ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INTENT

INDIVII	DUAL TRE	ATMENT	FACILITIES
NPDES	GENERAL	PERMIT	ARG550000

Application Type: New \boxtimes	Renewal	☐ (Permit # AR	.G55)
I. PERMITTEE/OPERATOR INFORMATION				
Permittee (Legal Name): Amanda Carpenter			Operator Ty	pe:
Permittee Mailing Address: <u>18418 Maple Ave</u>			e	☐ Partnership
Permittee City: Roland		☐ Fed	eral	Corporation*
Permittee State: Arkansas Zi	ip : <u>72135</u>	Sole Sol	e Proprietorship/P	rivate
Permittee Telephone Number: 615-714-3874		*State	of Incorporation:	
Permittee Fax Number: NA		The leg	gal name of the P	ermittee must be
Permittee E-mail Address: amajadc05@gmail.com			al to the name as Secretary of St	
		71114113	as secretary or se	
II. INVOICE MAILING INFORMATION (Home ow	ners are ex	kempt.)		
Invoice Contact Person: N/A		City		
Invoice Mailing Company:		State	:	Zip :
Invoice Mailing Address:				
III. FACILITY INFORMATION				
Facility Name: Carpenter Residence	Facility	Contact Person:	Amanda Carpent	er
Facility Address: 18418 Maple Ave	Tele	phone Number:	615-714-3874	http://dath.compr.jon.com/compressionaleaniania
Facility County: Pulaski	Facility C	ity, State & Zip:	Roland, Arkansa	s 72135
Facility Latitude: 34 Deg 51 Min 34.9 Sec	Facility Lo	ongitude:	92 Deg 28 Min	17.24 Sec
Accuracy: Method:		Scale :	Description	n:
IV. DISCHARGE INFORMATION				
		771	450	D
Outfall Number: 001 Stream Segment: 3C	Hydrologic	Flow: Basin Code: 11	450_ gpd (Gallon	ns per Day)
		ngitude: 92 Deg	the second section is a second section of the second section of the second section section is a second section of the second section s	ec
Accuracy: Method:		Scale :	Descriptio	
Type of Treatment: Bio Microbics Microfast 0.5 with U	V and Post	Aeration		
Receiving Stream: Arkansas River				
V. FACILITY PERMIT INFORMATION				
NPDES Individual Permit Number	(If Applica	able): AR00		
NPDES General Permit Number				
State Construction	Permit Nur	nber:		

WATER DIVISION

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

	OTHER WEST TOWN						
VI.	OTHER INFORMATION						
	Operator Name:			ts		License	Class III
	Operator License Number:	0090:	55			License	Class: III
	Consultant Contact Name: Consultant Email Address: Consultant Address:		@mei	ts ncowastewater.com City: Bryan	st St	tate: A	AR Zip: <u>72089</u>
	Consultant Phone Number:						501-821-4048
Has tl	nis treatment system been app	oroved	by AI	ID? Yes ⊠ No □]		
Disclo	osure Statements:						
certific statem compl	cation or operational authority nent with their applications.	issued The fil bmit a	by the ing of new d	Arkansas Departm a disclosure staten isclosure statement	ent of Environent is mand even if you h	onmenta atory.] nave one	or transfer of any permit, license, I Quality (ADEQ) file a disclosure No application can be considered to on file with the Department. The pdf.
_ACA	representative under understand that the D (Initial) "I certify under understand that the D (Initial) "I certify under persupervision in according to the information of the information of the information of the including the possibil Responsible Official Printed	the pro- epartm nalty of dance tion su- nation, ete. I ity of f	ant officerision of law to with a librarite the in am ar	cial designated in t as of 40 CFR 122.2 Il accept reports sign that this document a system designed d. Based on my in aformation submitted ware that there are	his Application 22(b). If no need only by the need only by the need all attaches to assure that against of the significant p	on is que cognizate Appli ments wet qualifications of the control	ere prepared under my direction or led personnel properly gather and or persons directly responsible for my knowledge and belief, true, for submitting false information,
	Name:				: Date	Owner	
	Responsible Official Signature:	Am	anda C	arpenter	:	10-	12-2022
	Responsible Official Email:		amajac	lc05@gmail.com			
Co	gnizant Official Printed Name:	Dav	id Mei	nts		Title:	Class III Operator
	Cognizant Official Signature:	D	e	a. Mb	Tele	phone:	501-804-0837
	Cognizant Official Email:	davi	d@mei	ncowastewater.com			
	PERMIT REQUIREMENT Velease check the following to ve			on of permit require		e questio	ns, then a permit can not be issued!
	mittal of Complete NOI? mittal of Required Permit	\boxtimes					
Fee?			\boxtimes	Check Number:			

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	Mein	its				
	Operator License Number:					License Class: III		
	Consultant Contact Name:	David	Main	, to				
	Consultant Email Address:			ncowastewater.com				
	Consultant Address:	PO Box		City: Bryant		State: AR	Zip:	72089
	Consultant Phone Number:	501-80				Fax Number: 501-82		1200)
Has t	his treatment system been app	roved b	у АН	D? Yes ⊠ No □]			
Disclo	osure Statements:							
certifi statem withou	nsas Code Annotated Section 8- ication or operational authority in ment with their applications. The ut one. You must submit a new tained from ADEQ web site at: h	ssued by filing of disclosi	y the a fadiso ure sta	Arkansas Departmer closure statement is ratement even if you	nt of E mandat have o	nvironmental Quality (a tory. No application can one on file with the Dep	ADEQ) file a be considered	a disclosure ed complete
OC.	understand that the De (Initial) "I certify under penalty supervision in accord evaluate the informati gathering the informat and complete. I am a possibility of fine and sponsible Official Printed Name: Responsible Official Signature:	nizant on the provide partment of law ance with on submitted in the ware that imprison the control of the contr	official isions at will with a sinitted informat their namen	I designated in this s of 40 CFR 122.22 accept reports signed this document and system designed to. Based on my inquation submitted is, re are significant per t for knowing violation of the control of	Applia (2(b). I ded only all atta assure uiry of to the nalties ions."	cation is qualified to a lift no cognizant official by the Applicant." achments were prepared that qualified persons the person or persons best of my knowledge a for submitting false in lift. Citle: Owner Date: 5/12/23	has been do d under my nel properly directly resp nd belief, tru	authorized esignated, I direction of gather and consible for ie, accurate
	Responsible Official Email:	an	1aj	adc 250	9mo	41.com		
C	Cognizant Official Printed Name:		_	,		Title: Class III	Operator	
	Cognizant Official Signature:	D	e	a. M. &	-	Telephone: 501-804	-0837	
	Cognizant Official Email:	david	@mei	ncowastewater.com				
X. I	PERMIT REQUIREMENT VE	RIFIC	ATIC)N				
	Please check the following to ver			n of permit requirem		y of the questions, then a	permit can not	t be issued!
Sul	bmittal of Complete NOI?	\boxtimes						
Sul	bmittal of Required Permit Fee?		\boxtimes	Check Number:				
	bmittal of AHD Form EHP-19?	\boxtimes						
Sut	bmittal of Site Map?	\boxtimes						

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

Thanh Vu (adpce.ad) From: Terri Blevins <terri@meincowastewater.com> Sent: Wednesday, April 19, 2023 1:33 PM To: Thanh Vu (adpce.ad) **Subject:** Re: ARG550735 & ARG550736 & ARG550738. Plus: ARG550733 **Attachments:** Paixao.pdf; Tait.pdf Yes, those are the real outfalls. And you are correct on the design flow. It is 450 GPD. Still working on the others On Fri, Mar 3, 2023 at 9:45 AM Thanh Vu (adpce.ad) < Thanh. Vu@adeq.state.ar.us > wrote: Ms. Blevins, Also there is one more household that I forgot to attached yesterday. In this application, the only thing wrong is with the owner's initials. Thanks. Thanh From: Thanh Vu (adpce.ad) Sent: Thursday, March 2, 2023 10:53 AM **To:** 'terri@meincowastewater.com' Subject: FW: ARG550735 & ARG550736 & ARG550738 Ms. Terri Blevins,

My name is Thanh. I'm the engineer at ADEQ handling these submissions (numbers in the subject) from Meinco.

I attached the files of submission here (I tried the email david@meincowastewater.com but it did not work). So I hope that you would forward this email to the right staff.

Basically, we need the house owners to sign and initial (not typing their initials and names).

Also, for ARG550735 & ARG550736, the outfalls are far from the houses. Are you sure they are the real outfalls?

For ARG550738, the design flow on NOI is 300 GPD, which is different from that on health dept. form (450 GPD). Please confirm which is correct.

Thanks,

Thanh Vu, PhD | Permit Engineer

Division of Environmental Quality | Office of Water Quality Permits Branch

5301 Northshore Drive | North Little Rock, AR 72118

t: 501.682.0973 | e: Thanh.Vu@adeq.state.ar.us



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Terri Blevins Meinco, Inc 501-821-3837 Ext 102

Submittal	of	AHD	Form		
EHP-19?				\boxtimes	
Submittal o	100			\boxtimes	
Submittal Statement?	of	Dis	sclosure		\boxtimes



Terri Blevins <terri@meincowastewater.com>

Re: Wastewater Permit

1 message

Thomas Eason <thomas@meincowastewater.com>

To: Terri Blevins <terri@meincowastewater.com>, Laura Miller <laura@meincowastewater.com>

Tue, Oct 18, 2022 at 5:43 AM

On Wed, Oct 12, 2022, 3:45 PM Amanda Carpenter <amajadc05@gmail.com> wrote:

Signed document attached

On Fri, Oct 7, 2022 at 8:43 AM Thomas Eason <thomas@meincowastewater.com> wrote:

My name is Thomas and I represent Meinco Wastewater. I have prepared all the necessary documents for your wastewater permit. Please review, sign the highlighted portions, and return as soon as possible so that we may move forward with this process. We thank you for allowing us to provide these services and look forward to working

If you have any questions or concerns please don't hesitate to contact us.

Thank you,

Thomas Eason



Arkansas Department of Health Environmental Health Protection

Receipt Number				
7500	2	1	7	7
4000		\cup	0	. (

Individual Onsite W	lastewater	System Pe	rmit Applica	tion			Fee Schedule for S	Structures	3	1	
Permit Type		New Install	ation				ft or less			30.00	
	TW/			1			nan 1500 sq ft and up			45.00	
		Alteration	/ Repair				nan 2000 sq ft and up			90.00	
DR Environmental ID #	ŧ			- 1			nan 3000 sq ft and up	to 4000 s		3120.00 3150.00	
7 6 0 2	2 1 3	2 0	9 0				nan 4000 sq ft			\$ 30.00 7	-
				Alte	eration a	na Re	pair			7 00.00	
Part 1 Application			(check one)				Disposal Method			Distribution	
STD = Standard Septic ISF = Intermittent Sand PMF = Proprietary Med	d Filter dia Filter	RSF = Re-circ	Treatment Plant ulating Sand Filte ulating Gravel File Tank	r SUR	Surface Cappin	e Disch	narge	HLD = H SRL = 8	ow Pressure I Holding Tank Berial Distributi Drip Irrigation		
1. Owner's/Applicant's		1	, , , , , , , , , , , , , , , , , , , ,		011101	\top	2. Phone Number	-04			
3. Mailing Address	Carpen	ter	****				615-714-	387	1		
10110	bole A	rence R	aland A	0 72135			4. County	aski			
5. Address of Propose	ed System (I	fa 911 addres				ection	s or map)				
6. Subdivision Name	uple Avi	enve R		te Mais		Dat	te Recorded		9. Lot Numbe	ar	
Vatura	2 Step	·<	10.1	roval Date	1	s. Dai	~IA		#1	, the	
10. Lot Dimensions	^	0		tal Area (Acres	3)	12. #	Bedrooms # People	le	13. Daily Flor		
See eg	al			71			4.		450		
14. Brief Legal Descrip	otion of Prop	erty (Attach a	separate shee	t of paper, if ne	cessar	у)					
15. Water Supply (Sp	ecify supplie	r, if Public Wa	ater)	16. GPS	S Coore	dinate	9				\neg
Mark	nelle					34.	8600649	. 92	471367		
17. Loading Rates	(gpd/ft²)	18. System	Specifications								
Primary Area	Mone	a. Size of S		Treatment	gal	f.	Trench Depth	/		inches	
Secondary Area	none	b. Size of D		Hant	gal		Trench Spacing	\		feet	
Percolation Test	(min/in)	c. Absorptio	n Area	None	ft ²	h.	Trench Media (List	Below)		i.Trench V	Vidth
Primary Area Avg	N/A	d. Number	of Field Lines	\			MTP				in
Secondary Area	N/A	e. Length of	f Field Lines	\	ft						in
utilize the design	changed after op and installed are except zed agent meation not item 12, the dindividual	ter approval eration does ed according ions or deviate ust revalidate he number of I onsite waste	of this permit, not constitute to the Arkansations noted in t a permit more bedrooms (nur water system in	or if the informal guarantee the subspace of personal this permit as this permit as this permit as this permit as	rmation nat the of Hea A Per ear old s for co	within system of the system of	n this permit is in m will function pro- ules and Regulation r Construction is ver-	perly. ons Pert alid for constructi otage of viewed t	e or has be The approva aining to On one (1) year ion. I the structure the permit ap	een found to all states that a site Wastev from the date that will	to be at the water ate of
Owner/Applicant Sign		- (m	anda	Carp	en	1	Date	X	3/16	122	
20. I certify that I ha Arkansas Depart	tment of Hea	d the above to lith Rules and	ests and that the Regulations P	e above listed ertaining to On	informa site Wa	ation is istews	ater Systems.				No
Design	aled Represe	htative Signatur	eu)		-		D.R. Title	Soi	I Certified	⊠ Yes □	NO
	1	CASTLEBERR					3/24/22		970.60	92-5742	
04 A	V P	rint Name	**				Date			Number	
21. Approval of Heal The information a Health Rules and	and specifica	tions in the ap	optication has b Onsite Waste	een reviewed water Systems	and fou S. A PE	nd to	meet the requirement FOR CONSTRUC	ents of the	he Arkansas hereby issue	Department ed.	t of
Eng	Aronmental &	pedalist Signatu	re	>_		8(S Number		/ - / 9 - Date	22	
	7			Market of the State of the Stat		CL	O NUMBER		Date		

Individual Onsite Wastewater System Permit Application

Receipt Number	

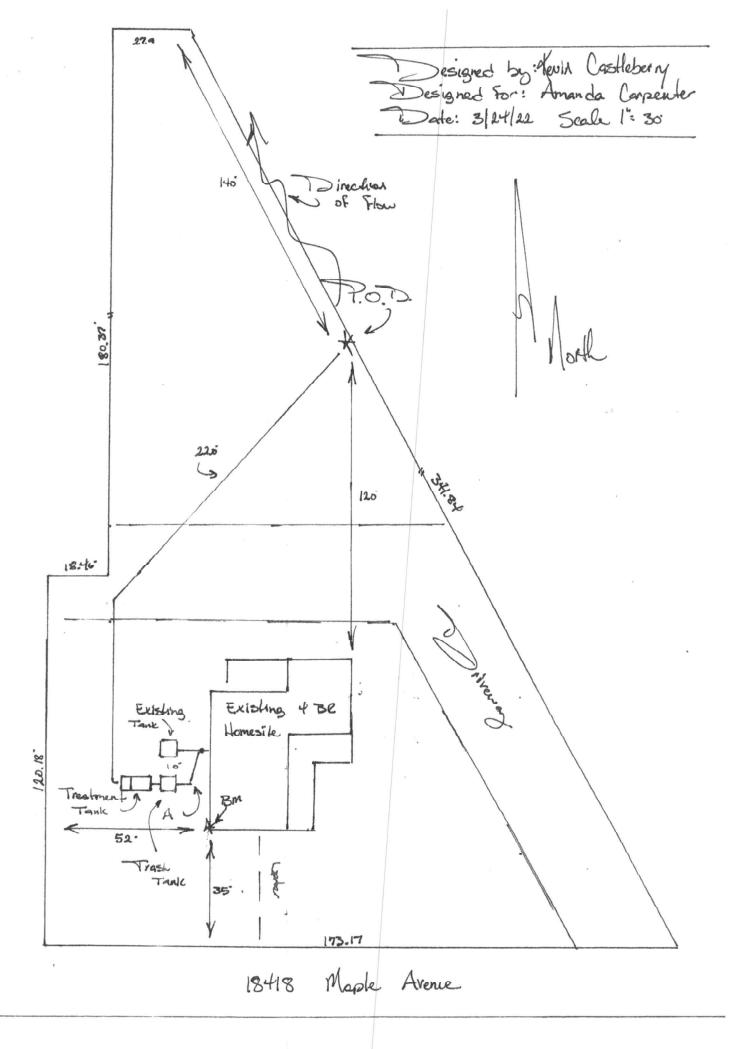
Continue Part					1174		
	eria (Primary A	rea)	Indicate the de	pth to items a	-f, if observed in the so	oil (designate in inche	20)
a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MS	WT f. Adj. LSWT	g. H.C./Depth	
23 Soil Crito	O"	0"	12"	1	1		h. Loading Rate (gpd/ft
a. Bedrock	eria (Secondar		Indicate the de	epth to items a	-f, if observed in the so	oil (designate inches)	Alca
a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MS	WT f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (gpd/ft
,	1 Mateu Talal	1011177				3	The Loading Rate (gpd/ft
	ry Area	(SWT) Classes					
Brief		25 45 50	Lis	t Redoximorp	nic Features and/or CI	ay Content Restrictio	ns
	> "	2.5 YR 5/8			34		
Moderate C		10 YR 6/2					
Seconda	2 in	> 50%		2			
Brief			V List	Redoximorph	ic Features and/or Cla	y Content Restriction	18
Moderate	in	2.5 YR 5/8					
	in	10 YR 6/2					
Long	in						
Comments				-			
					~		
Part 2 Insta Septic tank ma	allation Insp	ection					
					Pump information		
Septic tank ma	terial				Trench media and wid	dth	
Dose tank man	ufacturer			-	Depth of interceptor d	rain	
Dose tank mate	erial					Tall	,
Name of Installe	er .				Depth of settled fill		
The strategic						Lic	ense Number
nstallation Inspe	noted h						
check one or insta	ected by aller signs Syste	m Installation Verif	ital Health Specia	alist 🗆 [Designated Represent	ative	
			,				
	Sign	ature			FILE		
ystem Installati	ion Verification				EHS / Licens	se Number	Date
navo mataneu t	ms system as	designed and in	compliance with	all Rules and	Regulations Pertaining	g to Onsite Wastewat	er Systems.
	Installer	Signature			License Num	ber	Data
art 3 Permi	t for Operat	ion					Date
ne information of	contained in Pa	art 1 and 2 of this	s form has been r	eviewed and f	ound to meet the requ	irements of the Arka	naga Danada i i
dailli. INE PER	KIVIII FOR OP	ERATION of this	s system is hereb	y issued.		mornonts of the Arka	nsas Department of
nvironmental He	auth Cassielle						
	diti Specialis		Signature		EHS Number		
mments				entrop sandan or gare during the	E110 Mulliber		Date
te Revalidation (conducted by	D E	nvironmental Hea	alth Specialist	o De	esignated Represent	ative
		×					7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
	Sign	ature			F110		
	0.91				EHS / License N	umber	Date

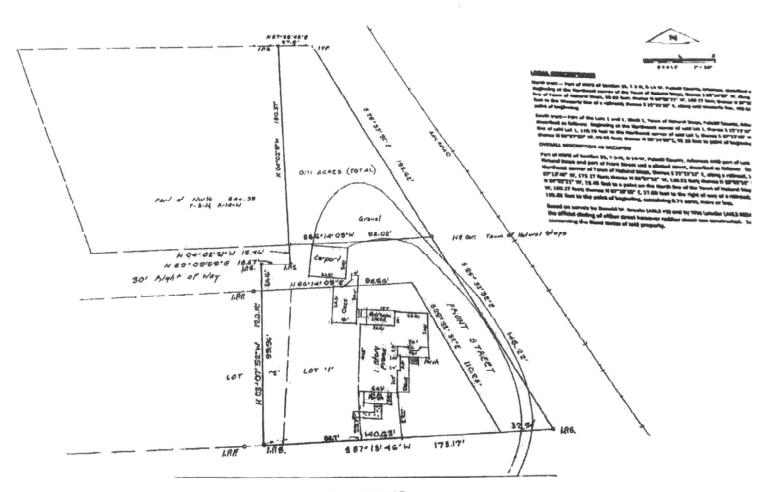
ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INTENT

INDIVIDUAL TREATMENT FACILITIES NPDES GENERAL PERMIT ARG550000

Permittee (Legal Name): Amanda Carpenter	Application Type	e: New 🖂	Renewal [(Po	ermit # ARC	G55	_)
Permittee Mailing Address: 18418 Maple Ave	I. PERMITTEE/OPERATO	R INFORMATION				
Permittee City: Roland	Permittee (Legal Name):	Amanda Carpenter		_	Operator	Type:
Permittee State: Arkansas Zip: 72135 Sole Proprietorship/Private Permittee Telephone Number: 615-714-3874 **State of Incorporation: The legal name of the Permittee must identical to the name listed with Arkansas Secretary of State. II. INVOICE MAILING INFORMATION (Home owners are exempt.) Invoice Contact Person: N/A City: Invoice Mailing Company: State: Zip: Telephone: III. FACILITY INFORMATION Facility Name: Carpenter Residence Facility Contact Person: Amanda Carpenter Facility Address: 18418 Maple Ave Telephone Number: 615-714-3874 Facility County: Pulaski Facility City, State & Zip: Roland, Arkansas 72135 Facility Latitude: 34 Deg 51 Min 34.9 Sec Facility Longitude: 92 Deg 28 Min 17.24 Sec Datum Accuracy: Method: Scale: Description: IV. DISCHARGE INFORMATION Outfall Number: 001 Flow: 450 gpd (Gallons per Day) Stream Segment: 3C Hydrologic Basin Code: 111 102 07 Outfall Latitude: 34 Deg 51 Min 37.11 Sec Outfall Longitude: 92 Deg 28 Min 16.56 Sec Datum Accuracy: Method: Scale: Description: Description: Scale: Description: Description: Description: Scale: Description: Description: Description: Scale: Description: Description: Description: Scale: Description: Description: Description: Arkansas River	Permittee Mailing Address:	18418 Maple Ave		Stat	te	Partnership
Permittee Telephone Number: Permittee Fax Number: Permittee E-mail Address: NA	Permittee City:	Roland		☐ Fed	eral	Comparation*
Permittee Fax Number: NA amajadc05@gmail.com INVOICE MAILING INFORMATION (Home owners are exempt.) Invoice Contact Person: N/A City:	Permittee State:	Arkansas	Zip: _72135	⊠ Sol	e Proprietorship	o/Private
Permittee Fax Number: NA amajadc05@gmail.com INVOICE MAILING INFORMATION (Home owners are exempt.) Invoice Contact Person: N/A City:	Permittee Telephone Number:	615-714-3874		*State	of Incorporation	n:
Permittee E-mail Address: _amajadc05@gmail.com				The leg		
Invoice Contact Person: N/A City: Invoice Mailing Company: State: Zip: Invoice Mailing Address: Telephone: III. FACILITY INFORMATION Facility Name: Carpenter Residence Facility Contact Person: Amanda Carpenter Facility Address: 18418 Maple Ave Telephone Number: 615-714-3874 Facility County: Pulaski Facility City, State & Zip: Roland, Arkansas 72135 Facility Latitude: 34 Deg 51 Min 34.9 Sec Facility Longitude: 92 Deg 28 Min 17.24 Sec Datum Accuracy: Method: Scale: Description: IV. DISCHARGE INFORMATION Outfall Number: 001 Flow: 450 gpd (Gallons per Day) Stream Segment: 3C Hydrologic Basin Code: 111 102 07 Outfall Latitude: 34 Deg 51 Min 37.11 Sec Outfall Longitude: 92 Deg 28 Min 16.56 Sec Datum Accuracy: Method: Scale: Description: Description: Scale: Description: Description: Scale: Description: Arkansas River	Permittee E-mail Address:			identic		
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V. FACILITY PERMIT INFORMATION	Outfall Number: 001 Stream Segment: 3C Outfall Latitude: 34 Deg 5 Accuracy: M Type of Treatment: Bio Micr Receiving Stream: Arkansas	1 Min 37.11 Sec Dethod: obics Microfasst 0.5 wir	Outfall Longitud	n Code: 1 le: 92 Deg	11 102 07 28 Min 16.56	Sec
NPDES Individual Permit Number (If Applicable): AR00			ımber (If Applicable): AR00		
NPDES General Permit Number (If Applicable): ARG		DES General Permit Nu	ımber (If Applicable): ARG		
State Construction Permit Number: NPDES General Construction Stormwater Permit Number (If Applicable): ARR15	NINDER Committee of					

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





MAPLE AVENUE

* on cornect 11, 7017 and is any aphilips of me to the standards set back for the Scale the makes as statement community Book the assessy and the backing of this survey dimention. Libra & Branding congless Long, Profe

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Elevations

B.m. 4.11"

Stub Out: 5:1" 6:1"

Clear Out: 5:1" 6:1"

Track Tank:

In: 5:4" 6:5"

Out: 5:4" 6:8"

Troatment Tank:

In: 5:4" 6:9"

Outlet: 5:4" 7:0"

P.O.D. 5:11"

Notes:

- · Fomos out, fill in the Existing tank.
- · Connect all plumbling to the New Septic System.
- · Install Biordierobics O.5 FAST Unit
 - · 500 gallon Trash Tank
 - · 1000/250 gallon Treatment tank, W/ DOSC
- · Install Salcor U.V. disinfection unt model 3 G.
- Outdoor highwater alorm.
- · Pump Treated Effluent to Should P.O.T.



ENVIRONMENTAL

reller Family of Water Solutions

Zoeller Company



Zoeller Family of Water Solutions

System Head Curve and Pump Selection Tool

System Head			na n
er Sonutions		5.0 feet	No
coeller ramity of Water Solution	Static Head Information	Static Head - elevation difference from low water to outfall	System high point above outfall?

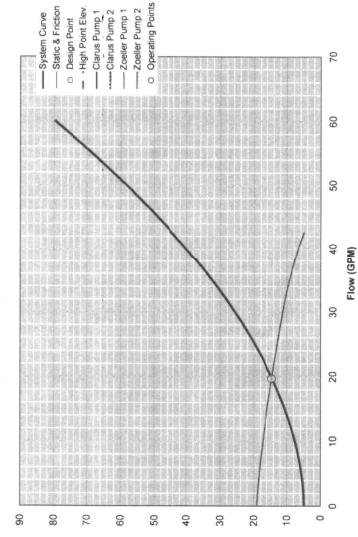
Libe		_	
How many different pipes in the system (not counting laterals)?	-		
-	230	_	
Pipe 1 Size	1 1/2 inches SCH 40	_	
the 2 Length			
The 2 Size			
4			1
the a condition			
Pipe 3 Class			
Pressurized Laterals?	No		
sow many are dosed at once?	The second secon	_	
ength of and lateral	200		
Size of interal		_	
lass of lateral		_	
Fittings & Discharge Assemblies			
Туре	Size	Quantity	Flow
90 Elbow	1 1/2 inches	2	100 %
Check Valve	1 1/2 inches	1	100 %
Gate Valve (full open)	1 1/2 inches	1	100 %
Special Friction Considerations			
Neep Hole	Yes	1/	1/8
Add-In Friction	15 % of Pipe Loss		
Automatic Multizone Valve?	No		

Head (feet)

Operating Head Information		Specify Flow
System Type	Non-Pressurized	Requirement?
Required Pressure		No
Number of Orfices Size of Orfices		
Spider Valve Orisce Sizes		
(Date originales from Spider Velve		
Sizing Tab)		

The state of the s				30	0.61	Off
- Contraction of the last of t			ents			
	Sizing Tab)	The second secon	Factors and Coefficients	Hazen-Williams C Factor	Discharge Coefficient (Cd)	Lateral Design Mode

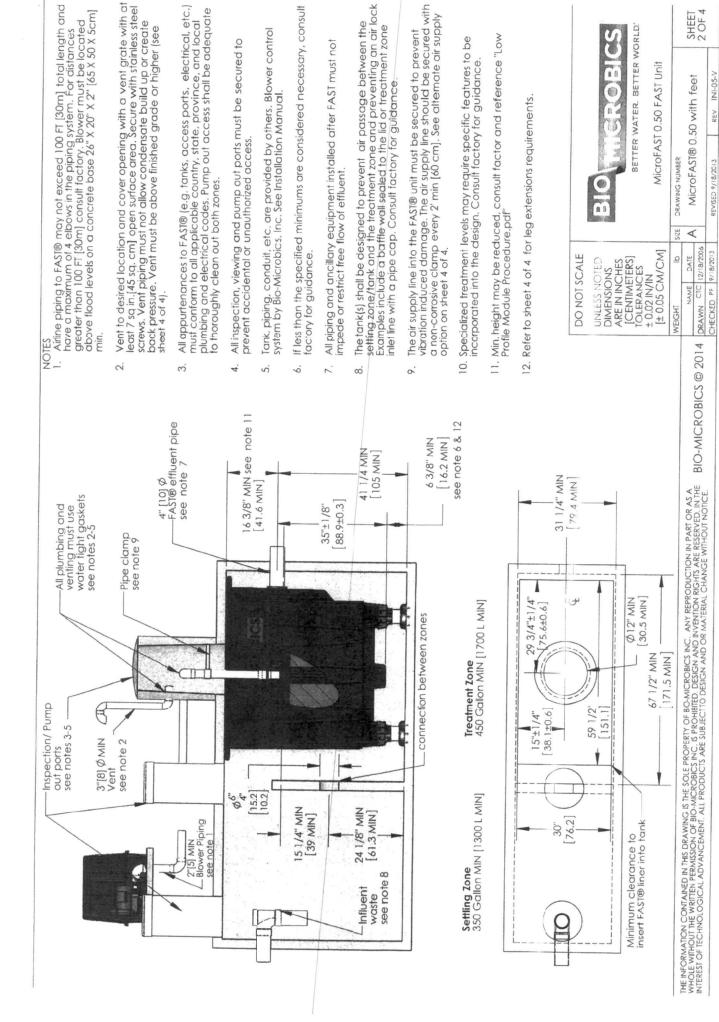
System / Pump Interaction Curves



Pump Selection 60 Hz Frequency Clarus Environmental Pumps Operating Points Operating Points Proceeding Carries Control Carries and Carries Pumps Operating Points Proceeding Points Proceeding Carries Control Carries Control Carries Page 60 GPM

riojed Data		Notes
Project Name.	Carpenter	
Project Address		
Contact Info		

celler Pump Company Pumps
(celler Pump 1 53/55/59, 0 3hp, 60Hz 19.7 GPM @ 14.5*



SHEET 2 OF 4

Specifications for MicroFAST 0.50 Wastewater Treatment System

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

Tank must 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 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. 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 freatment 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. The FAST system is a biological treatment for non-biodegradable or industrial wastewater.

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.

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-corrosive material (PVC, Galvanized, or stainless Steel). Do not run galvanized pipe inside the treatment tank. Refer to Installation Manual for further details.

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. 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 electrical source should be within 150 feet [45 meters] of the blower consult local codes for longer wining distances. All wining must conform to all applicable codes(IEC, NEC, etc.). Wining distances must prevent significant voltage loss. Input power on 60Hz electrical systems 110/220VAC, 1@.3.5/1.7 FLA. on 50 Hz electrical systems 220VAC, 1.0, 1.9 FLA. Other voltages and phase are also available. Actual power consumption varies with site conditions. All conduit and wiring 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

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 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 exceed 10% of the design daily flow (50 gph (190 LPH)).

O.WARRANTY

one year after installation or eighteen months from date 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 of shipment, whichever occurs first. All are subject to the following terms and conditions below: Bio-Microbics, Inc. warrants all new residential FAST® models (MicroFAST® 0.50, 0.625,

DO NOT SCALE During the warrantly period, if any part is defective or fails to perform as secilied when operating of design conditions, and if the equipment has been installed and is being operated and maintained in accordance with the written instructions provided by Bio-Microbics, Inc., Bio-Microbics, Inc., will repair or replace at its discretion such adefective parts and substances resulting from replacement of the defective parts and from installation of parts furnished under this warranty and regular maintenance if their such as such as supervises resulting from replacement of the defective parts and from installation of parts furnished under this warranty and regular maintenance if their such as such as components which have been damaged by flooding or only. This warranty applies only to the frequency in the recitment plant and does not include any of the structure writing. Purnishing drainage, septic tank or disposal system. Bio-Microbics, Inc. to make such changes or modify the construction analy a less first system, or any component part of parts increase in projective or modifications in present equipment. Bio-Microbics, Inc. to a responsible for consequential or incidental damages of any nature resulting from the major of the structure writing or consequential or incidental damages of any nature resulting from the major of the structure with the resulting from the major of the structure with the resulting from the major of the structure of the s to make such changes or modifications in present equipment. Bio-Microbics, Inc. is not responsible for consequential or inc such things as, but not limited to, defect in design, material, or workmanship, or delays in delivery, replacements or repairs.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANNABULTY OF HIRD STANDAY OF HIR WARRANTY OF MERCHANNABULTY OF HIRD STANDAY OF HIR WARRANTY OF TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. Contact your local distributor for parts and service.

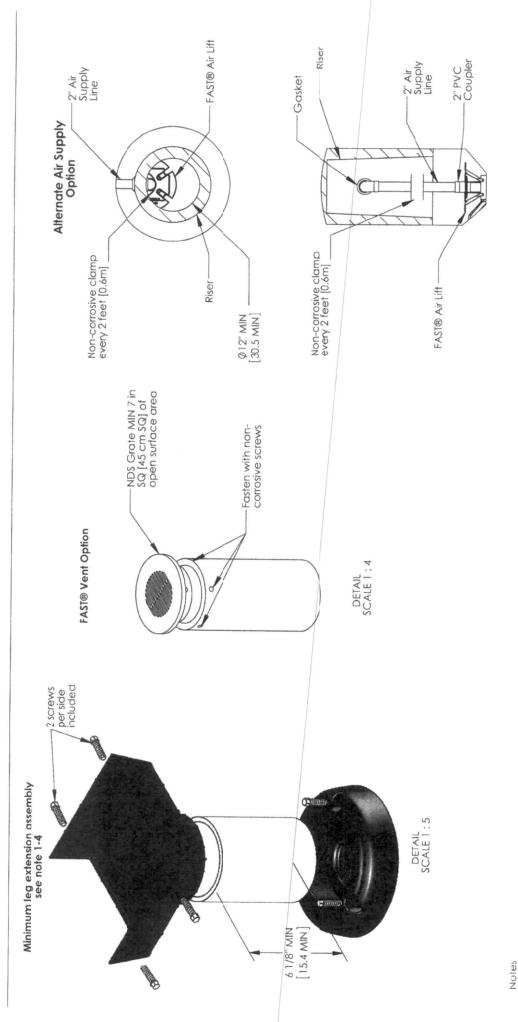
CHECKED PF 9/18/2013 BIO-MICROBICS © 201 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BIO-MICROBICS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BIO-MICROBICS INC. IS PROHIBITED. DESIGN AND INVENTION RICHTS ARE RESERVED. IN THE INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

SS ORLD		SHEET	3 OF 4	
BETTER WATER. BETTER WORLD. MICROFAST 0.50 FAST Unit	DRAWING NUMBER	MicroEAST® 0 50 Specifications		
	SIZE	4		
OTED NNS CHES CHES TERS] CES N N/CM]	Q	DATE	12/18/2006	
UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]	WEIGHT	NAME	DRAWN CTC 12/18/2006	
J € E			4	

INI-05-V

REV.

REVISED 9/18/2013



Secure leg extension to the FASI® unit by placing two screws on each side of the leg extension (4 screws per foot are included).

Cut 4" scha. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 6 1/8" [15.56cm] will provide minimum clearance of 10". For heights greater than 18" [45.7cm] use scha. 80 PVC pipe (not included). Consult factory for extending leg beyond 36" [90 cm]. Incheding the provided mounting points. If next provided extensions to the tank with non-corrosive hardware (not included) at the provided mounting points. If less than the specified minimums are considered necessary, consult factory for guidance. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 21f [0,6m] minimum. Tank, anchors, piping conduit, blower, housing pad and vents are provided by others.

DO NOT SCALE

w. 4. r.

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ORLD.		SHEET	4 OF 4		
MICROBICS SETTER WATER. SETTER WORLD: MicroFAST 0.50 FAST Unit		MicroEAST® 0.50 Details	30.00	REV INI-05-V	
BETT	E DRAWING NUMBER	MicroFACT		REVISED 9/18/2013	
	SIZE	◁			
OTED NNS CCHES ETERS] CES NN M/CM]	qı	DATE	12/18/2006	9/18/2013	
UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]	WEIGHT	NAME	DRAWN CTC	CHECKED PF 9/18/2013	
			*		

Zoeller Corp.

Service Stations

Comments

What's New

Home Page

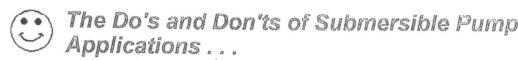
Contact Info Pump Sizing Program.

Extended Warranty Literature Index

Order Info

Technical Briefs

Technical Briefs by Zueller Professionals



1. Do thoroughly read all installation material provided with the pump.

Do inspect pump for any visible damage caused by shipping. Contact dealer if pump appears to be damaged.

Do clean all built up debris in sewage pit if debris can obstruct the pumps initial start up. Be sure that the pump will have a hard, flat surface beneath it.

Do be sure that the pit is large enough to allow proper clearance for the pumps float switch.

Do Always Disconnect Pump From Power Source Before Handling.

Do always connect to a separately protected and properly grounded circuit.

Don't ever cut, splice or damage the power cord.

Don't carry or lift the pump by its power cord.

Don't use an extension cord with a sewage pump.

Do install a check valve and a union in the discharge line.

Don't use a discharge pipe smaller than the pumps discharge size.

Do drill a 3/16" weep hole between the check valve and the pump housing.

Do review all applicable local and national codes and verify that the installation conforms to each of them

14. Do consult manufacturer for clarifications or questions.

15. Do consider a Two Pump System with an alarm where an installation may become overloaded or primary pump failure would result in property damage.

16. Don't flush any items that are not biodegradable such as paper towels, feminine hygiene products, condoms, or other items that could jam the pump impeller. A moderate amount of tissue paper in a system is acceptable.

17. Don't pour chemicals into the pump system such as acid's, floor wax, paints, or any degreasing chemicals. Common household soaps and detergents are acceptable. Contact the manufacturer with any chemical questions.

Do keep all warranty information, installation instructions, and receipts for future use.

Do size the pump to the proper capacity of the home. In a two-pump system each pump should be sized to meet the homes pumping requirements.

Do verify that the sewage pit is gas tight and well vented to prevent odors.

"QUALITY PUMPS SINCE 1939"

. Top of Page | Zoeller Corporate Home Page | Zoeller Pump Co. Home Page | Company Profile What's New at Zoeller | Zoeller Pump Co. Products | Tech Briefs | Contact Info | Extended Warranty Comments | Related Links | Service Station Listings | Technical Support | Order Info | Literature Index | Pump Sizing Program | 2006 Recall Info

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"QUALITY PUMPS SINCE 1939"

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



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

SECTION: 4.10.110 FM0732 0706 Supersedes 0705

visit our web site: www.zoeller.com

A-PAK - ALARM SYSTEMS

INDOOR/OUTDOOR ALARM SYSTEM FEATURES

- Indoor & Outdoor use per UL 864.
- · UL Listed and CSA Certified.
- Alarm system (horn & light) operates to warn of a high water condition.
- · Horn is rated 82 decibels at 10'.
- Alarm Test and Horn Silence Switch with auto reset.
- Terminal connections for a pump & float switch.

Standard Model (P/N 10-0623) Includes:

· 15 ft. float switch.

Deluxe Model (P/N 10-0682) includes:

- · 20 ft. float switch.
- 6 ft. power cord plugs into 115V outlet.
- Watertight cord connectors.

"A-PAK" ALARM SYSTEM FEATURES 10-1494 (115V/1Ph/9V DG)

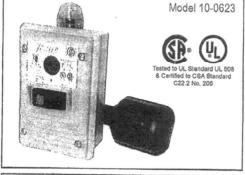
- Auto reset solid state alarm.
- 9 Volt battery back-up (battery not included).
- NEMA 1 non-corrosive enclosure for indoor use.
- · Manual shut off.
- Float operates on 12 VAC.
- Float switch with 15' cable included.
- · 6 ft. power cord plugs into 115V outlet.
- Horn is rated at 86 decibels at 10'.

"A-PAK II" ALARM SYSTEM FEATURES 10-0126 (115V/1Ph)

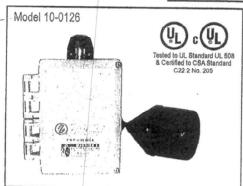
- NEMA 4X thermoplastic alarm panel.
- · Horn & light warn of high liquid levels
- · Test and silence switch.
- Auxiliary dry high level alarm contacts 5 amps.
- Operates on separate circuit from pump 115 VAC.
- · UL Listed for US & Canada.
- Float switch with 15 ft. cable included.
- Can be used with liquids to 140°F (60°C).
- Horn is rated at 88 decibles at 10'.

10-0015 (115V) / 10-0016 (230V)

- Non-enclosed model.
- 6" magnetic bell with transformer.
- Mount on standard utility box (not included),
- Operates with 10-0743 float switch or mechanical alternator (not included).

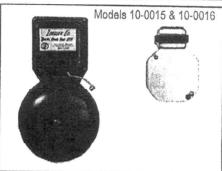








Note: All variable level float switches in this section are mechanically activated and do not contain mercury.



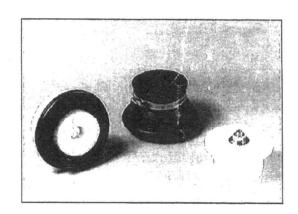


CAST-A-SEAL® 402/402F

CAST-IN BOOT-TYPE CONNECTOR for 1-1/4" to 6"PVC Pipe (32 mm - 150 mm)

What It Is

CAST-A-SEAL 402/402F is a watertight flexible connector that is cast into the structure when the concrete is poured. The connector is folded into the casting position and placed on the reusable heavy-duty solid plastic mandrel that is installed directly to the form. After the concrete is cured, the form is opened, removing the mandrel from the gasket, but leaving the CAST-A-SEAL 402/402F connector embedded in the concrete. The gasket is then simply unfolded at the jobsite and is tightened around the pipe using the supplied stainless steel take-up clamp.



Why It's Better

- Simple cast-in design provides flexible watertight connection
- · Eliminates infiltration and exfiltration
- Improves on-site system performance and minimizes maintenance
- Protects groundwater from unintended discharges
- Use in on-site treatment structures, grease interceptors, manholes, wet wells, pump and lift stations, stormwater structures, or any application requiring a flexible watertight connector

How It Performs

CAST-A-SEAL 402/402F meets or exceeds all requirements of the following Standards, Codes, Specifications and/or Test Methods:

ASTM C 1227 ASTM C 1644

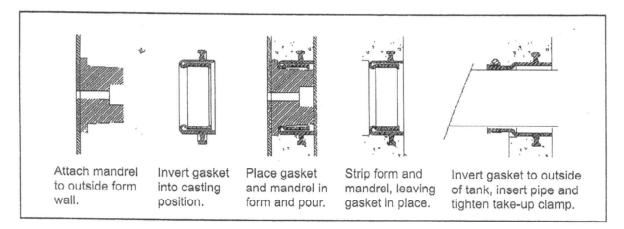
ASTM C 1644 IAPMO Z1001 ASTM C 923 NPCA Best Pra

ASTM C 923

NPCA Best Practices NOWRA Model Code

IAPMO Z1000

ASTM C 1478



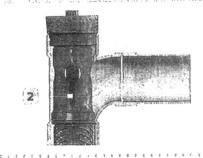
Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors. Copyright 2012.



PRESS-SEAL GASKET CORPORATION



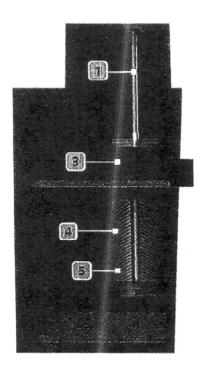




In the Interest of technological progress, all products are subject to design change without notice.

Unique Design Characteristics

- 195 Self-Cleaning Screen and Swab Feature The smooth exterior surface of the SaniTEE® promotes the deflection of solids back into the septic tank. Any solids that become trapped in the angled slots can be easily dislodged with a simple swab of the screen.
- Keyhole Weirs Surge flows are common in normal residential applications due to simultaneous discharge from many fixtures in the home (i.e. laundry day). The patented keyhole weirs provide flow attenuation to dampen these surge flows that otherwise may scour solids out of the septic tank with the effluent.
- (SA) Custom Diverter Used in 8" and 16" SaniTEE applications, the diverter acts as a custom-engineered outlet tee to prevent scum and gas-lifted solids from being discharged into the drainfield. Once the custom diverter is secured to the tank wall and connected to the outlet pipe, the SaniTEE screen easily slips into the diverter like a sword in a sheath.
- Angled Slots Angled slots, similar to those used in industrial well screens, are used because they resist blinding (clogging) better than mesh-type screening devices. The appropriate slot width does not allow nuisance solids to be discharged. Additionally, it has been found that most solids suspended in a tank float horizontally, like a leaf at the water surface. Therefore, the angled orientation of the slots is most likely to block the entrance of most solids.
- Gas-lifted Solids Deflection It is well known that solids are lifted by various gasses present in septic tanks. These gas-lifted solids often rise into the end of the outlet tee and are discharged with the effluent. When SaniTEE is utilized, flow must enter from the side, not the bottom, so the escape of gas-lifted solids is virtually eliminated.



Model Sizes	Screen Diameter	Screening Level	Flow Range
SNT416	4 inch	1/16 Inch	Up to 1000 GPD
SNT418	4 inch	1/8 inch	Up to 2000 GPD
SNT818	8 inch	1/8 inch	Up to 6000 GPD
SNT838	8 inch	3/8 inch	Up to 10,000 GPD
SNT1618	16 inch	1/8 inch	Up to 10,000 GPD
SNT1638	16 inch	3/8 inch	Up to 20,000 GPD

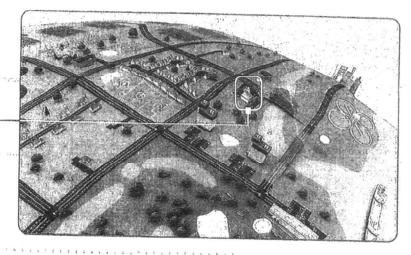
Simple Installation and Maintenance

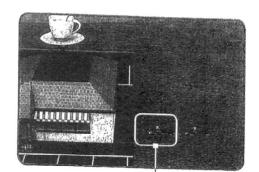
The installation of SaniTEE consists of dropping it inside a standard septic tank outlet tee or custom diverter. When cleaning the SaniTEE, simply move the swab handles forcefully up and down to pass the swab through the center or exterior of the screen. This swabbing action will dislodge any debris that might be trapped in the angled slots. If inspection is required, SaniTEE can be removed easily by simply lifting the screen out of the outlet tee or diverter.



Better Water, Better World.

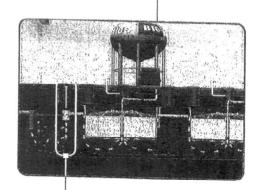


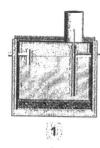


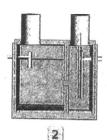


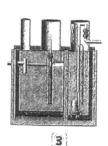
SaniTEE® Wastewater Screens

SaniTEE® self-cleaning wastewater deflection screens (commonly known as septic tank effluent filters) are designed to reduce suspended solids discharged in septic tank effluent by promoting natural sedimentation and excluding gas-lifted particles from entering the outlet pipe. Additionally, SaniTEE's patented keyhole weirs help to attenuate surge flows, delivering a more consistent flow for further treatment or dispersal. These features help extend the lives of drain fields, reduce the clogging of orifices in effluent disposal systems and allow flexibility in the use of different types of effluent pumps. SaniTEE wastewater screens are available in 4", 8" and 16" model sizes with flow capacities up to 20,000 GPD. Multiple screens can be used for flows higher than 20,000 GPD.

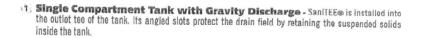






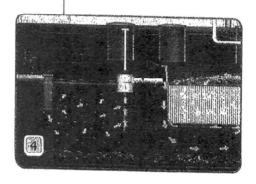


Applications





- (8) Dual Compartment Tank utilizing an effluent pump This configuration provides primary screening in the first compartment and allows flexibility in the use of different types of effluent pumps.
- (4) Commercial Usage (in any of the above configurations) SaniTEE can also be utilized at such decentralized commercial properties as restaurants, laundromats, gas stations, beauty shops or veterinary clinics. When used in these applications, SaniTEE provides many benefits including prolonged drain field life and ease of maintenance.



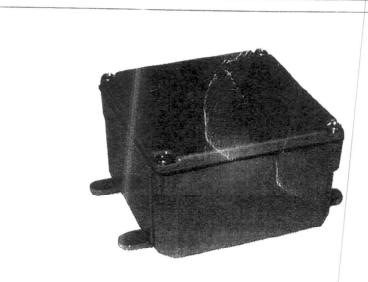


ENVIRONMENTAL

Zoeller Family of Water Solutions"

3649 Cane Run Road Louisville, KY 40211-1961 phone: 1-800-928-7867 fax: 1-502-774-3624 www.clarusenvironmental.com Your Peace of Mind is Our Top Priority® CL0121 Updated 1111 Supersedes 0210

Junction Boxes



UL listed and CSA certified high impact, corrosion resistant, weatherproof thermoplastic enclosure with flexible PVC gasket and brass screws. Presassembled at the factory for convenience and ease of installation.

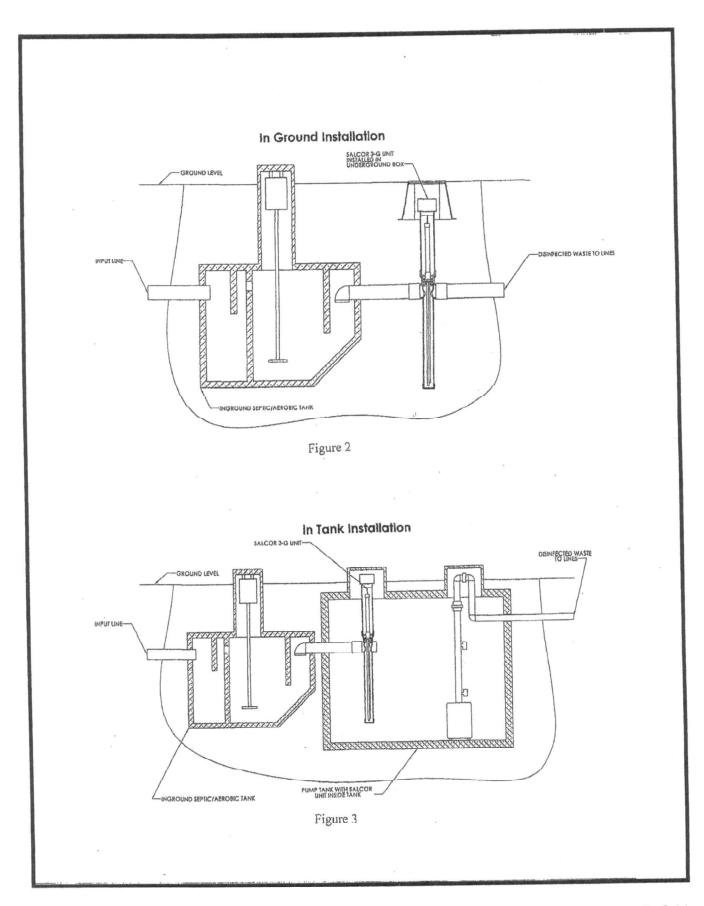




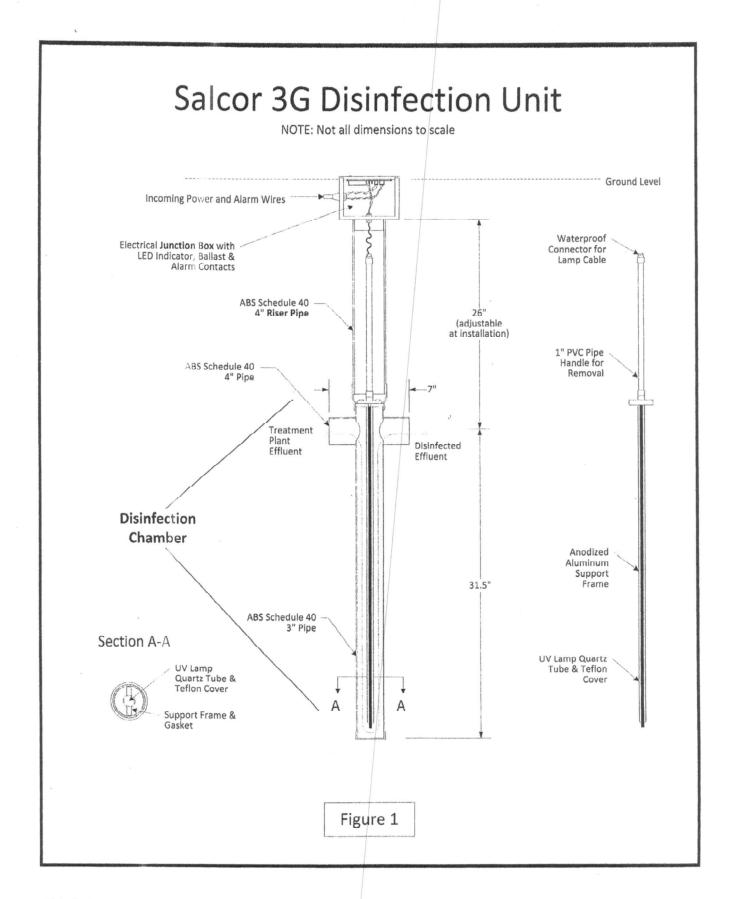


Junction Boxes CL0625							
Part Number	Description						
10-1398	4"x4"x4" J-Box w/ 0.75" hub, 4 small cord grips, 1 plug						
10-1399	4"x4"x4" J-Box w/ 1.5" hub, 4 small cord grips, 1 plug						
10-1402	6"x6"x4" J-Box w/ 1.5" hub, 4 small cord grips, 1 plug						
10-1403	6"x6"x4" J-Box w/ 2.0" hub, 5 small cord grips, 1 plug						
10-1710	6"x6"x4" J-Box w/ 2.0" hub, 6 small cord grips, 1 plug						

SALCOR INC



SALCOR INC



Third Quarter 2018



Wire Gauge Calculation Chart

-	Indicates	wire	is	insufficient	to	carry	han	

*Information provided by Whelen Engineering, Inc.

Maximum Current Draw

	5 Amps	10 Amps	15 Amps	20 Amps	25 Amps	30 Amns	35 Amns	40 Amns	45 Amns	50 Amps
22 AWG	6	3						10 (11)00	TO AITIDS	Joo Arrips
20 AWG	9.5	5	3							
18 AWG	15	7.5	5	4	3					-
16 AVVG	24.5	12	8	6	5	4	3.5	3		
14 AWG	39	19.5	13	9.5	8	6.5	5.5	5	4.5	4
12 AWG	62	31	20.5	15.5	12.5	10.5	9	7.5	7.0	6
10 AWG	98	49	32.5	24.5	19.5	16.5	14	12.5	11	10
8 AWG	158	78	52	39	31	26	22.5	19.5	17.5	15.5
6 AVVG	248.5	124	82.5	82	49.5	41.5	35.5	31	27.5	25
4 AWG	395	197.5	131	98.5	79	66	56.5	49.5	44	39.5
2 AWG	629	314	209	157	125.5	104.5	88.5	78.5	69.5	63
								. 5,0	90.0	

Maximum wire length - measured in feet.

	55 Amp	80 Amps	65 Amps	70 Amps	75 Amps	80 Amps	85 Amns	90 Amns	95 Amns	100 Amn
22 AWG					-				30741133	100 /111
20 AVVG							-			
18 AVVG		7. 1								
18 AVVG										
14 AWG	3.5	3	3	3						
12 AVVG	5.5	5	5	4.5	4	4	3.5	3.5	3.5	3
10 AVVG	9	8	7.5	7	6.5	6	6	5.5	5	5
8 AWG	14	13	12	11	10.5	10	9	8.5	8	8
6 AWG	22.5	20.5	19	17.5	16.5	15.5	14.5	14	13	12.5
4 AWG	36	33	30.5	28	28.5	24.5	23	22	21	19.5
2 AVVG	57	52.5	48.5	45	42	39	37	35	33	31.5

American Wire Gauge (AWG) - diameter in inches

	Diamet
Gauge	er
000000	0.5800
00000	0.5165
0000	0.4600
000	0.4096
00	0.3648
0	0.3249
1	0.2893
7	0 2570

	Diamet
Gauge	er
7	0.1443
8	0.1285
9	0.1144
10	0.1019
11	0.0907
12	0.0808
13	0.0719
4.4	0.0044

	Diamet
Gauge	er
19	0.0359
20	0.0319
21	0.0285
22	0.0253
23	0.0226
24	0.0201
25	0.0179
700	0.0450

	Diamete
Gauge	r
31	0,0089
32	0.0079
33	0.0071
34	0.0063
35	0.0056
36	0.0050
37	0.0046
20	0.0040



<u>*ALL Aspects of the wiring and electrical system must meet the current National Electrical Code</u>*.

- All components of a pumped septic system including: pump vaults, pump chambers, tank draw-downs, pumps, floats and alarms, controls, wiring, conduit, all electrical connections and breakers must be specified with examples included in the design by Designated Representative.
- All septic system electrical work must be performed by an Arkansas licensed Septic System Installer, or an Arkansas licensed Master Electrician.
- Any electrical work inside a building must be performed by the property owner, or an Arkansas licensed Master Electrician.
- All enclosures, panels, breaker boxes or other housings must be NEMA-4X rated with gas-proof and waterproof gaskets and seal offs.
- No exposed plug-in electrical cords are allowed, they must be entirely sealed in a NEMA-4X enclosure to be both gas resistant and water resistant.
- All wire splices and connections must be made with heat shrink-butt connectors, or silicone encapsulated wire nuts.
- All conduit opening s into control boxes, splice boxes, or alarm and breaker boxes must have gel-filled seal off kits or plugs.
- All power cable or wire must be UF (underground rated) and of correct gauge for the total amperage and total length of run.
- Any power cable or wire buried 12-inches or less deep must be entirely inside UF (underground rated)
 conduit of correct size to allow for heat dispersal of the wire.
- The pump must have an individual breaker of correct amperage in line of site to its location.
- The float/alarm set up must have an individual breaker of correct amperage in line of site to its location.
- The main breaker for the entire septic system set up must have amperage at least equal to pump, alarm, or control breakers coming to the main breaker. This main breaker must be labeled and its location noted on the septic system permit/design.
- No deviations from the approved design may be made without prior approval of Designated Representative and Environmental Health Specialist.

Contract Number: Customer Name

SERVICE AND MAINTENANCE CONTRACT

Customer Name

collectively as the "Parties."

1. Parties. This contract ("Agreement" or "Contract") is between Meinco Septic Systems, Inc., ("Meinco") and

_____, ("Client"), referred to individually as a "Party" and

2.	Meinco for Client located at 911 Address of Site	yste	m service and maintenance services provided by
	hereinafter referred to as the "Service Site."		
3.	Service Fees. Client agrees to pay Meinco One service and maintenance specifically work performmence specifically below (hereinafter referred to as invoiced amount is good consideration for this Contiburgained for terms of this agreement.	ed (every Three Morths (Quarterly) and described arvice Work"). Meinco and Client agree that the
4.	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
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,		costs of repairs, modifications, parts, and labor. Meinco may, at its discretion, seek payment in advance of making any repairs o modifications to the septic system. In such event, Meinco shall no be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system.
	Meinco shall submit to Client a laboratory fee of \$	10.	Access to System. Client agrees to provide Meinco access to the septic system as well as its parts and components.
6.	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.
	II. 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 of adverse effects for any delay in removing solids.
	C) Necessary paperwork every 6 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 of
	D) I. 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 undertaker or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly of the service when the service with the service of the service with the serv
7.	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		indirectly employed by them or anyone for whose acts they may be 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 of
8.	Flow Requirements. This contract shall be null and void if septic system flow exceeds 500 gallons per day		person described in this paragraph.

- 15. 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.
- 19. 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 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).

	D			 	
Meinco Se	pue Sy	stems,	inc.		
am	anda (Coupe	ente		
Client			-		

Enter the date			
Date			
	3/19/2022		



Arkansas Department of Health

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

MEMORANDUM OF AGREEMENT

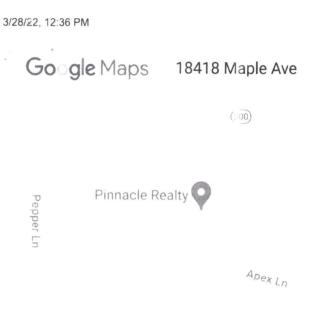
SUBJECT: ONSITE WASTEWATER SYSTEM APPLICATION

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:

- 1. 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.
- 3. 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.
- 4. 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.
- 6. That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.
- 7. 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.

agene	у.		
SIGNED:	amanda Corperte	SIGNED:	3/19/2022
	(Property Owner)		(Health Department)
DATE:	3/19/22	DATE:	4-14-22



/ay Ro

Forestwood Automotive



Maple Ave



Maple Ave

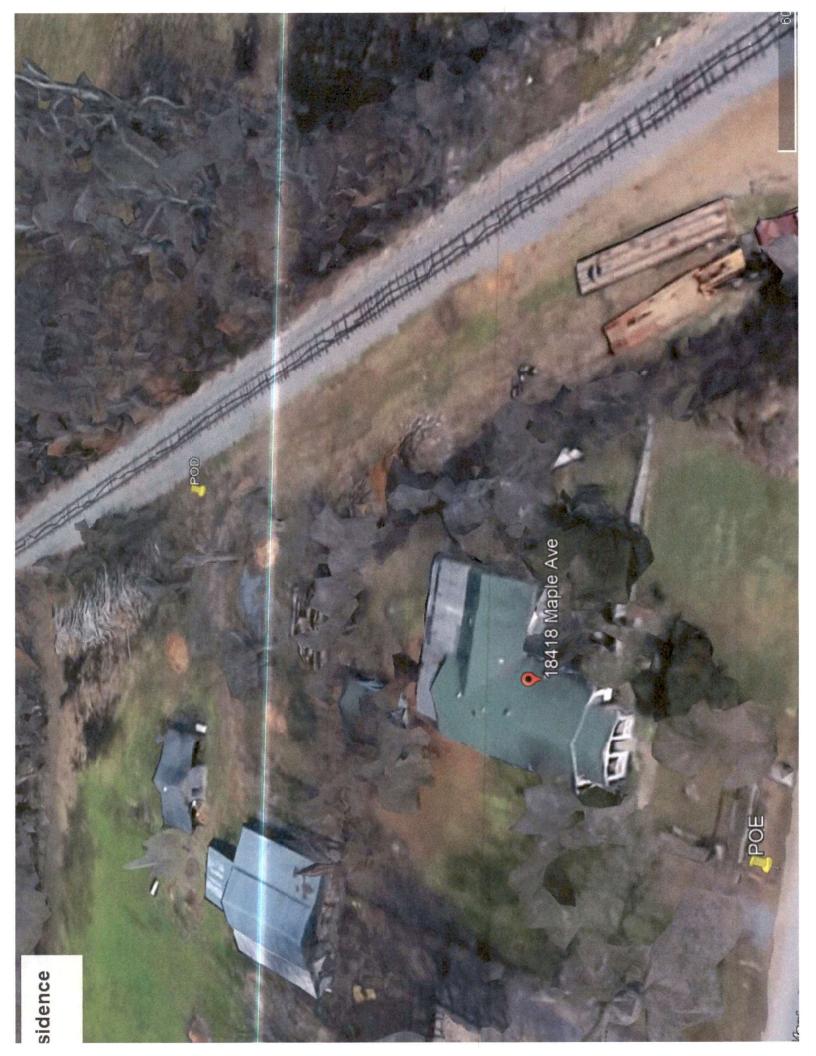
itural Steps Park

emetery



Go gle

Map data ©2022 Google 200 ft ____



ARG550000 Checklist

ARG550735	\boxtimes New	Renewa	al	Modification
Business:			Individua	al Homeowner:🔀
Permit Fee:			(homeov	vners are exempt)
Disclosure Statement:	Yes N/	A	(homeov	vners are exempt)
Sec. of State Check:	OK N/	A	(homeov	vners are exempt)
Financial Assurance Required?	□No □Ye	S	(homeov	vners are exempt)
Discharge Path: unnamed tributa	ary, thence into M	lill Bayou, ther	nce into A	rkansas River (the submitter claims that water
is discharged into segment 3C of	Arkansas River, b	ut the cooridn	nates of o	utfall are close to segment 3F of Arkansas
River).				
HUC: <u>11110207</u>	;	Stream Segme	nt (Plann	ing Segment): <u>3F</u>
Potential Losing Stream Area:	⊠No	Yes		
Natural/Scenic Water:	⊠No	Yes:	Distance	: <u></u>
Extraordinary Resource Water:	⊠No	Yes:	Distance	:
Ecologically Sensitive Waterbody	∕: ⊠No	Yes:	Distance	:
303 (d) list Impaired:	ne			
Category 5 – Waterbo Category 4 – Waterbo Pathogens Nutri	ody: S			Distance: Distance:
Operator Name: <u>David Meints</u>		License #: <u>009</u>	9055	License Class: <u>III</u>
ADH Approval (EHP-19 Form):				
Multiple Discharges: No	Yes			
Less than 1500 GPD: No	∑Yes	Actual/P	Projected	Wastewater Flow: <u>450</u> GPD
Site Map:	ion 🔲 Treatn	nent System	Outfa	lls
Approved Treatment System:	MicroFas	t 0.5 w/ UV Po	ost Aerati	on
Treatment System Notes:				
Other Comments:				

Treatment System

	Company Name	System Name	Design Flow (gpd)
	Orenco Systems, Inc.	AdvanTex AX15-2N / AX15-3N with disinfection and re-aeration	800, 1200
	Orenco Systems, Inc.	AdvanTex AX20 (such as AX20N, AX20-2N, AX20-3N, AX20RTN, AX20RTN 2 pod, or AX20RTN 3 pod with disfinection and reaeration)	500, 600, 1200, 1500
	Orenco Systems, Inc.	AdvanTex AX25RTN or AX25RTN 2 pod with disinfection and reaeration	750, 1500
	Ecological Tank, Inc.	AquaSafe 500	500
	Norweco, Inc.	Norweco (Singulair) 960	500, 1000
	Norweco, Inc.	Norweco (Singulair) TNT-500	500
	Clearstream Wastewater Systems, Inc.	 500 Series (500N, 500NC, 500NC2, 500NC3, 500NCS, 500NS, and 500NU) 600 Series (600N, 600NC, 600NC2, 600NC3, and 600NU) 750 Series (750N, 750NC, and 750NC2) 800 Series (750N, 750NC, and 750NC2) 1000 Series (1000N, 1000N-B, 1000NC, 1000NC-B, 1000NCD, 1000ND, and 1000NSD) 1200 Series (1200NCD and 1200ND) 1500 Series (1500N, 1500N-B, 1500NC, 1500NC-B, 1500NCD, and 1500ND) All of the included systems in the list must include either a Clearstream Model 1100 Spin Filter or a post aeration tank. Systems without built-in disinfection must include a supplementary disinfection unit. 	500, 600, 750, 800, 1000, 1200, 1500
	Consolidated Treatment Systems, Inc.	MultiFlo FTB-0.5	500
	EnviroGuard	ENV-0.75	750
	Consolidated Treatment Systems, Inc.	Nyadic M6-A	500
\boxtimes	Bio-Microbics, Inc.	MicroFast ® 0.5/With UV Disinfection and Post Aeration	500
	Bio-Microbics, Inc.	MicroFAST 0.625, 0.75, 0.9, and 1.5 with Disinfection and Reaeration	625, 750, 900, and 1500
	Bio-Microbics, Inc.	BioBarrier 0.5, 1.0, and 1.5 with Disinfection and Re-aeration	500, 1000, and 1500
	Jet, Inc.	Jet BAT Media 1500-Series Plants with Jet 952 UV Device and Jet 954 Re-Aeration Device	500
	Aero-Tech	AT-500 Treatment System with UV Disinfection	500
	Fuji Clean USA, LLC	CE5, CE7, CE10, CEN5, CEN7, and CEN10 with UV disinfection and re-aeration	450, 630, and 900
	Fuji Clean USA, LLC	CE14 and CEN14 with UV disinfection and re-aeration	1350
	Other system	Some systems (for example, Orenco AX100) may be allowed on a case-by-case basis if the projected wastewater flow (not necessarily system design flow) is 1500 gpd or less; may require additional information and certification to be approved for ARG55 coverage	≤1500