIUM SAND	
4	GRAY, SILTY LOAM	MOTTLED SOIL				
4	MOTTLED SOIL			REDDISH BROWN CLAY		
5	STOP	STOP		FAINT IRON		
6			GRAY, SANDY LOAM - MOTTLED		GRAY, SANDY LOAM	
7	MOTTLE 36"	MOTTLE 38"	STOP	STOP	MOTTLED SOIL	STOP
8			MOTTLE 6'	GRAY 6'+	MOTTLE 5'8"	GRAY 6'+
9						
10						

JOB BILL WOLFE
15367 JEFFREY RVE.
HUGO

BORING LOG

DATE 12-27-01

BOREHOLE DIAMETER 4" - 3/4" HAND AUGER

DEPTH FEET	HOLE # 7	HOLE #	SOIL CLASSIFICATION	HOLE #	HOLE #	HOLE #
1	TOP SOIL - LOAM		TOP SOIL - BROWN LOAM 4/4			
1	REDDISH BROWN SANDY CLAY		REDDISH BROWN LOAM 2.5YR 5/4			
2			BROWN SAND 7.5YR 4/4			
3			LIGHT BROWN SAND 7.5YR 6/3			
4			GRAY LOAM 2.5Y 6/1			
5			REDDISH BROWN CLAY 2.5YR 5/4			
6	OBSTRUCTION STOP		YELLOWISH BROWN CLAY 10YR 5/8			
7	OKAY 5'8"					
8						
9						
10						



AS-BUILT REPORT INDIVIDUAL SEWAGE TREATMENT SYSTEM

RECEIVED
JUL 28 2003
PUB CENTER

Washington County Health, Environment & Land Management
14900 61ST ST N, PO BOX 3803, STILLWATER, MN 55082-3803
612/430-6708 or 612/430-6656 FAX 612/430-6730

Legal Description or Complete Street Address		City or Township			
Owner Name	Mail Address	City	State	Zip	
Bill Wolfe	15567 Jeffrey Av. No.	Hugo	MN.	55038	
Installer	Mail Address	City	State	Zip	
Bill Wolfe Exc. Inc.	Same				
Septic Tank Information		Liquid Capacity:			
Tank Manufacturer: Mn. Precast		12 1500 2nd Tr 2 1000 Gals			

PUMP CHAMBER (if installed)			
Tank Manufacturer:	Liquid Capacity:	Horsepower of Pump:	Type of Warning Device:
Mn. Precast	1250	1/2	Float Buzzer
Pump Discharge in Gallons Per Minute: 25 at 29 Feet of Head	Number of Gallons Pumped Per Cycle: 150		

DRAINFIELD TRENCH		BED OR MOUND		
Width: 3'	Length of Each Trench: 52 100'	Rock Bed Length:	Width:	Area:
Depth of Trench Bottom from Finished Grade: 28 To 30"		Bed Depth from Grade:		
Method of Distribution: <input type="checkbox"/> Pressure <input type="checkbox"/> Distribution Box <input checked="" type="checkbox"/> Drop Box		MOUND: Upslope Sand Base Depth: Downslope Sand Base Depth:		
Depth of Rock Under Distribution Pipe: 12"		Depth of Rock Under Pipe:		
Square Footage of Tested Area Used: 35 x 100 = 3500 sq ft.		PRESSURE DISTRIBUTION SYSTEM:		
Trench Bottom Square Footage Required: 1500 sq ft.	Area As Built:	Lateral Inside Diameter:	Length:	Perforation Size:
		Spacing:	Number:	Perforation Spacing:

Complete site plan on attached sheet. On the site plan, include location of the following items.
Structures, septic tank, pump chamber, line from house to tank treatment system, distribution lines, distribution or drop boxes, well, and driveway. Show all distances applicable to the sewage treatment system (distance from structure to tank, tank to treatment system, distance between distribution lines, length of distribution lines, and distance between well and sewage treatment system). Indicate NORTH on the site plan and the scale of the plan.

I hereby certify that the system at the above referenced address was installed according to the Washington County Individual Sewage Treatment System Ordinance requirements.

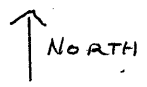
Signed: Bill Wolfe MPCA License #: 236 Dated: 7-20-03

ASBUILT.FRM:DC 2/97

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 0700 - 2033

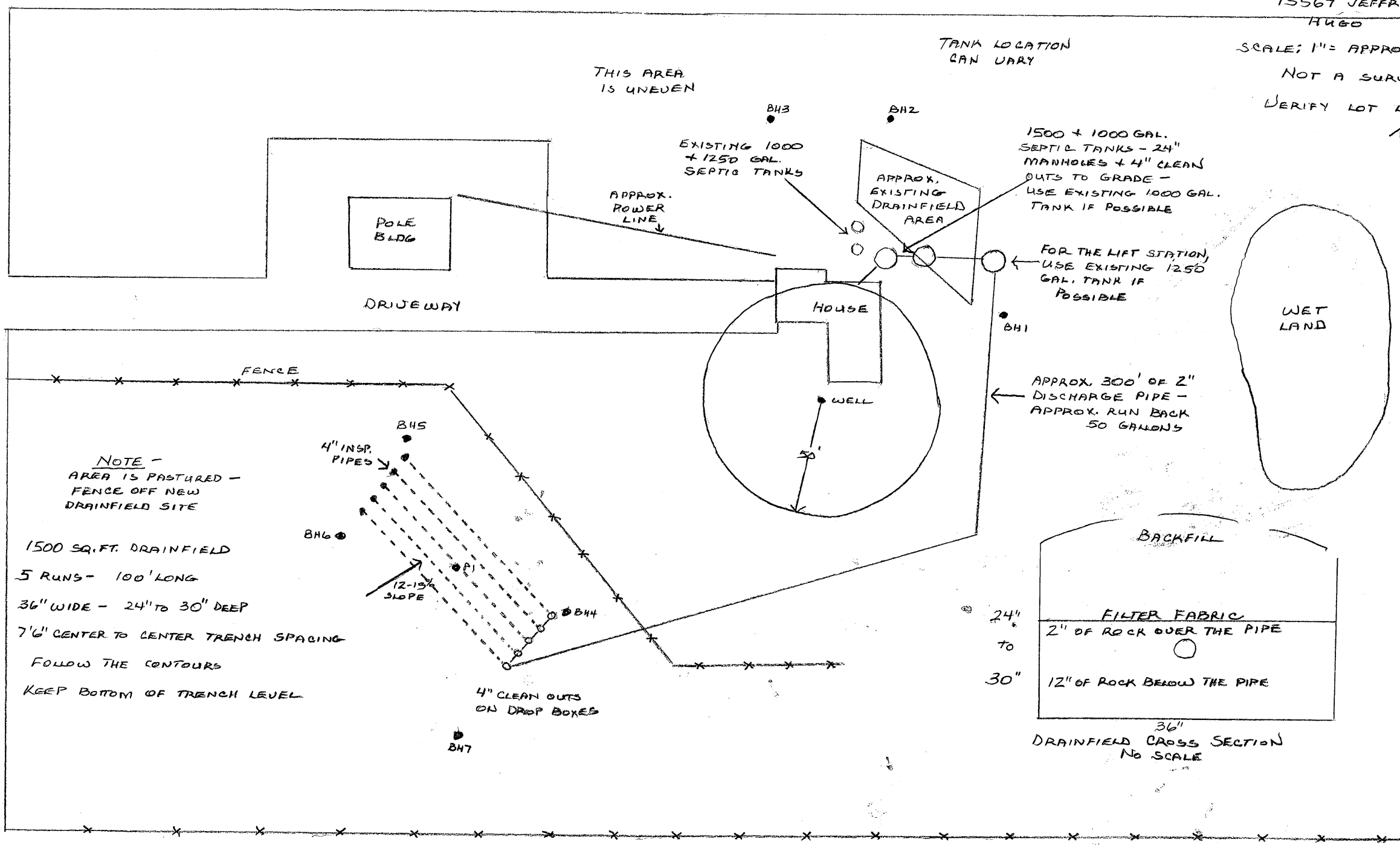
BILL WOLFF
 15567 JEFFREY AVE. N
 HUGO

SCALE: 1" = APPROX. 50'
 NOT A SURVEY
 VERIFY LOT LINES



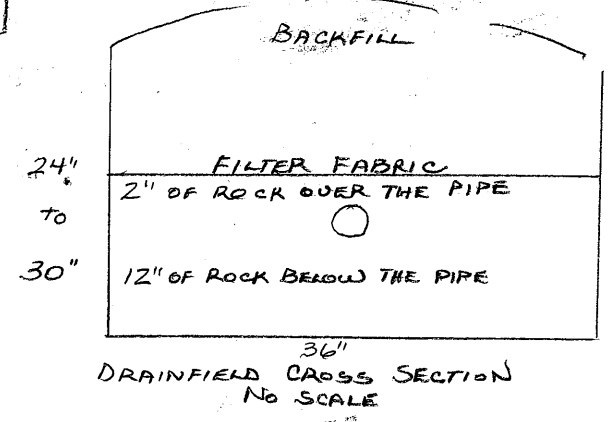
TANK LOCATION
 CAN VARY

THIS AREA
 IS UNEVEN



NOTE -
 AREA IS PASTURED -
 FENCE OFF NEW
 DRAINFIELD SITE

1500 SQ. FT. DRAINFIELD
 5 RUNS - 100' LONG
 36" WIDE - 24" TO 30" DEEP
 7'6" CENTER TO CENTER TRENCH SPACING
 FOLLOW THE CONTOURS
 KEEP BOTTOM OF TRENCH LEVEL



4" CLEAN OUTS
 ON DROP BOXES

1500 + 1000 GAL.
 SEPTIC TANKS - 24"
 MANHOLES + 4" CLEAN
 OUTS TO GRADE -
 USE EXISTING 1000 GAL.
 TANK IF POSSIBLE

FOR THE LIFT STATION,
 USE EXISTING 1250
 GAL. TANK IF
 POSSIBLE

APPROX. 300' OF 2"
 DISCHARGE PIPE -
 APPROX. RUN BACK
 50 GALLONS

EXISTING 1000
 + 1250 GAL.
 SEPTIC TANKS

APPROX.
 POWER
 LINE

APPROX.
 EXISTING
 DRAINFIELD
 AREA

POLE
 BLDG

DRIVEWAY

HOUSE

WELL

WET
 LAND

JEFFREY
 AVE.

FENCE

4" INSP.
 PIPES

12-15%
 SLOPE

BH7

BH5

BH6

BH4

BH1

BH2

BH3

BILL WOLFE
15567 JEFFREY AVE. N
RUGO

SCALE: 1" = APPROX. 50'
NOT A SURVEY
VERIFY LOT LINES

↑ NORTH

THIS AREA
IS UNEVEN

BH3 BH2

EXISTING 1000
+ 1250 GAL.
SEPTIC TANKS

APPROX.
EXISTING
DRAINFIELD
AREA

APPROX.
POWER
LINE

200' ±
NOT TO
SCALE

POLE
BLDG

DRIVEWAY

HOUSE

WELL

BH1 100' ±
TO WETLAND

WET
LAND

JEFFREY
AVE.

FENCE

BH5

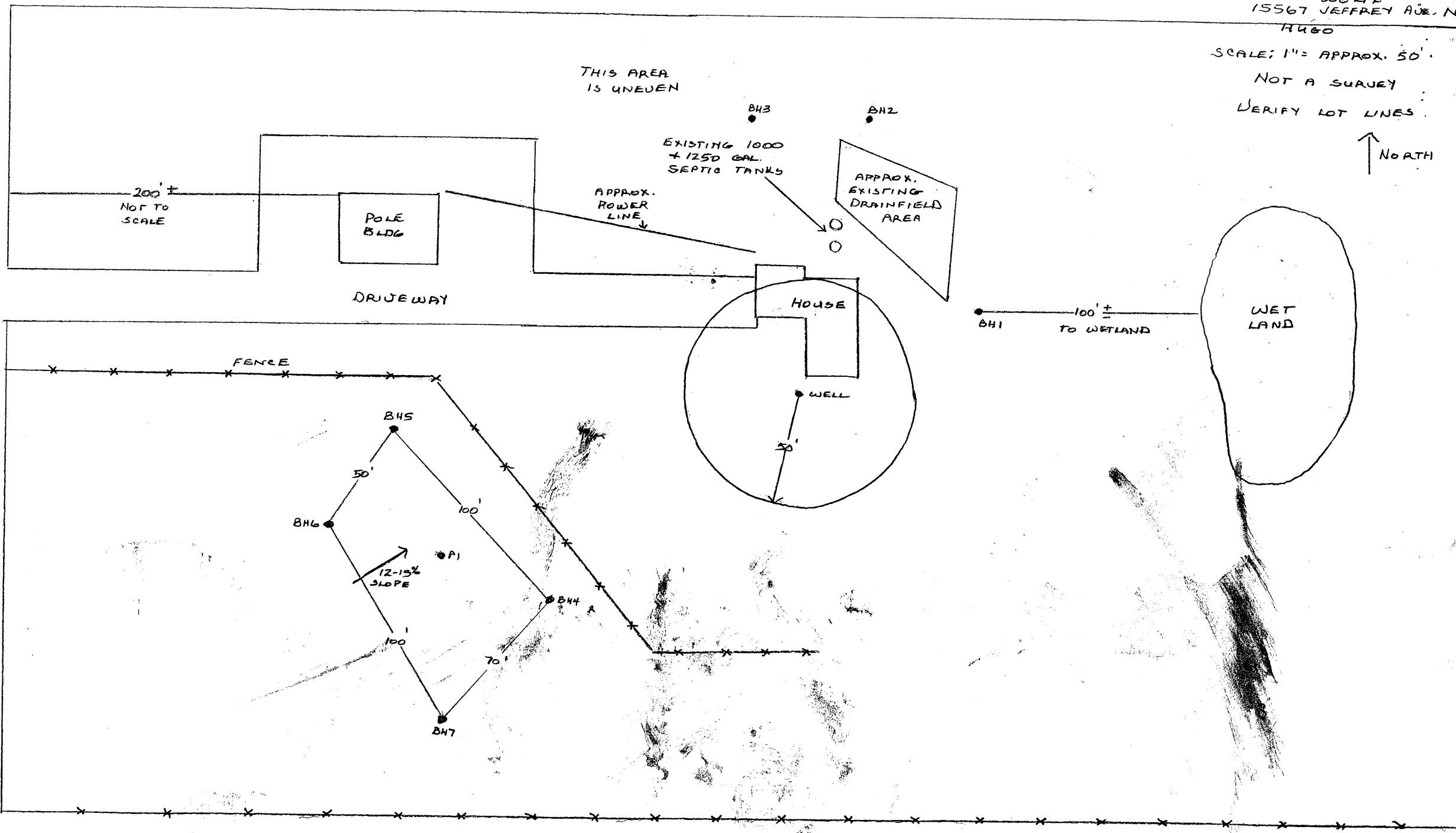
BH6

P1

12-15%
SLOPE

BH4

BH7



Logs of Soil Borings

Location of Project: 15667 Jeffrey Ave N Hugo, MN 55038

Borings Made by Ben Zierke

Date: 6/19/2015

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-----	
0-10"	10 YR 3/3 sandy loam, 0-5% coarse fragments	0-12"	10 YR 3/3 sandy loam, 0-5% coarse fragments
10-18"	10 YR 5/4 sandy loam, 0-5% coarse fragments	12-30"	10 YR 4/4 sandy loam, 0-5% coarse fragments
18-30"	10 YR 5/6 sandy loam, 5-10% coarse fragments	30-54"	10 YR 4/3 coarse loamy sand, 10-20% coarse fragments
30-56"	10 YR 4/3 coarse loamy sand, 10-20% coarse fragments	54-66"	7.5 YR 4/4 loamy sand, 0% coarse fragments
56"	Obstruction		

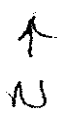
End of boring at 4.7 feet
 Standing water table:
 Present at feet of depth Hours after boring
 Standing water not present in hole
 Mottled Soil:
 Observed at feet of depth
 Mottled soil not present in bore hole
 Comments:

End of boring at 5.5 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:

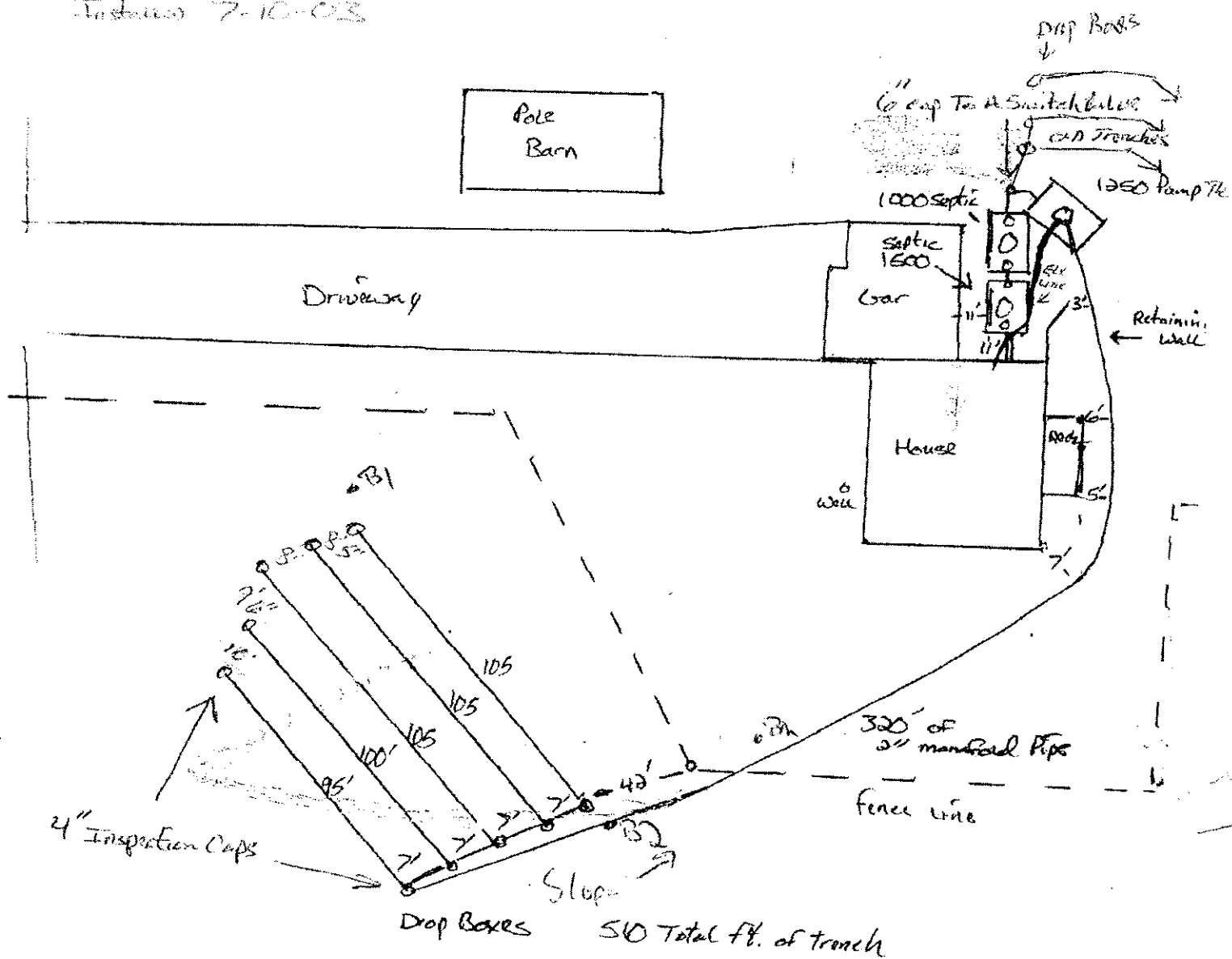
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0-----		0-----	

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:



Installed 7-10-03



Relative Elevations

	Reck	Separation
B1	100.0	45.3+
B2	100.4	44.9+

Bottom of rock - 98.4
 Benchmark - 96.8
 Top of hydrant in yard