ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

NOTICE OF INTENT

INDIVIDUAL TREATMENT FACILITIES NPDES GENERAL PERMIT ARG550000

Application Type	: New 🖂	Re	newal 🗌	(Permit # AF	RG55	
I. PERMITTEE/OPERATO	R INFORMATION	N .				
Permittee (Legal Name):	Andy Kimbrell				Operator	· Type:
Permittee Mailing Address:	26815 Kanis			☐ St	ate	Partnership
	Little Rock				deral	Corneration*
Permittee State:	Ar	Zip:	72223	So	ole Proprietorshi	p/Private
Permittee Telephone Number:	501-831-1817			*State	of Incorporation	on:
Permittee Fax Number:	NA					e Permittee must be ne listed with the
Permittee E-mail Address:				identi	isas Secretary of	
II. INVOICE MAILING INF	ORMATION (Hon	ie owners	are exem	pt.)		
Invoice Contact Person: N	/A			Cit	y:	
Invoice Mailing Company:					e:	Zip:
Invoice Mailing Address:						
Facility Name: Kimbrell Ref Facility Address: 9026 Pinnac Facility County: Pulaski Facility Latitude: 34 Deg 50 Accuracy: Me	Min 36.78 Sec	FaFa_Datum	Teleph acility City, cility Long	one Number: , State & Zip: gitude:	Roland 92 Deg 32 M	1in 42.54 Sec
	0 Min 37.30 Sec	Da Ou Datum : _	y) Hydrolo tfall Longi	ogic Basin Coo tude: 92 De	450 gpd (Ga de: 111 102 07 g 32 Min 45.74	7 1 Sec
Type of Treatment: Singulair		ection				
Receiving Stream: Arkansas						
V. FACILITY PERMIT INFO	ORMATION					
	S Individual Permit DES General Permit State Cons Stormwater Permit	Number (truction P	If Applical ermit Num	ble): ARG	5	

WATER DIVISION
5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
PHONE 501-682-0623 / FAX 501-682-0880
www.adeq.state.ar.us

VI.	OTHER INFORMATION:				
	Operator Name:	David N	√leints		
	Operator License Number:	009055		Licens	se Class: III
	Consultant Contact Name:	David M	1aints		
	Consultant Email Address:		meincowastewater.con		
	Consultant Address:	PO Box 100			AR Zip: 72089
	Consultant Phone Number:	501-804		nsultant Fax Numbe	12007
Has th	is treatment system been appr	roved by	AHD? Yes ⊠ No [
Disclos	sure Statements:			_	
withou be obta	ent with their applications. The f	filing of a disclosure ttp://www	disclosure statement is e statement even if you	mandatory. No apple have one on file wi	I Quality (ADEQ) file a disclosure lication can be considered complete the the Department. The form may
$\langle \gamma \rangle$	representative under the understand that the Dep Initial) "I certify under penalty supervision in accordate evaluate the informatic gathering the informatic	one provisi partment v of law the new with on submitted on, the interval	ions of 40 CFR 122.2 will accept reports sign that this document and a system designed to ted. Based on my incompation submitted is there are significant points.	2(b). If no cognizated only by the Appl all attachments we assure that qualifiquity of the person to the best of my kneuties for submitting	alified to act as a duly authorized ant official has been designated, icant." re prepared under my direction of ed personnel properly gather and or persons directly responsible for nowledge and belief, true, accurate any false information, including the
Resr	oonsible Official Printed Name:	Rede	16'-1-11	Title: Owne	r
	Responsible Official Signature:			Date: 511	
		and .	4:1-10-6		
Co	Responsible Official Email:				Class III Operator
Co	ognizant Official Printed Name:	-	Δ []	_ Title:	
	Cognizant Official Signature:		la. M.	_ l'elephone:	501-804-0837
	Cognizant Official Email:	_david@	meincowastewater.com	_	
X. PI	ERMIT REQUIREMENT VE	RIFICA	TION		
Pl	ease check the following to veri				ons, then a permit can not be issued!
Subi	mittal of Complete NOI?				
Subi	mittal of Required Permit Fee?		Check Number:		ALCONOMICS
Subi	mittal of AHD Form FHP-10?				
Subi	mittal of Site Map?				

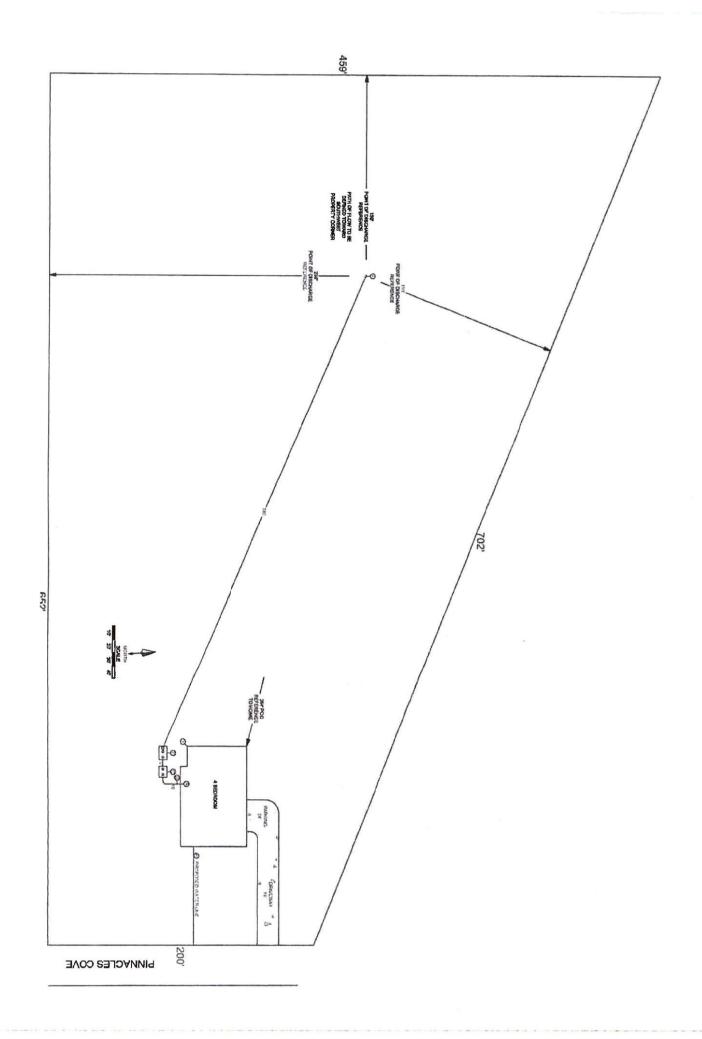
WATER DIVISION
5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
PHONE 501-682-0623 / FAX 501-682-0880



Arkansas Department of Health Environmental Health Protection

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Andy & Neely F 3. Maling Address	/IMpreii		C/O I	RQM H	omes			(501) 831-147	1			-
P.O. Box 2329	16, Little Ro	ck 72223					_	 County Pulaski 				
5, Address of Propos	sed System (lf a 911 address is n				lled di	rection					-
6. Subdivision Name	The state of the s	and, AR 72135 (G	manufal a series where								***********	
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14. Brief Legal Descr Section 6. Town	ashlo 2 Nort	h, Range 14 West	Puleel	t of pape ki Coun	er, II ned My	08888	ry)					
15. Water Supply (Sp Central Arkans	pecify supplie		, r didd	1	6. GPS	7. 7.		Section No. 11 (1975)	84370	,-92.54604	(POD)	
17. Loading Rates	(gpd/ft²)	18. System Speci	Ocations							***********		***************************************
Primary Area	n/a	a. Size of Septic T		500/A	TU	gal	f. T	rench Depth	n/a		Inches	
Secondary Area	n/a	b. Size of Dose Ta		250		gal		rench Spacing	n/a	***************************************	feet	-
Percolation Test	(min/in)	c. Absorption Area		n/a		fl ²		rench Media (List	Balow)		1.Trench	Width
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* Optional System Utilization Verification Form

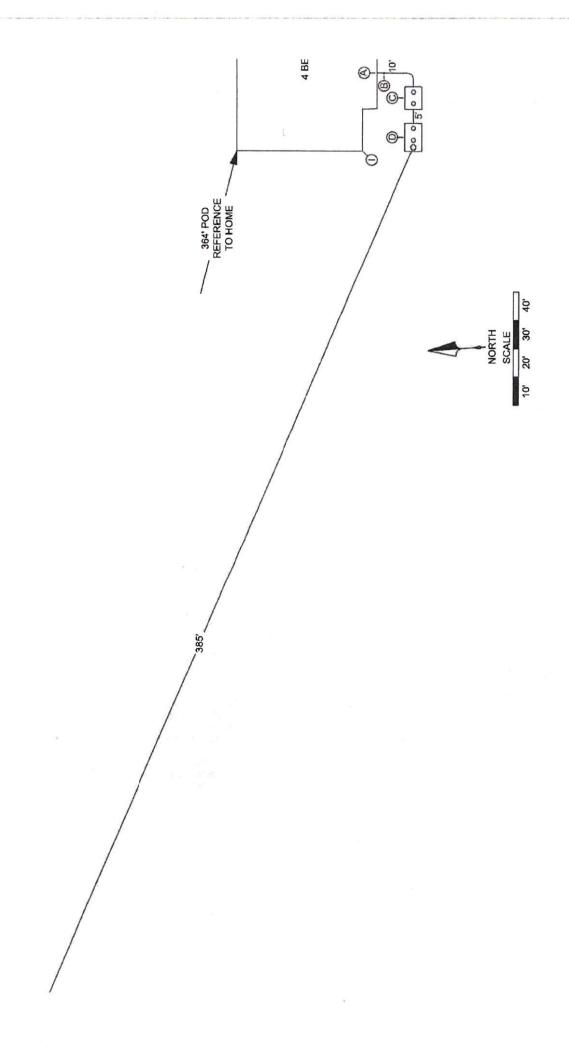


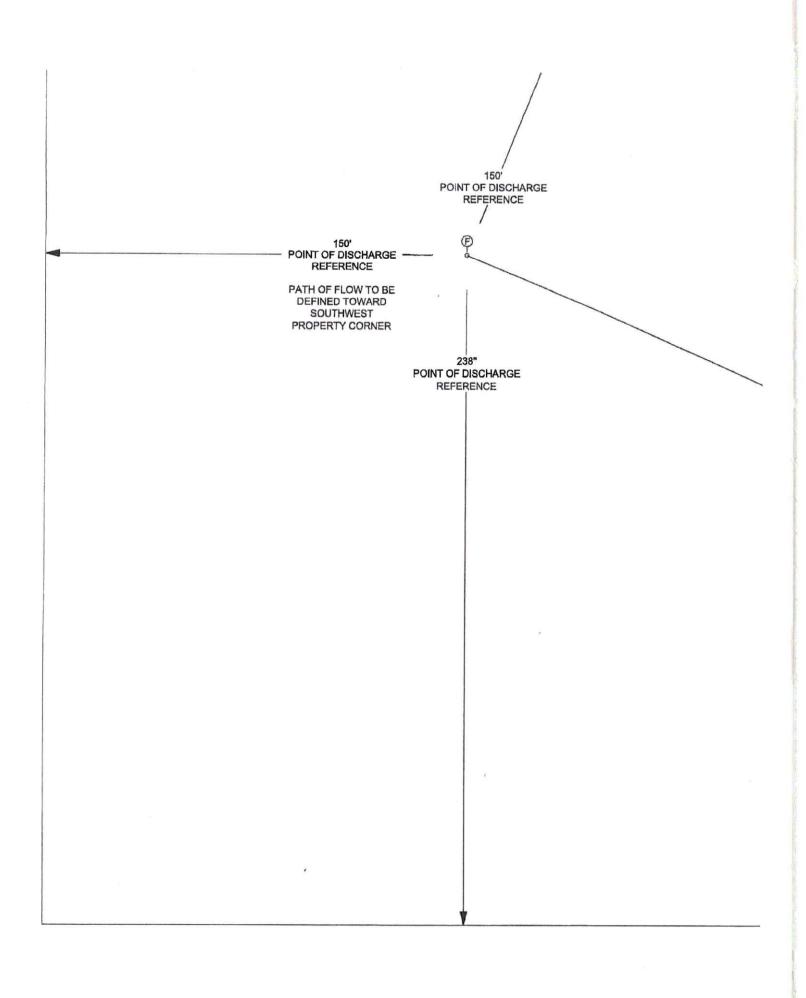
Arkansas Department of Health Environmental Health Protection

Receipt Number	

Individual Onsite Wastew	vater System	Permit Application	Fee Schedule for Structures	v
Permit Type	☐ New Ins	stallation	Structures 1500 sq ft or less \$ 30.00	
Tommerypo		on / Repair	Structures more than 1500 sq ft and up to 2000 sq ft \$ 45.00	
	M Alterati	on repair	Structures more than 2000 sq ft and up to 3000 sq ft \$ 90.00	
DR Environmental ID #			Structures more than 3000 sq ft and up to 4000 sq ft \$120.00	
7 6 0 1 0 5	5 5 4	1 7	Structures more than 4000 sq ft \$150.00	
			Alteration and Repair \$ 30.00	X
☐ Homeowner			4	
☑ Builder/Develope	er			
TO THE PROPERT	Y OWNER	!		
Onsite Wastewater	System Ut	ilization Verificat	ion	
Property location:			Cove, Roland, AR 72135 System, City, State, Zip)	
107725 22 20 20 20 20	,	23 mm (45) "25) "(45) "(45) (45) (55) (55) (55) (55) (55) (55)	00 4 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	
hereby attest there	are <u> </u>	bedrooms (number of persons for commercial)	and
the square footage	of the st	ructure that will	utilize the designed onsite waster	vater
system in this permi	t application	on is accurate. I	have reviewed the permit application	and
understand the layo	ut, installa	tion, maintenand	ce, operation and expense(s) that ma	y be
associated with this	system.			
As Developer/Builde	er, I hereb	y attest that the	above information is correct and pri-	or to
the sale of the prop	erty, I will	convey, to the b	ouyer, all information associated with	this
system.				
Owner/Applicant Sig	gnature	21/2		
Date02/	17/2022			
This document must be (number 19 on the EHP-			cation, if the Owner/Applicant Signature Sec	tion

EHP-19, OPT-A (R 8/13)







References are found in the Arkansas State Board of Health Rules and Regulations Pertaining to Onsite Wastewater Systems Effective 12/1/2014.

Zone A: LEGEND TO AutoCAD DRAWING

- A <u>Sewer stub out location.</u> Maximum depth of flow line from existing grade is **24*** (*Reference Appendix F*). Show this drawing to your plumber.
- B <u>2-way clean out location.</u> Sewer popper required. Install clean out and sewer popper at or above grade (Reference 8.13). Fall to inlet of septic tank can be no less than 1/8" per foot, and no more than 1/4" per foot (Reference 4.1).
- C <u>Trash tank location.</u> Risers to grade over inlet and outlet, minimum 18" diameter (*Reference 10.7.8*). Effluent filter required Orenco Filter FTS0436-28 (*Reference 10.7.6*). Bed and backfill septic tank with 3/4" or smaller gravel (*Reference 10.4*). Septic tank must meet or exceed manufacturer requirements, 5000 psi, aged 28 days minimum (*Reference 10.7.3 10.7.5.1*)
- D <u>Aerobic Treatment Unit location</u>. Disinfection required. Refer to included spec sheet for precise model.
- E <u>Dose tank.</u> If applicable.
- F Point of Discharge (POD). POD meets all setbacks required. (Reference 9.8)
- G Soil pit location, if applicable. Not used due to shallow seasonal water tables or contour issues.
- H Proposed water line. Water line must be installed 10' from any part of wastewater system (Reference 6.2.8).
- I Benchmark location.

PIPE SPECIFICAITONS

House stub out to trash tank inlet: 4" Schedule 40 Pipe Trash tank to Aerobic Treatment Unit: 4" Schedule 40 Pipe Aerobic Treatment Unit to dose tank: 4" Schedule 40 Pipe Dose tank to Point of Discharge: 1 1/4" Schedule 40 Pipe

PUMP SPECIFICATION

Zoeller BN53

TANK SPECIFICATION

Manufacturer: Whitten Concrete 500 Gallon Trash Tank and 1000/250 Gallon Combo Tank

TREATMENT UNIT SPECIFICATION

BioMicrobics Fast 0.5

EFFLUENT STRENGTH

Biochemical oxygen demand < 300 mg/L Total suspended solids < 300 mg/L Fats, oil, and grease < 25 mg/L (Reference 9.41 and Appendix B, Footnotes)

Any changes or substitutions to the notes and specifications in this permit must be approved by the Designated Representative.



GROUND AND INSTALLED ELEVATIONS (feet & inches)

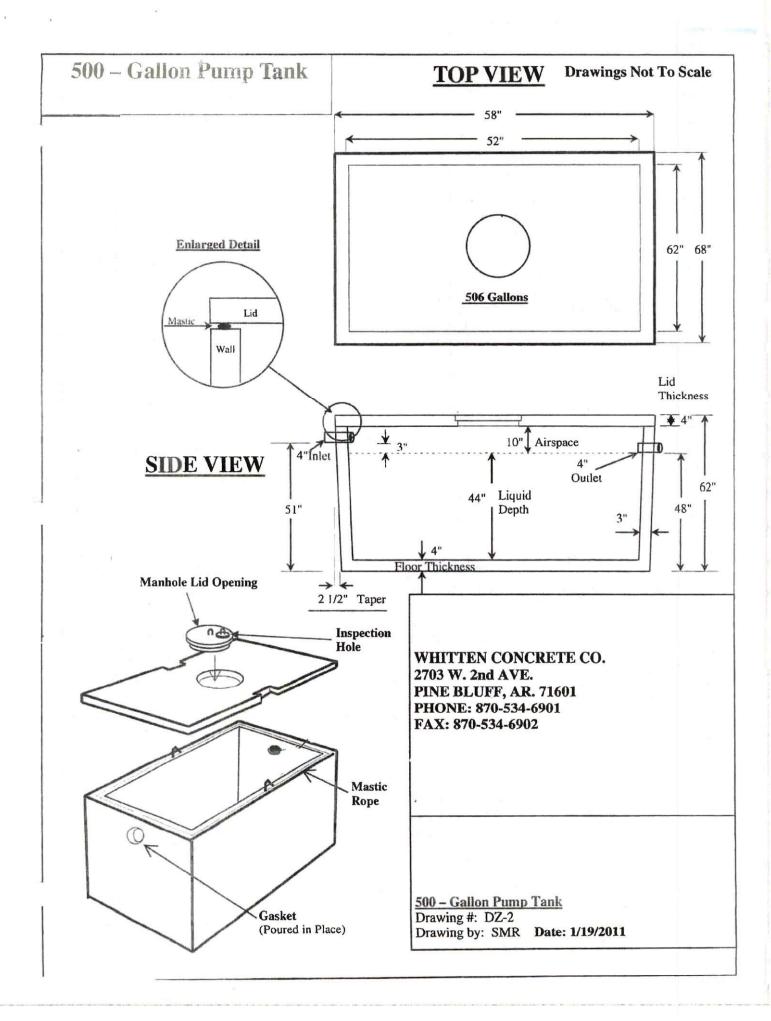
Component	Ground	Flow Line	Fall
Stub Out	08-00"	10-00"	24"
Trash Tank Inlet Trash Tank Outlet	09-07" 09-10"	11-06" 11-09"	18" 3"
ATU Inlet ATU Dose Outlet	09-10"	11-10" 10-10"	1" -12" (Out of Riser)
Point of Discharge	03-11"	03-11"	-85" *
Benchmark	07-07"	Southwest Corn	er of Home (See Drawing)

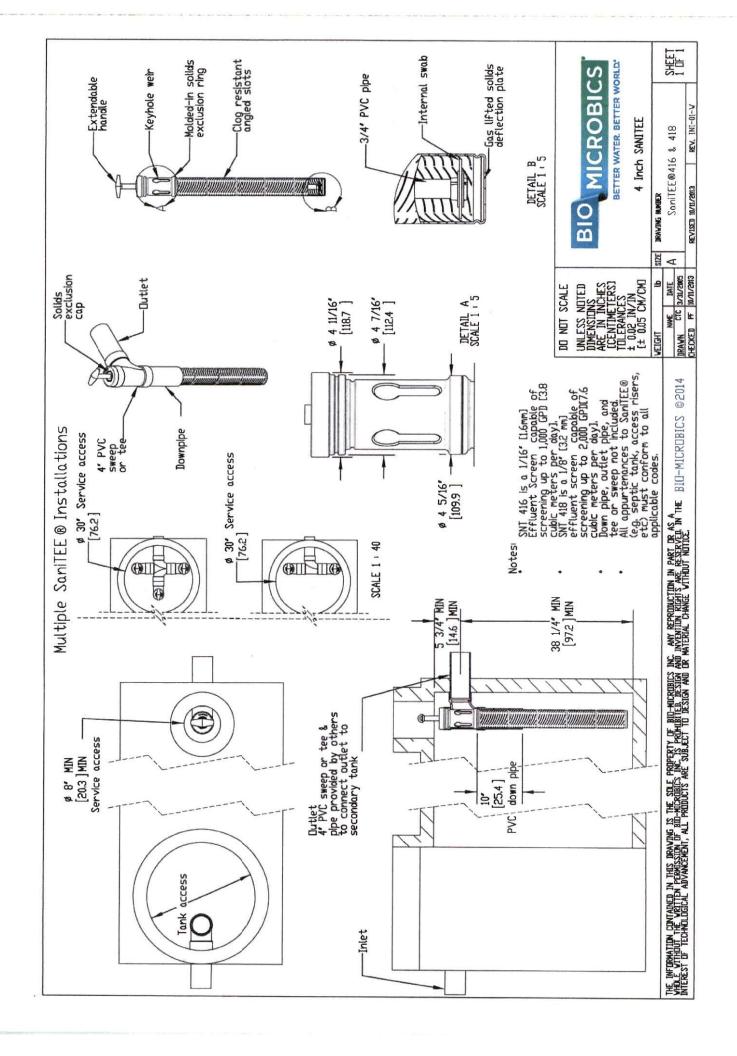
NOTES

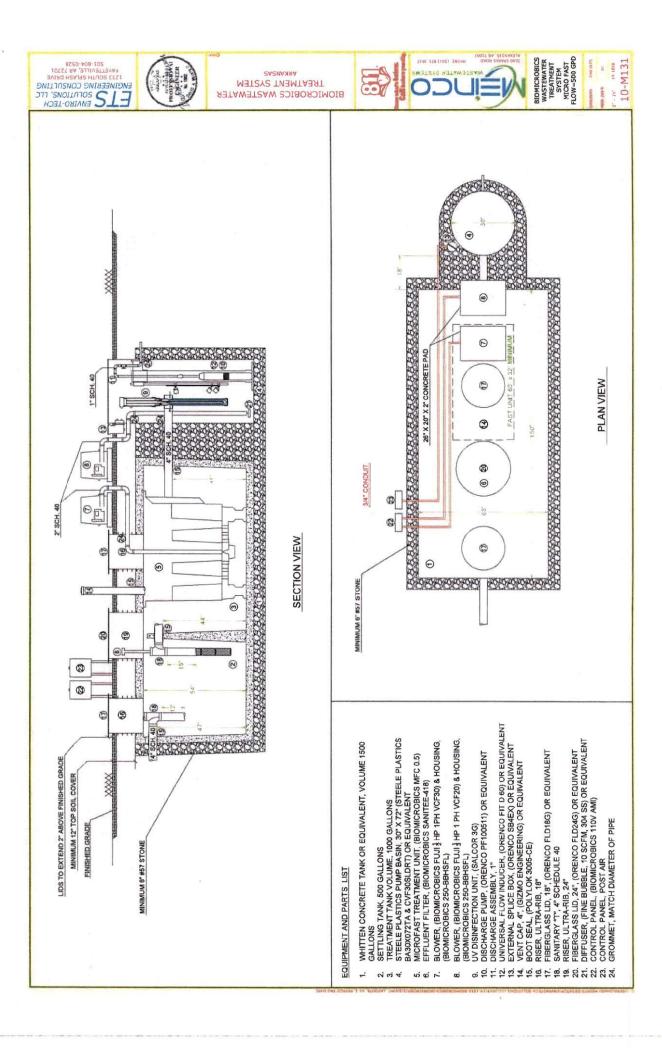
NPDES permit required on all surface discharging wastewater systems. (Reference 9.6 and 11.1)
Aerobic Treatment Units must comply with the AR Department of Health's Onsite Wastewater Systems Monitoring Program. (Reference 12)

Any changes or substitutions to the notes and specifications in this permit must be approved by the Designated Representative.

^{*}Add 6' to pump curve elevation to accommodate for pump depth in tank.







Specifications for MicroFAST 0.50 Wastewater Treatment System

The contractor shall furnish and install (1) MicroFAST®0.50 freatment system as manufactured by Bio-Microbics, Inc. The freatment system shall be complete with all needed equipment as shown on the drawings and specified herein

Tank must The principal items of equipment shall include the FAST® system insert, blower assembly, blower controls and leg extensions or lid. All other items will be provided by others.

The MicroFAST 0.50 unit shall be situated within a 450 Gallon [1700L] minimum compartment as shown on the drawings. Suggested maximum settling zone is [1] X the daily flow. Tank must provide adequate pump out access and conform to local, state, and all other applicable codes. The contractor shall coordinate the proper fabrication of the tank between the FAST system and tank supplier with regard to fabrication of the tank, installation of the FAST unit, and delivery to the job site.

OPERATING CONDITIONS
 The MicroFAST 0.50 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to
 (8) eight people and not to exceed 500 US Gallons per day (1800 LPD) provided the waste contains nothing that will interfere with biological treatment. The FAST system is a biological treatment for non-biodegradable or industrial wastewater.

3. MEDIA
The FAST® media shall be manufactured of rigid PVC, polyethylene, or polypropylene and it shall be supported by the polyethylene insert. The media shall be fixed in position and contain no moving or wearing parts and shall not corrode. The media shall be designed and installed to ensure that sloughed solids descend through the media to the bottom of the septic tank.

5. REMOTE MOUNTED BLOWER
The blower shall be placed on a contractor supplied concrete base. The blower must not sit in standing water and its elevation must be higher than the tank and normal flood level. A two-piece, rectangular housing shall be provided. The discharge air line from the blower to the MicroFAST® System shall be provided and installed by the contractor. The MicroFAST 0.50 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM (31-46 m3/hr). The blower assembly shall include an inlet filter with metal filter element. The blower shall be mounted outside the tank on a contractor supplied concrete base. Blower piping to the tank shall use non-comosive material (PVC, Galvanized, or stainless Steel). Do not run galvanized pipe inside the treatment tank. Refer to Installation Manual for further details.

ELECTRICAL
 The electrical source should be within 150 feet [45 meters] of the blower consult local codes for longer wiring distances. All wing must conform to all applicable codes(IEC, NEC, etc.).
 Wiring distances must prevent significant voltage loss. Input power on 60Hz electrical systems 110/220VAC, 10, 3.5/1.7 FLA, on 50 Hz electrical systems 220VAC, 10, 1.9 FLA. Other voltages and phase are also available. Actual power consumption varies with site conditions. All conduit and wining shall be supplied by contractor.

CONTROLS

The control panel provides power to the blower and contains an alarm system consisting of a visual and audible alarm capable of signaling blower circuit failure and high water conditions. The control panel is equipped with SFR® (Sequencing Fixed Reactor) timed control feature. A manual alarm silence button is included.

INSTALLATION AND OPERATING INSTRUCTIONS

œ

All work must be done in accordance with local codes and regulations. Installation of the FAST 0.50 shall be done in accordance with the written instructions provided by the manufacturer. Manuals shall be furnished, which will include a description of system installation, operation, and maintenance procedures. FLOW AND DOSING

FAST® systems have been successfully designed, tested and certified receiving gravity, demand-based influent flow. When influent flow is controlled by pump or other means to help with highly variable flow conditions, then multiple dosing events should be used to maximize performance. The flow rate shall not exceed 5 gpm (19 Lpm) with a maximum hourly flow not to exceed 10% of the design daily flow (50 gph (190 LPH)).

Bio-Microbics, Inc. warrants all new residential FAST® models (MicroFAST® 0.50, 0.625, 0.75, 0.90, and 1.5) against defects in materials and workmanship for a period of two years after installation or three years from date of shipment which ever occurs first. All other FAST® system models are warranted for a period of one year after installation or eighteen months from date of shipment, whichever occurs first. All are subject to the following terms and conditions below: 10.WARRANTY

During the warranty period, if any part is detective or fails to perform as specified when operating at design conditions, and if the equipment has been installed and is being operated and mandamed in accordance with the wilden instructions provided by Bio-Microbics, inc.'s facility, Edicing provided by Bio-Microbics, inc.'s facility and replacement of the defective parts and from installation of parts furnished under this warranty and regular maintenance elems such as included a state of the average of the control of th

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OF THINESS FOR A PARTICULAR PURPOSE. NO REPRESENTATIVE OR PERSON IS ALTHORIZED TO GIVE ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OF TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OF TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OF TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WAS INCOMEDIATED.

X 12/18/2006 CHECKED PF 9/18/2013 DATE NAME DRAWN CTC BIO-MICROBICS @ 2014 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BIO-MICROBICS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BIO-MICROBICS, INC. IS PROPUBLIED. DESIGN AND INVENTION PROFITS ARE RESERVED. IN THE INTREST OF FECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

BETTER WATER, BETTER WORLD. MICROBICS Unit MicroFAST 0.50 FAST [± 0.05 CM/CM] DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES DO NOT SCALE UNLESS NOTED ± 0.02 IN/IN

SHEET 3 OF 4 MicroFAST® 0.50 Specifications REV. INI-05-V REVISED 9/18/2013 DRAWING NUMBER SIZE

MODEL AT 1500

UV DISINFECTION SYSTEM

INSTALLATION AND OPERATION MANUAL

The Model AT 1500 UV disinfection system is listed with Underwriters Laboratories (UL) under Standard 979 as a residential treatment device. The installer should provide a power disconnect switch mounted to the exterior of the facility being served to de-energize power to the unit during maintenance. Electrical work must be performed in accordance with the latest edition of the National Electrical Code, as well as all applicable local codes. The Model AT 1500 UV disinfection system conforms to the applicable provisions of the Code of Federal Regulations (CFR) requirements including Title 21, Chapter 1, Subchapter J, Radiological Health. CAUTION: DO NOT LOOK DIRECTLY AT THE UV LAMP OR EXPOSE SKIN DURING OPERATION. PERMANENT EYE DAMAGE AND SKIN BURNS WILL OCCUR FROM UV RADIATION EXPOSURE. UV BLOCKING SAFETY GLASSES MUST BE WORN DURING INSTALLATION, SERVICE OR ANY TIME THE LAMP MAY BE ILLUMINATED. UV BLOCKING SAFETY GLASSES ARE AVAILABLE FROM NORWECO.

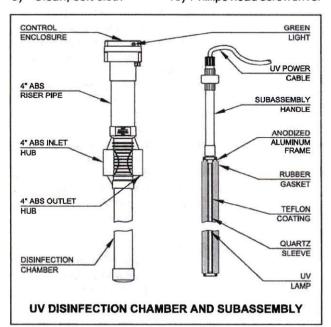
COMPONENTS

The Model AT 1500 UV disinfection system consists of the following components:

- 1) Control enclosure
- 2) 4" ABS riser pipe
- Disinfection chamber with turbulence inducer
- UV lamp (bulb) with male connector
- Power cable with female twist lock connector
- UV subassembly with quartz sleeve and Teflon coating
- 7) Subassembly handle

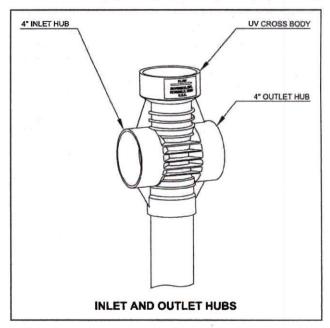
The components should be supplied by the installer:

- 1) Disconnect switch
- 2) Solvent cement
- 3) Hacksaw
- 4) Glycerin (optional)
- 5) Clean, soft cloth
- 6) Isopropyl alcohol
- 7) #14/2 AWG cable
- 8) Conduit and fittings
- 9) Flat head screwdriver
- 10) Phillips head screwdriver



INSTALLATION INSTRUCTIONS

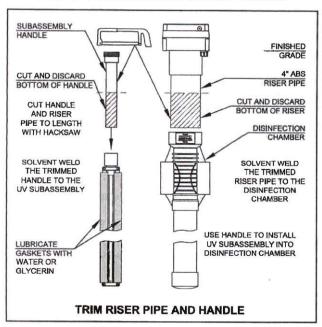
- The excavation for the upstream wastewater treatment system should include an additional 3 feet of length to allow for installation of the Model AT 1500.
- Carefully unpack the Model AT 1500 system. Remove and properly discard all packaging materials from the system components. The UV lamp should remain in the protective shipping sleeve until it is installed.
- Flow direction indicator arrows are molded into the disinfection chamber. When installing the disinfection chamber, be sure to orient the chamber correctly with the flow arrows pointing towards the effluent plumbing.



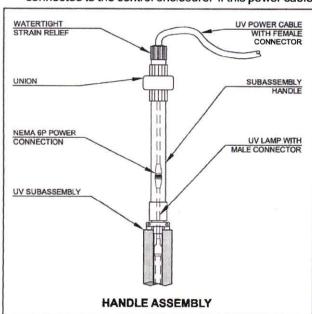
4. Solvent weld the effluent line of the upstream treatment system to the 4" inlet hub of the Model AT 1500. Next, solvent weld the 4" outlet hub to the final effluent line. Cover the open top of the disinfection chamber and backfill up to the bottom of the plumbing.

AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

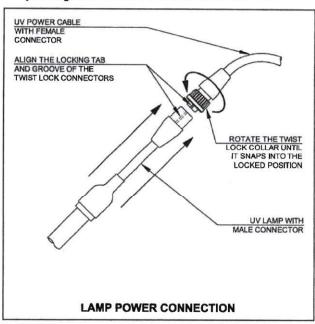
5. The control enclosure should be completely above grade in the finished installation. The riser pipe and subassembly handle are purposely manufactured longer than necessary and must be trimmed. Fit the riser pipe into the top of the disinfection chamber and mark a trim line on the bottom. Mark the subassembly handle on the bottom to trim the same amount.



- 6. Disassemble the union on subassembly handle and set aside the top portion with UV power cable.
- 7. Use a hacksaw to cut along the trim line on both the riser pipe and handle to make them the proper length.
- 8. Solvent weld the riser pipe to the disinfection chamber and solvent weld the handle to the UV subassembly.
- 9. The Model AT 1500 is shipped with the UV power cable connected to the control enclosure. If this power cable



has become disconnected, it must be reconnected at this time. To do so, remove the gasketed cover from the control enclosure. Connect the lead labeled "ONE" on the UV power cable to the terminal block marked "1". Connect the lead labeled "TWO" to the terminal block marked "2". Connect the lead labeled "THREE" to the terminal block marked "3". Connect the yellow/green lead to the terminal marked "Y/G".

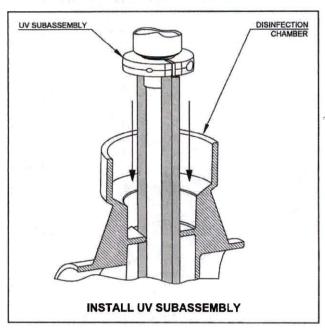


- Remove the threaded access plug from the riser pipe.
- 11. Match the alignment tab on the male connector from the UV lamp to the alignment groove in the female twist lock connector on the UV power cable. Push the two connectors together until the male connector is fully seated in the female connector. Rotate the twist lock collar until it snaps into the locked position.
- 12. Insert the UV lamp and power cable into the handle assembly until the base of the lamp is seated in the bottom of the quartz sleeve. Rotate the power cable if the lamp becomes misaligned.
- 13. Lower the union onto the handle assembly, making sure to pull any slack cable through the strain relief connector. Assemble and tighten the union and strain relief to insure a watertight seal.
- 14. Use water or glycerin to lubricate the rubber gaskets located on both sides of the UV subassembly.
- 15. Do not touch the Teflon coating or allow excess glycerin to contact it. Use a clean, soft cloth and isopropyl alcohol to thoroughly clean the coating.
- 16. Fill the disinfection chamber with clean water.

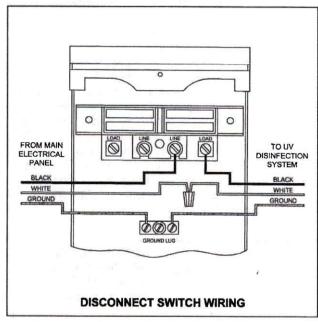


@MMXXI NORWECO, INC. NORWALK, OHIO U.S.A. / REV. 02/2021

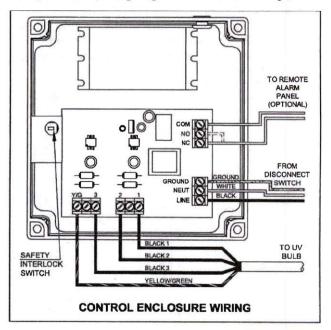
AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)



- Align the rubber gaskets with the rectangular opening and lower the UV subassembly into the disinfection chamber.
- 18. Tuck the excess power cable into the riser pipe.
- Use a dedicated 115 volt AC single phase 15 amp circuit in the main electrical panel for the AT 1500. NOTE: Make sure the breaker is off before proceeding.
- Use a disconnect switch to de-energize power during service. Mount directly to the facility being served.
- 21. Install a #14/2 AWG cable from the dedicated breaker in the main electrical panel to the disconnect switch.
- 22. In the disconnect switch enclosure, connect the hot (black) lead from the main electrical panel to the "LINE" terminal. Connect the black lead from the UV system to the "LOAD" terminal. Wire nut both white leads together. Connect ground leads to the ground lug.



- 23. Remove the control enclosure cover and black electrical insulator. Install a #14/2 AWG cable from the disconnect switch to the control enclosure. Insure the connection to the UV system is made in conduit, solvent welded to the conduit fitting provided. A watertight connection is critical for proper operation and safety.
- 24. Attach the incoming hot (black) lead to the terminal block marked "LINE". Attach the common (white) lead to the terminal block marked "NEUT". Attach the incoming ground lead to the terminal block marked "GROUND".
- 25. If a remote alarm panel is required, the alarm leads should be installed in a separate conduit, solvent welded to the second conduit fitting provided. Connect one alarm lead to either the normally open (NO) terminal or the normally closed (NC) terminal. Choose the correct terminal for the type of signal required by the remote alarm panel. Connect the other lead to the common (COM) terminal.
- 26. Solvent weld a conduit plug into any unused fittings.
- Apply thread sealant to the access plug and install plug in the riser opening. Tighten to insure a watertight seal.



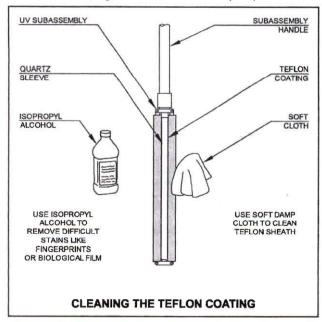
- 28. Reinstall the electrical insulator and four thumb screws. Make sure that the cutout for the safety interlock switch is positioned correctly over the switch.
- 29. Reinstall the control enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch. Tighten the four screws on the cover to insure a watertight seal. NOTE: If the switch is not aligned with the post, the UV lamp will not operate and the green light on the side of the enclosure will not illuminate.
- Backfill around the disinfection chamber and riser pipe.
 Finished grade should be below the control enclosure to prevent the entry of surface water.
- 31. Turn on power at the disconnect switch and main service panel. Confirm the green light on the enclosure is illuminated indicating proper operation.

AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

MAINTENANCE AND SERVICE

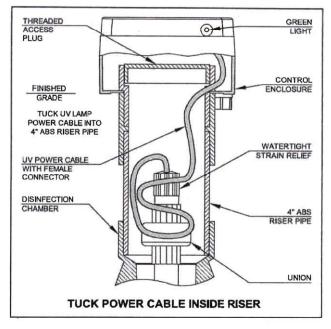
UV protective eyewear must be worn during service or any time the lamp may be illuminated. It is recommended that the subassembly be removed and serviced every six months to insure proper disinfection. To inspect and clean the Teflon coating:

- Turn off power to the UV system at the disconnect switch and/or main service panel. Confirm that the green light on the side of the enclosure is off.
- 2. Remove the control enclosure cover and access plug.
- Carefully remove the UV subassembly from the disinfection chamber
- 4. Inspect the quartz sleeve and Teflon coating for signs of damage or an accumulation of biological film. If the quartz sleeve has been damaged, the UV subassembly must be replaced. If biological film is present on the surface of the Teflon coating, the coating must be cleaned to insure proper disinfection.
- Use a soft damp cloth to carefully and thoroughly clean the Teflon coating.
- Use isopropyl alcohol on a soft cloth to carefully remove difficult stains like fingerprints or biological film.
- Remove all accumulated solids from the disinfection chamber using a vacuum or service pump.



It is recommended that the UV lamp be replaced every two years to insure proper disinfection of the treatment system effluent. The green light on the side of the control enclosure will no longer illuminate when the lamp needs replaced. To replace the lamp:

- 1. Repeat steps 1, 2 and 3 above.
- Disassemble the union on the subassembly handle and remove the UV lamp using the power cable.
- Disconnect the UV lamp from the UV power cord by rotating the twist lock collar ¼ turn.



- Connect new lamp and carefully lower into the UV subassembly. Make sure the lamp is fully seated in the quartz sleeve.
- Reassemble union and tighten strain relief.
- 6. Lower the subassembly into the disinfection chamber.
- Reinstall the threaded access plug into the riser.
- Reinstall the enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch.
 Tighten the four screws to insure a watertight seal.
- Turn on power at the disconnect switch or main service panel. Verify that the green light on the side of the control enclosure is illuminated.

NOTE: UV lamps contain mercury which is harmful to the environment. Recycle old UV lamps at an authorized center.

ALARM CIRCUIT

The Model AT 1500 system is equipped with a current sensing circuit to monitor the UV lamp performance. If the UV lamp output drops below an acceptable level for proper disinfection, the alarm circuit will turn off the green light on the enclosure. When connected to the Service Pro control center, the service provider can be immediately notified that maintenance to the UV system is required. For more information regarding connection of the Model AT 1500 UV disinfection system alarm to a Service Pro control center, please refer to the Service Pro Control Center with MCD Technology Installation and Operation Instructions.



Contract Number:	Kimbrell

SERVICE AND MAINTENANCE CONTRACT

١.	Parties. This contract ("Agreement" or "Contract") Andy & Neely Kimbrell	is bet	ween Meinco Septic Systems, Inc., ("Meinco") and , ("Client"), referred to individually as a "Party" and
	collectively as the "Parties."		, , , , , , , , , , , , , , , , , , , ,
2.	Service Location. This is a Contract for septic Meinco for Client located at Lot 4, Pinnacles Cove, Roll hereinafter referred to as the "Service Site."		
3.	Service Fees. Client agrees to pay Meinco One service and maintenance specifically work performance specifically below (hereinafter referred to a invoiced amount is good consideration for this Cobargained for terms of this agreement.	med is "Se	every Three Months (Quarterly) and described ervice Work"). Meinco and Client agree that the
۱.	Materials Charges. During regular maintenance Meinco will replace materials necessary to keep the septic system operating efficiently (chlorine tablets, UV light bulbs, floats, filters, etc.). Meinco and Client agree that Meinco shall submit to client the costs of maintenance parts and materials and Client will promptly pay the same.	9.	Modification to System. If the septic system is modified, abused, mis-used, or altered, then Meinco's responsibility to service or maintain the septic system is terminated. Meinco may remedy such conditions by replacing parts or correcting defects. If Meinco makes such changes to the septic system, then it may charge to client the control of consists modifications and send laborated to the septic system.
5.	Laboratory Fees. A) This paragraph is inapplicable. B) Client agrees that Meinco will use a third party laboratory, Environmental Services, Inc. , for any sampling that is required under this Contract. In such event, Meinco shall submit to Client a laboratory fee of \$150.00 and Client will promptly pay the same.	10.	costs of repairs, modifications, parts, and labor. Meinco may, at its discretion, seek payment in advance of making any repairs or modifications to the septic system. In such event, Meinco shall not be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system. Access to System. Client agrees to provide Meinco access to the septic system as well as its parts and components.
3 .	Services Provided. Meinco agrees to provide the following Service Work to the Client and the Service Site:	11.	Termination by Client. Client may terminate this contract by providing thirty (30) days written notice to Meinco.
	A) Maintenance requirements, including review of system components and their working condition, monitoring of solid levels to determine system efficiency, and periodic cleaning of system filters or media.	12.	Termination by Meinco. Notwithstanding, and in addition to, any other provision or term in this Contract, MEINCO MAY TERMINATE THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.
	B) I. This paragraph is inapplicable. II. Necessary sampling and submission of paperwork every month(s) or as required to comply with the Arkansas Department of Health Onsite Maintenance Program.	13.	Solid Removal. Solid removal is not a covered service and shall incur an additional fee. If Meinco removes solids from the septic system, then it may charge to client the costs of solid removal. In any event, Meinco shall not be responsible for any damage or adverse effects for any delay in removing solids.
	C) Necessary paperwork every <u>6</u> month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality.	14.	Indemnity. To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend Meinco and any agent or
	 II. This paragraph is inapplicable. II. Sampling of discharge every 6 month(s) in coordination with a 3rd party laboratory for required laboratory tests. 		employees of Meinco from and against all injuries, claims, damages, losses, and expenses, including, but not limited to, attorneys' fees, arising directly or indirectly out of the obligations herein undertaken or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly or indirectly employed by them or anyone for whose acts they may be
	Contract Duration. This contract shall be for a period of 24 month(s) from the date this Contract is executed by the parties on page 2		liable, regardless of whether or not such injury, claim damage, losses, or expenses is caused in part by a party indemnified. Such obligation shall not negate, abridge, or otherwise reduce the rights or obligations of indemnity which would otherwise exist to a party or
	Flow Requirements. This contract shall be null and void if septic system flow exceeds 450 gallons per day		person described in this paragraph.

_ gallons per day

- Assignment. Client agrees that even though this is a contract for services, Meinco may assign this Contract to any third party without written notice to Client.
- Bilateral Contract. Meinco and client specifically agree that Client is seeking Meinco's promise to perform and not its performance.
- 17. Claims Against Meinco. Client shall give Meinco written notice of all claims within five (5) days of Client's knowledge of facts giving rise to the event for which claim is made. Otherwise, such claims shall be deemed waived by Client. All unresolved claims, disputes, and other matters in question between Meinco and Client shall be resolved in the manner provided for in this Agreement.
- 18. Rights Upon Breach. If Client breaches this Agreement with Meinco. Meinco may stop all work, including all Service Work. Additionally, Client will be liable to Meinco for consequential, incidental, and reliance damages as well as attorneys' fees and court costs. Such liability upon Client shall extend to petitions for and orders of contempt as well as any attempts by Meinco to collect upon any debt or damages owed to it by Client, including those entered by court of law or other dispute resolution proceeding.
- Direct Discussion. If a dispute arises out of or relates to this Agreement, the Parties shall endeavor to settle the dispute through direct discussion before advancing to any dispute resolution proceeding.
- 20. Joint Drafting. The Parties expressly agree that this Agreement was jointly drafted and that this Agreement shall be construed neither against nor in favor of either Party. Instead, this Agreement shall be construed in a neutral manner.
- 21. Choice of Law. The Parties expressly agree that any dispute or claim filed or heard in any jurisdiction concerning or relating to this Agreement or worked performed as a result of this Agreement shall be governed by the laws of the State of Arkansas.
- 22. Forum Selection and Choice of Venue. The Parties expressly agree that any dispute or claim arising from, filed, or heard concerning or relating to this Agreement or work performed as a result of this Agreement shall be heard in Saline County, Arkansas, and no other forum. If this clause is penetrated and the hearing

- concerning the dispute removed to the United States federal court system, then the Parties expressly agree that the dispute shall be heard in the United States District Court for the Eastern District of Arkansas, Western Division, at the Richard Sheppard Arnold United States Courthouse in Little Rock, Arkansas.
- 23. Waiver of Agreement Terms. Meinco, at its sole discretion and leisure, may waive any term in this Agreement. Such waiver shall not, under any conditions or circumstances, constitute a modification of this Agreement. Additionally, such wavier shall not, under any conditions or circumstances, constitute a course of performance, course of dealings, or trade usage between Meinco and Client. Any waiver by Meinco shall be limited to a single incident or event. No waiver of any term of this Agreement is valid unless it is in writing, signed by Meinco, and attached to this Agreement as an addendum. It is the responsibility and duty of Client to draft any written waiver and to present it to Meinco for Meinco's approval and signature.
- 24. Force Majeure. Neither Party shall be in breach of its obligations under this Agreement (other than payment obligations) or incur any liability to the other Party for any losses or damages of any nature whatsoever incurred or suffered if and to the extent that the other party it is prevented from carrying out its obligations by, or such losses or damages are caused by, a force majeure event. For purposes of this paragraph, the failure of the state of Arkansas or the United States of America to act according to current practices, procedure, or law at the time of the making of this Contract shall be considered a force majeure event. Such event by the government shall be in addition to any current or commonly accepted definition of force majeure event.
- 25. Merger and Integration. Meinco and Client agree that this Agreement represents a full, final, and complete memorial of their Agreement for the Service Work and that this Agreement does not rely upon any term or promise not otherwise specified within the four corners of this Agreement.
- 26. No Oral Modification. Meinco and Client agree that this Agreement shall not be subject to oral modification. The Parties agree that any modification made or agreed to by the Parties shall be in writing, signed by both Parties, and attached to this Agreement as an Addendum.

By signing this Agreement below, I indicate that I have read this Agreement and its terms, consisting of two (2) pages, excluding any Addendum or Addenda, and that these express terms are both acceptable and agreeable to me. I further declare that these terms do not represent an undue hardship, are not illusory, and are not unconscionable as I have expressly bargained for these terms in consideration of entering into this Contract for the value specified in paragraph three (3).

Deart &	02/17/2022
Meinco Septic Systems, Inc.	Date
New Kimbren Client	3/6/22 Date



Arkansas Department of Health

4815 West Markham, Slot 46 Little Rock. Arkansas 72205-3867

MEMORANDUM OF AGREEMENT

SUBJECT: ONSITE WASTEWATER SYSTEM APPLICATION

This is an agreement that the onsite wastewater system installed on this property has been permitted under authority of Act 402 of 1977 and by the Arkansas Department of Health with the understanding that the following provisions are met:

- Onsite Wastewater Systems requiring a Monitoring Contract with a Certified Monitoring Personnel are Holding Tanks, Experimental Systems (i.e. Reduced Absorption Areas, *ABGs), and Drip Dispersal Systems. *Aerobic Biological Generators – Commercial applications only, residential applications must follow manufacturers' service contract requirements.
- 2. The property owner assumes all responsibility for the proper operation of the onsite wastewater system.
- The property owner must maintain a monitoring contract with a licensed Certified Monitoring Personnel for the life of the system and retain Onsite Wastewater System Assessments (EHP-71), on file, for at least five (5) years.
- The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.
- That the Arkansas Department of Health may monitor the system as to its operation capabilities.
- That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.
- Subsurface systems with flows ≥3000 gpd and all surface discharging systems require the owner to file an additional permit application with the Arkansas Department of Environmental Quality (ADEQ).
- 8. That, on the sale of the property, the owner of the property must disclose to the perspective buyer notice of this agreement and any permit requirements. The buyer is to sign memoranda, contracts or permit name change forms and submit these documents to the appropriate regulatory agency.

SIGNED:	nely kimbrell	SIGNED:	
	(Property Owner)		(Health Department)
DATE:	3/8/22	DATE:	

EHP-35 (R 1/13)







System Head Curve and Pump Selection Tool

Static Head Information			L					
Static Head - elevation difference	14.0 feet				Summer Dump	of the case of the		
from low water to outfall System high point above outfall?	No				System / Fump	System / Fump interaction curves	S a	
	-			25 7				_
Friction Head Information								
How many different pipes in the	-						\	-System Curve -Static & Friction
Pipe 1 Length	150 feet			20			\	Design Point
Pipe 1 Size Pipe 1 Class	2 inches SCH 40					1	\	Clarus Pump 1
					/	\		Clarus Pump 2
The state of the s			(tə	15				
Pressurized Laterals?	No.		eat) beaH	0,				
				2			/	
Fittings & Discharge Assemblies Type	Size	Quantity					/	
Discharge Assembly	2 inches						/	
				5				
Special Friction Considerations								
Weep Hole Add-In Friction	Yes 15 % of Pipe Loss	1/8 "						
Automatic Multizone Valve? Pressure Filter?	No			+ 0	5 10 15 20	25 30	35 40	45
Operating Head Information		Specify Flow			E	Flow (GPM)		
System Type	Non-Pressunzed	Yes	Flow Requirement	11	10. GPM NOTE. THE DISPLAYED PUMP CURVES HAVE BEEN ADJUSTED TO ACCOUNT FOR THE EFFECT OF THE WEEP HOLE	ES HAVE BEEN ADJUSTED TO	ACCOUNT FOR THE EFFECT OF	THE WEEP HOLE
by profess				Pump	Pump Selection 60 Hz Frequency Operation Points	Design Point	Curve Zoom Range	g 40 GPM
Control of the Contro				Clarus	And the second second			
Service Company				Clarus	Clarus Pump 2	Project Data Project Name:	Andy & Neely Kimbrell	Notes: 2" Discharge Assembly
Factors and Coefficients Hazen-Williams C Factor	130			Zoeller Pump	Zoelter Pump Company Pumps Zoelter Pump 1 53456157169 0.3 hp. 60Hz 16.3 GPM 39.15.5*	Project Address	Lot 4, Plinnacles Cove Roland, AR 72135	2" Transport Une
Discharge Coefficient (Cd) Lateral Design Mode	Off			Zoellor	2	Contact Info:	Meinco, Inc. 501-821-3837	

Your Peace of Mind Is Our Top Priority®

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



PUMP COMPANY

Zoeller Family of Water Solutions

SECTION: 2.15.020 FM2778 0515 Supersedes 0315

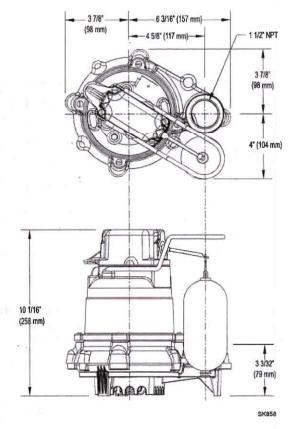
TECHNICAL DATA SHEET

MIGHTY-MATE SERIES

Cast Iron Models 53, 57 and Bronze Models 55, 59 Submersible Effluent / Dewatering Pumps

PRODUCT SPECIFICATIONS

MOTOR	Horse Power	3/10				
	Voltage	115 or 230				
	Phase	1 Ph				
	Hertz	60 Hz				
	RPM	1550				
	Туре	Shaded pole				
	Insulation	Class B				
	Amps	4.8 - 9.7				
No. of the last	Operation	Automatic or nonautomatic				
	Auto On/Off Points	7-1/4" (18.4 cm) / 3" (7.6 cm)				
	Discharge Size	1-1/2" NPT				
	Solids Handling	1/2" (12 mm) spherical solids				
4	Cord Length	9' (3 m) automatic, 15' (5 m) nonautomatic				
PUMP	CordType	UL listed, 3-wire, grounded plug				
	Max. Head	19.25' (5.9 m)				
	Max. Flow Rate	43 GPM (163 LPM)				
	Max. Operating Temp.	130° F (54° C)				
	Cooling	Oil filled				
	Motor Protection	Auto reset thermal overload				
*	Сар	Cast iron or bronze				
	Motor Housing	Cast iron or bronze				
	Pump Housing	Cast iron or bronze				
S	Base	Cast iron, bronze or engineered thermoplasti				
7	Upper Bearing	Sleeve bearing				
MATERIALS	Lower Bearing	Sleeve bearing				
	Mechanical Seals	Carbon and ceramic				
	ImpellerType	Non-clogging vortex				
	Impeller	Plastic, cast iron or bronze				
	Hardware	Stainless steel				
	Motor Shaft	AISI 1215 cold rolled steel				
	Gasket	Neoprene				



NOTE: See model comparison chart for specific details.



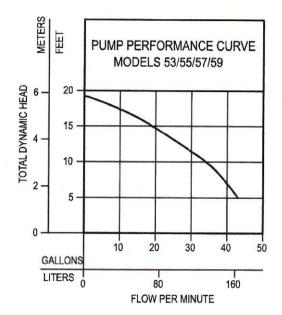






TOTAL DYNAMIC HEAD FLOW PER MINUTE

MC	DEL	53/55/57/59		
Feet	Meters	Gal.	Liters	
5	1.5	43	163	
10	3.0	34	129	
15	4.6	19	72	
Shut-off	Head:	19.25 ft.(5.9m)		



009897

Model					MODE	L COMPAR	RISON			Table Sales and S	MAA
Wiodei	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex
M53/M55	Single	Auto	115	. 1	9.7	3/10	60	23	10	1	
N53/N55	Single	Non	115	1	9.7	3/10	60	23	10	2	3 & 4
* BN53	Single	Auto	115	1	9.7	3/10	60	25	11	*	
* BE53/BE57	Single	Auto	230	1	4.8	3/10	60	24/30	11 / 13	*	
D53	Single	Auto	230	1	4.8	3/10	60	23	10	1	
E53/E55	Single	Non	230	1	4.8	3/10	60	22	10	2	3 & 4
M57/M59	Single	Auto	115	1	9.7	3/10	60	29 / 33	13 / 15	1	
N57/N59	Single	Non	115	1	9.7	3/10	60	28 / 29	12/13	2	3 & 4
* BN57	Single	Auto	115	1	9.7	3/10	60.	30	13	*	
D57/D59	Single	Auto	230	1	4.8	3/10	60	30 / 33	13 / 15	1	
E57/E59	Single	Non	230	1	4.8	3/10	60	28 / 29	12 / 13	2	3 & 4
E59	Single	Non	230	1	4.8	3/10	60	29	13	2	3 & 4

^{*} Single piggyback switch included.

SPECIAL MODEL FEATURES

Additional cord lengths are available in 15' (5 m), 25' (8 m) and 35' (11 m). 50' (15 m) cord lengths available for 230 V units only.

BE and BN models include a piggyback variable level pump switch.

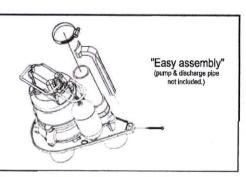
Model 53: cast iron switch case, motor and pump housing, a plastic impeller and base. Model 57: all cast iron construction with a cast iron impeller. Model 55: bronze switch case, motor and pump housing, a plastic impeller and base. Model 59: bronze construction with a bronze impeller. Optional pump stand (P/N 10-2421).

SELECTION GUIDE

- 1. Integral float-operated mechanical switch, no external control required.
- Single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- See FM0712 for correct model of Electrical Alternator.
- 4. Variable level control switch 10-0743 used as a control activator with electrical alternator (3) or (4) float system.

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" (5 cm) off bottom of basin
- Provides the ability to raise intake by adding sections of 1½" or 2" (DN40 or DN50) PVC piping
- Attaches securely to pump
- Accommodates sump, dewatering and effluent applications NOTE: Make sure float is free from obstruction.



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

bing maps

North Little Rock Health Department, 2800 Willow St, North Little Rock, AR 72114

29 min , 19.7 miles Light traffic (Leave at 10:16 AM) Via I-40 W, AR-10

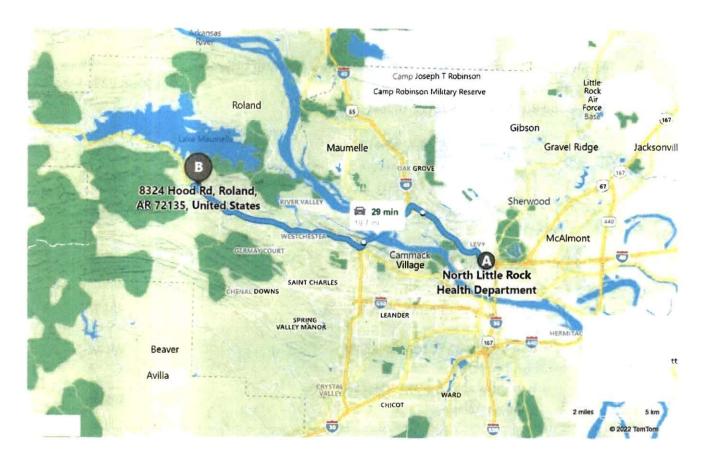
B 8324 Hood Rd, Roland, AR 72135, United States

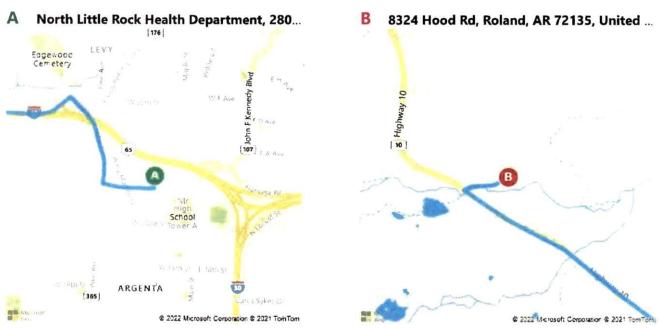
GATE CODE: 0200 OPEN Lot 4, Pinnacles Cove Roland, AR 72135

A North Little Rock Health Department

↑	1.	Depart and head south on Willow St	453 ft
L >	2.	Turn right onto W Pershing Blvd	0.4 mi
Þ	3.	Turn right onto AR-365 / Macarthur Dr Shell on the corner	0.6 mi
40	4.	Take the ramp on the left for I-40 West and head toward Fort Smith	3.8 mi
430	5.	At Exit 147, head right on the ramp for I-430 South toward Texarkana	4.1 mi
10	6.	At Exit 9 , head on the ramp right and follow signs for AR-10 Pass Pizza Hut on the right in 3.1 mi Minor Congestion	10.4 mi, 15 min
г >	7.	Turn right onto Hood Rd	0.3 mi
	8.	Arrive at Hood Rd The last intersection before your destination is AR-10 / Highway 10 If you reach Twin Mountain Ln, you've gone too far	

B 8324 Hood Rd, Roland, AR 72135, United States





These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2022 TomTom.

