



Manitowoc County
Private Onsite Wastewater Treatment System
Inspection Report

County Permit No. 5-134-13
State Permit No: 562587
State Plan Transaction ID#: NA
Parcel Tax No: 04-032-003-000.00

GENERAL INFORMATION

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1)(m)]

Permit Holder's Name: Glen Riesterer	Town of: Eaton
Type of System: ☒ New ☐ Replacement	
Mound: ☐ <24" ☐ >24" ☒ Inground At-Grade, Holding Tank, Reconnect, Tank Repl, Inground Pressure	
BM Description: Bottom of Siding - Cabin	BM 2 Description:

Building Sewer

Length: >30' ☒ ☐ N Insulated: ☒ ☐ N Cleanout: ☒ ☐ N/A

110' ^{Halfway from house to Tank}
Tank Information ☒ Same as Plans ☐ Revised (change below)

Type	Manufacturer	Capacity
Septic	Ledgeview	1000 gal
Dosing	Combo	500 gal
Aeration		
Holding		
Filter	Oranco filter	model 15-48
Chained and Locked ☒ Yes ☐ No (To be locked per code)		Bedding: ☐ Sand ☒ Gravel ☐ None
Old Tank Abandoned Per SPS 383? ☐ Yes ☐ No ☒ N/A		

Tank Setback Information

Tank To	P/L	Well	BLDG.	Vent/air intake	Road
Septic	> 25'	83'	50'	N/A	N/A
Dosing	> 25'	83'	50'	60'	N/A
Aeration					N/A
Holding					

Pump/Siphon Information

Manufacturer	Zueller		Demand
Model No.	140		± 25 GPM
Lift 12.89'	Fric. Loss 2	Sys. Head -	TDH 15'±
Forcemain	Length: 106'	Dia: 2"	Dist. To Well: >50'

Dispersal Cell Information

Dimensions	Width	Length	No. of Cells
Cell to:	P/L > 25'	Bldg. 44'	Well 105'
Leaching Chambers	Manufacturer:	Model #	# of Units.

Distribution Information

Header/Manifold	Distribution Pipe(s): 3 Lateral(s)
Length 18' Dia 4"	Length 60'± Dia 4" Spac. 9'

Distribution Information

Hole Size: -	Hole Spacing: -	Observation Pipes: ☒ Yes ☐ No	Vented ☒ Yes ☐ No
--------------	-----------------	--	--

Soil Information

System covered? ☐ Yes ☒ No (To be installed per Code by Installer.)	Seeded/Sodded ☐ Yes ☒ No	Mulched ☐ Yes ☒ No
---	---	---

Site Plan Revision? ☐ Yes ☐ No
Plan Revision Needed? ☐ Yes ☐ No
Reason?

Comments: Installer to install cleanout
in sewer line,
- owner to seed & mulch

☐ well to be located per SPS 383

Installer's Signature
10.25.13
Date

Pete Joann
Powts Inspector's Signature

225511
Certification No.



Planning & Zoning Department

Manitowoc County Office Complex • 4319 Expo Drive, P.O. Box 935 • Manitowoc WI 54221-0935
Phone: 920.683.4185 • Fax: 920.683.4190 • TTY: 920.683.5168

Sanitary Permit Number: 562587 S-134-13

Permit Issue Date: 8/14/13

MAINTENANCE PROGRAM

Dear Sanitary Permit Applicant:

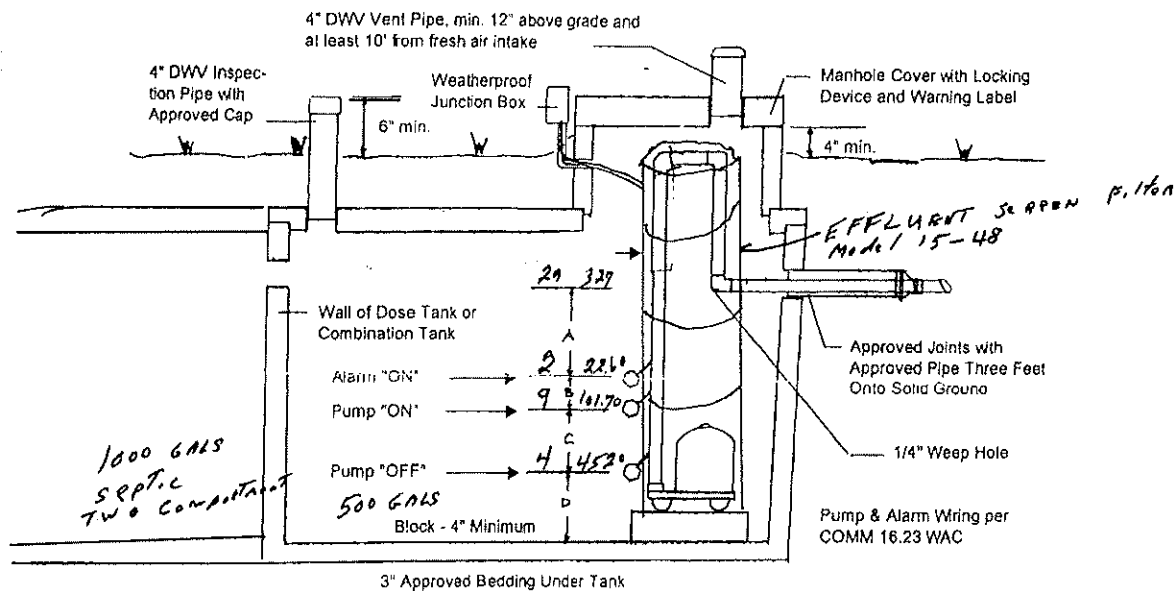
Owners of all new or replacement private sewage systems installed after August 16, 1983 are required to submit to the Manitowoc County Planning and Zoning Department Office a certification form (to be provided by Manitowoc County Planning and Zoning Department) every three years, signed by the owner and signed by a master plumber, a journeyman plumber or restricted plumber licensed under ch. 145, Stats., a person licensed under s. 146.20, State., (waste hauler) or by an employee of the government unit or state designated by the department, who has inspected the system. The form shall require certification that the system is in proper operating condition and that after inspection, and pumping if necessary, the septic tank is less than 1/3 full of sludge and scum.

www.manitowoccounty.org

Dose Tank Cross Section & Specifications

Typical Dose Tank Layout

In combination with State approved treatment tank. Tank construction per Comm 83.20(3) WAC.



Tank Manufacturer: Lodgeview

Septic Tank Volume: 1000 gallons

Dose Tank Volume: 500 gallons

Dose Tank Capacity: 11.70 gal/inch

Alarm Manufacturer: SJ Electro Systems

Model Number: 101 HW

Switch: MECHANICAL

Pump Manufacturer: Zanussi

Model Number: N-161

Switch: MECHANICAL

A	<u>29</u> inches	<u>327.00</u> gallons
B	<u>2</u> inches	<u>22.60</u> gallons
C	<u>9</u> inches	<u>161.70</u> gallons
D	<u>4</u> inches	<u>45.20</u> gallons

Length: 44 1/2 inches
Width: 60 inches
Liquid Depth: 44 inches

Lateral Elevation: 96.05 Pump Elevation: 77.05
Vertical Difference Between Pump Off & Disconnect 19.00 feet

Minimum Network Supply Pressure 2.50 feet

1.50 Feet of Forcemain x 1.51 ft / 100' Friction Loss 2.26 feet

TOTAL DYNAMIC HEAD 23.76 feet

Operation and Maintenance

The owner of this Private Onsite Treatment System (POWTS) is responsible for the operation and maintenance of these components. Manitowoc County, and The Department of Commerce Safety and Buildings or a POWTS Service contractor may make periodic inspections of the components. The following contacts should be notified in the event the system malfunctions or fails:

Regulatory Agency:
Manitowoc County Planning Department
P.O. Box 610
Manitowoc, WI 54221
(920)683-4185

Service Provider:
Ken's Septic Service LLC
24219 CTY X
New Holstein, WI 53061
(920) 894-3696

Routine Maintenance

Septic Tank and Pump Chamber

1. The septic tank effluent filter is to be removed and flushed with a hose over the septic tank manhole at least once every 36 months.
2. The septic tank must be pumped when the sludge and scum volume equals or exceeds 1/3 of the tank volume but at least every three years. The dose tank should be pumped at the same time. All tanks must be pumped by a licensed pumper and the content disposed of according to NR113.
3. A garbage disposal is not recommended. If you have a disposal you must pump your tank more often.

Preventative Maintenance

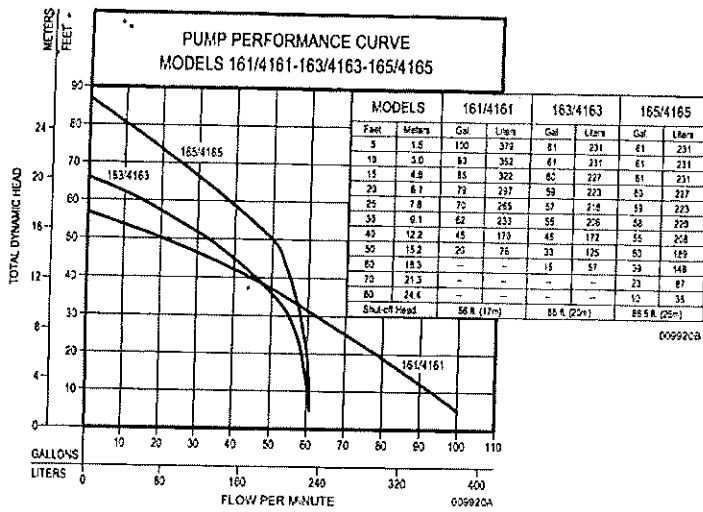
1. A good water conservation plan within the house will help ensure the Conventional system will not be overloaded.
2. Don't flush harmful items such as chemicals, cigarette butts, sanitary products, left over drugs, paint thinner, varnish, gas, or oil products, ect..

Owner's Manual

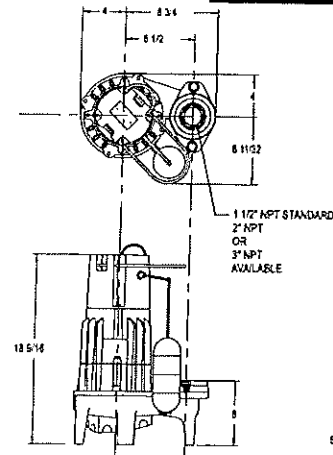
1. A copy of the plans and specifications are attached.

Contingency Plan

1. Rejuvenate ponding system through use of Aerobic Treatment Unit.
2. Replace failed system with new Mound absorption unit if there is sufficient suitable area.
3. Install holding tank.



Single Seal
Automatic Design
Weight 80 lbs.



SK374

Standard all models - 20 ft. cord - 1/2 HP

161 MODELS	4161 MODELS	Volts	Ph	Mode	Amps	Control Selection	CSA	UL
M161	---	115	1	Auto	15.5	Simplex	Y	Y
N161	N4161	115	1	Non	15.5	2 or 3 & 5	Y	Y ⁽¹⁾
D161	---	230	1	Auto	7.5	Simplex	Y	Y
E161	E4161	230	1	Non	7.5	2 or 3 & 5	Y	Y
* H161	---	200-208	1	Auto	8.8	Simplex	Y	N
* I161	* I4161	200-208	1	Non	8.8	2 or 3 & 5	Y	N
* J161	* J4161	200-208	3	Non	8.4	3 & 5	Y	Y
* F161	* F4161	230	3	Non	5.2	3 & 5	Y	Y
* G161	* G4161	460	3	Non	2.9	3 & 5	Y	Y

Standard all models - 20 ft. cord - 1/2 HP

163 MODELS	4163 MODELS	Volts	Ph	Mode	Amps	Control Selection	CSA	UL
M163	---	115	1	Auto	15.0	Simplex	Y	Y
N163	N4163	115	1	Non	15.0	2 or 3 & 5	Y	Y ⁽¹⁾
D163	---	230	1	Auto	7.5	Simplex	Y	Y
E163	E4163	230	1	Non	7.5	2 or 3 & 5	Y	Y
* H163	---	200-208	1	Auto	8.5	Simplex	Y	N
* I163	* I4163	200-208	1	Non	8.5	2 or 3 & 5	Y	N
* J163	* J4163	200-208	3	Non	6.0	3 & 5	Y	Y
* F163	* F4163	230	3	Non	4.8	3 & 5	Y	Y
* G163	* G4163	460	3	Non	2.9	3 & 5	Y	Y

Standard all models - 20 ft. cord - 1 HP

165 MODELS	4165 MODELS	Volts	Ph	Mode	Amps	Control Selection	CSA	UL
D165	---	230	1	Auto	10.2	Simplex	Y	Y
E165	E4165	230	1	Non	10.2	2 or 3 & 5	Y	Y
* H165	---	200-208	1	Auto	12.6	Simplex	Y	N
* I165	* I4165	200-208	1	Non	12.6	2 or 3 & 5	Y	N
* J165	* J4165	200-208	3	Non	7.5	3 & 5	Y	Y
* F165	* F4165	230	3	Non	7.4	3 & 5	Y	Y
* G165	* G4165	460	3	Non	3.7	3 & 5	Y	Y
* BA165	* BA4165	575	3	Non	3.0	3 & 5	N	N

* No Mated Plug

⁽¹⁾ UL Listed unit available with 20-Amp plug

For information on additional Zoeller products refer to catalog on Piggyback Variable Level Float Switches, FM0477, Electrical Alternator, FM0486, Mechanical Alternator, FM0495, Alarm Package, FM0732, and Sump/Sewage Basins, FM0487.

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

CAUTION

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.
© Copyright 2004 Zoeller Co. All rights reserved.

- SELECTION GUIDE
1. Integral float operated mechanical switch, no external control required.
 2. For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
 3. See FM1228 for correct model of simplex control panel.
 4. See FM0712 for correct model of duplex control panel.
 5. Variable level control switch 10-0225 used as control activator, specify simplex (3) float or duplex (3) or (4) float system.

SOIL EVALUATION REPORT

744

In accordance with Comm 85, Wis. Adm. Code

Page 1 of 2
Ken's Septic Service

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County	Manitowoc
Parcel I.D.	004-032-003-000-.00
Reviewed By	26 Date 8/8/13

Property Owner Glen E. Riesterer	Property Location Govt. Lot SW 1/4 NE 1/4 S 32 T 18 NR 21 E
Property Owner's Mailing Address 22435 W. Steinhil Road	Lot # Block # Subd. Name or CSM#
City State Zip Code Phone Number Kiel WI 53042 (920 286-1076)	City Village Town Nearest Road Eaton Steinhil Road

☒ New Construction Use: ☒ Residential / Number of bedrooms 3 Code derived design flow rate 450 GPD
☒ Replacement ☒ Public or commercial - Describe: _____
 Parent material Hochheim Flood plain elevation, if applicable N/A
 General comments and recommendations: Site is suitable for Conventional with pump/Chamber alarm etc.

1 Boring # ☒ Boring ☒ Pit Ground Surface elev. 98.30 ft. Depth to limiting factor 66 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate GPD/ft ²	
									*Eff#1	*Eff#2
1	0-11	10yr 3/2	-----	sil	2 f sbk	mfr	as	2f	0.6	0.8
2	11-26	7.5yr 4/4	-----	CL	2 f sbk	mfi	cw	1vf	0.4	0.6
3	26-66	10yr 6/4	-----	L	1 f sbk	mfr	cw	---	0.4	0.6
4	66-74	10yr 6/4	C2d10yr 6/8	L	1 f sbk	mfi	cw	--	0.4	0.6

2 Boring # ☒ Boring ☒ Pit Ground Surface elev. 98.30 ft. Depth to limiting factor 63 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate GPD/ft ²	
									*Eff#1	*Eff#2
1	0-11	10yr 3/2	-----	sil	2 f sbk	mfr	as	2f	0.6	0.8
2	11-26	7.5yr 4/4	-----	CL	2 f sbk	mfi	cw	1vf	0.4	0.6
3	26-63	10yr 6/4	-----	L	1 f sbk	mfr	cw	---	0.4	0.6
4	63-72	10yr 6/4	C2d 10yr 6/8	L	1 f sbk	mfi	cw	---	0.4	0.8

* Effluent #1 = BOD₅ > 30 < 220 mg/L and TSS > 30 < 150 mg/L

* Effluent #2 = BOD₅ ≤ 30 mg/L and TSS ≤ 30 mg/L

CST Name (Please Print) Kenneth Suchan	Signature <i>Kenneth Suchan</i>	CST Number 224182
Address Ken's Septic Service 24219 CTH X, New Holstein, WI 53061	Date Evaluation Conducted 5/13/13	Telephone Number 920-894-3696

Site Plan Drawing for Glen E. Riesterer, Conventional Septic System.

