ZIERKE SOIL TESTING

Terry Pool
9420 190th St N
Forest Lake, MN 55025

11/21/2023

Dear Terry Pool,

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

Benjamin Zierke
MPCA Lic 119, Cert 9594

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

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

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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: 2503221330003 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 9420 190th St N Forest Lake, MN 55025

Owner/representative: Terry Pool Owner's phone: 612-221-1069

Brief system description: (2) 1000 gallon septic tanks, 1000 gallon lift tank, mound dispersal system

System status

System status on date (mm/dd/yyyy): 11/21/2023

☒ **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

Verified mound sand depth with boring to the west of the rock bed. Previous permit information and soil verifications attached.

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):

Property Address: 9420 190th St N Forest Lake, MN 55025

Business Name: Zierke Soil Testing Date: 11/21/2023

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:	
System discharges sewage to the ground surface	☐ Yes* ☒ No
System discharges sewage to drain tile or surface waters.	☐ Yes* ☒ No
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No

Any "yes" answer above indicates the system is an imminent threat to public health and safety.

Attached supporting documentation:

☐ Other:

☒ Not applicable

Describe verification methods and results:

None of the above observed.

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☒ No
Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☒ No
If yes, which sewage tank(s) leaks:	

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

Attached supporting documentation:

☒ Empty tank(s) viewed by inspector

Name of maintenance business: Olson's

License number of maintenance business: 216

Date of maintenance: 11/21/2023

☐ Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): (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:

Describe verification methods and results:

Present for pumping by Olson's Sewer 11/15/2023. Tanks watertight and baffles in place.

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) ☐

Property Address: 9420 190th St N Forest Lake, MN 55025

Business Name: Zierke Soil Testing Date: 11/21/2023

5. Soil separation – Compliance component #5 of 5

Date of installation 9/10/2013 ☐ Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? ☐ Yes ☒ No

Attached supporting documentation:

☐ Soil observation logs completed for the report

☒ Two previous verifications of required vertical separation

☐ Not applicable (No soil treatment area)

☐ _____

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:* Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*
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:* Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☒ Yes ☐ No*
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)* Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*

Indicate depths or elevations

A. Bottom of distribution media	+20"
B. Periodically saturated soil/bedrock	-16"
C. System separation	36"
D. Required compliance separation*	36"

*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 boring logs and permit information

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.*

Washington County

Department of Public Health and Environment
14949 62nd Street North PO Box 6
Stillwater MN 55082-0006
Office: 651-430-6655 TTY: 651-430-6246 Fax: 651-430-6730

Review Fee:	$285.00
Permit Fee:	$480.00
Total Fee:	**$765.00**
Previous Payment	**$765.00**
Balance Due	**$0.00**

Scanned 6-19-2013

Community: Forest Lake City
Permit Number: 0600-13-5
Owner: Cami Brouse
9420 190th ST N
Forest Lake MN 55025-
Applicant: Cami Brouse

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following identified property upon express condition that said persons and their agents, and employees shall conform in all respects to the provisions of Ordinance #179, Washington County Development Code, Chapter Four, Subsurface Sewage Treatment System Regulations. This permit may be revoked at any time upon violation of any of the provisions of said ordinance.

Project Address: 9420 190th ST N
Geo Code: 25-032-21-33-0003
Designer: Zierke Soil Testing

0600-13-5

Type of System: Mound

Design Criteria		Mound Sizing			Pressure Distribution		
Percolation Rate:	8	Rock Bed Width:	10	Feet	Number Of Laterals:	3	
Depth To Restriction:	16	Rock Bed Length:	45	Feet	Perforation Spacing:	3	Feet
Land Slope:	3.00%	Absorption Width:	18	Feet	Perforation Diameter:	1/4	Inch
Flow Rate:	450	Depth of Clean Sand:	20	Inches	Head Size:	0	Inch
Number of Bedrooms:	3	Downslope Dike Width:	10	Feet	Total Head:	17	
		Upslope Dike:	8	Feet	Connection:	End	
		Length of Dike:	71	Feet	Length of Laterals:	43	Feet
					Perforations / Lateral:	15	
					Total Perforations:	45	
Tank Sizes					Gallons Per Minute:	0	
Tank 1: 1000	Tank 2: 1000	Tank 3: 0		Lift Station: 1000	Lateral Diameter:	1.5	Inches

Authorized Work/Special Conditions

1. Effluent Filter with Alarm Required
2. Pressure laterals must have cleanouts to grade.

P. Ganzel

Permit Issue Date: 6/19/2013
Permit Expiration Date: 6/19/2014

Pete Ganzel
Senior Environmental Specialist

Washington County

Department of Public Health and Environment

Individual Sewage Treatment System Inspection Form

Project Address:	9420 190th ST N	**Application ID:**	0600-13-5
Community:	Forest Lake City	**Geo Code:**	25-032-21-33-0003
Owner:	Cami Brouse	**Type of System:**	Mound
Applicant:	Cami Brouse	**Designer:**	Zierke Soil Testing

Type of Installation: ☐ New ☐ Repair ☐ Replacement ☐ Other

Type of Inspection: ☐ Site Review ☑ Tank ☑ Rough-Up ☑ Treatment Area ☐ Final

Inspector: ☑ Pete Ganzel ☐ Chris LeClair ☐ Other

Number of Bedrooms:

Inspection Dates: 9/11/13 9/12/13 Rock Pad

Installer: Perry + Sons Mitch Perry

Site Review

Date: _____

☐ Soil Boring ☐ Soil Pit

Depth of Pit/Boring _____

Conclusions: ☐ Site Suitable ☐ Site Unsuitable ☐ Additional Tests Required

Comments _____

Mounds / At-Grade

☐ Mound ☐ At-Grade

Absorption Area _____

Percent Slope _____

Upslope Width _____

Downslope Width 10 +

Sideslope Width _____

Pressure Bed Dimensions: Length 45 Width 10

Sand Below Bed 20" +

Rock Below Pipe 9

Perf Size/Spacing 1/c 13

Pipe Size/Spacing 1.5 13

Sewage / Holding Tanks

Tank 1 1000 ☑ New ☐ Existing

Tank 2 1000 ☑ New ☐ Existing

Baffle Type ☐ Plastic ☐ Fiberglass ☐ San-T ☐ Concrete

Pump Information

Lift Station Capacity 1000

Horsepower/GPM _____

Gallons Per Cycle _____

Gallons Per Minute _____

Feet of Head _____

Size of Discharge Line: _____

Type/Location or Alarm _____

Trenches, Bed or Gravelless Drainfield

☐ Drop Box ☐ Distribution Box ☐ Gravity ☐ Pump Trench ☐ Pressure Bed

☐ Serial ☐ Parallel ☐ Chambers ☐ Gravelless ☐ 8" ☐ 10"

Trench Depth (in)		Trench Length (ft)	
T1		T1	
T2		T2	
T3		T3	
T4		T4	
T5		T5	

Trench Width: ☐ 24" ☐ 36" ☐ Other _____

Trench Spacing _____

Rock Below Pipe: ☐ 6" ☐ 12" ☐ 18" ☐ 24"

Pressure Bed Dimensions: Length _____ Width _____ Absorption Area _____

Setbacks

Building(s) to tanks _____

Building(s) to drainfield _____

Surface Water _____

Property Lines _____

Wells ☐ 50' ☐ 100'

Pressure Test

Time _____ Time _____

PSI _____ PSI _____

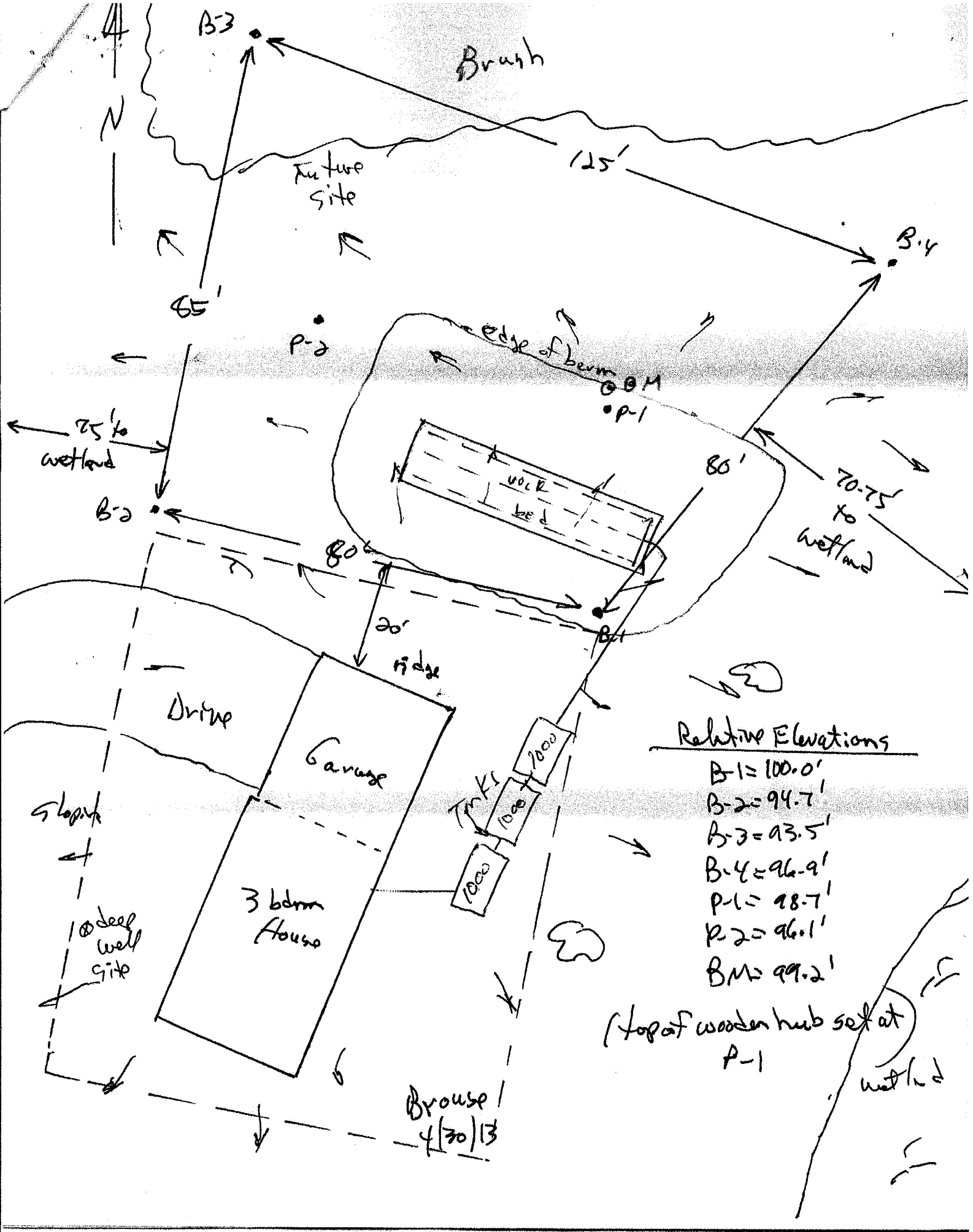
Comments _____

_____

_____

_____

Inspector


N
B-3
Brush
125'
Future site
B-4
65'
P-2
edge of berm
BM
P-1
75' to wetland
B-2
80'
80'
70-75' to wetland
water bed
B-1
20' ridge
Drive
Garage
Slope
100' deep well site
3 bdrm House
Tanks
1000
1000
1000
Brouse
4/30/13
Relative Elevations
B-1 = 100.0'
B-2 = 94.7'
B-3 = 93.5'
B-4 = 96.9'
P-1 = 98.7'
P-2 = 96.1'
BM = 99.2'
(top of wooden hub set at P-1
wetland

SITE EVALUATION

COUNTY USE ONLY

CHECK ALL THAT APPLY:

- ☑ NEW
- ☐ EXISTING
- ☐ DWELLING
- ☐ SHORELAND
- ☐ CLASS V
- ☐ COMMERCIAL ESTABLISHMENT
- ☐ FBL ESTABLISHMENT
- ☐ IN WELLHEAD PROTECTION AREA

EVALUATOR: R. Conrad

PROPERTY ADDRESS:

GEOCODE:

DATE: 10/10/03

TIME: 11:00

SOIL REVIEW

SOIL CLASSIFICATION: Hayden

PARENT MATERIAL: TILL Hayden

SOIL BORING 1

ELEVATION OF BORING:

LOCATION:

GPS COORDINATES: LAT: LON:

☐ BORING ☐ PIT ☐ PROBE

SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES
0-4	SiTfL	10 3/3	Sub	
4-18	Clay Loam	10 5/4	Sub	YE@16"

SOIL BORING 2

ELEVATION OF BORING:

LOCATION:

GPS COORDINATES: LAT: LON:

☐ BORING ☐ PIT ☐ PROBE

SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES

SOIL REVIEW CONCLUSIONS

- ☐ SITE SUITABLE
- ☐ UNSUITABLE SOIL
- ☐ DISTURBED SOIL
- ☐ COMPACTED SOIL

DEPTH INFORMATION:

STANDING WATER:

SATURATED SOIL:

BEDROCK:

MAXIMUM DEPTH OF SYSTEM:

SOIL TEXTURE:

SOIL SIZING FACTOR:

LINEAR LOADING RATE:

SITE REVIEW

CHECK ALL THAT APPLY

- ☐ WETLAND OR WETLAND VEGETATION
- ☐ POND, LAKE, STREAM, RIVER
- ☐ FLOODPLAIN
- ☐ 10 YEAR FLOOD ELEVATION _____
- ☐ BLUFFLINE
- ☐ WELL WELL CASING DEPTH: _____

EASEMENTS ON LOT:

- ☐ UTILITY
- ☐ DRAINAGE
- ☐ OTHER

SETBACKS

BLUFFLINE	
RIVER	
POND, LAKE, STREAM, WETLAND	
WELL	

COMMENTS/NOTES:

LOGS OF SOIL BORINGS

Location of Project Cami Brouse, 20 acres, Sec. 25, City of Forest Lake, Washington Co.
Borings Made by Chris Zierke Date: 4/29/13
Hand bucket auger used for borings; USDA – SCS Soil Classification used.

Depth, In Feet	Boring Number 1
0	
0-10"	Dark-brown sandy loam(10YR-3/3)
10-18"	Yellowish-brown loam(10YR-5/4)
18-24"	Yellowish-brown clay loam(10YR-5/4), iron-stains & light-gray mottles below 20"

End of boring at 2 feet.
Standing water table:
Present at feet of depth, hours after boring.
Standing water not present in hole ☒.
Mottled Soil:
Observed at 20" feet of depth.
Mottled soil not present in bore hole ☐.
Comments:

Depth, In Feet	Boring Number 2
0	
0-8"	Dark-brown sandy loam(3/3)
8-18"	Dark yellowish-brown sandy loam(10YR-4/4)
18-24"	Yellowish-brown clay loam(5/4), iron-st. & light-gray mottles

End of boring at 2 feet.
Standing water table:
Present at 19" feet of depth, 24 hours after boring.
Standing water not present in hole ☐.
Mottled Soil:
Observed at 1.5 feet of depth.
Mottled soil not present in bore hole ☐.
Comments:

Depth, In Feet	Boring Number 3
0	
0-8"	Dark-brown sandy loam(3/3)
8-16"	Dark y-brown sandy loam(4/4)
16-24"	Yellowish-brown clay loam(5/4), iron-st., light-gray mottles

End of boring at 2 feet.
Standing water table:
Present at 14" feet of depth, 24 hours after boring.
Standing water not present in hole ☐.
Mottled Soil:
Observed at 16" feet of depth.
Mottled soil not present in bore hole ☐.
Comments:

Depth, In Feet	Boring Number 4
0	
0-10"	Dark-brown sandy loam(3/3)
10-16"	Dark y-brown sandy loam(4/4)
16-24"	Yellowish-brown clay loam(5/4), iron-st., light-gray mottles

End of boring at 2 feet.
Standing water table:
Present at 16" feet of depth, 24 hours after boring.
Standing water not present in hole ☐.
Mottled Soil:
Observed at 16" feet of depth.
Mottled soil not present in bore hole ☐.
Comments:

Washington County

Department of Public Health and Environment
14949 62nd Street North PO Box 6
Stillwater MN 55082-0006
Office: 651-430-6655 – TTY: 651-430-6246 – Fax: 651-430-6730

Individual Sewage Treatment System

Certificate of Compliance

Type of System:	Mound
Permit Number:	0600-13-5
Property ID Number:	25-032-21-33-0003
Property Address:	9420 190th ST N
Community:	Forest Lake City
Date of Installation:	September 12, 2013

This certifies that the individual sewage treatment system installed at the aforementioned address was inspected during installation and found to be in compliance with requirements of the Washington County Development Code, Chapter Four, Individual Sewage Treatment System Regulations (Washington County Ordinance No. 128). This Certificate of Compliance is valid for five (5) years from the date of issuance unless Washington County finds evidence of an imminent threat to public health and safety. Supporting documentation with detailed information on the system can be found on the attached as-built.

P. Ganzel

Pete Ganzel
Senior Environmental Specialist

Washington County

AS-BUILT REPORT
INDIVIDUAL SEWAGE TREATMENT SYSTEM

Washington County Public Health & Environment
14949 – 62ND ST N, PO BOX 6, STILLWATER, MN 55082-0006
651/430-6688 OR 651/430-6655 FAX 651/430-6730

Legal Description or Complete Street Address		City of Township		
9420 190TH ST.		FOREST LAKE		
Owner Name	**Mail Address**	**City**	**State**	**Zip**
LAMI BROUSE	9420 190TH ST.	FOREST LAKE	MN	55025
Installer	**Mail Address**	**City**	**State**	**Zip**
Kelly & Son's Excavating	9752 292ND ST.	Chisago City	MN	55013
Septic Tank Information		**Liquid Capacity**		
Tank Manufacturer: Blown Wilbert		1000 - 1000		

PUMP CHAMBER (if installed)			
Tank Manufacturer:	**Liquid Capacity:**	**Horsepower of Pump:**	**Type of Warning Device:**
Blown	1000	1/3	Audio
Pump Discharge in Gallons Per Minute: 37 at 18 Feet of		**Number of Gallons Per Cycle:** 115	

DRAINFIELD TRENCH		BED OR MOUND		
Width:	**Length of Each Trench:**	**Rock Bed Length:** 45 **Width:** 10 **Area:** 450		
Depth of Trench Bottom from Finished Grade:		**Bed Depth from Grade:** 20"		
Method of Distribution: ☐Pressure ☐Distribution Box ☐Drop Box		**MOUND:** Upslope Sand Base Depth: 20" Downslope Sand Base Depth: 28"		
Depth of Rock Under Distribution Pipe:		**Depth of Rock Under Pipe:** 9"		
Square Footage of Tested Area Used:		PRESSURE DISTRIBUTION SYSTEM:		
Trench Bottom Square Footage Required:	**Area As Built:**	**Lateral Inside Diameter:** 1 1/2	**Length:** 43	**Perforation Size:** 1/4
		Spacing: 36"	**Number:** 3	**Perforation Spacing:** 36

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 sale 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: _____ MPCA License #: 1273 Dated: 9-10-13

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 0600-13-5

This drawing is not to scale

Washington County

AS-BUILT REPORT
INDIVIDUAL SEWAGE TREATMENT SYSTEM

Washington County Public Health & Environment
14949 – 62ND ST N, PO BOX 6, STILLWATER, MN 55082-0006
651/430-6688 OR 651/430-6655 FAX 651/430-6730

Legal Description or Complete Street Address		City of Township		
9420 190TH ST.		FOREST LAKE		
Owner Name	**Mail Address**	**City**	**State**	**Zip**
CAMI BROUSE	9420 190TH ST.	FOREST LAKE	MN	55025
Installer	**Mail Address**	**City**	**State**	**Zip**
Kelly & Son's Excavating	9752 292ND ST.	Chisago City	MN	55013
Septic Tank Information		**Liquid Capacity**		
Tank Manufacturer: Blown Wilbert		1000 - 1000		

PUMP CHAMBER (if installed)			
Tank Manufacturer: Blown	Liquid Capacity: 1000	Horsepower of Pump: 1/3	Type of Warning Device: Audio
Pump Discharge in Gallons Per Minute: 37 at 18 Feet of		Number of Gallons Per Cycle: 115	

DRAINFIELD TRENCH		BED OR MOUND		
Width:	Length of Each Trench:	Rock Bed Length: 45 Width: 10 Area: 450		
Depth of Trench Bottom from Finished Grade:		Bed Depth from Grade: 20"		
Method of Distribution: ☐Pressure ☐Distribution Box ☐Drop Box		MOUND: Upslope Sand Base Depth: 20" Downslope Sand Base Depth: 28"		
Depth of Rock Under Distribution Pipe:		Depth of Rock Under Pipe: 9"		
Square Footage of Tested Area Used:		PRESSURE DISTRIBUTION SYSTEM:		
Trench Bottom Square Footage Required:	Area As Built:	Lateral Inside Diameter: 1 1/2	Length: 43	Perforation Size: 1/4
		Spacing: 36"	Number: 3	Perforation Spacing: 36

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 sale 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: _____ MPCA License #: 1273 Dated: 9-10-13

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 0600-13-5