

Industry Services Division P.O. Box 7162 Madison, WI 53707–7162

Sanitary Permit Number (to be filled in by Co.) 575946

M	AY	2	6	2015	
---	----	---	---	------	--

Sanitary Permit Application

State Transaction Number

County BARRON

is req													f di	fferent t	han mail	ing addre	Project Address (if different than mailing address)						
purpo	oses in acc	ordance with	h the Privacy Law, ntion – Please Pr	s. 15.04(1)	(m), Stats.		-					512 CTH SS											
Prope	rty Owner	r's Name	L SANDS, LLC		<u> </u>							Parcel # 022-0800-04-000						2					
	erty Owner BOX 887	r's Mailing A	Address									Property Loc	ation		-								
City, CHE	State FEK, WI				ip Code 4728			Numbe 99-0285				Govt. Lot NE ¼, NE ¼ T 32 N10; I			(cire	cle one)							
			neck all that app – Number of Bedro		17em		Lot#		-			Subdivision											
⊠ Pt	ablic/Com	mercial – D	escribe Use	FFICE	E / floo	ordina :	Block	#															
St	ate Owner	d Describe	: Use			_	CSM	Number	 			☐ City of☐ Village o☐ Town of		/RE	3 -								
III. T	ype of P	ermit: (C	heck only one b	ox on line	A. Compl	lete line	B if a	pplica	ble)								••						
A .	New		Replacemen		☐ Treatn					nt Only		Other Mo	difica	ıtior	n to Exis	ting Sys	tem (exp	lain)					
В.	Perm Before E	nit Renewal xpiration	Permit Revi	ision	Chang Plumber	ge of		Per Owner	mit Trai	nsfer to N	New	List Previous	Permi	it N	Iumber a	nd Date	Issued						
IV. T	ype of I	POWTS S	System/Compor	nent/Devi	ce: (Chec	k all tha	at app	oly)						_									
	on-Pressur olding Tar		ound Pressuring Pressu			:-Grade		_	_	of suitab (explain)		☐ Mound	< 24 :	in. (of suitab	le soil							
			Area Informati																				
Design 1403	n Flow (gr	od)	Design Soil Appl Rate(gpdsf) 0.7	ication	Dispe 2004	ersal Area .3	a Requ	iired (sf)	Dispers 2018.4	al Are	a Proposed (sf			tem Elev 2.00'	ation							
VI. T	ank Info			pacity in Sallons		Total		# of				:		2	-t p			၁					
			New Tanks	Existir	ng Tanks	Gallons		Jnits		Man	ufactui	rer	Prefab	COIIC	Site Constructed	Steel	Fiber	Plastic					
	or Holdin		3136	0		3136	1		SKAV				\boxtimes	\dashv		<u> </u>		<u> </u>					
	g Chamber		1600	0		1600	1		SKAV		TPC 1				<u>. LJ</u>								
	er's Name		ement- I, the unc		assume res er's Signatu		for it	nstallati	on of th	ne POW		MPRS Number		T	usiness	Dhone M	umbar						
	er s Name ERGH	(FIIIL)		Fiumo	er Voignau	Ů					2218				715) 577		uilibei						
Plumb	er's Addre		City, State, Zip Cod OUND, WI 5473															:					
VIII.	County/	Departme	nt Use Only		· · · · · · · · · · · · · · · · · · ·																		
₹ Ap	proved	☐ Disapp	proved		Permit Fee \$ 375.	20		Issued	۔	Issuing	Agen	t Signature		_									
			r Given Reason for				5 -	27-1	15		//	-e >	·>c	\simeq									
IX. C	onditions	s of Appro	oval/Reasons for	Disappro	val																		

Attach to complete plans for the system and submit to the County only on paper not less than 8 1/2 x 11 inches in size



Soil Testing, Septic Designs & Inspections Serving North Western Wisconsin since 1994 (715) 577-6838 WastewaterPros.com

Client: NORTHERN INDUSTRIAL SANDS, LLC

P.O. Box 887 — Chetek, WI 54728

NON-PRESSURIZED IN GROUND SOIL ABSORPTION COMPONENT - USING LEACHING CHAMBERS

Reference Component Manual

In-ground Absorption Component Manual (VERSION

512 CTH SS

NE 14 NE 14 Sec. 08 T 32 N R 10 W

Town DOVRE

County: BARRON

William J. Bergh (License No. 1577-007)

I the undersigned state that these plans were designed

and submitted under my authority

Designer's signature

11091 30th Avenue Designer's address: Chippewa Falls. Wi

Designer's phone number:

7.15-577-6838 võice

888-466-8573 fax

billy@wastewaterpros.com email

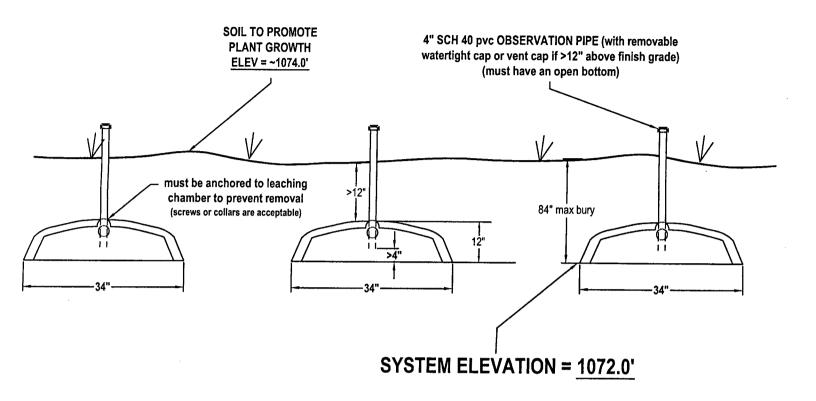
Contents

THE POPESSION Page 1 cover sheet Page 2 site plan Page 3 Distribution cells (leaching chamber x-section) leaching chamber manufacturer specifications Page 4 Page 5 Treatment tank cross-section Page 6 Effluent filter manufacturer & maintenance specifications Page 7 Dose pump specifications Page 8 O&M Page 9 O&M

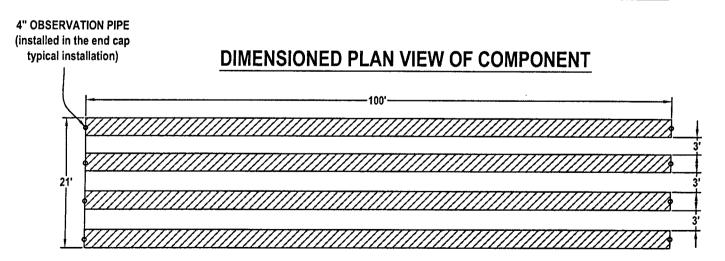
Page 1 of 9

INFILTRATOR QUICK 4LP LEACHING CHAMBER (typical)

installations may require additional cells (not shown here)
"DRAWING NOT TO SCALE"



- 25 NUMBER OF LEACHING CHAMBERS (per cell)
- 4 NUMBER OF CELLS
- 100 TOTAL NUMBER OF LEACHING CHAMBERS (all cells)

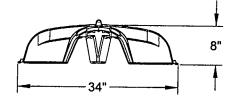


INFILTRATOR QUICK 4LP CHAMBER - OPEN BOTTOM AREA = 16.1 SQFT INFILTRATIVE SURFACE PER CHAMBER BASED ON EISA RATING = 20.0 SQFT QUICK 4 STANDARD END CAPS PER PAIR EISA RATING = 4.6 SQFT

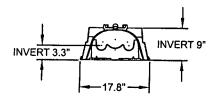
THE **QUICK4 PLUS STANDARD LP** CHAMBER

Quick4 Plus Standard LP Chamber Side and End Views

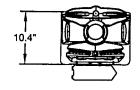




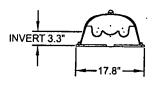
Quick4 Plus All-in-One End Cap Front, Side and End Views

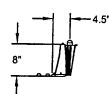


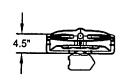




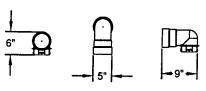
Quick4 Plus End Cap Front, Side and End Views







Quick4 Plus All-in-One Periscope



Quick4 Plus Standard Chamber Specifications

Size (W x L x H) 34" x 53" x 8" (86 cm x122 cm x 20 cm)

INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of teach a sentice, and cap and other accessory manufactured by infliretor ("Unite"), when installed and research is escribed and restorated to the only an application of the deliberation of the only infliretor installation is warranted to the only application of the deliberation of the species system as the form containing the Unite, provided, flowered that if a capital certain is not contained by applicable law, the warranty period will begin upon the date has installation of the capital experiences. To exceeds its warranty dignts, followers, the warranty period will begin upon the date has installation of the capital experiences. To exceeds its warranty dignts, followers, the warranty period will begin upon the date has installation of the Concentral which is the Companies of the Article alloyed deliver, infiltrator of installation of the Units determined by Infiltrator in the Concentral Units for Units determined by Infiltrator in the Concentral experiences.

(STHE LIMITED WARBAHTY AND REMEDIES IN SURPARAGRAPH (b) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This turn tool Wenderby shall be was diany part of the chamber system is manufactured by enview other the inflation. The turned Wenderby sales not redeted to independ to be selected, specially indirect compage, inflator shall not be fine ellor certain or liquidated carriages, additing this of production and profit, labor and materials, eventeed costs, or other losses or expenses incurred by the holder or any little party. Specifically controlled the remaining and damage to the United due to controlled as alwaysion, accided, niestes, accessor or neglect of the Units the cars sping subjected for earlied the party was earlied to the controlled the remaining and damage to the Units of selection or earlied the party and gound covers sell forth in the installation excusions; the party in proper maximist, and the Units (fed. no of the units of the selection covered by Inflation). This turnified Warranty statilities are no carried with all of the terms set of the trials unless warranty. For their in a event that infliction the expensition for any third carry excluding from histallation of shipment or from any product liability claims of Holder or any little damage to me used.

(g) He represented well influetor has the cultivity to energy or extend this United Warranty. No warranty applies to any party other han the enginel Holdon.

The above represents the Standard Limited Verrancy offered by hillitratos. A Embed bumber of extension doubles have different warranty regularments. Any purchaser of theirs are all contact finitiation's Companie Headquarters in Old Sophrops, Commedicing their to such a rectains to detain a copy of the applicable warranty, and smalle concludy read that warranty prior to the purchase of Units.



systems inc.

6 Business Park Road • P.O. Box 768 Old Saybrook, CT 06475 860.577.7000 • FAX 860.577.7001

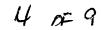
800.221.4436 www.infiltratorsystems.com

For technical assistance, installation instructions or customer service, call Infiltrator Systems at 800.221-4436

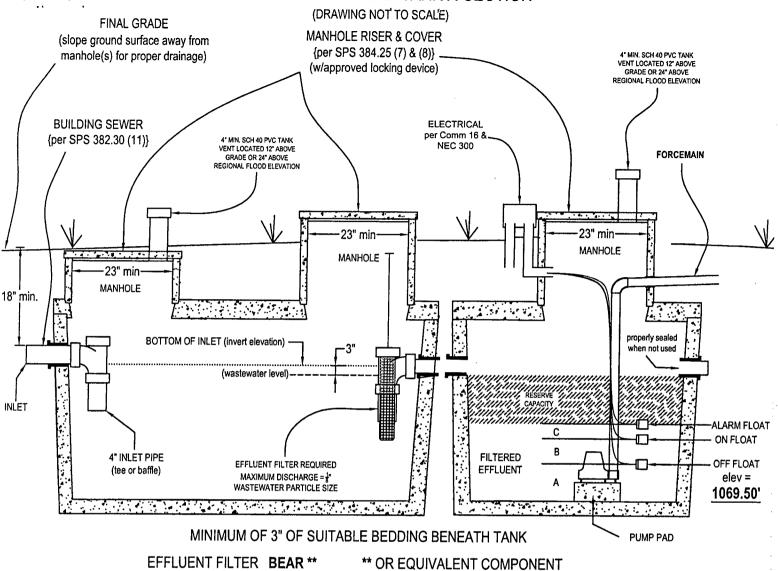
U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending.

Infiltrator, Equalizer, Quick4 and Quick4 Plus are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France, Infiltrator Systems Inc. is a registered trademark in Mexico. Contour Swivel Connection is a trademark of Infiltrator Systems Inc. © 2009 Infiltrator Systems Inc. Printed in U.S.A.

PLUS010709AG-0



SEPTIC TANK & PUMP TANK X-SECTION



Tank Manufacturer Septic/Pump tank model (DWF / actual dose volume)	SKAW 3136/1600	DWF (daily wastewater flow) Number of daily doses	1403 GPD 4.93
Alarm manufacturer	SJE RHOMBUS **		
Alarm model number	SJE SignalMaster® SPDT **	Forcemain volume	65.2

Type of float switch

SJE Signaliwaster® SPD1 *** Forcemain volume

65.2

Actual dose volume (gallons)

284.56

(total dose volume - volume of forcemain)

Effluent pump manufacturer ZOELLER		PUMP TANK CAPACITIES
Effluent pump model number 137		Reserve above alarm 21.5 inches = 939.98 gallons
		Alarm float above on float 2 inches = 87.44 gallons (C
Minimum pump discharge rate (GPM) NA		On/Off float measurement 8 inches = 349.76 gallons (B
		Off above bottom of tank 7.5 inches = 327.90 gallons (A)
Vertical lift (pump off to distribution lateral)	9.0'	- '
system head (distal pressure X 1.3 feet)	NA	PUMP CHAMBER DIMENSIONS
Friction loss in the forcemain/fittings	<2.5	Length 144.0" Width 67.0"
Total dynamic head (TDH)	<11.5	Liquid depth 39.0" Gallons per inch 43.72



FILTER CARTRIDGE INSTRUCTIONS

Installation

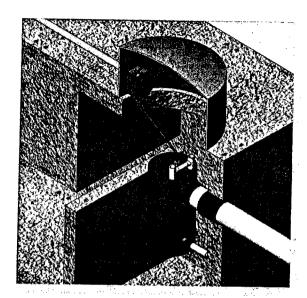
STEP 1 Dry fit the filter case onto the end of the outlet pipe to ensure it is centered under the access opening. If not, then either insert more pipe into the tank through the outlet or solvent weld (glue) additional pipe onto the outlet pipe.

STEP 2 While the case is still dry fitted on the outlet pipe, measure the length of ¾-inch pipe needed to brace the filter to the tank end wall if utilizing the optional supplemental side support. If side support method is not utilized, proceed to step four.

STEP 3 For installations utilizing the optional supplemental side support: solvent weld the ¾-inch pipe onto the filter case. If side support method is not utilized, proceed to step four.

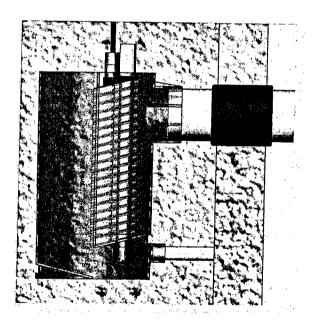
STEP 4 Solvent weld the filter case onto the outlet pipe. Insert the filter cartridge into the case, pressing down until the filter locks into the bottom of the case.

STEP 5 If a VRS switch is utilized: insert into the filter and lock by turning clockwise 90° .



Maintenance

- The effluent filter should be cleaned every time the septic tank is serviced.
- 2. Open the outlet access opening to inspect the tank and filter.
- Pump the septic tank completely, making sure to remove the sludge layer on the bottom of the tank and not just the scum and effluent.
- Once the effluent level has been lowered below the invert of the outlet pipe, firmly pull up on the filter handle to dislodge the cartridge from the case.
- 5. Slide the cartridge up and out of the case for cleaning.
- If a VRS switch connected to an alarm is present, the switch should be removed by turning counterclockwise 90° and cleaned with water only.
- While holding the cartridge on its side (large flat surface facing down) over the access opening, rinse off the cartridge with water only, making sure all septage material is rinsed back into the tank.
- If VRS switch is utilized, replace by inserting into filter and turning clockwise 90°.
- Insert the filter cartridge back into the case, pressing down until the filter locks into the bottom of the case.
- Replace and secure the access opening on the tank.



BEAR ONSITETH FILTER CARTRIDGE - FIVE-YEAR LIMITED WARRANTY

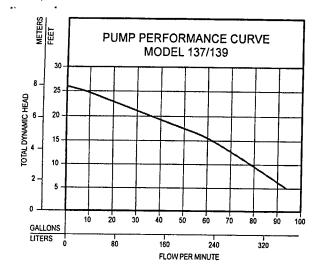
Bear Onsite filter cartridges are warranted to be free of defects in material and workmanship for five (5) years from the date of consumer purchase.

BEAR ONSITE™ Filter Case -Lifetime Limited Warranty

Bear Onsite warrants the filter case will be free of defects in material and workmanship during normal use for the period of time the original purchaser owns the product.

If a defect is found in normal use, Bear Onsite will, at its election, repair, provide a replacement part or product, or make appropriate adjustment. Damage to a product caused by accident, misuse, or abuse is not covered by this warranty. Improper care or malfunctions resulting from units not installed, operated, or maintained in accordance with instructions provided will void the warranty. Proof of purchase (original sales receipt) must be provided to Bear Onsite with all warranty claims. Bear Onsite is not responsible for labor charges, removal charges, installation, or other incidental or consequential costs. In no event shall the liability of Bear Onsite exceed the purchase price of the product.

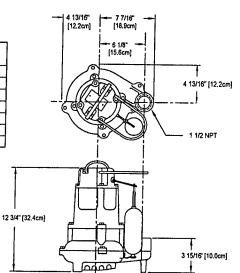
www.bearonsite.com 877-MLFILTERS (653-4583)



TOTAL DYNAMIC HEAD/FLOW PER MINUTE EFFLUENT AND DEWATERING

Feet Meters 5 1.5 10 3.0 15 4.6 20 6.1	137	7/139	
Feet	Meters	Gal.	Liters
5	1.5	93	352
10	3.0	79	299
15	4.6	64	242
20	6.1	36	136
25	7.6	8	30
Shut-o	ff Head;	26 ft.	(8.0m)

009921



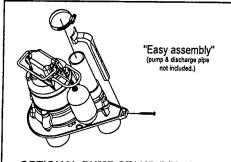
SK373

CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Three phase pumps are available in 200/208V, 230V or 460V.
- · Electrical alternators, for duplex systems, are available and supplied with an alarm.
- · Mechanical alternators, for duplex systems, are available with or without alarm switches.
- · Simplex Panels are available for 3 phase pumps.
- · Control alarm systems are available for 1 phase pumps.
- · Variable level control switches are available for controlling single and 3 phase systems.
- Double piggyback variable level float switches are available for variable level long cycle controls,
- Over 130°F (54°C) special quotation required.
- Refer to FM1922 and FM0806 for temperatures over 130°F (54°C).

▲ CAUTION

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).



OPTIONAL PUMP STAND P/N 10-2421

- · Reduces potential clogging by debris.
- · Replaces rocks or bricks under the pump.
- · Made of durable, noncorrosive ABS.
- Raises pump 2" off bottom of basin.
- Provides the ability to raise intake by adding sections of 1½" or 2" PVC piping.
- Attaches securely to pump.
- Accommodates sump, dewatering and effluent applications.

NOTE: Make sure float is free from obstruction.

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.

			11 100	,,,,	001100 01	123.		
Single Seal		Listi	ngs					
Model	Volts-Ph		Mode	Amps	Simplex	Duplex	CSA	UL
M137/139	115	1	Auto	10.7	1	4	Y	Y
N137/139	115	1	Non	10.7	2 or 3	2 or 4	Ÿ	Ÿ
** BN137	115	. 1	Auto	10.7	**	4	Y	Y
D137/139	230	1	Auto	5.8	1	4	Y	Y
E137/139	230	1	Non	5.8	2 or 3	4	Y	Y
* H137/139	200-208	1	Auto	6.2	1	4	Y	N
* l137/139	200-208	1	Non	6.2	3	4	Y	N
* J137/139	200-208	3	Non	2.6	3	4	Y	Y
* F137/139	230	3	Non	2.6	3	4	ΤΫ́	Ÿ
* G137	460	3	Non	1.4	3	4	N	N
* G139	460	3	Non	1.4	3	4	l N	N

137 Series - 47 lbs. 139 Series - 51 lbs

*No molded plug

**Single piggyback switch included.

Pumps must be operated in upright position.

Three phase units require a control switch to operate an external magnetic contactor.

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.

SELECTION GUIDE

- 1. Integral float operated mechanical switch, no external control required.
- 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.
- See FM0712 for correct model of duplex control panel or FM1663 for a residential alternator system.



MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

Your Peace of Mind is Our Top Priority®

visit our web site: www.zoeller.com

Owner/Agent:
POWTS Maintainer:
Local Regulatory Authority:
POWTS Installer:
Septage Servicing Operator

NORTHERN INDUSTRIAL SANDS, LLC - 512 CTH SS

Geo Tech Soil & Site Evaluation – Chippewa Falls, WI 715-577-6838 Barron County Zoning Department Barron, WI 715-537-6375 Edward Bergh - Bergh Contractors Inc. – Elk Mound, WI 715-577-6838

DESIGN PARAMETERS

Influent/Effluent quality (values typical for domestic (non-commercial wastewater and septic tank effluent)
Fats, Oil and greases (FOG) <30 mg/L, Biochemical Oxygen Demand (BOD) <220 mg/L, Total Suspended Solids (TSS) <150 mg/L Soil Loading Rate (SLR) = 0.7 (eff #1)

SYSTEM SPECIFICATIONS

The components of this septic system are intended to serve a an office building with no kitchen facilities. The components include a Skaw 3136 septic tank, (with effluent filter), a Skaw model 1600 dose tank with Zoeller 137 effluent pump, alarms and controls. Install (4) non-pressurized distribution cells using Infiltrator Quick4LP leaching chambers. Install a minimum of 100 leaching chambers when applying an EISA rating of 20.0 as specified by SPS. All parts of the components must comply with WI Adm. Code SPS 384 and be installed per manufacturer specifications and approval letters.

DESIGN CRITERIA

✓ In ground Soil Absorption component Manual Version 2.0

MAINTENANCE & MANAGEMENT

Inspect the condition of the treatment tank(s) and dispersal cell(s) a minimum of every three years. The septic tank contents must be removed in accordance with Chapter NR 113, WI Adm. Code when the combined sludge and scum equals one-third (1/3) the tank volume. The effluent filter should be inspected annually to ensure maximum performance. At a minimum the filter must be cleaned every three years when the tank is pumped. Immediately following the tank pumping the effluent filter should be properly removed and thoroughly flushed with a hose or other suitable means so that any debris accumulated on the filter have been properly removed. Upon successful removal of all foreign matter replace the filter so that it is properly "seated" in the filter housing canister. Refer to individual filter manufacturer specifications for additional information about specific products.

START UP

For new construction prior to use of the POWTS check treatment tank(s) for presence of painting products or other chemicals that may impede the treatment process and/or damage the dispersal cell(s). If high concentrations are detected have the contents of the tank(s) removed by a septage-servicing operator prior to use.

OPERATION

The property owner is responsible for the operation and maintenance of the POWTS and submission of required reports. The quantity and quality of wastewater will affect the performance and longevity of your POWTS. The installation of water-saving appliances and fixtures along with prompt repair of leaks reduces the wastewater volume. Also, the brine or waste from water softeners, iron removal units, and other clear water treatment devices and foundation drains should be discharged to the ground surface whenever possible. Note: this does not include laundry waste, showers, dishwater, etc.

The system is designed to handle domestic strength wastewater, however the disposal of food based greases and oils, vegetable/fruit peels and seeds, bones, and food solids such as those produced be a garbage disposal should be minimized. Toilet tissue is the only paper that should be discharged into the system. Other non-biodegradable items such as baby wipes, tampons, sanitary napkins, condoms, cigarette butts, dental floss, and cotton swabs should not enter the system. Chemicals such as petroleum products, paint, disinfectants, pesticides, antibiotics (medications), solvents, etc., should not be flushed into the system as they can seriously damage your POWTS and contaminate your drinking water supply.

Maintain regular steady flow by spreading the laundry washing throughout the week. Avoid vehicle traffic over all system components. Compaction of snow over the unit may cause it to freeze up.

INSPECTIONS

Inspections shall be made by a person carrying one of the following licenses or certifications: Master Plumber, Master Plumber Restricted Sewer, POWTS Maintainer or Septage Servicing Operator (per the attached Maintenance Schedule)

✓ Septic Tank Component

Tank inspections must include a visual inspection of the tank to identify any missing or broken hardware, identify any cracks of leaks, measure the volume of combined sludge and scum and to check for any backup or surface discharge of effluent. Access openings used for service of assessment shall be sealed and/or locked upon completion of service. Any defects shall be promptly corrected. Exposed openings greater than 8 inches in diameter shall be secured with an effective locking device to prevent accidental of unauthorized entry into the tank.

The outlet (effluent) filter(s) shall be inspected and cleaned to remove any accumulated solids according to manufacturer's specifications. Provisions are to be made to retain solids in the tank during cleaning. Filter cleaning may be necessary at more frequent intervals than stated in the maintenance schedule to keep the system operating properly.

✓ Pump Chamber/Treatment Tank(s) Component

The inspection must include a test of all electrical equipment such as pumps, alarms and floats. A visual check must me made for leaks, backups, surfacing, missing or broken security devices and other hardware and the condition of the filter. Any service needs or repairs shall be promptly taken care of.

✓ In-Ground Gravity Component dispersal Cells

The inspection shall include recording the levels of ponding, if any in the observation tubes and a visual inspection for any evidence of surface seepage or discharge. Any discharge to the ground must be promptly reported to the regulatory authority. Ponding greater than 75% of the height of the component may indicate overloading or impending hydraulic failure necessitating more frequent monitoring.

Divertor Valve

The divertor valve shall be switched to serve the opposing distribution component every three years (when the septic tank is due for it regular maintenance). However, if ponding is observed in the observation/vent pipe of any cell, the divertor valve shall be switch to the opposing component. Furthermore, ponding greater than 75% of the height of the component may indicate overloading or impending hydraulic failure necessitating more frequent monitoring

REPORTS

Reports for maintenance, inspection, and monitoring shall be submitted in accordance with SPS 383.55 Wisconsin Administrative Code.

ABANDONMENT

When the POWTS fails and/or is permanently taken out of service the following steps shall be taken to ensure that the system is properly and safely abandoned in compliance with Ch. SPS 383.33, Wisconsin Administrative Code.

- All piping to tanks and pits shall be disconnected and the abandoned pipe opening sealed.
- The contents of all tanks and pits shall be removed and properly disposed of be a Septage Servicing Operator.
- After pumping, all tanks and pits shall be excavated and removed or their covers removed and the void space filled with soil, gravel or other inert solid material.

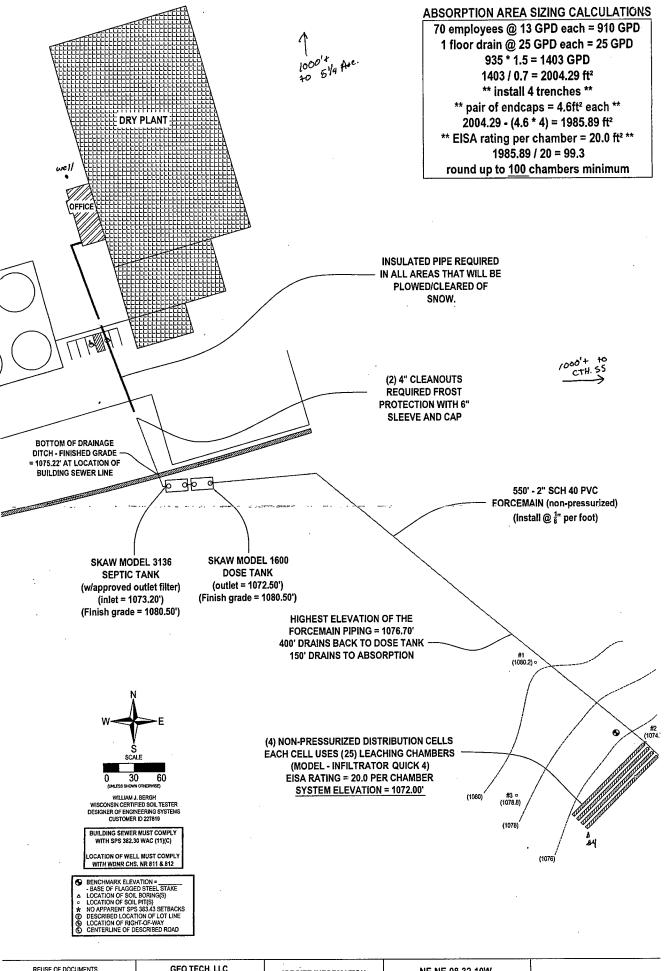
CONTINGENCY PLAN

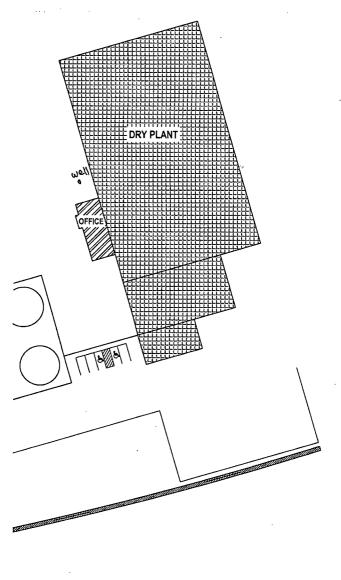
If the POWTS fails and cannot be repaired the following measures have been, or must be taken, to provide a code compliant replacement system.

- o A suitable replacement area has been evaluated and may be utilized for the location of a replacement soil absorption system. The replacement area should be protected from disturbance and compaction and should not be infringed upon by required setbacks from existing and proposed structure(s), lot lines and wells. Failure to protect the replacement area will result in the need for a new soil and site evaluation to establish a suitable replacement area. Replacement systems must comply with the rules in effect at that time.
- o A suitable replacement area is not available due to setback and/or soil limitations. Barring advances in POWTS technology a holding tank may be installed as a last resort to replace the failed POWTS.
- ✓ The site has not been evaluated to identify a suitable replacement area. Upon failure of the POWTS a soil and site evaluation must be performed to locate a suitable replacement area. If no replacement area is available a holding tank may be installed as a last resort to replace the failed POWTS.

WARNING

SEPTIC, PUMP AND OTHER TREATMENT TANKS MAY CONTAIN LETHAL GASES AND/OR INSUFFICIENT OXYGEN.
DO NOT ENTER A SEPTIC, PUMP OF OTHER TREATMENT TANK UNDER ANY CIRCUMSTANCES. DEATH MAY
RESULT. RESCUE OF A PERSON FROM THE INTERIOR OF A TANK MAY BE DIFFICULT OR IMPOSSIBLE.







WILLIAM J. BERGH WISCONSIN CERTIFIED SOIL TESTER DESIGNER OF ENGINEERING SYSTEMS CUSTOMER ID 227819

BUILDING SEWER MUST COMPLY WITH SPS 382.30 WAC (11)(C)

LOCATION OF WELL MUST COMPLY WITH WONR CHS. NR 811 & 812

- BENCHMARK ELEVATION =

 BASE OF FLAGGED STEEL STAKE

 LOCATION OF SOIL BORING(S)

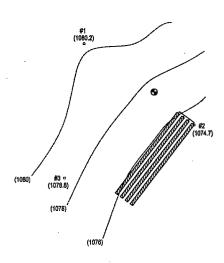
 LOCATION OF SOIL PIT(S)

 **NO APPARENT SPS 384.3 SETBACKS

 **O ESSCRIBED LOCATION OF LOT LINE

 LOCATION OF RIGHT-OF-WAY

 CHOTENLINE OF DESCRIBED ROAD



REUSE OF DOCUMENTS
his document has been developed for a specific
slication and not for general use. Therefore it may
not be used without the written approval of
Geo Tech, LLC. Unapproved use is the side
responsibility of the unauthorized user

GEO TECH, LLC 11091 30TH AVENUE CHIPPEWA FALLS, WI 54729 PH: (715)723-5555 FAX: (888)466-8573 email: billy@wastewaterpros.com

JOBSITE INFORMATION: NORTHERN INDUSTRIAL SANDS P.O. BOX 887 CHETEK, WI

NE-NE-08-32-10W **DOVRE TOWNSHIP** BARRON, WI PARCEL DESCRIBED AS 100+ AC.

SOIL TEST PLOT PLAN

SOIL EVALUATION REPORT

Department of Safety and Professional Services

in accordance with Comm 85, Wis. Adm. Code

LC

				_		_		_
Geo	Tech	Soil	& :	Site	Eval	uatio	'n,	L

Attach complete site plan on paper not less than 8½ x 11 inches in size. Plan must	
nclude, but not limited to yvertical and horizontal reference point (BM), direction and percent slope, scale of dimensions, horth arrow, and location and distance to nearest r	
percent slope, scale of diffiensiens! horth arrow, and location and distance to nearest r	oad

Please print all information.

BABRON COUNTY ZUNING UPFILE

County Barron Parcel I.D. 0800-04-000 Reviewed By

Personal information you provide may be used for secondary purposes (Privacy)	Law, s. 15.04 (1) (m)). Mac 5 16-17-15
Property Owner	Property Location Property Location
NORTHERN INDUSTRIAL SANDS, LLC	Govt. Lot NE1/4, NE1/4, S8, T32N, R10W
Property Owner's Mailing Address P.O. BOX 887	Lot # Block # Subd. Name or CSM#
City State Zip Code Phone Number	City Village X Town Nearest Road
CHETEK WI 54728 715-699-0285	Dovre 512 CTH SS
New Construction Use: Residential / Number of bedroom	s Code derived design flow rate1403GPD
Replacement Public or commercial - Describe:	70 EMPLOYEES & 1 FLOOR DRAIN
Parent material OUTWASH	Flood plain elevation, if applicable NAft.
General comments Site is suitable for a non-pressurized conventional F and recommendations:	POWTS. Maximum SLR = 0.7 (eff #1). System elevation = 1072.00'.
Boring # Boring Ground surface elev. 1080.2	ft. Depth to limiting factor >88 in. Soil Application Rate

		⊠ Pit Gro	und surface elev10	080.2 ft.	Depth to lin	niting factor _	>88	_in.	Soil Appli	cation Rate
Horizon	Depth	Dominant Color	Redox Description	Texture	Structure	Consistence	Boundary	Roots	GP	D/ft²
	in.	Munsell	Qu. Sz. Cont. Color		Gr. Sz. Sh.				*Eff#1	*Eff#2
1	0-10	10YR 2/2		LOAM	1 C SBK	MFR	CS	1F	0.4	0.6
2	10-28	7.5YR 3/4		SL	2 M SBK	MFR	GS	1	0.4	0.6
3	28-36	7.5YR 4/4-6		LS	0	MVFR	GS		0.7	1.6
4	36-52	10YR 4/6		S	0	ML	AW		0.7	1.6
5	52-88	10YR 4-5/4		LFS	0	MVFR			0.5	1.0

Horizon	Depth	Dominant Color	Redox Description	Texture	Structure	Consistence	Boundary	Roots	GP	D/ft²
	in.	Munsell	Qu. Sz. Cont. Color		Gr. Sz. Sh.				*Eff#1	*Eff#2
1	0-10	10YR 2/2		LOAM	1 C SBK	MFR	cs	1F	0.4	0.6
2	10-20	7.5YR 3/4		SL	2 M SBK	MFR	GS		0.4	0.6
3	20-50	10YR 4/6		S	0	ML	AW		0.7	1.6
4	50-102	10YR 5/6		S	0	ML			0.7	1.6

* Effluent #2 = BOD_s \leq 30 mg/L and TSS \leq 30 mg/L * Effluent #1 = BOD₅ > $30 \le 220 \text{ mg/L}$ and TSS > $30 \le 150 \text{ mg/L}$ CST Number Signature: CST Name (Please Print) 227819 William J. Bergh

Address Geo Tech Soil & Site Evaluation, LLC

11091 30th Avenue Chippewa Falls, WI 54729

Date Evaluation Conducted 2/9/2015

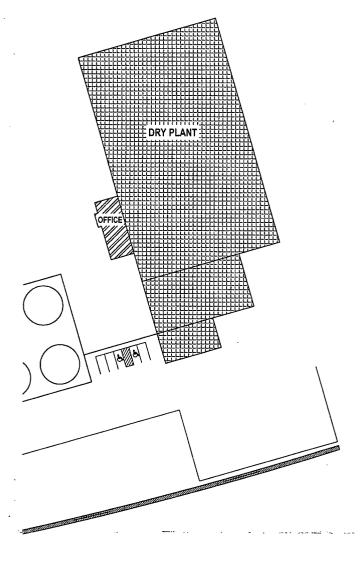
Telephone Number 715-577-6838

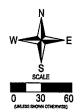
SBD-8330 (R.11/11)

Property C	wner <u>NC</u>	ORTHERN INDUST	RIAL SANDS, Par					F	Page2_	_of <u>3</u>
3 E	Boring #	☐ Boring ☑ Pit Gre	ound surface elev	1078.8	ft. Depth to I	limiting factor	>90	in.	Soil Applic	cation Ra
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GP *Eff#1	D/ft² *Eff#2
1	0-10	10YR 2/2		LOAM	1 C SBK	MFR	CS	1F	0.4	0.6
2	10-17	7.5YR 3/4		SL	2 M SBK	MFR	GS		0.4	0.6
3	17-51	10YR 4/4-6		LS	0	ML	AW		0.7	1.6
4	51-90	10YR 4-5/4		LFS	0	MVFR			0.5	1.0
4 8	oring #	⊠ Boring ☐ Pit Gre	ound surface elev.	1074.4	ft. Depth to I	limiting factor	>80	in.	Soil Applic	
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GP *Eff#1	D/ft² *Eff#2
1	0-9	10YR 3/3	:	LS						
2	9-20	10YR 3/4		LS						
3	20-36	7.5YR 3-4/4		LS-S		**				
4	36-80	7.5YR 4/6		S						
В	oring #	Boring Pit Gro	ound surface elev.		ft. Depth to I	limiting factor		in.	Soil Applic	cation f
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GP *Eff#1	D/ft² *Eff#
			- 10,000							
					1,111					
. 1				 		+			 	

^{*} Effluent #1 = BOD $_5$ > 30 \leq 220 mg/L and TSS >30 \leq 150 mg/L

^{*} Effluent #2 = $BOD_5 \le 30 \text{ mg/L}$ and TSS $\le 30 \text{ mg/L}$





BUILDING SEWER MUST COMPLY WITH SPS 382,30 WAC (11)(C)

OCATION OF WELL MUST COMPLY WITH WONR CHS, NR 811 & 812

- BENCHMARK ELEVATION =
 BASE OF FLAGGED STEEL STAKE
 LOCATION OF SOIL BORINGS)
 LOCATION OF SOIL BORINGS
 LOCATION OF SOIL PIT(S)
 NO APPARENT SPS 383-38 SETBACKS
 DESCRIBED LOCATION OF LOT LINE
 LOCATION OF RIGHT-TO-PWAY
 CENTERLINE OF DESCRIBED ROAD

REUSE OF DOCUMENTS
This document has been developed for a specific splication and not for general use. Therefore it may not be used without the written approval of Geo Tech, LLC. Unapproved use is the scle responsibility of the unauthorized user

GEO TECH, LLC 11091 30TH AVENUE CHIPPEWA FALLS, WI 54729 PH: (715)723-5555 FAX: (888)466-8573 email: billy@wastewaterpros.com

JOBSITE INFORMATION: NORTHERN INDUSTRIAL SANDS P.O. BOX 887 CHETEK, WI

(1078)



PRIVATE ONSITE WASTE TREATMENT SYSTEMS (POWTS)

INSPECTION REPORT

(ATTACH TO PERMIT)

_	NEF	- A			_	`	24		TI.	^	ĸ
IJ	N C I	ĸА	LI	IN	г٠	JK	IVI	A	3 1	u	т

Personal information you provide may be used for secondary purposes [Privacy Law, s.15.04(1)(m									04(1)(m)].			575946				
Permit Holder's Name:								☐ City ☐ Village ☑ Town of:					State	State Plan Trans. #		
Northern	Ind	lustri	al San	ds	LLC						Dovre					
CST BM Elev: Insp BM Elev:							В	BM Description:					F	Parcel Tax No#		
100 100.0								Ground Level @ Steel Post						022-0800	-04-000	
TANK IN	FOF	RMAT	ION								ELEVATION D	ATA				
TYPE	N	MANU	JFACT	UF	RER		CAP	ACITY			STATION	BS	HI	FS	ELEV.	
Septic	Skaw					3136 gal			al	Benchmark	4.40	104.40		100.00		
Dosing Skaw					1600 gal			al	Turn	3.10	103.76	3.74	100.66			
Aeration									ga	al						
Holding									ga	al .	Bldg. Sewer		103.76	7.70	96.06	
TANK SE	ETB/	ACK I	INFOF	RM/	ATIO	<u> </u>					S.T. Inlet		103.76	9.90	93.86	
TANK TO P/L			BLDG WEL			VENT		ROAD		S.T. Outlet		103.76	10.05	93.71		
		00'+	100'+	· · · · · · · · · · · · · · · · · · ·		00'+			NA		D. T. Outlet		103.76	10.15	93.61	
Dosing	1	00'+	100'+ 100'+		+'00			NA		D.T. Bottom		104.40	14.16	90.24		
Aeration						-			NA		Top of Tank					
Holding	十								1		Ground at tank					
•	PUMP / SIPHON INFORMATION															
Manufacturer Zoeller											Install. Contour Header	· · · · · ·	104.40	7.80	96.60	
Model Number 137								System			Dist. Pipe	<u> </u>				
Lift 6.36 Friction Loss System Hea						System	Head		Demand	d		1			+	
TDH 9.61 3.25							GI	РМ	Infiltration							
Forcemain		gth	450				2	t. To W 1	100 ft	Surface		104.40	8.80	95.60		
PRETREATMENT UNIT 2.067							067				Final Grade		104.40	5.30	99.10	
Тур									EFFULENT FILTE			TER	· · · · · ·		-/ <u>-</u>	
Model										Manufacturer	Bear	Bear				
Manufacturer									Model							
DISPERS	SAL	CELL	_ INFO	RN	/ATIO	ON					 	<u> </u>				
DISPERSAL CELL INFORMATION Dimensions Width Length									No of C	ells						
			3 ft			102 ft					Type of System		Leach	Leaching Unit		
Setback		7		Π					OHWM of Nav				Manufacturer: Infitrator			
Information			P/ L	E	Bldg Well		Waters		I.G.N.P.] м	Model:		Quick-4+			
Cell to (ft.)			500'+	50	0'+	60	600'+				non-aggregate # of		f of Units:	of Units: 100		
	-	1		L		•			· · · · · · · · · · · · · · · · · · ·							
DISTRIB				VI												
Header / Manifold Distribu						Dist	ribution	ution Pipe(s)			x Hole Size	x Hole	e Spacing			
Length ft.		Dia. in.		Length ft.		Dia. in		. Spacing ft					☑ Yes	□ No		
												<u>.</u> ii	<u> 1</u>			
SOIL CO		₹ :	x Pres	ssu		stems	-			, –						
Depth Over			Depth C		•				epth of		Seeded / Sodded ☐ Yes ☐ No		Mulched ☐ Yes☐ No			
Cell Center			in. Cell Edge								ppsoil in.		s 🗆 No		#SILL INO	
COMMEN	ITS:	(Includ	e code	disc	repand	ies, pers	ons pres	ent, ect.))							

Use other side for additional information.

6/1/2015 Date

Inspector's Signature

Credential No.

County: BARRON

San. Permit Number

