ZIERKE SOIL TESTING

Erik Nelson 12971 20th St N Stillwater, MN 55082

9/21/2023

Dear Erik Nelson,

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 <u>compliant</u>. 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 Ziedka

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)

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

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: 3002920110009	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 12971 20th St N Stillwater, MN 55082	
Owner/representative: Erik Nelson	Owner's phone: 612-382-4723
	septic tank, 1500 gallon septic tank, drop box rock trench drainfield.
System status	
System status on date (mm/dd/yyyy): <u>9/21/2023</u>	
☐ Compliant – Certificate of compliance*	☐ Noncompliant – Notice of noncompliance
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.
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.	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 application	ble)
☐ Impact on public health (Compliance component #1	1) – Imminent threat to public health and safety
☐ Tank integrity (Compliance component #2) – Failing	g to protect groundwater
☐ Other Compliance Conditions (Compliance compon	nent #3) – Imminent threat to public health and safety
☐ Other Compliance Conditions (Compliance compon	nent #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) – Failir	ng to protect groundwater
☐ Operating permit/monitoring plan requirements (Co	mpliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
	3. Consistently hit medium sized cobbles in the 40-48" range that are consistent with original design borings and county review boring. Forings to satisfy the soil portion of the process.
	d to determine the compliance status of this system. No determination of own conditions during system construction, possible abuse of the system,
inadequate maintenance, or future water usage.	own conduction during system construction, possible abuse of the system,
By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	e and correct, to the best of my knowledge, and that this information can be
Business name: Zierke Soil Testing	Certification number: 9594
Inspector signature: Benjamin Zierke	License number: 119
(This document has been electronically sig	gned) Phone: 651-249-1346
Necessary or locally required supporting do	ocumentation (must be attached)
☐ Soil observation logs ☐ System/As-Built ☐ Locally r	required forms
☐ Other information (list): Permit information	

pact on public health — Co	ompliance comp		9/21/2023
Compliance criteria:		Attached supporting documentati	on:
System discharges sewage to the ground surface	☐ Yes* ⊠ No	☐ Other: ☐ Not applicable	
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 imminent threat to public health ar			
Describe verification methods and			
None of the above observed.			
nk integrity – Compliance	component #2		
Compliance criteria:	· 	Attached supporting documentati	on:
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	component #2	Attached supporting documentati ⊠ Empty tank(s) viewed by inspector	
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	Yes* ⊠ No	Attached supporting documentati ☑ Empty tank(s) viewed by inspector Name of maintenance business:	Smilies
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit,	· 	Attached supporting documentati ⊠ Empty tank(s) viewed by inspector	Smilies ness: 2428
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	Yes* ⊠ No	Attached supporting documentati Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business	Smilies ness: 2428 9/20/2023
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth?	Yes* ⊠ No	Attached supporting documentati Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business of maintenance: Existing tank integrity assessment (A Date of maintenance)	Smilies ness: 2428 9/20/2023 ttach)
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks:	Yes* ⊠ No	Attached supporting documentation Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business business: Date of maintenance: Existing tank integrity assessment (A Date of maintenance (mm/dd/yyyy): (must be with the maintenance)	Smilies ness: 2428 9/20/2023 ttach) ithin three years
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Ρı	roperty Address: 12971 20 th St N Stillwater, MN 55082	
	usiness Name: Zierke Soil Testing	Date: 9/21/2023
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	ecured?
	☐ Yes* ☐ No ☐ Unknown	
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safet	y? ☐ 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 o	f 5 🛭 Not applicable
4.		
4.	Is the system operated under an Operating Permit? ☐ Yes ☐ No	If "yes", A below is required
<u>4.</u>	Is the system operated under an Operating Permit?	If "yes", A below is required
<u>4.</u>	Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design	If "yes", A below is required If "yes", B below is required
<u>4.</u>	Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? 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.	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? 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:	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? Yes No 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?	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? Yes No 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	If "yes", A below is required If "yes", B below is required
4.	Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? Yes No 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?	If "yes", A below is required If "yes", B below is required
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https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

siness Name: Zierke	Soil Testing			Date: _	9/21/2023
Soil separation	 Compliance cor 	npone	nt #5 o	f 5	
Date of installation	10/4/2007 (mm/dd/yyyy)	_ 🗌 Unkr	nown		
Shoreland/Wellhead beverage lodging?	protection/Food	☐ Yes	⊠ No	Attached supporting documentation:	
bovorago roaging.				Soil observation logs completed for t	ne report
Compliance criteria	a (select one):			☐ Two previous verifications of required	d vertical separation
	rior to April 1, 1996, and	☐ Yes	☐ No*	☐ Not applicable (No soil treatment are	a)
not located in Short Protection Area or l beverage or lodging	not serving a food,				
Drainfield has at lease separation distance saturated soil or be					
5b. Non-performance s	systems built	Yes	☐ No*	Indicate depths or elevations	
April 1, 1996, or lat	er or for non- ns located in Shoreland			A. Bottom of distribution media	36"
or Wellhead Protec	tion Areas or serving a			B. Periodically saturated soil/bedrock	72"+
-	lodging establishment:			C. System separation	36"+
Drainfield has a thr separation distance				D. Required compliance separation*	36"
saturated soil or be	drock.*			*May be reduced up to 15 percent if all Ordinance.	owed by Local
systems built under Type IV or V syster Rules 7080. 2350 c (Intermediate Inspe 2,500 gallons per d	ns built under 2008	Yes	□ No*		
Drainfield meets the separation distance saturated soil or be	e designed vertical e from periodically				

See attached boring logs - original design borings 17-20 are in drainfield area.

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.

800-657-3864



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

Community:

West Lakeland Township

Permit Number:

0017-07-3

Owner:

Erik Nelson

6190 Upper Afton CRV

Woodbury MN 55125-

Applicant:

Erik Nelson

PERMISSION IS HEREBY GRANTED

Review Fee:

Permit Fee:

Total Fee:

Balance Due

Previous Payment

\$245.00

\$255.00

\$500.00

\$0.00

\$500,00

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 #128, Washington County Development Code, Chapter Four, Individual Sewage Treatment System Regulations. This permit may be revoked at any time upon violation of any of the provisions of said ordinance.

Project Address:

12971 20th ST. N.

Geo Code:

30-029-20-11-0009

Designer:

Eklin Soil Testing & Inspections, Inc.

ype of System: Standa	rd Drainfield	I			Pressure Distribution
and the second s	A. T. A. C.	THE PROPERTY OF THE PARTY OF TH			N/A
Design Criteria	a stigned	Drainfield S	Sizing		
Percolation Rate:	16	Square Feet:	1250		
Depth To Restriction:	72	Lineal:	420	Feet	
Land Slope:	12.00%	Depth Of Rock Below:	12	Inches	a makanalar
Flow Rate:	750	Maximum Trench Depth:	36	Inches	
Number of Bedrooms:	5	Number Of Trenches:	6		Carrier Carrier
Gravelless	A	Length Of Trenches:	70	Feet	Grander 1
☐ Chambered		Spacing Of Trenches:	7	Feet	
		Tank Sizes			
Tank 1: 1500 Tar	nk 2: 1000	Tank 3: 0 L	ift Station:	1500	

Authorized Work/Special Conditions

- 1. Area must be re-staked by designer before installation..
- 2. Building sewer can be no closer than 20' to well and must be pressure tested within 50 feet of well.
- 3. Domestic strength waste only. Industrial waste and hazardous wastes cannot enter the septic system.
- 4. Establish a vegetative cover over the soil treatment area within 30 days of the installation. Protect the soil treatment area from erosion until the vegetative cover is established.
- Maximum trench depth 36 inches into natural soil.
- 6. Rock only. No chambers. No gravelless.
- Rope off and protect tested area from all vehicle traffic.
- 8. This system must be installed by a certified/licensed sewage treatment system installer holding a current license with the Minnesota Pollution Control Agency. (A list of installers is available at your request.)

Permit Issue Date:
Permit Expiration Date:

5/30/2007

5/29/2008

Christopher W. LeClair, REHS Senior Environmental Specialist



Individual Sewage Treatment System Inspection Form

Project Address: Community: West Lakeland Township Owner: Erik Nelson Applicant: Erik Nelson	Application ID: 0017-07-3 Geo Code: 30-029-20-11-0009 Type of System: Standard Drainfield Designer: Eklin Soil Testing & Inspections, Inc.
Type of Installation: Repair Replacement Other Type of Inspection: Inspection: Site Review Inspection: Tank Rough-Up Treatment A Final	Inspector: Pete Ganzel Chris LeClair Other Trea Inspection Dates: 4007 2007
Installer: PERRY ? SONS	an grind diet en metan ep en in vondert. De se en
Site Review	Mounds / At-Grade
Soil Boring Site Suitable Pe Depth of Pit/Boring Additional Tests Required Comments Side Side Unsuitable Doi Side Unsuitable Up Side Side Suitable Side Suitable Side Side Suitable Side Suitable Side Suitable Side Suitable Side Suitable Side Side Suitable Side Side Suitable Si	Mound At-Grade Absorption Area
Sewage / Holding Tanks	Pump Information
Tank 2 New San-T Garage Concrete	rest Station Capacity
☐ Drop Box ☐ Distribution Box ☐ Gravity ☐ Pump Trench	THE STATE OF THE S
☐ Serial ☐ Parallel ☐ Chambers ☐ Gravelless	Building(s) to drainfield
Trench Depth (in) Depth (in) T2 T2 Trench Length (ft) T2 T0 Trench Width 24" T3 T4 T3 T4 T0 T6 T70 T70 <td>THIC</td>	THIC
Pressure Bed Dimensions: Length Width Absorpt	tion Area PSI PSI
Comments	9/ This pyers must be installed by a calification sed salva

EKLIN SOIL TESTING AND INSPECTIONS, INC. 1986 Ridgewood Avenue

1986 Ridgewood Avenue White Bear Lake, MN 55110 1-612-429-1090

Owner's Name	ERIC	NELSON			
Job Site Address	LOT 1	BLOCK 2	CHERRY KNOLL	RIDGE	
City or Township	WEST	LAKELAND	Tusp	2 0 71-1 ST. NO	
Use of Building	HONNE	. 5	BEDROOMS		•

Design Flow Rate PER DAY	Perc Rate 16	6-18 MPI		Land Slope	12	P	ercent	
Two Required Tank Sizes /50	6 Gallons	/000 Gal	lons	Lift Station Tank S	Size /	500	•	Gallons
Type of System (standard, at grade	or bed)	STANDARD	2			·		
System Size: 1250 -S	quare Feet	420	-L'ine	al Feet	36'	-Trenc	h Width	
Depth of rock below pipe	12"			Depth of Rock Abo	ove Pipe	<i>z '</i> '		
MINimum Depth of Trench From Existing Grade	24	Inches		MAXimum Depth (From Existing Grad	•	36	Inches	
Recommended Number of Trenches	6			Recommended Len	gth of Trench	161 70	o FT	
Trench Spacing Measured Center to	Center					フ	Feet	
Any Other Special Conditions E TO PREVENT E	STABLISM ROSION	I COUEN	0	ver the	TREN	CHES		

INSTALLER MUST VERIFY ELEVATIONS SO THE PROPER

PUMP IS FNOTALLED - PUMPING RATE CANNOT EXCEP

45 GALS PER MIN- PUMPING CYCLE 225 GALS

This system has been designed by a Pollution Control Agency (PCA) Certified Profession	onal.
Designer Name DALE EKLIN WHITE DEM LAKE	PCA Certification # 695
Address 1986 RIDGEWOOD AUB NAINN 55110	Phone # 429-1090
Signature Dall Colon	Date 10-30 2000

DATE

10-24-00

BOREHOLE DIAMETER 4"3%"- 26" HAND AUSER

BORINGS 1-14 WILL

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	STOP	1 1 1 1 1 1	MOTLED LAYER BROWN, SANDY LOAM			BROWN, MEDIUM	HOLE #2
	STOP	.	BROWN LOAM WITH LIGHT SAND LAYERS	1	T GAZ	BROWN, SANDY	HOLE #3
 	+ Nome 18"		\$70P	MORLED SOIL	GRAY LOAM	70P Soil -	HOLE #4
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	+-Monze 18" -	Sas	Monted Soil	GRAY LOAM -	70P 50/L	HOLE #5
*************************************	 	++ MOTILE 14"	STOP .	Monteo Soit	BROWN, SANDY	TOP SOIL	HOLE #6

JOB <u>ERIC NELSON</u>
LOTI, BUX 2, CHERRY KNOLL RIDGE
W: LAWELAND TWSP.

DATE 10-24-00

BORING LOG

PAGE 2 OF +

BORNOS 1-14 WILL

BOREHOLE DIAMETER 4"ユラビー2½" HAND

					b	BUREHULE DIAMETER 4-38-21/2"	06-21/2" HAND AUGER
	DEPTH FEET	HOLE #7	HOLE # 8	HOLE # 9	HOLE # 10	HOLE # //	HOLE # 12
		708 So/L	10P 501L	TOP SOIL	BROWN LOAM	TOP SOIL	70P SOIL
		BROWN, SANDY	BROWN LOAM	LOAM, SANDY	MOTHED SOIL -	- GRAY LOAM	DROWN, SANDY
	ω ₁		MOTHED SOIL	BROWN, FINE SAND WITH LOAM LAYERS		WOTHED SOIL	
	4.	570P	STOP	DROWN SANDY	STOP	\(\tau_{\tau}\)	BROWN LOAM -
	5		1111	FAINT MOTTLE	 	. . .	STOP
	6	Moπιε 12" -	- MOTILE 24"	.		- Μοπιε 12" -	
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v.			++++	<u> </u>	· · ·	<u> </u>	
12 and 15	10 +		++++	<u> </u>	1 1 1 1 1	1 1 1 1 1	·

## HOLE # /3 HOLE # /4 HOLE # /5 HOLE # /7 HOL	ERIC	NELSON CHERRY KNOCK RIDGE AND TWOP.	BORING LOG		PARE	
HOLE # 1-3 HOLE # 1-4 HOLE # 15 HOLE # 17 TOP SOIL TOP SOIL TOP SOIL TOP SOIL TOP SOIL BROWN LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM	DATE /0-26-00		7557	SIFE	OREHOLE DIAMETER 4"-2	36"-212" HAN
## TOP SOIL TOP SOIL TOP SOIL TOP SOIL TOP SOIL TOP SOIL ### BROWN LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM	HOLE #		#=	#=	#	HOLE #/8
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BROWN, SANDY BROWN, SANDY AROUN, SANDY AROUN	- 	+	BROWN, SANDY.	++	_1_1	1
DROWN, SANDY BROWN, SANDY - CORM - CO	2			-		'
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STOP	+++		OBSTRUCTION		1 1	1- -1
	4.	\$70P			 	
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	++-	 	. 1	 - - 	 	

HOLE

#

9° 4

PERCOLATION DATA

	BOREHOLE DIAMETER 6"
DATE /0-26-00	BOREHOLE DEPTH 24"
LOT 1, BLK Z	BOREHOLE #

	107	- EOL
(1) (5:1) 7 1 10	1, BLK 2,	EBIC
7	CHERRY KNOLL RIDGE	NECSON
	といって	
	RIDGE	

SIGNED

BOREHOLE #

BOREHOLE DIAMETER

BOREHOLE DEPTH

36"

DEPTH	SOIL DESCRIPTION
0-10"	TOP SOIL
10"-24"	BROWN LOAM WITH

	10-36 08	(S)	0 - 10"	DEPTH
	CROWN, SANDY LOAM		70P SOIL	SOIL DESCRIPTION

:			-12.						
12:45	12:45	12:15	12:15	11:45	11:45	11:15	11:15	10:45	TIME
18"	193/4"	18''	1934"	18''	19%"	18"	20"	18"	REASUREMENT DROP
	134"		13/4"		17/8"		2"		DROP
FILL	17.1 MPI	FILL	17.1 MPI	FILL	16 MPI	FILL	15 MPI	FILL.	COMMENTS
12:55	12:55	/2:25	12:25	1):55	11:55	11:25	11:25	10:55	TIME
ري (ک	٠ ان	30	3	پ	32	30	32	(2)	REAL MEASUR

1:15

198;

1×1/×

18.5 MPI

1:25

31%"

12/8"

16 MPI

			·						
12:55	12:55	12:25	12:25	1):55	11:55	11:25	11:25	10:55	TIME
(X) (S)	31%"	30°	32''	્ટ્રે ફુ	321/8"	(J) ()	321/6"	(な O ₋	READING MEASUREMENT DROP
	178"		2''		21/6"		21/6''		DROP
	16 MPI	FILL	15 MPI	FILL	14.1 MPI	FILL	14.1 MP1	FILL	COMMENTS

PUMP SELECTION PROCEDURE

A. Determine pump capacity:

Gravity Distribution

- Minimum suggested is 20 gpm
- Maximum suggested is 45 gpm

Pressure Distibution

- Select number of perforated laterals Select perforation spacing = Ъ.
 - Subtract 2 ft. from the rock layer length.

Rock layer length - 2 ft. =_ feet.

Determine the number of spaces between perforations. Length perf. spacing = ____ ft. + ____ ft. = _

_perforations/lateral

Multiply perforations per lateral by number of laterals to get total number of perforations.

g. per X per per =_

Perforation Discharges in GPM				
	Perforation diameter (inches)			
. •	7/32	1/4		
1.0a 1.5 2.0b	0.56 0.69 0.80	0.74 0.90 1.04	. "	

a Use 1.0 foot single homes. b Use 2.0 feet for anything else.

SELECTED PUMP CAPACITY 30 gpm

- B. Determine head requirements:
- Elevation difference between pump and point of discharge.
- _ feet 2. If pumping to a pressure distribution system, five feet for pressure required at manifold if gravity system, zero.
- Friction loss
 - a. Enter friction loss table with gpm and pipe diameter. Read friction loss in feet per 100 feet from table (F-14). F.L. = 1.55 ft./100 ft of pipe
 - b. Determine total pipe length from pump to discharge point. Estimate by adding 25 percent to pipe length for fitting loss, or use a fitting loss chart (F-15_ Equivalent pipe length - 1.25 times pipe length =

Inlet Vi pipe

400 x 1.25 = 500 feet c. Calculate total friction loss by multiplying friction loss in ft/100 ft by equivalent pipe length.

Total friction loss = $1.55 \times 500 +100 =$ 7.75 feet

Total head required is the sum of elevation difference, special head requirements, and total friction loss.

45	_+_	0	+	7.75
(1)		(2)	_	(3c)

TOTAL HEAD 52.75 feet

			Soil treatm	ent sys
	Total pipe leng	th	الم الم	e.
drawers (T.		Elevation Diffe	rence	
		••••••		

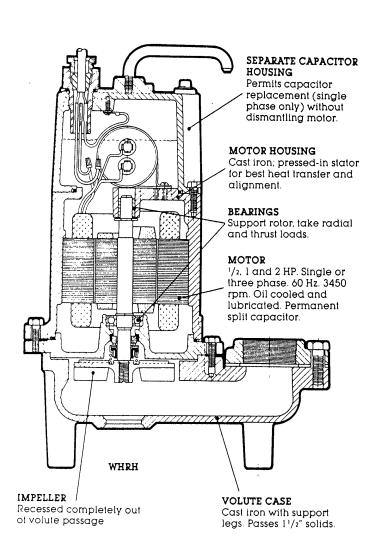
7					
Friction Loss in Plastic Pipe					
	Nominal pipe dia				
Flow Rate gpm	1.5"	2"	′ 3"		
20 25 30 35 40 45 50 55 65 70	2.47 3.73 5.23 6.96 8.91 11.07 13.46	0.73 1.11 1.55 2.06 2.64 3.28 3.99 4.76 5.60 6.48 7.44	0.11 0.16 0.23 0.30 0.39 0.48 0.58 0.70 0.82 0.95 1.09		

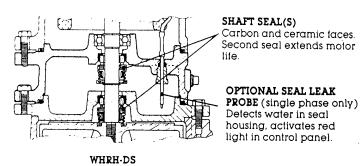
C. Pump selection

1. A pump must be selected to deliver at least 30 gpm (Step A) with at least 52.75 feet of total head (Step B).

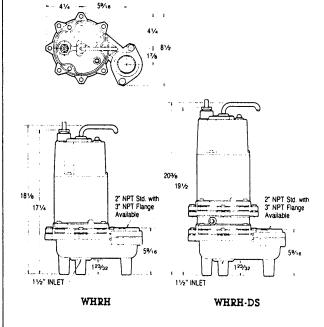
WHRH and WHRH-DS

l ½" Solids Handling Sewage Pumps and Effluent Pumps, Single and Double Seal





DIMENSIONS

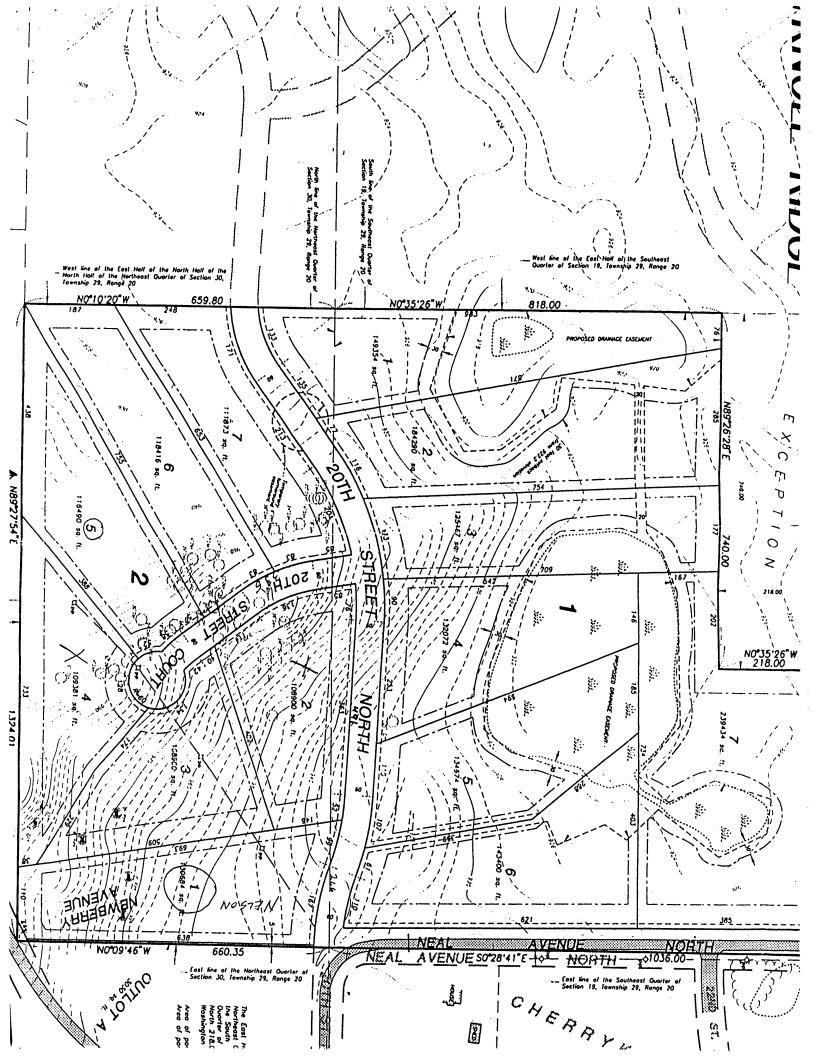


PERFORMANCE CURVE



F. E. Myers, A Pentair Company 1101 Myers Parkway Ashland, Ohio 44805-1923

419/289-1144 FAX: 419/289-6658, TLX: 98-7443



EKLIN SOIL TESTING AND INSPECTIONS, INC.

1986 Ridgewood Avenue White Bear Lake, MN 55110 1-612-429-1090

Eric Nelson 6190 Upper Afton Cove Woodbury, MN 55125

October 30, 2000

Dear Eric,

At your request, on October 26 & 27, 2000, soil borings and percolation tests were performed at Lot 1, Blk 2, Cherry Knoll Ridge, 20th St. No., West Lakeland Township.

Soil borings indicate there is a three foot separation from the bottom of the drainfield trench to water table. The percolation rate was 16 & 18 MPI.

For a five bedroom home, a 1500 and 1000 gallon septic tank will be needed. 1250 square feet of drainfield is recommended. The drainfield will consist of six runs, three feet wide, 24' to 36" deep and 70 feet long. There should be 12' of rock below the pipe and 2' of rock over the pipe. It will take approximately 75 yards of inch and a half washed rock for this job. Before backfilling, an approved Geotech fabric should be put down over the rock to keep the backfill from sifting into the drainfield. It is important to establish cover over the drainfield as soon as possible. Rain water getting into the system could cause the system to fail.

Because the drainfield is at a higher elevation, there should be a 1000 gallon lift station with a 24' manhole to grade for servicing the pump. The pump should be a 1/2-1 HP submersible sump pump with a 2" discharge pipe going to the drainfield. The pump should be placed 6" off of the bottom of the lift station. The 2" discharge pipe should have back pitch on it so water does not stand in the pipe and freeze during winter months. A warning device should be installed at the lift station to warn you of pump failure. The pumping cycle should be 225 gallons per cycle. This cycle will also allow for run back from the 2" discharge pipe.

See the attached papers for suggested design and boring and percolation logs.

DURING CONSTRUCTION IT IS IMPORTANT TO KEEP ALL TRAFFIC OFF OF THE DRAINFIELD AREA SO THE GROUND WILL NOT BECOME COMPACTED. YOU SHOULD FENCE OR FLAG OFF THE TESTED AREA BEFORE ANY EXCAVATION IS DONE ON THE SITE.

Low flush toilets and restricted shower heads would cut your water usage down. If a water softener is installed, it can drain directly to the wetlands or a low spot on the lot as this contains no harmful chemicals and it is legal. These recommendations are a very good practice to follow on all septic systems, whether they be mounds or the conventional

cont	inued	 		_	_	_	_	_
	TIIUCU	 •	•	•	•	•	•	•

trench systems. If hot tubs or over sized bath tubs are used, it would be advisable to enlarge the drainfield.

It is important to maintain your septic system by pumping the septic tank periodically. The size of the family will determine how often this has to be done. If the septic tank is not pumped when needed, sludge can build up and work over into the drainfield and cause the field to stop up. Never hook basement footing drains to your septic system. Always try to conserve on water use.

During winter months it is also very important to keep all traffic off of the drainfield area; snowmobiles, skiing, sliding, etc. If snow becomes compacted it could cause your drainfield to freeze up.

This report does not mean that you have a permit to install the job. Your local inspector will have to first approve the suggested design and logs. In some cases other agencies may require a permit. Your local authorities should be able to inform you of this.

If I can be of any further assistance please feel free to call me.

Yours truly,

Dale Eklin

Certification No. 695



SOIL REVIEW/SEPTIC PERMIT APPLICATION

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

FEE	

Make checks payable to WASHINGTON COUNTY T					
-\$150 - Application Fee (site review) \$25 - Additional Review Fee \$150 - New Drainfield System Permit Fee \$70 - Replacement Drainfield	e (1 hour minimum) d System Permit Fee	\$100 base fee, plu	\$ \$50 per lot -	- Subdivision I	Fee
\$250 - New Mound System Permit Fee \$170 - Replacement Mound S	System Permit Fee				
Legal Description and Parcel Identification Number (especially if this is I	for a NEW SUBDIVISI	ON OR MINOR S	BDIVISION	150C, 3C TW. 29 PA. 20	
LOTI BLOCK 2 CHERRY KNOLL	RIPGE 20	THST N.	W.LAK		TWSP.
Applicant Address	Cit	•	State	Zip	Phone
ERIC NELSON 6190 UPPER AI	<i>FTON COUE</i> Cir	WOODBUT	State	3 6725 Zip	Phone
Owner (if different from applicant) Address	Cii	y		578-7	
New Home X Existing Home New Business Existing B	Jusiness	Number Of Bea			Day: 750
Check the following fixture(s) which are or will be installed: Garbage Disp	oosal F	ecreational Bathing	Facility: (jac	uzzi, hot tub, (etc.)
New Drainfield System New Mound System Replacement D Approval Only If this site has been approved, attach copy of approve	rainfield System al letter Additional	Replacement Mour Soil Test Data for		-	newal
The following exhibits are required as part of this application and shall be at showing location of buildings, lot lines, percolation test holes, soil boring ho one (1) copy of the Final Building Plan. The house and the drainfield areas processing.	les, proposed location of	system and well; o.	ne (1) copy of	the System D	esign; and
AGREEMENT: The undersigned hereby makes Application for Permit to I work shall be done in strict accordance with ordinances and regulations of the and Design submitted herewith, and which are reviewed by the Washington made necessary by conditions peculiar to a particular location, shall become to the Building Official or his agent for the purpose of performing inspection	ne County of Washingtor County Building Official a part of the permit. Ap	, Minnesota. Appli or his agent, togeth plicant further agree	cant agrees the er with any re is to provide a	at the Site Plai equirement and access, at reaso	n, Sketches Vor restriction mable times,
and accepted. APPLICATION IS FOR AN INSTALLATION AT A SPE WILL VOID THE PERMIT. It shall be the responsibility of the applicant ready for inspection.	CIFIC LOCATION; A	NY DEVIATION I	ROM THE A	approyed i	LOCATION
and accepted. APPLICATION IS FOR AN INSTALLATION AT A SPE WILL VOID THE PERMIT. It shall be the responsibility of the applicant	CIFIC LOCATION; A for the permit to notify hereby giving us permis	NY DEVIATION I the Office of the Bu sion to enter upon	ROM THE A ilding Official your propert	APPROYED I	LOCATION Ilation is
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SEPTIC PERMIT APPLICATION

Washington County Department of Public Health & Environment 14949-62nd St N, P.O. Box 6, Stillwater MN 55082-0006 651.430.6688 FAX: 651.430.6730

0017-07-3

	PROPER'	TY & APPLICANT	INFORMATION	
PROPERTY ADDRESS:	0.1	0 5	GEOCODE:	
MOT 1 DY &	Cheryknoel	0	130009 20	110009
USE OF BUILDING: SING	LE FAMILY HOME	NON-SINGLE FAMILY	APPLICATION TYPE:	□ NEW □ REPLACEMENT
NAME(S)	ADDRESS (a)	90 WD DES CAST	m Core	PHONE NUMBER(S)
Krik Nelson	CITY VOC	abun	ZIP 55125	C-612-382-4723
NAME(S)	ADDRESS	OWNER		
	CITY	AMCHIOLOGICAL	ZIP	PHONE NUMBER(S)
		SYSTEM TYP		N., William of the Control of the Control
CTANBARD SYSTEM	ALTERNATIVE CVETEU			
STANDARD SYSTEM PRAINFIELD	ALTERNATIVE SYSTEM	EXPERIMENTAL SYSTEM		/IEW LOT SPLIT
CONSTRUCTED WETLAND	☐ PRESSURE BED ☐ COLLECTOR SYSTEM	MOUND PRICATION	☐ AT-GRADE	☐ TANK REPLACEMENT
FLOODPLAIN SYSTEM	☐ GREYWATER SYSTEM	☐ DRIP IRRIGATION ☐ PRIVY	☐ HOLDING TANKS	
			AEROBIC TREATA	MENT UNIT SYSTEM
		FEE SCHEDULE -	2007	
APPLICATION FEE/SOIL REV	VICW.			A transit New Address (1996) A transit of the Color of the State (1994) A
PERMIT FEE - DRAINFIELD C		\$245 \$255		TION FEE
PERMIT FEE - MOUND OR AT		\$410	PERMIT	FFF
☐ PERMIT FEE - ALTERNATIVE		\$410	·	
PERMIT FEE - EXPERIMENTA		\$410	SUBDIVIS	SION REVIEW BASE FEE:
PERMIT FEE - TANK REPLAC PERMIT FEE - REISSUANCE O		\$100		**************************************
SUBDIVISION REVIEW	DE EXPIRED PERMIT	\$120 \$170 + \$75 PER LOT	LOTS:	X \$75 PER LOT
PENALTY FOR FAILURE TO C	DBTAIN PERMIT PRIOR TO INST	ALLATION \$235	PENALTY	Mate 3 Line Steamflower C
Make Chacks Payable to WA	SUINCTON COUNTY			
Make Checks Payable to WA	SHINGTON COUNTY		TOTAL P	ERMIT FEE
*L- f-11				
research test notes, son borning notes, pro	oposed tocation of system and tocation	on of well(s): one (1) conv of the	orts; Soil Boring Logs; Site Plan dra	wn to scale showing location of buildings, lot lines, f the Final Building Plan. The house and drainfield area
nust be staked. Inaccurate or incomplete	information will result in delays in pr	ocessing.	or seem besign, and one (1) copy of	r the rinat building rian. The house and drainned area
AGREEMENT: The undersigned hereby mak	es Application for Permit to Install or	Extend the Sewage Treatment S	vstem herein specified, agreeing t	hat all work shall be done in strict accordance with
diffices and regulations of the country of	washington, minnesota. Applicant a	grees that the life Plan Sketche	and Design submitted because	mand substantial and an extensive section of the se
casonable times, to masinington country for	the purpose of performing inspectio	ns required and that no part of th	e system shall be covered until it	. Applicant further agrees to provide access, at has been inspected and accepted. APPLICATION IS
OR AN INSTALLATION AT A SPECIFIC LOC Office of the Washington County Departmen	ATION, ANT DEVIATION FROM THE	APPROVED LOCATION WILL VOID	THE PERMIT It shall be the rose	onsibility of the applicant for the permit to notify the
				an think in
robe, or any other device that can penetra	EN GROUND CONDITIONS EXIST due te the frozen soil to allow Washingto	to the inability to conduct soil re	views unless arrangements are made	de BY THE APPLICANT to provide a backhoe, geo- tatute 15.99, Subdivision 2, Washington County has up
o SIXTY (60) DAYS to review and approve or	deny the permit application.	The Country to Conduct a soft review	. III accordance with minnesota 5	tatute 15.99, Subdivision 2, Washington County has up
hereby certify the above to be true and	correct. I hereby give the Washing	ton County Department of Bukli		on to enter upon my property during normal
usiness hours for the purpose of determin	ning the suitability of the location,	design, and construction, which	neath a Environment permissi may include minor excavations	on to enter upon my property during normal or soil borings by the Department.
		and the second s		
			5/8/0	7
Signature	of Applicant (Owner or Conti	ractor)	- 10/0	Date

VALUATOR: CHP15 LE CLAR				 ☐ EXISTING ☐ COMMERCIAL ESTABLISHMENT ☐ DWELLING ☐ FBL ESTABLISHMENT ☐ SHORELAND ☐ IN WELLHEAD PROTECTION AREA 					
ROPERTY A			TIME:			GEOCODE:			
25	MAYZ	207	10,			·			
				SOIL R	EVIEW				
OIL CLASSIF	ICATION:				PARENT MAT	ERIAL:		. •	
		SOIL BORII					SOIL BORI	NG 2	
LEVATION (OF BORING:		LOCATION:	NCENEFAL AREA	ELEVATION C	F BORING:		LOCATION:	
SPS COORDII	NATES: LAT:		LON:	•	GPS COORDIN	IATES: LAT:	•	LON:	
Æ	BORING		PIT	□ PROBE		BORING		PIT	□ PROBE
SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES	SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES
10"-10"	Santo Santo	104h	5BL 5BL	20 7 20 3	SANDY	LOAN	1		
43=77	LOAMY	7.548	ER						
<u>-P_10</u>		///			. •			·	
							·	.*	
			·		·				
	N. C.			SOIL REVIEW	CONCLUSI	ONS			
CITE C	UTARI E			DEPTH INFOR	MATION:		SOIL	TEXTURE:	
☐ SITE SUITABLE ☐ UNSUITABLE SOIL ☐ DISTURBED SOIL ☐ DISTURBED SOIL			RATED SOIL: SOIL SIZING FACTOR:						
	ACTED SOIL	BEDRO	OCK:	MAXIA	AUM DEPTH OF	SYSTEM:	LINEA	R LOADING RA	TE:
				CITE					
	CHECK A	LL THAT APF	LY		EVIEW LENTS ON LOT	:		SETBACKS	
						BLUFI	FLINE		:
□ WETLAND OR WETLAND VEGETATION□ POND, LAKE, STREAM, RIVER				UTILITY	RIVER	VER			
☐ FLOODPLAIN ☐ ☐ 10 YEAR FLOOD ELEVATION ☐			DRAINAGE						
			OTHER	POND, LAKE, STREAM, WETLAND OTHER					
☐ WELL	WELL CA	ASING DEPTH:				WELL			
COMMENTS/I	NOTES: A	u 5TA	KES FA	ZOM DESIL	I LAYO	OUT A.	fe M	55.NE	
	· · · ·								
			<u> </u>						

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