

RE: CME-JOYTEX-PROP A LLC

862 River Road

New Braunfels, Tx 78132

Dear Property Owner / Agent:

Thank you for your submission. We have reviewed the planning materials for the referenced permit application. The following information is needed before I can continue processing the referenced permit submittal.

- 1. An on site preliminary inspection will be done on 7/25/25 additional comments may follow.
- 2. Revise subdivision name on application.
- 3. Deed needed verifying property was created prior to 01/01/88.
- 4. Show doubling area of drain field.
- 5. Is the water storage tank above ground or below?
- 6. Maintenance Contract for permit is required.
- 7. Revise as needed and resubmit.

From: <u>Hernandez,Sandra</u>

To: <u>"martyjoyce39564@gmail.com"</u>

Cc: "keith.eismann@yahoo.com"; Ritzen,Brenda; Olvera,Brandon; Vollbrecht, David

 Subject:
 8672 River Rd. - Permit 118831

 Date:
 Thursday, July 10, 2025 3:01:00 PM

Attachments: Pages from 118831.pdf

image001.png

RE: 8672 River Rd. – Permit 118831

Dear property owner,

We received a septic permit application in our office for the referenced property on July 10, 2025. This property shows to be in the jurisdiction of the City of New Braunfels, so we are including the city in this email. Please be advised that you will need to contact the City of New Braunfels Development Planning office at 830-221-4041 option 2 to verify this tract is compliant with their subdivision regulations and provide confirmation to our office that indicates this tract is compliant. This may involve submitting a request for a Legal Lot Determination Letter which can be done at the following link:

https://www.newbraunfels.gov/3450/Forms-and-Applications

Thank you,



Sandra Ann Hernandez

Subdivision Coordinator

Comal County Engineer's Office
Y 195 David Jonas Drive | 830-608-2090 | www.cceo.org





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

The state of the s			118831
	Date Received	Initials	Permit Number
Instructions: Place a check mark next to all items that apply. For it	tome that do not apply play	ce "N/A" Thi	s OSSE Development Application
Checklist <u>must</u> accompany the completed application		00 1471. 111	o coor Borolopinion, Application
OSSF Permit			
Completed Application for Permit for Authorizati	ion to Construct an On-Site	e Sewage Fa	cility and License to Operate
Site/Soil Evaluation Completed by a Certified Si	ite Evaluator or a Professio	onal Enginee	r
Planning Materials of the OSSF as Required by of a scaled design and all system specifications	the TCEQ Rules for OSSI	Chapter 28	5. Planning Materials shall consis
Required Permit Fee - See Attached Fee Sched	dule		
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring	g Maintenance/Affidavit to	the Public	
Signed Maintenance Contract with Effecti	ive Date as Issuance of Lic	ense to Ope	erate
I affirm that I have provided all information require constitutes a completed OSSF Development App		ment Appli	cation and that this application
ma	2	y Jun	ne 2/025
Signature of Applicant			Date
COMPLETE APPLICATION Check No. Receipt No.	(M		PLETE APPLICATION Circled, Application Refeused)

Revised: September 2019





ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 <u>WWW.CCEO.ORG</u>

Date			Permit Nur	mber118	831
1. APPLICANT	/ AGENT INFORMATION				
Owner Name	CME-JOYTEX-PROP A LLC	Agent Name	Eoff Septic S	ervices	
Mailing Addres	s 6904 Ivy Leaf	Agent Address	420 Bear Cre	eek Drive	
City, State, Zip	Schertz, TX 78154	City, State, Zip	New Braunfe	els, TX 78132	7
Phone #	210-388-8728	Phone #	210-844-188	5	
Email	martyjoyce39564@gmail.com	Email	keith.eisman	n@yahoo.com	
2. LOCATION					
Subdivision Na	me River-L1A Lower Guadalupe-Rural	ι	Jnit N/A	Lot N/A	Block N/A
Survey Name /	Abstract Number A-106 SUR-272 G Carrasco,	Tract 6 PT WM Spe	cht Tract	Acreage	.975
Address 8672	River Road	City New Braunfe	els	State TX	Zip 78132
3. TYPE OF DE	EVELOPMENT				
Single Fa	mily Residential				
Type of 0	Construction (House, Mobile, RV, Etc.) House				
Number	of Bedrooms				
Indicate	Sq Ft of Living Area				
⊠ Non-Sing	le Family Residential				
(Planning	materials must show adequate land area for doubling	the required land nee	ded for treatme	nt units and disp	oosal area)
Type of F	Facility Short Term Rental				
Offices, F	Factories, Churches, Schools, Parks, Etc Indic	ate Number Of Occ	upants		
Restaura	nts, Lounges, Theaters - Indicate Number of Se	ats			
Hotel, Mo	otel, Hospital, Nursing Home - Indicate Number				
Travel Tr	ailer/RV Parks - Indicate Number of Spaces				
Miscellar					

Estimated Co	ost of Construction: \$ 500,000.00	(Structure Only)			
Is any portion	n of the proposed OSSF located in the United St	ates Army Corps of	Engineers (U	SACE) flowage	e easement?
Yes 🛛	No (If yes, owner must provide approval from USACE f	or proposed OSSF impro	ovements within the	he USACE flowag	e easement)
Source of Wa	ater 🗌 Public 🔀 Private Well 🔲 Rainwa	iter			
4. SIGNATURE	OF OWNER				
- The completed	oplication, I certify that: application and all additional information submitted do nat I am the property owner or I possess the appropria	es not contain any fal te land rights necessa	se information a ary to make the	and does not co permitted impro	nceal any material vements on said
- Authorization is site/soil evaluat	hereby given to the permitting authority and designate ion and inspection of private sewage facilities at a permit of authorization to construct will not be issu				
by the Comal C	ounty Flood Damage Prevention Order. onsent to the online posting/public release of my e-ma				•
Commercial Services	a har	14 Ti.	20 7 No	-ppinoulon, do	approable.
Signature of	Swner(s)	Date	ne 1,925		Page 1 of 2



ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 WWW.CCEO.ORG

Planning Materials & Site Evaluation as Required Completed By Hoyt Seidensticker
System Description Aerobic with Drip Irrigation
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 1,000 GPD ATU w/1,000-Gal Pump Absorption/Application Area (Sq Ft) 4,380
Gallons Per Day (As Per TCEQ Table III) 512 Cabin 1 - 1,758 SF - 6 Beds/People @ 60 GPD - 360 GPD Cabin 2 - 1,484 SF - 2 Beds/People @ 60 GPD - 120 GPD 1 Outhouse - 8 People @ 4 GPD - 32 GPD Total - 512 GPD Total - 512 GPD
Is the property located over the Edwards Recharge Zone? Yes No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the property? Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
Is there at least one acre per single family dwelling as per 285.40(c)(1)? Yes No
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone? X Yes No
Is there an existing TCEQ approval CZP for the property? Yes No
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
Is this property within an incorporated city?
If yes, indicate the city:
By signing this application, I certify that:
- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.
Signature of Designer Date





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AFFIDAVIT TO THE PUBLIC

THE COUNTY OF Comal §
STATE OF TEXAS §
According to Texas Commission on Environmental Quality Rules for On-Site Sewage (OSSFs) Facilities, this document is filed in the Deed Records of <u>Comal</u> County, Texas.
I. The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (commission) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), §5.012 and §5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety Code, requires owners to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.
II. An OSSF meeting the requirements of 30 Texas Administrative Code §285 will be installed on the property described as (insert legal description for all land tracts/lots):
0.975 acre tract of land in the Galvino Carrasco Survey No. 272, Abstract 106, Comal County, Texas as described and recorded in Document Number 9606013690, Official Public Records, Comal County, Texas.
This property is owned by <u>CME-JOYTEX-PROP A LLC</u>
This OSSF must be covered by a continuous maintenance contract. All maintenance on this OSSF must be performed by an approved provider and/or maintenance company, and a signed maintenance contract must be submitted to the Comal_County Engineers Office.
Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF may be obtained from (City of New Braunfels).
WITNESS BY HAND(S) ON THIS 24 DAY OF JUNE 2025 Printed Owner Name Printed Owner Name Owner Signature Owner Signature Owner Signature
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 24TH DAY OF JUNE, 2025. KIRBY PARKER Notary Public, State of Texas Notary's Printed Name: K:-by Parker My Commission Expires: 6-10-29 Notary ID 129452386



This page has been added to comply with the statutory requirement that the clerk shall stamp the recording information at the bottom of the last page.

This page becomes part of the document identified by the file clerk number affixed on preceding pages.

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County Texas
07/09/2025 01:21:31 PM
TAMMY 2 Page(s)
202506021178

Bobbie Koepp



420 Bear Creek Drive New Braunfels, Texas 78132 210-844-1885

On-Site Sewage Facility (OSSF) Maintenance Agreement

- i. General: This work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between <u>CME-Joytex-Prop A LLC</u> (hereinafter referred to as "Client") and Eoff Septic Services (hereinafter referred to as "Contractor"). By this Agreement, Contractor agrees to render services, as described herein, and the Client agrees to fulfill his/their responsibilities under this agreement as described herein.
- ii. **Effective Dates:** Unless otherwise stated below, this agreement commences on the date the <u>Licenses to Operate (LTO)</u>, date as noted below or upon receipt of full payment and runs for two (2) Year(s).

Agreement Starting Date: (LTO Date) and Ending Date: (Two Years Thereafter).

- iii. **Services by Contractor: Contractor** will provide the following services (hereinafter referred to as the "Services"):
 - a. In compliance with **Agency** (TCEQ and/or County) and manufacturer's requirements, inspect and perform routine maintenance on the On-Site Sewage Facility (hereinafter referred to as the "OSSF") three (3) times per years (Every 4 Months).
 - b. Report to the appropriate regulatory authority and to the **Client**, as is required by both the State's onsite rules and local **Agency's** rules, if more stringent. All findings must be reported to the local agency within 14 days.
 - c. If any components of the OSSF are found to be in need of repair during the inspection, the **Contractor** will notify the **Client** of the repairs needed and provide any associated materials and labor costs.
 - d. Visit site in response to Client's request(s) for unscheduled service(s) within two business days from the date of Contractor's receipt of Client's request. All unscheduled responses are in addition to the fee covered by the Agreement and will be billed to the Client.
 - e. Provide notification of arrival to site to the homeowner or to site personnel. Additionally, written notification will be left at the site with site personnel or e-mailed to the **Client** upon completion of inspection, as well as, forwarded to **Agency** within 14 days.
- iv. Site Location: The Services are to be performed at the property located at:

 Site Address: <u>8672 River Road</u>, New Braunfels, TX 78132 OSSF Permit #: TBA
- v. Payment(s): The fee for this Agreement only covers the Services described herein. This fee does not cover equipment, parts or labor supplied for repairs or charges for unscheduled Client requested trips to the site. By signing this Contract, the Client is authorizing the Contractor to remove any parts which were installed but not paid for at the end of 30 days. The Client is still responsible for any labor costs associated with the installation and removal of said parts.
- vi. Client's Responsibilities: The Client is responsible for each and all of the following:
 - a. Maintain chlorinator and provide proper chlorine supply, if OSSF is equipped with same.
 - Provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function property, and to allow Contractor easy access to all parts of the OSSF.
 - c. Immediately notify Contractor and Agency of any and all problems with, including failure of the OSSF.
 - d. Upon receiving notification of services needed from the Contractor, it becomes the Client's
 responsibility to contact the Contractor to authorize the service. If the Client chooses to use a





different contractor to perform the service, the **Client** is responsible for ensuring the **Contractor** holds the proper licenses (Installer II, Maintenance provider) and is certified by the manufacture. Also, the **Client** is responsible for ensuring proper notification is given to the **Agency**, as required by the State local Agency rules.

- e. Clients residing in <u>Comal County</u> should allow for samples at both the inlet and outlet to the OSSFF to be obtained by the <u>Contractor</u> for the purpose of evaluating, the OSSFs performance when requested by the <u>County</u>. If these samples are sent to a lab for testing, the <u>Client</u> will directly pay the lab for the cost of the testing plus pay the <u>Contractor</u> for all man-hours expending in providing this additional service at the current <u>Contractor</u>'s labor rate.
- f. Not allow backwash from water treatment or water conditioning equipment to enter the OSSF.
- g. Maintain site drainage to prevent adverse effect on the OSSF.
- h. Promptly and fully pay Contractor's bills, fee, or invoices are described herein.
- vii. Access by Contractor: Contractor, or personnel authorized by the Contractor, may enter the property at reasonable times without prior notice for the purpose of performing the above-described services.

 Contractor will require access to the OSSF electrical and physical components, including tanks, by means of manway or risers for the purpose of evaluations required by manufacture, and/or rules. If such manway or risers are not in place, excavation together with other labor and materials will be required, and will be billed to Client as an additional service. Any excavated soil is to be replaced as best as reasonable possible.
- viii. **Limits of Liability:** In no event shall the **Contractor** be liable for indirect, consequential, incidental or punitive damages, whether in contract tort of any other theory. In no event shall the **Contractor's** liability for damages exceed the price for the **Services** described in this **Agreement**.
- ix. **Entire Agreement**: this **Agreement** contains the entire **agreement** of the parties, and there are no other promises or conditions in any other **agreement**, oral or written.

Client and/or Authorized Client Agent:	
Print Name: 4/1//manM Joya	Signature:
Date: <u>24 June 2025</u> Email Ad Phone Number: <u>(210)</u> 388-8 728	dress: fogehouse 2017@ amail, com
Phone Number: (210) 388-8 728	-
Site Address: 8672 River Road, New Braunfels, TX 7	8132_OSSF Permit #:TBA
Billing Address: 6984 Ivy Leaf,	Schertz, TX 78454
======================================	ontractor====================================
C Eoff Services Inc. dba Eoff Septic Services 420 Bear Creek Drive	Signature:
New Braunfels, TX 78132	Name/Title: Keith R. Eismann / CFO
210-844-1885	Date: 6-24-25

OSSF Maintenance Provider Licenses # - MP0001745

OSSF Installer II Licenses # - OS00029546

ON-SITE SEWAGE FACILITY Site Evaluation Report Information

Date: 7/1/12025		Cite Exa					
Applicant Information:			aluator li				
Name: CME-JOYTEX-PROP A LLC		Name:	Hoyt Sei				
Address: 6904 Ivy Leaf		License		******	Expires	8/31/20	
City: Schertz State: Texas	Zip 78154				tewardship	Services	LLC
Phone: 210-388-8728	ZIP_10104	Address:					
Property Location:	· · · · · · · · · · · · · · · · · · ·	City:			Texas	Zip:	78006
Lot: Block		Phone:					
Sub.: River-L 1A Lower Guadalupe F	Rural	Email			ardshipse	rvices.co	<u>m</u>
Street/Road Address: 8672 River Road	d	Nama:	Installe				
City: New Braunfels State: Texas		Name:					546
Unincorporated Areas V N	V	Company Address:					
Additional information	•	Address:					·
	The second of th	City: New	(240) 660	State:	lexas	Zip:	78132
	·····	Phone:	(210) 669	-6088	Fах:		
Location of soil borings or dug pits (state Location of natural, constructed, or prohigh tide of salt water bodies) water in	ODOSEO Orainada wax	ic latronna	manala I-I				
	SITE DRAW	'ING		Lot Size:		0.975	acres
SEE ATTACHED							
Signature of Site Evaluator	Mit	Als	ite Evalu	ator Lice	ense No_	OS00087	71

ON-SITE SEWAGE FACILITY Soil Evaluation Report Information

Date S	oil Survey f	Performed: _		7/1/20	25			
Site Lo				8672 River				
Name	of Site Eval	uato <u>r:</u>		Hoyt Seide		Pagistration	Newbook	
Propos	ed Excavat	ion Depth:					Number: <u>OS0008771</u>	
	ements:					_ County:	Comal	
	At least tw	o soil excava	tions must be pe	rformed on th	e site, at opposite end	is of the man-	- J. P	
	Location	i son boring c	or aug pits must t	e shown on t	he site drawing.			
	For subsu	rface disposa	l, soil evaluation	must be perfo	ormed to a depth of at	least two feet b	elow the proposed excavation	n
	dopai.	n surface disp	osai, the surface	e horizon mus	it be evaluated.			•
	Describe e	each soil horiz	on and identify a	iny restrictive	feature on the form. In	ndicate depths	where features appear.	
	Soil Borin	g Number _	T	1				
	Depth	Texture		Gravel	Drainage (Redox Features/	Restrictive	Observations (color,	
	(feet)	Class	Soil Structure	Analysis	Water Table)	Horizon	consistence)	- Andrews
	0	11	Sandy loam	<30%	none	none	Brown	
	1				national and a second			
	2		Table and the second se		***************************************	in the second se		
	3		Accessive of the control of the cont					
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	5				Region deliveraciones	And the second s		
	Soil Boring	Number	I	2		- diversity		
	Depth	Texture		Gravel	Drainage (Podey Footsman)	D		
	(feet)	Class	Soil Structure	Analysis	(Redox Features/ Water Table)	Restrictive Horizon	Observations (color, consistence)	
	0	II	Sandy loam	<30%	none	none	Brown	
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Presence	of 100 ves	r flood zone			Features of	Site Area	1	
					Yes x No			
			eams, water imp n nearby area	provements	Yes x No			
			ble to lot or trace	~+	Yes x No			
		hin 150 feet		ы	YesNo_x			
				d in this report	Yes No x	n redicar	accurate to the best of my ability.	
understand	d that any mis	representation	of the information	contained in thi	s report my ha crounds to	revoke as	accurate to the best of my ability. and my license. The site evaluation	
determined	the site is suit		Orip irrigation		disposal system with			on
		-		system. A con		Ae	robic tre erty owner to inform them of	eatmen
other alterna	atives based u	pon the result	of this site evafuati	on	, or rapid All Has been (given to the prop	erty owner to inform them of	
H	ot.	1/1	A-1		@7-7-25	_		
Signatur	e of Site I	-valuator			Date / Ly	>		

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

CME-JOYTEX-PROPALIC

Property Information:		-X-PROPALLC	
		House Information	
St. Address: 8672 River Road		No. of Bedrooms:	see below
City: New Braunfels State:	Texas	Sq. footage (Approx.):	see below
Zip code: <u>78132</u>		Water Supply:	we
Predicted Quantity of Sewage (Q)		Gallons per day	512
Water Saving Devises in Home (y/n):	yes	Supply Line from House	312
Gallons/day (Q):	512	Length of supply line (approx. ft.):	122
Greywater included (yes/no):	yes		The state of the second control of the state of the state of the second
(3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	700	Type of supply line:	SCH 40 PVC
Rate of Adsorption (Ra)		Size of Supply line (in):	3 or 4
-	_		
Application rate (g/sq. ft):	0.25	Supply Line to Drip Irrigation M	anifold
Minimum Adsorptive Area (sq. ft.):	2048	Length of supply line (approx. ft):	280
Absorptive area installed (sq.ft.)	4380	Type of supply line:	
Aerobic Unit	ATTENDED TO THE PROPERTY OF TH	Size of supply and flush line (in):	
Required size of aerobic unit:	1000 gpd	indicate the contract of the c	
Pretreatment Tank (gallons):	639		
Class 1 Aerobic Unit:: NuWater I	B - 1000		
Pump tank total capacity (gal):	1000	Required linear foot of tubing:	1024
Chlorination: n	/a	Linear feet of tubing installed:	2190
Pump Switch operation: Float sys	stem		£100
Dosing cycle quantity (gals):	Varied		
Cycling time: n	ight time		

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Pump size and capacity: Franklin E-Series 20 GPM

Date

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

17-25

Cell (210) 414-6603,

hoyt@landstewardshipservices.com

Effective Immediately: If any change(s) are made that require a revision to this design, a \$150.00 fee will be assessed. This includes,

but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

CME-JOYTEX-PROP A LLC

This design will be for Cabin 1 that is 1758 sq.ft. with 6 beds/people at 60 gallons per person for a total of 360 gpd

This design will be for Cabin 2 that is 1484 sq.ft. with 2 beds/people at 60 gallons per person for a total of 120 gpd

1 outhouse to be used by the guest at 8 people at 4 gallons per person for a total of 32 gpd

Therefore the total flow will be 512 gallons per day

Calculating the wastewater strength for the SFR

Number of people

8

Flow, Q for the SFR

512

BOD5

300.00

mg/ltr

8.34 #/gal

1000000

BOD5

1.281024 Lbs of BOD produced per day

3 Lbs of BOD a1,000 gpd unit reduces

-1.71898 Lbs of BOD to be reduced by

7-25

designed organic loading rate is 42.70 of the manufactures loading rate

Therefore will design for a 1000 gpd aerobic treatment unit

512 gpd

A class 1 aerobic treatment unit will be designed for these structures. Wastewater from the homes will flow to the pretreatment tank of the aerobic unit. From the pretreatment tank, effluent will flow to the treatment unit. Treated effluent will then flow to the pump tank for disposal through subsurface drip irrigation. All warning systems shall be installed with the aerobic unit.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Date

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603.

ON-SITE SEWAGE FACILITY DESIGN CRITERIA CME-JOYTEX-PROP A LLC

Field loading Rates and Distribution

All flow from the treatment compartment of the aerobic unit will flow into a pump tank.

The pump tank will be equipped with a submersible pump. The pump will dose the single zone.

All treated effluent will flow to the pump tank fitted with sensor floats on a float tree.

5 P I control system or equivalent will be utilized to control the floats and timer in the pump tank to include a Omron, H3CR repeat cycle timer or equivalent.

A cyclic counter will be installed in the control system to measure the number of times the pumps come on. A elapsed time meter will be installed in the control system to measure the run time of the pumps. The counter and meter will be used to calculate the volume of effluent being dosed to the drip field. The counter and meter will be read by the maintenance provider when he conducts his inspection.

A Single Franklin E-Series 20 gpm pump 20FE05P4-2W115 or equivalent in the pump tank

A filtering device capable of filtering particles large than 100 microns and that meets the manufactures requirements must be installed on the supply line

A pressure release bypass valve can be installed, by the installer, if desired on the supply line in the pump tank.

A Ball Valve must be installed on the return lines for pressure adjustment.

A pressure gauge must be installed on the return line to allow for monitoring of the pressure in the drip lines.

Ultra Air Release-Vacuum Breaking Valve or equivalent need to be installed in each zone at the highest point of both supply and return manifolds.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker R.S. No. 3588

Date

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603.

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

CME-JOYTEX-PROP A LLC

A Netafim flow meter or equivalent will be installed

on the line from the pump tank to the drip field. It is recommended that the flow meter be read once a week to give the maintenance provider an idea of water usage. The flow meter shall be read by the maintenance provider when he conducts his inspection.

The area of the drip tubing will need to be shaped by the installer. The area will need to be leveled before installing the drip tubing. The drip tubing needs to be installed as level as possible.

Drip lines are to be placed on 2 ft centers and tied into a pressure manifold at one end and a return manifold which is run back to the pump tank for continuous flushing of the drip lines. A pressure gage and control valve on the return line at the pump tank is to be set at 35 psi, which maintains a minimum required pressure of the drip emitters. The drip lines will be flushed continuously when the pump doses the drip field. The drip lines will be continuously flushed.

If the drip lines are laid on top of the native soil and the native soil is scarified then a minimum of 6 inches of class II sandy loam or class III clay loam must be placed over the drip lines.

The drip lines will be laid on two foot centers and parallel with the contour of the land. The drip lines will not be laid perpendicular with the slope. The drip lines will then be covered with a minimum of 6 inches of the material.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Date

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603,

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

CME-JOYTEX-PROP A LLC

Then entire area where the drip lines have been installed or disturbed, must be sodded with a type of vegetative cover or seeded curlex installed or seeded then a curlex blanket laid over the area or an equivalent county approved method of cover that is considered a high water user prior to system operation.

All electrical wiring will conform to the National Electrical Code, according to 30 TAC 285.32(d)(5) and 30 TAC 285.34(c). All electrical components shall have an electrical disconnect in direct vision from the place where the electrical devise is being serviced.

The aerobic treatment unit will be installed inside of the 100 year flood plain and buoyancy calculations are provided.

The installer must install the control panel and the air compressor for the aerobic unit above the established and marked BFE

All tanks must have inspection or cleanout ports located on the tank top over all inlet and outlet devises. Each inspection or cleanout port must be offset to allow for pumping of the tank. The ports may be configured in any manner as long as the smallest dimension of the opening is at least 12 inches, and large enough to provide for maintenance and equipment removal. All inspection and cleanout ports shall have riser over the port openings, which extend to two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Date

-2-25

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603.

ON-SITE SEWAGE FACILITY DESIGN CRITERIA CME-JOYTEX-PROP A LLC

The risers shall have inside diameters which are equal to or larger than the inspection or cleanout ports. Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid, or another means approved by the executive director. Risers and riser caps exposed to sunlight must have ultraviolet light protection. Risers must be able to withstand the pressures created by the surrounding soil.

A maintenance contract for the entire system must be established at time of installation with someone holding a license to maintain the install aerobic system.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

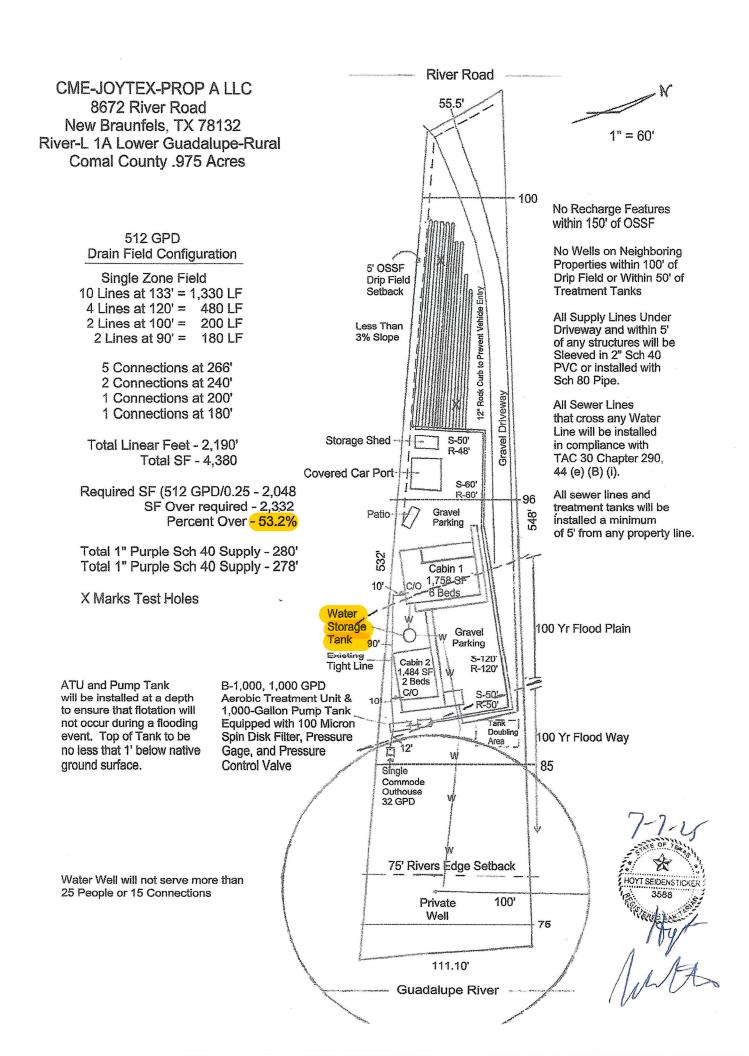
Hoyt Seidensticker, R.S. No. 3588

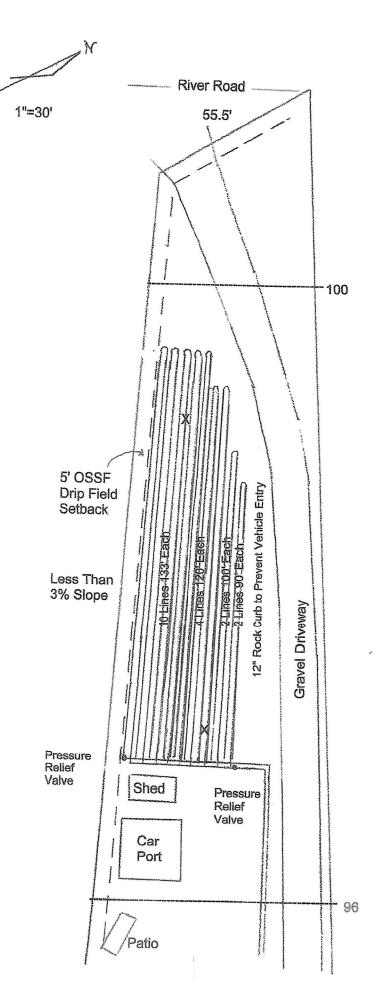
Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006 Cell (210) 414-6603.

CME-JOYTEX-PROP A LLC

	Gallons per Day	512
	Application Rate (gal/sq. ft/day)	0.25
	Square footage required	2048
	Feet between Lines	
	Feet between emitters	2
	Number of zones	2
	Linear feet of dripline	1
	Number of emitters	2190
	Linear Feet of Tubing Per Zone	1095
	Type of emitters	Proceure company ties
	Determine drip field pressure (psi)	Pressure compensating
	Feet of head pressure	35
	gph/emitter	80.85 0.61
	gallons per minute per Zone	11.1
	gallons per hour	667.95
	minutes per dose	7
	Minutes Per Day Per Zone	46
	gallons per day	512
	Doses per Zone	7
	Total Doses per Day	7
	Time Between Doses in Hours	3.4
	Total Run time in Minutes	45.99146643
	Number of Connections to Manifold	5
	Linear feet of dripline per connection	438
	minimum pump capacity (gpm)	11.1
	header pipe size (inches)	1
	Pressure loss in 100 ft. pipe (psi)	1.58
	Friction head in 100 ft. of pipe (ft of head)	3.6498
Static head		
	height from pump to top of tank (ft.)	4
	Elevation increase (ft.)	5
	Total static head (ft.)	9
Friction head		
	equivalent length of fittings (ft.)	1
	Distance from pump to field (ft.)	280
	Total equivalent length of pipe (ft.)	281
	total effective head (ft.)	10.26
	head required at drip field (ft.)	80.85
	Head loss through filters or headworks (ft.)	23.10
	head loss through valves (ft.)	3.47
	Minimum total head (ft.)	117.67

HOYT SEIDENSTICKER
3588





CME-JOYTEX-PROP A LLC 8672 River Road New Braunfels, TX 78132 River-L 1A Lower Guadalupe-Rural Comal County .975 Acres

512 GPD Drain Field Configuration

Single Zone Field 10 Lines at 133' = 1,330 LF 4 Lines at 120' = 480 LF 2 Lines at 100' = 200 LF 2 Lines at 90' =

5 Connections at 266'

180 LF

2 Connections at 240'

1 Connections at 200'

1 Connections at 180'

Total Linear Feet - 2,190' Total SF - 4,380

Required SF (512 GPD/0.25 - 2,048 SF Over required - 2,332 Percent Over - 53.2%

Total 1" Purple Sch 40 Supply - 280' Total 1" Purple Sch 40 Supply - 278'

X Marks Test Holes

No Wells on Neighboring Properties within 100' of Drip Field or Within 50' of **Treatment Tanks**

No Recharge Features within 150' of OSSF



Specs

Aerobic with Drip irrigation Distribution system CME-Joytex-Prop A LLC

River-L 1A Lower Guadalupe-rural, .975 acres

8672 River Road

New Braunfels, Texas 78132 Comal County

Effective September 1, 2023, inspection and cleanout ports shall have risers over the port opening, which extend to two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

100 yr flood plain does exist on this tract

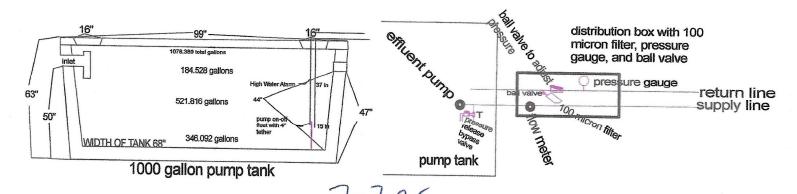
The risers shall have inside diameters which are equal to or lager than the inspection or clean out ports. Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid, or any other means approved by the executive director. Risers and riser caps exposed to sunlight must have ultraviolet light protection. Risers must be able to withstand the pressures created by the surrounding soil.

vacuum relief valves must be installed in each zone at the highest point of the supply line and return manifolds

The referenced property is located within the Edwards Aquifer Contributing Zone. This property is exempt from a contributing zone plan because it is not a regulated activity according to Chapter 213.5(h)(2) "exempt ... Does not exceed 20% impervious cover on the site."

There is no recharge feature within 150' of the proposed septic system.

All pipes from the structures to the septic tank shall be no less than 1/4 inch fall per foot of pipe



All external electrical lines must be in gray conduit

The area will need to be leveled before installing the drip tubing. the drip tubing needs to be installed as level as possible.

Where ANY water line crosses sewer line, water line must be sleeved in a minimum of sch 40 pvc, 10 feet on either side of the intersection and must maintain a 1' separation distance at the intersection and I certify that this meets the requirements of TAC Chapter 290, Subchapter D fulles for Public Drinking Water Systems, Rule 290.44

ground level

see design criteria for drip field installation specs

drip tubing laid on 2 foot centers

Where ANY sewer line crosses driveway or sidewalk the sewer line must be either sleeved in a minimum of sch 40 pvc or installed sch 80 pvc.

native soil

Cross Section of Drip Irrigation single connection

6"

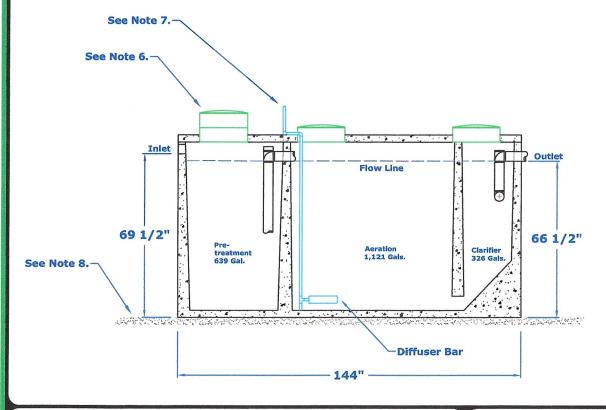


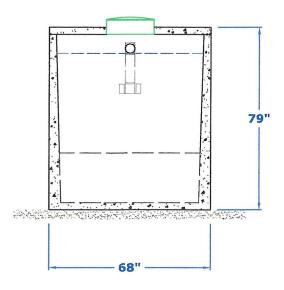
MINIMUM EXCAVATION DIMENSIONS:

Width: 80" Length: 156"

GENERAL NOTES:

- 1. Plant structure material to be precast concrete and steel.
- 2. Maximum burial depth is 30" from slab top to grade.
- 3. Weight = 16,600 lbs.
- 4. Treatment capacity is 1,000 GPD.
- 5. BOD Loading = 3.00 lbs. per day.
- 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
- 7. 1" Sch. 40 PVC Air Line to Bio-Robic B-1000 Air Compressor (Max. 50 Lft from Plant).
- 8. 4" min. compacted sand or gravel pad by Contractor





NuWater B-1000 Aerobic Treatment Plant (Assembled)

Model: B-1000

July, 2012 By: A.S.

Scale:

 * All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B1000-2



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

NU WATER

B-1000

Flotation Calculations

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B-1000 & B-1000NR

Description: NuWater 1000 GPD Aerobic Treatment & Nitrogen Reduction Units

Given

Weight of Structure w/ Slab Top:

17,570 lbs.

Weight of Water:

62.4 pcf

Weight of Soil:

110 pcf

Volume of Structure at Flow Line:

Pretreatment Compartment = 639 gal. Aeration Compartment = 1,121 gal. Clarifier Compartment = 326 gal.

- A. Weight of unit at operating condition "Down Forces":
 - I. Structure Weight w/ Liquid:

Unit weight + (total volume/7.48 gals/cu ft)62.4 lb/ft3

17,570 lbs + (2,086 / 7.48)x62.4

= 34,980 ibs.

II. Weight of soil: (2" overburden)

(L x W x H)110 pcf

III. Total Weight:

(12.167'x5.833x2/12) x 110 lb/ft³ = 1,303 lbs. Structure weight w/ Liquid + Total Soil Weight

34,980 lb + 1,303 lb = 35,110 lbs.

B. Weight of water displacement "Up Forces":

(LxWxH)x62.4

(at 81" depth of bury)

(12.167'x5.833'x6.75')x62.4 lb/ft³=

29,893 lbs.

C. Factor of Safety (FS):

Required FS: ≥1

Down Forces/Up Forces 34,980 /29,893 = 1.17

When the FS = 1 the "down forces" will equal the "up force" and the structure will be in equilibrium.

When the FS is less than 1 the "up force" will be greater than the "down forces" and floating willoccur.

X When the FS is greater than 1 the "up force" will be less than the "down forces" and floating will not occur.

Conclusion:

Total unit weight at operating condition "down Forces" of 34.980 lbs. is greater than the weight of water displacement "up forces" 29.893 lbs. therefore the upward forces causing floatation will not control.

Minimum burial depth:

For functional purposes the structure must be buried 2" below grade.

Approved By: _____

Seal:



Ronald L Berg Engineering Services, LLC. Texas Registered Firm No. F-1670

"Providing Concrete Environmental Solutions"

LAND STEWARDSHIP SERVICES, LLC.

124 Bristow Way Boerne, Texas 78006 hoyt@landstewardshipservices.com

November 16, 2021

RE: 1000-gallon dual compartment tank Buoyancy Calculations

1000-gallon dual septic tank

Volume of Tank = H*W*L = 5.5'*5.25'*8.08' = 233 cf.

Upward Buoyancy Force = 233 cf * 8.34 #/gal * 7.48 gal/sf = 14560 lbs

Overburden w/6" soil = L*W*fill height*wt of fill/cf = 8.08**5.5**.5**75 #/cf = 1666.5 lbs

Tank Weight of Tank = 10000 lbs

Downward force = tank & Min. water & overburden = 10000 lbs + (1078 gallons*8.34) + 1666 lbs = 20656 lbs

Downward force > Upward Force 20656 lbs > 14560 lbs

Therefore, tank will not float with min. 6 inches of cover.

If you have any questions, please call me at (210) 414-6603.

Sincerely,

Hoyt Seidensticker, R.S.





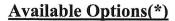
"50A806" Model Simplex 115/230V 1 Phase Time Dosing Panel

Features & Benefits

- Circuit Breaker for Pump Circuit
- Definite Purpose Motor Contactor
- Easy to Access Terminal Block
- Usable with 115/230 VAC 1PH Power
- Alarm Silence & On-Off-Test Switches
- Externally Mounted Audible Alarm
- Pump Hand-Off-Auto Switch
- Pump Running Light
- Repeat Cycle Timer
- Large External Alarm Light
- Control Circuit Fuse Protection
- Ground Lugs
- Color Coded Internal Wiring
- Rugged Weather Resistant Hinged Poly Enclosure w/Sst Latches
- Built and Labeled to UL 508A Standard w/Nema 4x Rating
- Provided with Wiring Schematic and Detailed Connection Diagram for Installer
- Mounting Feet for Enclosure

PUMP AARW RUNNING SILENCE MAND OFF DEST BEST DEST DEST BEST DEST DEST BEST DEST BEST DEST DEST DEST BEST DEST DEST D

(Standard 50A806 Model Shown)



- Fiberglass Enclosure
- IEC Motor Contactor
- Flasher
- Dead Front Inner Door
- Auxiliary Alarm Contacts
- Elapsed Timer Meters
- Event or Cycle Counters
- Mercury or Mechanical Float Switches for the Pumps and High Water Alarm Circuits

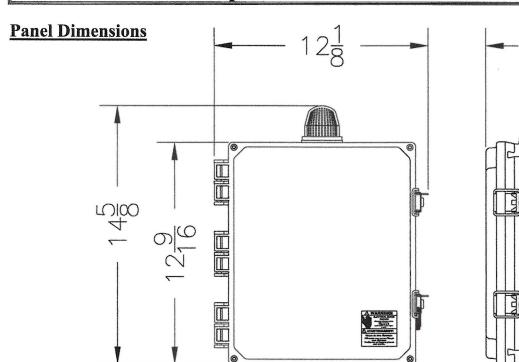


^{*}Note: Consult the factory for other available options. Also, some options may require an increase in the enclosure size.

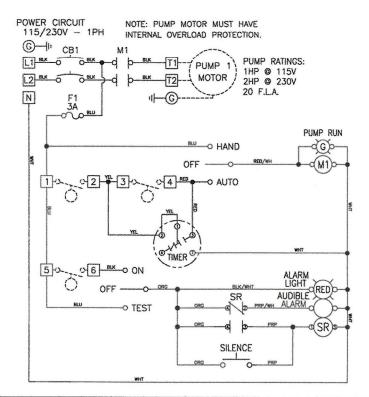




"50A806" Model Simplex 115/230V 1 Phase Time Dosing Panel







EFFLUENT PUMPS





WE SERIES - 1/2 HP

APPLICATIONS

High head filter effluent, filtered effluent service, aeration, ornamental fountains, water fountains

FEATURES

- Franklin Electric submersible motor
- Heavy-duty, 300 V, 10 ft (3 m) SJOW motor stripped leads
- Removable built-in check valve
- Non-corrosive thermoplastic discharge and motor brackets
- Proven "PPO" staging allows close tolerances and increased performance
- High quality top bearing for maximum durability and years of reliable service
- Hex rubber bearing has extra-large surface for shaft stability and multiple flow channels for keeping particles away from bearing surfaces
- Stainless steel up thrust washer prevents excessive wear in service applications
- cCSAus listed



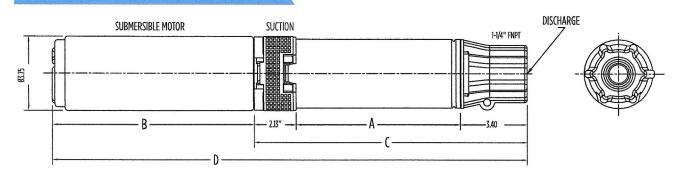
SERIES SPECIFICATIONS

item No	Model	НР	Volts	Hz				Wires Well Size	Well Core		Performance	e (GPM @ H	eight in Fee	t)
Rentivo	Model	ПF	VOILS	l ITZ	FLA	Start			Well Size	50'	. 100'	150'	200'	250′
558221	WE10G05P4-21	1/2	115	60	10	64.4	670	2	4"	15	13	10	7	2
558222	WE10G05P4-22	1/2	230	60	5	23.2	670	2	4"	15	13	10	7	2
558223	WE20G05P4-21	1/2	115	60	10	64.4	670	2	4"	26	20	8	-	-
558224	WE20G05P4-22	1/2	230	60	5	23.2	670	2	4"	26	20	8	-	-
558225	WE30G05P4-21	1/2	115	60	10	64.4	670	2	4"	32	14	-	-	-
558226	WE30G05P4-22	1/2	230	60	5	23.2	670	2	4"	32	14	-	-	-

EFFLUENT PUMPS

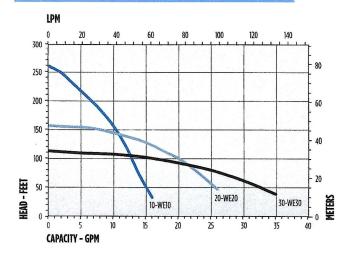
WE SERIES - 1/2 HP

ENGINEERING DATA



Model	A	В	C	D
2-Wire 10 gpm	7"	9.38"	12.53"	21.91"
	17.78 cm	23.83 cm	31.83 cm	55.65 cm
2-Wire 20 gpm	9"	9.38"	14.53"	23.91"
	22.86 cm	23.83 cm	36.91 cm	60.73 cm
2-Wire 30 gpm	6.5"	9.38"	12.03"	21.41"
	16.51 cm	23.83 cm	30,56 cm	54.38 cm

PERFORMANCE DATA

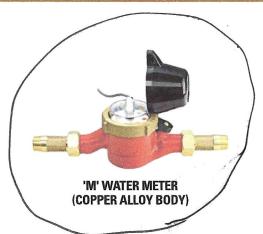


CONSTRUCTION

Motor Housing	Stainless steel			
Impeller Material	Celcon			
Diffuser	Glass-filled PPO			
Power Cord	10' SJOW			
Check Valve	Celcon			
Fasteners	Stainless steel			
Shaft	Stainless steel			
Bearings PEEK				
Discharge	Glass-filled polypropylene			



INDUSTRY'S SMALLEST WATER METERS WITH THE BEST PERFORMANCE





'M' WATER METER (PLASTIC BODY)



'WMR' WATER METER (CAST IRON BODY)

APPLICATIONS

For main supply lines in agriculture and landscape applications

SPECIFICATIONS - 'M' WATER METERS

- Iron Body Sizes: 3/4", 1" and 1 1/2"
- Plastic Body Sizes: 3/4" and 1"
- Maximum Working Pressure: 140 psi
- Maximum Liquid Temperature: 122° F
- Body Material: Corrosion Proof Copper Alloy or Polypropylene (plastic)
- Connections: Male Pipe Thread
- Register Options: Reed Switch, Photo Diode or ER Digital
- Reed Switch Register Pulse Outputs: 0.1 or 1.0
- Photo Diode Register Pulse Outputs: 0.0015, 0.0021 or 0.0074
- ER Digital Register Pulse Outputs:
 Gallons .1, 1, 10, 100, 1000
 Acre Feet .0001, .001, .01, .1
- Straight Pipe Installation Requirement: None

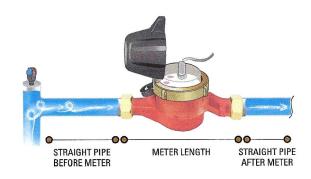
SPECIFICATIONS - 'WMR' WATER METER

- Size: 2"
- Maximum Working Pressure: 230 psi
- Maximum Liquid Temperature: 131° F
- Body Material: Cast Iron with Polyester Coating
- Connections: Male Pipe Thread
- Register Options: Reed Switch, Photo Diode or ER Digital
- Reed Switch Register Pulse Outputs: 10 or 3.26
- Photo Diode Register Pulse Outputs: 1.0 or 0.055
- ER Digital Register Pulse Outputs: Gallons - .1, 1, 10, 100, 1000
 Acre Feet - .0001, .001, .01, .1
- Straight Pipe Installation Requirement: 10 x D upstream and 5 x D downstream (D=meter size)

PRODUCT ADVANTAGES

- Industry's smallest water meters provide ± 2% accuracy over a wide range of flows.
- Magnetically driven sealed register are stainless steel encapsulated and guaranteed not to accumulate moisture or fog.
- 'M' Water Meters utilize the multi-jet principle assuring an equally distributed load on the impeller minimizing wear and maintaining accuracy.
- 'M' Water Meters have only one moving part, the impeller, is in contact with the water for minimum wear and the utmost reliability.
- 'WMR' Water Meters contain an in-line axial turbine which allows foreign matter to pass through the meter without clogging.
- Wide clearances in the measuring chamber provide full pipe flow measurements and high reliability.

STRAIG	HT PIPE INS	STALLATION RI	EQUIREM	ENT
METER SIZE	UPSTREAM DISTANCE	DOWNSTREAM DISTANCE	METER LENGTH	TOTAL REQUIREMENT
'M' WATER	R METERS - 0 D	X O D		
3/4"	0"	0"	11 1/4"	11 1/14"
1"	0"	0"	14 3/4"	14 3/4"
1 1/2"	0"	0"	17 1/4"	17 1/4"
'WMR' WA	TER METER - 10	D X 5 D		
2"	20"	10"	14"	44"



INSTALLATION REQUIREMENTS

'M' WATER METERS

- Dial face must be horizontal
- There are no straight pipe installation requirements
- Prior to installation of the meter, the pipeline should be thoroughly flushed
- Meter must be installed so that the pipe will be full of water at all times during metering
- To eliminate air in the system, continuous acting air vents of proper size and type are required

INSTALLATION REQUIREMENTS

'WMR' WATER METER

- The meter may be installed in any position for non-horizontal positions, the flow should be upwards
- Straight pipe installation requirement of 10 x diameter pipe upstream (before the meter) and 5 x diameter pipe downstream (after the meter)
- Prior to installation of the meter, the pipeline should be thoroughly flushed
- Meter must be installed so that the pipe will be full of water at all times during metering
- To eliminate air in the system, continuous acting air vents of proper size and type are required

REED SWITCH	REED SWITCH REGISTERS							
METER SIZE	REGISTER TOTALIZER	VOLUME UNIT	PULSE OUTPUT (GALS/PULSE)	POINTER 1	DINTER RESOLUTION POINTER 2	ON POINTER 3		
3/4" 'M'	GALLON	GALLON x 10	0.1	x 0.01 GALLON	x 0.1 GALLON	x 1.0 GALLON		
3/4", 1" & 1 1/2" 'M'	GALLON	GALLON x 100	1.0	x 0.10 GALLON	x 1.0 GALLON	x 10 GALLON		
2" 'WMR'	GALLON	GALLON x 1,000	10	x 1.0 GALLON	x 10 GALLON	x 100 GALLON		
2" 'WMR'	ACRE FEET	ACRE FEET x 1.000	3.26	x 0.000001	x 0.00001	x 0.0001		



PHOTO	PHOTO DIODE REGISTERS						
METER SIZE	REGISTER TOTALIZER	VOLUME UNIT	FLOW RATE UNITS	POINTER 1	INTER RESOLUTIO POINTER 2	N POINTER 3	
3/4" 'M'	GALLON	GALLON x 10	0.0015	x 0.01 GALLON	x 0.1 GALLON	x 1.0 GALLON	
1" 'M'	GALLON	GALLON x 100	0.0021	x 0.1 GALLON	x 1.0 GALLON	x 10 GALLON	
1 1/2" 'M'	GALLON	GALLON x 100	0.0074	x 0.1 GALLON	x 1.0 GALLON	x 10 GALLON	
2" 'WMR'	GALLON	GALLON x 1,000	1.0	x 1.0 GALLON	x 10 GALLON	x 100 GALLON	
2" 'WMR'	GALLON	GALLON x 1,000	0.055	x 1.0 GALLON	x 10 GALLON	x 100 GALLON	

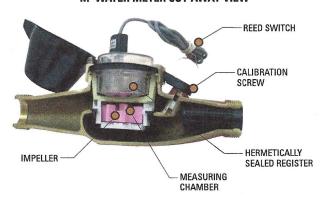


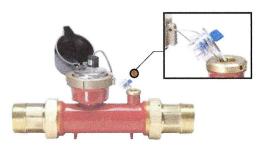
ELECTRONIC (ER) DIGITAL REGISTERS						
METER Size	REGISTER TOTALIZER	PULSE OUTPUT (GALS/PULSE)	FLOW RATE UNITS			
3/4", 1", 1 1/2" 'M'	GALLON	.1, 1, 10, 100, 1000	GPM			
3/4", 1", 1 1/2" 'M'	ACRE FEET	.0001, .001, .01, .1	GPM			
2" 'WMR'	GALLON	.1, 1, 10, 100, 1000	GPM			
2" 'WMR'	ACRE FEET	.0001, .001, .01, .1	GPM			





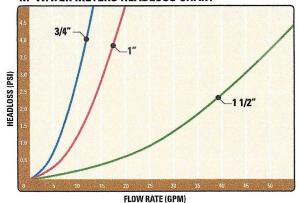
'M' WATER METER CUT-AWAY VIEW

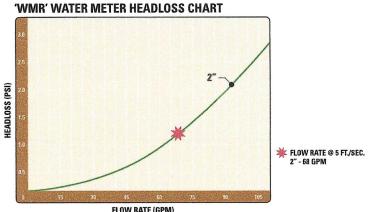




'WMR' METER TAMPER PROOF SEAL ENSURES UNAUTHORIZED REMOVAL AND/OR TAMPERING OF THE METER REGISTER

'M' WATER METERS HEADLOSS CHART

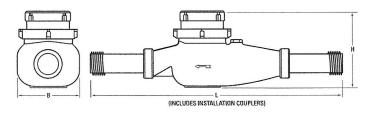




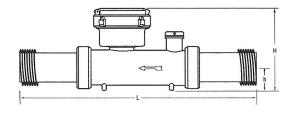
FLOW	RATE	(GPM)
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PERFOR	MANCE DATA			
METER SIZE	LOWEST FLOW RATE +/- 5% ACCURACY	LOWEST FLOW RATE +/- 2% ACCURACY	NOMINAL FLOW RATE +/- 2% ACCURACY	MAXIMUM FLOW RATE +/- 2% ACCURACY
3/4" 'M'	0.2 GPM	0.9 GPM	11 GPM	14 GPM
1" 'M'	0.3 GPM	1.2 GPM	15.4 GPM	20 GPM
1 1/2" 'M'	0.9 GPM	3.5 GPM	44 GPM	55 GPM
2" 'WMR'	2.0 GPM	8.8 GPM	88 GPM	110 GPM

'M' WATER METERS



'WMR' WATER METER



DIMENS	IONS & V	VEIGHT				
METER SIZE	H Height	h HEIGHT	L LENGTH	B WIDTH	WEIGHT PLASTIC	WEIGHT IRON
3/4" 'M'	4 1/4"	-	11 1/4"	3 3/4"	3.5 LBS.	4.4 LBS.
1" 'M'	4 1/4"	-	14 3/4"	4 1/4"	4.8 LBS.	6.1 LBS.
1 1/2" 'M'	6 3/4"	_	17 1/4"	15"	-	15 LBS.
2" 'WMR'	4 3/4"	1 1/2"	14"		-	11 LBS.

ORDERING I	NFORMATION - RE	ED SWITC	H AND PHO	OTO DIODE REGISTERS	
ITEM NUMBER	MODEL Number	METER Size	BODY MATERIAL	REGISTER Type	GALLONS PER PULSE
70261-002446	36M201TP.1			REED SWITCH/GALLON	0.1
70261-002472	36M201TP1	3/4" 'M'	PLASTIC	REED SWITCH/GALLON	1.0
70261-002473	36M201TP.0015			PHOTO DIODE	0.0015
70261-002715	36M251TP		100 State Annie Company Annie Company (112 Marie Annie Company Annie Company (112 Marie Annie Company Annie Company (112 Marie Annie Company (112	REED SWITCH/GALLON	1.0
70261-002727	36M251TP.0021	1" 'M'	PLASTIC	PHOTO DIODE	0.0021
70261-002445	36M201T.1		to the State Control of the St	REED SWITCH/GALLON	0.1
70261-002450	36M201T	3/4" 'M'	COPPER	REED SWITCH/GALLON	1.0
70261-002447	36M201T.0015		ALLOY	PHOTO DIODE	0.0015
70261-002720	36M251T	1" 'M'	COPPER	REED SWITCH/GALLON	1.0
70261-002725	36M251T.0021	1 101	ALLOY	PHOTO DIODE	0.0021
70261-003230	36M401.5T	1 1/2" 'M'	COPPER	REED SWITCH/GALLON	1.0
70261-003240	36M401.5T.0074	1 1/2 101	ALLOY	PHOTO DIODE	0.0074
70261-005060	36WMR2T10		Printer plant Mary (1978) and an individual and	REED SWITCH/GALLON	10
70261-004900	36WMR2T10-AF	2" 'WMR'	CAST	REED SWITCH/ACRE FEET	3.26
70261-005050	36WMR2T1	Z VVIVIN	IRON	PHOTO DIODE	1.0
70261-005010	36WIMR2T.055			PHOTO DIODE	0.055



PLASTIC 'M'
WATER METERS



COPPER ALLOY 'M'
WATER METERS



CAST IRON 'WMR'
WATER METER

ORDERING INFORMATION - ER DIGITAL REGISTERS

,	36 MODEL	SIZE REGI	ISTER VOLUM	AE FLOW R	ATE OUTPUT 1 OUTPUT 2	DIRECTION
MODEL	SIZE	REGISTER	VOLUME	FLOW RATE	OUTPUT 1 AND OUTPUT 2*	FLOW DIRECTION
M	201TP = 3/4" P	ER = ER DIGITAL	1 = GALLONS	1 = GPM	A = NO OUTPUT	F = FORWARD
WMR	251TP = 1"P	REGISTER	2 = ACRE FEET		C = .1 GALLON PER PULSE	R = REVERSE
	201T = 3/4" CA	EM = ER DIGITAL			D = 1 GALLON PER PULSE	A = ALTERNATING
	251T = 1" CA	REGISTER W/OUTPUT			E = 10 GALLONS PER PULSE	N = NET
	401.5T = 1 1/2" CA	MODULE			F = 100 GALLONS PER PULSE	BETTER BE
	2T = 2" IRON				G = 1000 GALLONS PER PULSE	
	M 3/4" - 1 1/2" Sizes only	,			H = 0.0001 ACRE FT. PER PULSE	
	WMR 2" Size only P = Plastic body				I = 0.001 ACRE FT. PER PULSE	
	CA = Copper Alloy body				J = 0.01 ACRE FT. PER PULSE	
ODDEDING	2 51/44451 5				K = 0.1 ACRE FT. PER PULSE	
ORDERING	3 EXAMPLE.					

ORDERING EXAMPLE:

36WMR2TER11EEF

2" WMR Series Water Meter, ER Register, Volume in Gallons, Flow Rate in Gallons per Minute, Pulse Output 1 is 10 Gallons per Pulse, Pulse Output 2 is 10 Gallons per Pulse, Forward Flow Direction

* Pulse rate is based on volume units. If volume is in Acre Feet and Option D is chosen for Output 1 or 2, it will result in 1 pulse every acre foot of water that passes through the meter. To convert Acre Feet to Gallons per Pulse, multiply by 325,850.

INDUSTRY'S LONGEST WARRANTY

Netafim stands behind our water meters with an unprecedented warranty - the industry's longest - three (3) years on the metering components (register and metering assembly) and five (5) years on the meter body.

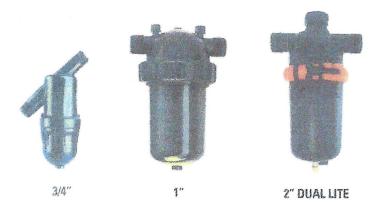


NETAFIM USA 5470 E. HOME AVE. FRESNO, CA 93727 CS 888 638 2346 www.netafimusa.com



MANUAL DISC FILTERS

RELIABLE, EFFICIENT PLASTIC DISCS CREATE SUPERIOR FILTRATION



PRODUCT ADVANTAGES

- Highly effective multiple disc ring design captures and holds more debris.
- Greater holding capacity of the rings vs. screen filters mean less frequent cleaning.
- Rings are easily removed for fast cleaning without the need for scrubbing.
- Color-coded disc rings make identification of mesh rating fast and easy.

APPLICATIONS

- Primary irrigation filter for relatively clean or average water quality
- Protection of irrigation systems from clogging and/or abrasion



MESH	MICRON	DISC COLOR
040	400	Blue
080	200	Yellow
120	130	Red
140	115	Black
200	55	Green

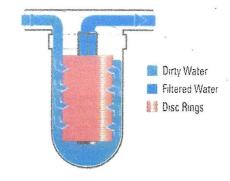
Substitute *** in Model Number for proper mesh

THE FILTERING PROCESS

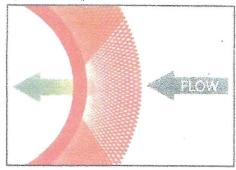
Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings crisscross, forming a three dimensional network that traps particles. The number of crisscrossed intersection points on each groove varies, depending on filtration grade. The turbulence in the varying paths and the large number of intersections create an environment where particles are eventually trapped.

This design filters the dirty water thoroughly, not only on the outer surface of the cylindrical disc filter, but through the entire depth of every ring's grooves. The result is a larger, more efficient filtering area (when compared to screen filters) with more debris being captured and cleaner water exiting from the filter.



Top view of also ring



MANUAL DISC FILTERS



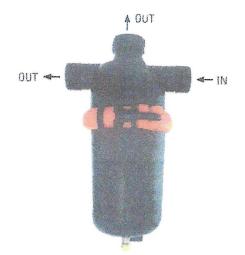
3/4" FILTER	?
FLOW RANGE	1 - 12 GPM
MAXIMUM PRESSURE	140 p.si
FILTERING SURFACE AREA	25 sq. in.
FILTERING VOLUME	5.8 cu, in.
LENGTH	5 22/32"
MOTH	7 15/32"
WEIGHT	.66 lbs.
DISTANCE BETWEEN ENDS	6″
INLET/OUTLET DIAMETER	3/4" (Male
MODEL NUMBER	25A45-***
THE WASHINGTON TO STREET AND THE PROPERTY OF THE PARTY OF	will be a few more agreement and the common and the



FLOW RANGE	5 - 26 GPN
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	49 sq. m.
FILTERING VOLUME	27 cu. in.
LENGTH	9 11/32"
WIDTH	6 7/32"
WEIGHT	2.2 lbs.
DISTANCE BETWEEN ENDS	6 7/32"
INLET/OUTLET DIAMETER	1" Male
MODEL NUMBER	25A47-***



1" SUPER FIL	TER
FLOW RANGE	10 - 35 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	36 cu. in.
LENGTH	13 13/32"
WIDTH	67/32"
WEIGHT	3.11 lbs.
DISTANCE BETWEEN ENDS	67/32"
INLET/OUTLET DIAMETER	1" Male
MODEL NUMBER	25A48-***



FLOW RANGE	40 - 110 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	147 sq. in.
FILTERING VOLUME	75.7 cu. in.
LENGTH	16 5/16"
WIDTH	10 1/4"
WEIGHT	6.6 lbs.
DISTANCE BETWEEN ENDS	10 1/4"
INLET/OUTLET DIAMETER	2" Male
MODEL NUMBER	25A2DL-***



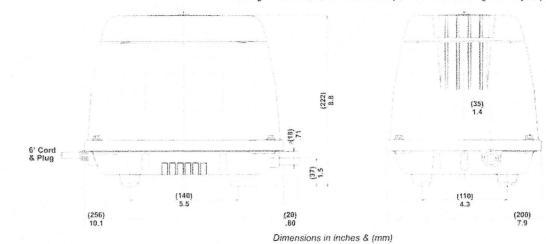
FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	294.5 sq. in.
FILTERING VOLUME	174 cu. in.
LENGTH	28 3/4"
WIDTH	9 14/32"
WEIGHT	17 lbs.
DISTANCE BETWEEN ENDS	12 19/32"
INLET/OUTLET DIAMETER	3" Flanged
MODEL NUMBER	25A3TL-***F

HP Series Linear Pumps Models HP100 (120,)150 and 200

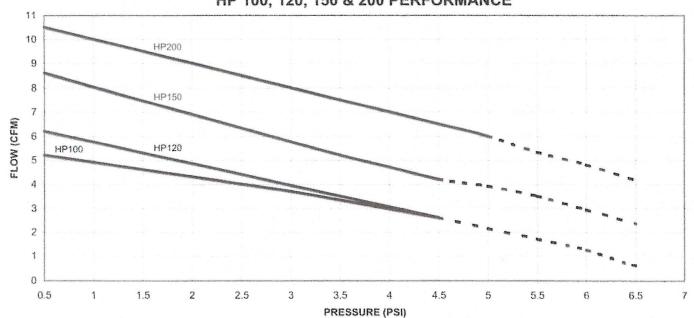


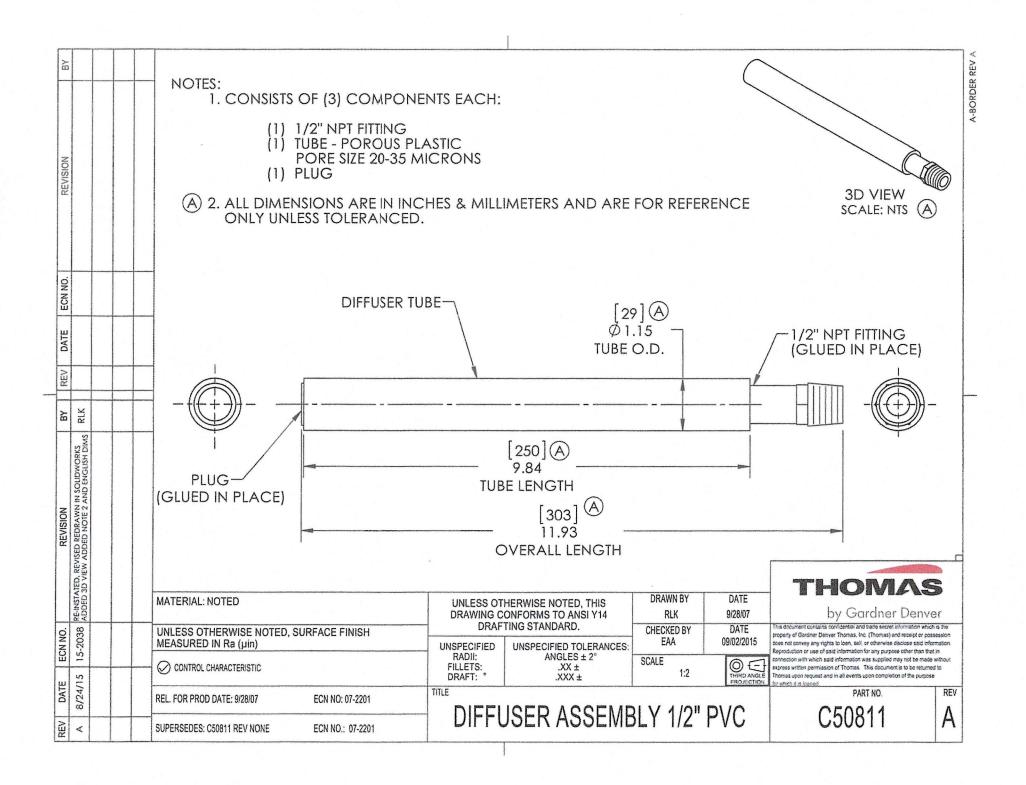
Model Number	HP100-0110	HP120-0110	HP150-0110	HP200-0110	
Voltage (Vac)	120	120	120	120	
Frequency (Hz)	60	60	60	60	
Max. Cont. Pressure (psig)	4.5	4.5	4.5	5	
Max. Inter. Pressure (psig)	6.5	7.5	6.5	6.5	
Open Flow (c.f.m.)	5.2	6.1	8.6	10.5	
Power Consumption (amps)	1.2	2.1	2.1	3.4	
Sound Level (dBA@3 ft.)	38	40	48	47	
Weight (lbs.)	19	19	20	20	
Service Kit # Chambr. Blck.	120PC20011	120PC20011	200PC20011	200PC20011	

Performance data noted is representative of typical values. Specifications and performance data are subject to change without notice. Purchaser is responsible for determining suitability for product applications.



HP 100, 120, 150 & 200 PERFORMANCE







BIOLINE® DRIPLINE

THE WORLD'S MOST ADVANCED CONTINUOUS
SELF-CLEANING, PRESSURE COMPENSATING DRIPLINE
SPECIFICALLY DESIGNED FOR WASTEWATER

CROSS SECTION OF BIOLINE DRIPLINE

Bioline dripper inlets are positioned in the center of flow where water is the cleanest





PRODUCT ADVANTAGES

- Pressure compensation all drippers deliver equal flow, even on sloped or rolling terrain.
- Unique flow path Turbonet technology provides more control of water and a high resistance to clogging.
- Continuous self-flushing dripper design flushes debris, as it is detected - throughout operation, not just at the beginning or end of a cycle. Ensures uninterrupted dripper operation.
- · Single hole dripper outlet from tubing:
 - Better protection against root intrusion
 - Allows the dripline to be used in subsurface applications without need for chemical protection
- Drippers capture water flow from the center of the tubing ensures that only the cleanest flow enters the dripper.
- Built-in physical root barrier drippers are protected from root intrusion without the need for chemical protection. Water exits dripper in one location while exiting the tubing in another.
- Three dripper flow rates provides the broadest range of flow rates available. Allows the designer to match the dripline to any soil or slope condition.
- Bioline tubing is completely wrapped in purple easily identifying it for non-potable use, regardless of how the tubing is installed.
- Anti-bacterial-impregnated drippers prevents buildup of microbial slime
- Can be used subsurface Bioline can be installed on-surface, under cover or subsurface.
- No special storage requirements does not degrade if stored outdoors.

APPLICATIONS

- Typically installed following a treatment process
- Can be used with domestic septic tank effluent with proper design, filtration and operation
- Reuse applications including municipally treated effluent designated for irrigation and other disinfected and non-disinfected water sources.

SPECIFICATIONS

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Dripper spacings: 12", 18" or 24" dripper spacings and blank tubing
- Pressure compensation range: 7 to 58 psi
- Maximum recommended system pressure: 58 psi
- Tubing diameter: 0.66" OD, 0.56" ID
- Tubing color: Purple color indicates nonpotable
- Coil lengths: 500' or 1,000' (Blank tubing in 250')
- · Recommended filtration: 120 mesh
- Bending radius: 7"
- UV resistant
- Tubing material: Linear low-density polyethylene

Additional spacing and pipe sizes available by special order. Please contact Netafim USA Customer Service for details.

BIOLINE DRIPLINE

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 3.0 fps Flush velocity ADDITIONAL FLOW OF 2.3 GPM REQUIRED PER LATERAL TO ACHIEVE 3 fps DRIPPER FLOW RATE (GPH) 0.4 GPH 0.5 GPH 0.9 GPH 0.4 GPH 0.5 GP 102 94 84 136 127 113 161 151 137 203 151 136 118 184 161 245 223 197 260 315 35 193 171 146 232 200 283 245 347 311 211 186 158 286 254 218 267 45 228 200 169 310 274 233 377 335 287 Flow per 100' (GPM / GPH) 0.67/40 1.02/61 1.53/92 0.44/26.67 0.68/41 1.02/61 0.34/20 0.51/31 0.77/46

Lateral lengths are based on flows allowing for a 3 fps flushing/scouring velocity

MA	KIMUM LENGTH OF A	SINGLE L	ATERAL	WITH 2.5	tps FLUSt	1 VELOCI	TY			
ADD	ITIONAL FLOW OF 2.0	GPM REC	QUIRED F	PER LATER	RAL TO A	CHIEVE 2	.5 fps			
	DRIPPER SPACING		12"			18"			24"	
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
ш	15	128	115	100	172	155	136	205	187	165
PRESSURE	25	183	161	137	248	220	188	301	268	231
PRES	35	228	198	166	310	272	229	379	333	283
INLET	40	248	214	178	338	295	247	413	362	305
2	45	266	229	190	364	316	263	447	389	327
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 2.5 fps flushing/scouring velocity

-	CIMUM LENGTH OF A DITIONAL FLOW OF 1.6	section over the other two	Street, Square, or other Designation of the local division in which the local division is not to the local division in the local div	PARTY PROPERTY.	THE PERSON NAMED IN	AND DESCRIPTION OF THE PERSON NAMED IN	the professional state of			
	ORIPPER SPACING		12"			18"			24"	
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
ш	15	161	141	119	217	191	164	263	233	201
SUR	25	221	190	157	302	261	218	369	321	270
PRESSURE	35	269	229	187	370	316	260	455	391	324
INLET	40	290	246	200	399	340	278	493	421	347
2	45	310	261	212	427	362	296	527	449	369
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 2 fps flushing/scouring velocity

	DRIPPER SPACING									
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
ш	15	201	171	140	275	235	194	337	289	241
PRESSURE	25	266	222	179	366	308	251	453	383	313
P.E.	35	316	262	210	437	365	295	543	455	369
NET	40	337	280	223	469	391	313	583	487	393
=	45	358	296	235	497	413	331	619	517	415
Flow	per 100' (GPM / GPH)	0.67/40	1,02/61	1,53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 1.5 fps flushing/scouring velocity

Secretary.	IMUM LENGTH OF A	A CONTRACTOR OF THE PARTY OF	STATE OF THE PARTY.	THE RESERVE AND ADDRESS.	Street, or other Designation of the last		and the second second			
tourinances	ITIONAL FLOW OF 0.8	GPM REC	ALCOHOLD STORY	PER LATER	RAL TO AC	NAME OF TAXABLE PARTY.	.0 fps			
Later and the	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	18" 0.6 GPH	0.9 GPH	0.4 GPH	24" 0.6 GPH	0.9 GPH
ш	15	248	205	163	344	285	228	427	355	285
PRESSURE	25	315	258	203	440	361	286	549	453	359
PRES	35	367	299	234	513	419	331	643	527	417
INLET	40	389	316	248	545	445	350	683	559	441
2	45	409	332	260	574	468	367	721	589	463
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0,77/46

Lateral lengths are based on flows allowing for a 1 fps flushing/scouring velocity

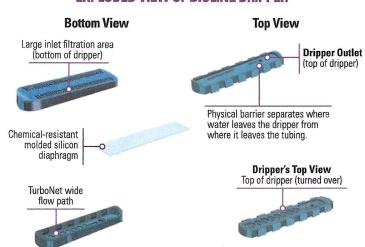
The Real Property lies	IMUM LENGTH OF A	The second second	The state of the last of	ALCOHOLD STATE	A STREET, SQUARE,	NAME AND ADDRESS OF THE OWNER, OR OTHER DESIGNATION OF THE OWNER, WHEN PERSON OF THE OWNER, WHEN	STATE OF THE PARTY OF			
areato contact	DRIPPER SPACING	or write	12"		U LE TOTAL	18"	io ipo		24"	
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
ш	15	301	242	188	422	341	265	531	429	335
SUR	25	369	296	228	520	418	323	655	527	409
PRESSURE	35	421	337	260	595	476	368	749	603	467
INLET	40	443	354	273	626	501	387	790	635	491
2	45	464	371	285	656	524	404	829	665	513
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 0.5 fps flushing/scouring velocity

Netafim recommends flushing velocities capable of breaking free any accumulated bioslimes and debris in the piping network.

- Notes: 1. Refer to local regulations for information on flushing velocities that may be written into codes.
 - Netafim does not endorse a specific flushing velocity.
 - 3. Flushing velocities should be determined based on regulations, quality of effluent, and type of flushing control.
 - 4. Using a flushing velocity less than 1 fps does not provide turbulent flow as defined by Reynolds Number.
 - 5. Higher flushing velocities provide more aggressive flushing.

EXPLODED VIEW OF BIOLINE DRIPPER



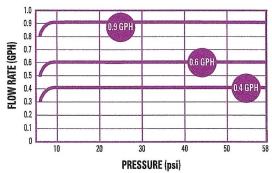
BIOLINE DRIPPER OPERATION

Bioline® drippers are pressure compensating - delivering the water uniformly into the soil for further treatment or for reuse by the landscape. These unique drippers allow the tubing to be installed on flat topography or steep slopes.

Bioline drippers are protected against microbial slime. Each dripper is impregnated with an antimicrobial agent to resist biological build-up.

Netafim drippers are continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, clog-free operation, year after year.

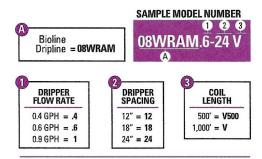
DRIPPER FLOW RATE VS. PRESSURE



Between 0 and 7 psi, the dripper functions as a turbulent flow emitter, ensuring that the nominal design flow is not exceeded at system start-up.

FLOW PER 100 FEET 0.4 GPH DRIPPER 0.6 GPH DRIPPER 0.9 GPH DRIPPER DRIPPER **SPACING GPH GPM GPH GPM GPH GPM** 12" 92.0 40.0 0.67 61.0 1.02 1.53 18" 26.7 0.44 41.0 0.68 61.0 1.02 24" 20.0 0.34 31.0 0.51 46.0 0.77

SPECIFYING INFORMATION



BLANK Tubing Model Number: 250' = 08WRAM-250

ORDERII	NG INFOR		
FLOW RATE	DRIPPER SPACING	COIL LENGTH	MODEL Number
0.4 GPH	12"	1,000' 500'	08WRAM.4-12V 08WRAM.4-12V500
0.4 GPH	18"	1,000' 500'	08WRAM.4-18V 08WRAM.4-18V500
0.4 GPH	24"	1,000' 500'	08WRAM.4-24V 08WRAM.4-24V500
0.6 GPH	12"	1,000' 500'	08WRAM.6-12V 08WRAM.6-12V500
0.6 GPH	18"	1,000' 500'	08WRAM.6-18V 08WRAM.6-18V500
0.6 GPH	24"	1,000' 500'	08WRAM.6-24V 08WRAM.6-24V500
0.9 GPH	12"	1,000' 500'	08WRAM1-12V 08WRAM1-12V500
0.9 GPH	18"	1,000' 500'	08WRAM1-18V 08WRAM1-18V500
0.9 GPH	24"	1,000' 500'	08WRAM1-24V 08WRAM1-24V500
Blank Tub	Blank Tubing 17mm		08WRAM-250

BIOLINE FITTINGS

FITTING APPLICATIONS

Fits Bioline Dripline

FITTING SPECIFICATIONS

- Barbed fittings for a secure fit
- Easy installation without glue or tools
- Allows for easy on-site inspection of proper fitting installation



TLCOUP Insert Coupling



TL050MA 1/2" Male Adapter



TLELL Insert Elbow



TLTEE Insert Tee



TLCROS Insert Cross



TL075MA 34" Male Adapter



TL075FTEE Combination Tee Ins x Ins x 3/4" FPT



TL2W075MA 2-Way Insert 34" MPT x Insert



TLIAPE-B Insert Adapter for 1" or Larger PE (Requires 11mm or 7/16" drill or punch)



TLIAPVC-B Insert Adapter with Grommet 11/2" or larger PVC Pipe



TDBIT16.5 Drill Bit for TLIAPVC Fitting (16.5mm or 21/32")



TLFIG8 Figure 8 Line End



TLS6 6" Soil Staple



FPT = Female Pipe Thread MPT = Male Pipe Thread Ins x Ins = Insert by Insert



TLSOV Shut-Off Valve Ins x Ins



TLCV Inline Check Valve

Flow Range:

0.9 to 4.4 GPM

Opening Pressure:

10.2 psi

Closing Pressure: (13.4 Feet Column of Water)



NETAFIM USA 5470 E. Home Ave.

Fresno, CA 93727 CS 888 638 2346 www.netafimusa.com





NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS:
YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

GENERAL WARRANTY DEED

THE STATE OF TEXAS

§...

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

8

THAT WILLIAM M. JOYCE and wife, TONYA J. JOYCE, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by CME-JOYTEX — PROP A, LLC, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

HAS GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto the said Grantee the following described property situated in Comal County, Texas, to-wit:

Being a 0.975 acre tract of land in the Galvino Carrasco Survey No. 272, Abstract 106, Comal County, Texas, as described and recorded in Document Number 9606013690, Official Public Records, Comal County, Texas (OPRCC, TX), said 0.975 acre tract of land being more particularly described by metes and bounds in Exhibit "A", attached hereto and made a part hereof.

This conveyance is made subject to, all and singular, the restrictions, conditions, easements, and covenants, if any, applicable to and enforceable against the above described property as reflected by the records of the County Clerk of Comal County, Texas.

TO HAVE AND TO HOLD the above described premises, together with, all and singular, the rights and appurtenances thereto in anywise belonging unto the said Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever.

Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators, and successors to warrant and forever defend, all and singular, the said premises unto the said

Grantee, Grantee's heirs, executors, administrators, successors, and assigns against any person whomsoever claiming or to claim the same or any part thereof.

DATED this the 4 day of March, 2025.

WHO AM M. JOYCE

TONYA J. JOYCE

STATE OF TEXAS COUNTY OF GUACLALIPI

8

This instrument was acknowledged before me on this the 4 day of March, 2025, by WILLIAM M. JOYCE and wife, TONYA J. JOYCE.

NAOMI M FLORES
Notary Public, State of Texas
Comm. Expires 04-22-2025
Notary ID 10836394

Notary Public, State of Tokas

GRANTEE'S MAILING ADDRESS:

OCN477 7X 186

3126.deeds Old Republic Title Co. (NF) GF #1581SG Galvino Carrasco Survey No. 272, Abstract 106 Comai County, Texas 0.975 Acre

EXHIBIT "A"

BEING A 0.975 ACRE TRACT OF LAND IN THE GALVINO CARRASCO SURVEY NO. 272, ABSTRACT 106, COMAL COUNTY, TEXAS, AS DESCRIBED AND RECORDED IN DOCUMENT NUMBER (DOC#) 9606013690, OFFICIAL PUBLIC RECORDS, COMAL COUNTY, TEXAS (OPRCC, TX), SAID 0.975 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING at a 1/2 inch iron rod for the northwest comer of the herein described tract, being also the southwest corner of a 2.074 acre tract of land recorded in DOC# 201906016826, OPRCC, TX, and lying in the East right-of-way (ROW) line of River Road (River Rd.) (based on a 40° wide ROW), from which the northeast corner of said Galvino Carrasco survey on the West boundary of the Guadalupe River bears N 05°00'46" E a distance of 700.75 feet;

THENCE S 64°53'08" E with the South boundary line of said 2.074 acre tract a distance of 548 feet to 1/2 inch iron rod on the now apparent top bank of the Guadalupe River for the northeast corner of the heroin described tract, being also the southeast corner of said 2.074 acre tract;

THENCE S 24°37'26" W with the West bank of the Guadalupe River and all of its meanders a distance of 111,10 feet to a 1/2 inch iron rod for the southeast corner of the herein described tract, being also the northeast corner of a 0.923 acre tract of land recorded in DOC# 201106010984, OPRCC, TX;

THENCE N 58°11'08" W with the North boundary line of said 0.923 acre tract a distance of 532 feet to a 1/2 inch iron rod for the southwest corner of the herein described tract, being also the northwest corner of said 0.923 acre tract, and lying in the East ROW line of River Rd.;

THENCE N 03°17'08" W with the East ROW line of River Rd a distance of 55.50 feet to the PLACE OF BEGINNING and containing 0.975 acre of land.

Bearing Basis: All bearings shown herein are referenced to the Texas Plane Coordinate System, North American Datum of 1983, South Central Zone.

Wesley C. Hunter Registered Professional Land Surveyor

NO. 6268 – State of Texas

HUNTER SURVEYING

819 CAMEL BACK DR., NEW BRAUNFELS, TX 78130 (830) 824-8182 TEXASSURVEYON FIBOMAL COM PRUB 1010-008 - REGULATED BY THE TEXAS GOOD OF SERVESCHIM LAND FIRE TEXAS WESLEY C. HUNTER

Page 1 of 1

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County Texas
03/06/2025 11:23:38 AM
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Cobbie Koepp