



APPLICANT FOR SEWAGE SYSTEM CERTIFICATE OF COMPLIANCE With The Becker County Zoning Ordinance



Location Number
Tax Parcel Number 10.0466.000
Fire Number of Project Location

A. GENERAL INFORMATION

1. Applicant's Name (Last, First, M.I.) Haverkamp, Mark & Linda		2. Authorized Agent (if applicable)	
3. Mailing Address (Street, RFD, Box Number, City, State, Zip Code) HC 09 Box 136 Detroit Lakes MN. 56501			
4. Day Phone	5. Evening Phone	6. Section 29	7. Township ERIC

B. PROPERTY DESCRIPTION

1. Lot(s), Block, Subdivision Name
PT NW 1/4 NE 1/4 Begg st Inter of old + new Hwy. 34 Th W 576 etc...

SEWAGE SYSTEM DATA

Anticipated Use

a. Single Family

b. Multiple Family

c. Commercial

d. Other (specify)

Type of Installation

a. Septic Tank Only

b. Drainfield Only

c. Septic Tank & Drainfield

d. Holding Tank

e. Septic Tank/Drainfield Lift Station

Type of Drainfield

a. Standard System

b. Mound (pressure distribution)

Well Data

a. Depth 750'

b. Diameter _____

Type of Well

a. Drilled

b. Sand Point

1 Inch Equals _____
DESIGN
see drawing

installed by Richard Vachera

**Show Distance Between Sewage System And Buildings,
Property Lines, Lake, Road And All Wells Within 125 Feet.**

	Tank	Drainfield		Tank	Drainfield
Distances to Well:	= <u>7100'</u>	= <u>7100'</u>	Distance to Pressure Line:	= <u>7100'</u>	= <u>7100'</u>
Distance to Building:	= <u>49'</u>	= <u>75'</u>	Tank Capacity (gal. & Area of Drainfield (ft 2) =	= <u>1000</u>	= <u>478 ft²</u>
Distance to Property Line:	= <u>710'</u>	= <u>710'</u>	Distance to Ordinary High Water Level:	= <u>NA</u>	= <u>NA</u>
Drainfield separation from Highest Known Ground Water Level, Impervious Lens or Soil Mottling:					= <u>782"</u>

I hereby certify with my signature that all data on my application forms, plans and specifications are true and correct:

Signature of Applicant _____ Date _____

TO BE COMPLETED BY PLANNING AND ZONING

CERTIFICATE IS HEREBY DENIED: (See back For Reasons)

CERTIFICATE IS HEREBY GRANTED: Based upon the application, addendum from, plans, specifications and all other supporting data. With proper maintenance this system can be expected to function satisfactory, however this is not a guarantee.

BECKER COUNTY PLANNING AND ZONING

Jay D. Hanson
Signature

Inspector 21 Aug 95
Title Date

BECKER COUNTY PLANNING & ZONING

835 Lake Avenue, P O Box 787
Detroit Lakes, MN 56502-0787
Phone (218) 846-7314, Fax (218) 846-7266

Fire Number

A807

Onsite Septic System Site Evaluation/Design

Tax Parcel Number R 10. 0466-000

Legal Description: <u>RT NW1/4 NE1/4 Sec 9 + Inter of Old + New Hwy 34 THW 576A1 Old Hwys 187</u>			
Lake/Stream Name	Lake/Stream Class	Section TWP Range	Township Name
<u>NONE</u>		<u>09 139 040</u>	<u>ERIE</u>
Property Owner	Address	City, State, Zip Code	Phone Number
<u>Mark + Linda Haverkamp</u>	<u>HC9 Box 136</u>	<u>Detroit Lakes Mn</u>	<u>846-2339</u>
Name and Address of Designer			
<u>Randy Vareberg RR1 Vergas Mn 56578</u>			
MPCA NUMBER	PHONE	Date of Site Evaluation	
<u>1117</u>	<u>218-863-3893</u>	<u>8-10-98</u>	
Name and Address of Installer		MPCA Number	
<u>Same</u>			

I certify that the site evaluation has been completed in accordance with all provisions of ISTS Minnesota Rules Chapter 7080.

Signature of Designer Randy Vareberg Date 8-10-98

FOR USE BY BECKER COUNTY ENVIRONMENTAL SERVICES DEPARTMENT ONLY

Date Site Evaluation / Design received _____	Received by _____
Date Site Evaluation approved <u>8/13/98</u>	Approved by <u>[Signature]</u>

- *** Any changes to the permit must first be approved by Becker County Planning & Zoning. No system shall be covered up without inspection by Becker County Planning & Zoning.
- *** Inspections must be scheduled at least 24 hours prior to time requested.

Application Fee <u>75⁰⁰</u>	State Surcharge <u>50</u>	Total <u>75⁵⁰</u>
<input type="checkbox"/> Application is hereby denied <input checked="" type="checkbox"/> Application is hereby granted to <u>M. Haverkamp</u> to install an individual septic system according to the specifications of the site evaluation and design submitted to the Becker County Environmental Services Office. By Order of:		
<u>[Signature]</u> Signature of Becker County Qualified Employee		<u>8/13/98</u> Date
This permit expires on <u>2/13/99</u>		

Inspected by _____ Date _____ Permit # 12495

SOIL INFORMATION

TEST HOLE #1

TEST HOLE #2

DEPTH IN INCHES	SOIL TEXTURE	MUNSELL COLOR	STRUCTURE	DEPTH IN INCHES	SOIL TEXTURE	MUNSELL COLOR	STRUCTURE
1-10	Top Soil	10YR 3/2 Very Dark Grayish Brown	BLOCKY PLATY PRISMATIC NONE	1-6	Top Soil	10YR 3/2 Very Dark Grayish Brown	BLOCKY PLATY PRISMATIC NONE
10-23	Sand	10YR 4/4 Dark Yellowish Brown	BLOCKY PLATY PRISMATIC NONE	6-18	SAND	10YR 5/4 Yellowish Brown	BLOCKY PLATY PRISMATIC NONE
23-46	Sand	10YR 5/4 Yellowish Brown	BLOCKY PLATY PRISMATIC NONE	18-82	SAND	10YR 7/4 Very Pale Brown	BLOCKY PLATY PRISMATIC NONE
46-82	Sand	10YR 6/4 Yellowish Brown	BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
Depth to standing water	> 82"			Depth to standing water	> 82		
Depth to mottling	> 82"			Depth to mottling	> 82		

Describe the surface features (slope, runoff, weather conditions, vegetation type, evidence of compaction, etc.)

6% slope - Grass

WATER USES:

DESIGN FLOW 600 GPD

GRINDER PUMP/LIFT STATION IN HOUSE
() YES NO

- Washing Machine
- Dishwasher
- Water Softner
- () Garbage Disposal

NO. of Bedrooms 4
NO. of Bathrooms 2
SQ FT of Structure 2000

WELL INFORMATION:
Property's Well - Depth 75' Drilled Sandpoint ()
Neighboring Well - Depth NONE Drilled () Sandpoint ()
(within 100 feet of system)

Work Category Proposed	Type of System Proposed	Type of Drainfield Proposed
() NEW SYSTEM () REPAIR <input checked="" type="checkbox"/> REPLACEMENT	<input checked="" type="checkbox"/> SEPTIC TANK/DRAINFIELD () DRAINFIELD ONLY () HOLDING TANK <input checked="" type="checkbox"/> LIFT STATION () ALTERNATE (specify) _____	<input checked="" type="checkbox"/> STANDARD (gravelless/chamber) () STANDARD (rock trench) () STANDARD (bed) () MOUND (pressure distb) () PRESSURIZED BED
Perc Rate <u>SAND</u>	Soil Sizing Factor <u>.83</u>	Depth to Restricting Layer <u>782"</u>
Maximum Depth of System <u>46"</u>	Size of Tank <u>1000</u>	Size of Lift Station <u>500</u>
Size of Gravelless Pipe <u>10"</u>	Size of Drainfield <u>498</u> Sq Ft	Length of System _____
Size of Mound Rock Bed _____	Size of Mound Rock Bed _____	Depth of Clean Sand _____
Depth of Rock _____	Size of Lift Pump _____	Length of Lift Line _____
Number of Trenches <u>4</u>	Size of Lift Line _____	
Additional Information:		

- PERCOLATION TEST SHEET -

Test hole location _____ Hole # _____ Date test hole was prepared: _____
 Depth of hole bottom: _____ inches Diameter of hole: _____ inches
 Soil Data from test hole: _____ depth, inches _____ soil texture: _____ soil color _____

Method of scratching sidewall: _____ Depth of pea size gravel in bottom of hole: _____ inches
 Date and hour of initial water filling: _____ Depth of initial water filling: _____ above hole bottom
 Method used to maintain 12" of water depth in hole for 4 hours: _____
 Percolation test conducted by: _____ Percolation test started at _____ (am / pm).
 Maximum water depth above hole bottom during test: _____ inches

TIME	INTERVAL (MINUTES)	WATER DEPTH	WATER DROP (fraction)	WATER DROP (decimal)	PERC RATE CALCULATION	CONVERSIONS
---	START	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC A	1/16 = .06 1/8 = .13 3/16 = .19 1/4 = .25 5/16 = .31 3/8 = .38 7/16 = .44 1/2 = .5 9/16 = .56 5/8 = .63 11/16 = .69 3/4 = .75 13/16 = .81 7/8 = .88 15/16 = .94
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC B	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC C	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC D	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC E	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC F	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC G	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC H	

Ten Percent Calculation *

A, B, C	Largest # of ABC _____ Smallest # of ABC _____ Smallest # of ABC x 0.10 = _____
C, D, E	Largest # of CDE _____ Smallest # of CDE _____ Smallest # of CDE x 0.10 = _____
E, F, G	Largest # of EFG _____ Smallest # of EFG _____ Smallest # of EFG x 0.10 = _____
B, C, D	Largest # of BCD _____ Smallest # of BCD _____ Smallest # of BCD x 0.10 = _____
D, E, F	Largest # of DEF _____ Smallest # of DEF _____ Smallest # of DEF x 0.10 = _____
F, G, H	Largest # of FGH _____ Smallest # of FGH _____ Smallest # of FGH x 0.10 = _____

* If the top number in each set of boxes is larger than the bottom number then take another reading. If the top number is equal or smaller than bottom number, average the three numbers for the perc rate.

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---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC C	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC D	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC E	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC F	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC G	
---	REFILL	---	---	---	TIME $\frac{\text{DROP}}{\text{PERC}}$ PERC H	

Ten Percent Calculation *

A, B, C	Largest # of ABC _____ Smallest # of ABC _____ Smallest # of ABC x 0.10 = _____
C, D, E	Largest # of CDE _____ Smallest # of CDE _____ Smallest # of CDE x 0.10 = _____
E, F, G	Largest # of EFG _____ Smallest # of EFG _____ Smallest # of EFG x 0.10 = _____
B, C, D	Largest # of BCD _____ Smallest # of BCD _____ Smallest # of BCD x 0.10 = _____
D, E, F	Largest # of DEF _____ Smallest # of DEF _____ Smallest # of DEF x 0.10 = _____
F, G, H	Largest # of FGH _____ Smallest # of FGH _____ Smallest # of FGH x 0.10 = _____

* If the top number in each set of boxes is larger than the bottom number then take another reading. If the top number is equal or smaller than bottom number, average the three numbers for the perc rate.

Septic System Design/Site Evaluation

The site plan must be drawn to dimension or to scale:

- *Dimensions of Lot
- *Well & Water Line Locations within 100 ft of System
- *Existing & Proposed Buildings
- *Distance from Property Lines
- *Distance from OHWM
- *Easements & setbacks
- *Tank Access Route
- *Distance from buildings
- *Location of any Unsuitable Soil
- *Soil Borings & Per Test Locations
- *Scale - One inch = 30 ft

