



TEXAS ASSOCIATION OF REALTORS®

INFORMATION ABOUT ON-SITE SEWER FACILITY

USE OF THIS FORM BY PERSONS WHO ARE NOT MEMBERS OF THE TEXAS ASSOCIATION OF REALTORS® IS NOT AUTHORIZED.
©Texas Association of REALTORS®, Inc., 2004

CONCERNING THE PROPERTY AT

136 Hornsby Trail
Bastrop, TX 78602

A. DESCRIPTION OF ON-SITE SEWER FACILITY ON PROPERTY:

- (1) Type of Treatment System: ☐ Septic Tank ☒ Aerobic Treatment ☐ Unknown
☐ _____
- (2) Type of Distribution System: Air distribution, two sprinklers ☐ Unknown
- (3) Approximate Location of Drain Field or Distribution System: See attached drawing ☐ Unknown

- (4) Installer: Mack Holland ☐ Unknown
- (5) Approximate Age: 11 years ☐ Unknown

B. MAINTENANCE INFORMATION:

- (1) Is Seller aware of any maintenance contract in effect for the on-site sewer facility? ☒ Yes ☐ No
If yes, name of maintenance contractor: DAVID JOHNSON SERVICES
Phone: (512) 243-1190 contract expiration date: 10/26/2012
Maintenance contracts must be in effect to operate aerobic treatment and certain non-standard on-site sewer facilities.)
- (2) Approximate date any tanks were last pumped? Never pumped
- (3) Is Seller aware of any defect or malfunction in the on-site sewer facility? ☐ Yes ☒ No
If yes, explain: _____

- (4) Does Seller have manufacturer or warranty information available for review? ☒ Yes ☐ No

C. PLANNING MATERIALS, PERMITS, AND CONTRACTS:

- (1) The following items concerning the on-site sewer facility are attached:
☒ planning materials ☒ permit for original installation ☐ final inspection when OSSF was installed
☒ maintenance contract ☒ manufacturer information ☒ warranty information ☐ _____
- (2) "Planning materials" are the supporting materials that describe the on-site sewer facility that are submitted to the permitting authority in order to obtain a permit to install the on-site sewer facility.
- (3) **It may be necessary for a buyer to have the permit to operate an on-site sewer facility transferred to the buyer.**

(TAR-1407) 1-7-04

Initialed for Identification by Buyer APV KG and Seller _____, _____ Page 1 of 2

RE/MAX Bastrop Area 87 Loop 150 West Bastrop, TX 78602
Phone: 512.921.9134

Fax: 512.366.9613 Janis Penick

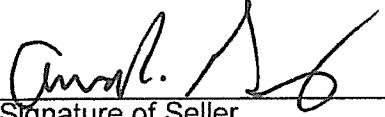
Produced with ZipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48026 www.zipLogix.com

Gregg

D. INFORMATION FROM GOVERNMENTAL AGENCIES: Pamphlets describing on-site sewer facilities are available from the Texas Agricultural Extension Service. Information in the following table was obtained from Texas Commission on Environmental Quality (TCEQ) on 10/24/2002. The table estimates daily wastewater usage rates. Actual water usage data or other methods for calculating may be used if accurate and acceptable to TCEQ.

<u>Facility</u>	<u>Usage (gal/day)</u> <u>without water-</u> <u>saving devices</u>	<u>Usage (gal/day)</u> <u>with water-</u> <u>saving devices</u>
Single family dwelling (1-2 bedrooms; less than 1,500 sf)	225	180
Single family dwelling (3 bedrooms; less than 2,500 sf)	300	240
Single family dwelling (4 bedrooms; less than 3,500 sf)	375	300
Single family dwelling (5 bedrooms; less than 4,500 sf)	450	360
Single family dwelling (6 bedrooms; less than 5,500 sf)	525	420
Mobile home, condo, or townhouse (1-2 bedroom)	225	180
Mobile home, condo, or townhouse (each add'l bedroom)	75	60

This document is not a substitute for any inspections or warranties. This document was completed to the best of Seller's knowledge and belief on the date signed. Seller and real estate agents are not experts about on-site sewer facilities. Buyer is encouraged to have the on-site sewer facility inspected by an inspector of Buyer's choice.

 6/13/12
 Signature of Seller Date
 Andrew R. Gregg

 6/13/12
 Signature of Seller Date
 Karen Kimberly Gregg

Receipt acknowledged by:

 Signature of Buyer Date

 Signature of Buyer Date

BASTROP COUNTY
HEALTH & SANITATION
305 ESKEW
BASTROP, TEXAS 78602
512/332-7276

OSSF - LICENSE TO OPERATE

16406
PERMIT NUMBER
Rentex Homes, Inc.
PROPERTY OWNER/APPLICANT NAME
SITE LOCATION: The Colony, Section 1, Block B, Lot 29
S.I.
SYSTEM TYPE
NO YES MON/YR
YEARLY MAINTENANCE CONTRACT RENEWAL REQUIRED
INSTALLER: Mack Holland

NOTE: _____

The on-site sewage facility located at the above location has passed all inspections for compliance with the County Ordinance and State Standards. A License to Operate is hereby issued in the name of the property owner/applicant.

Will Thomasley
DESIGNATED REPRESENTATION SIGNATURE

5-9-01
DATE LICENSE TO OPERATE ISSUED

Lot 34

Lot 35

Lot 36

Lot 37

Lot 38

Lot 33
1.584 AC.

Lot 29
1.009 AC.

Lot 28
1.269 AC.

Lot 30
1.020 AC.

Lot 27
1.383 AC.

Lot 31
1.435 AC.

Lot 32
1.745 AC.

Lot 26
1.735 AC.

472

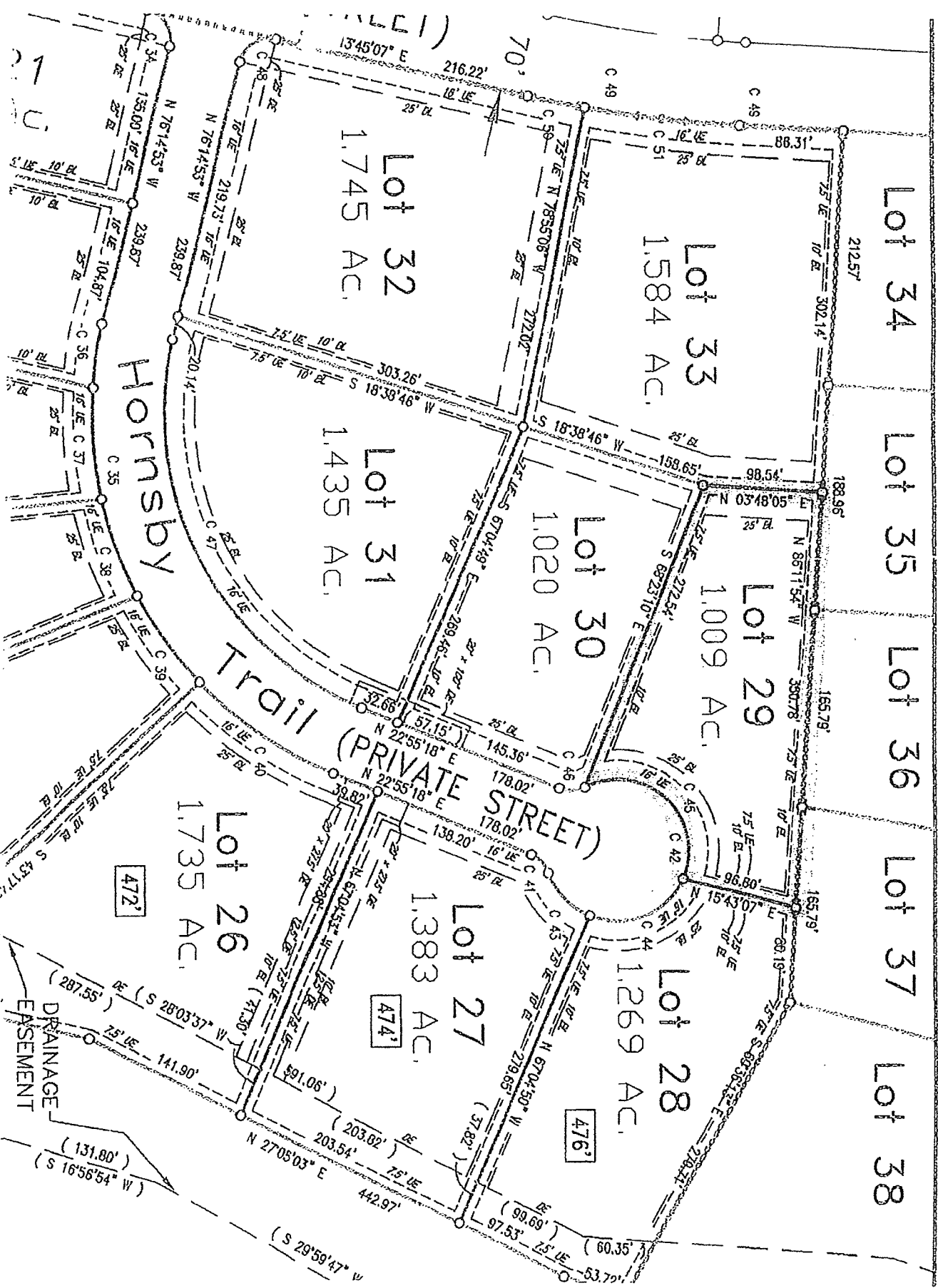
474

476

Trail (PRIVATE STREET)

Hornsbys

DRAINAGE
EASEMENT



Proposed surt rrigation system sizing worksheet

for

Reytex Homes, Inc.
136 Hornsby Trail
Lot 29, block B, The Colony, section 1
Bastrop, TX 78602

The proposed system has been designed to serve up to a 4 bedroom, <3,500 square foot single family residence, with a maximum daily water usage rate of 300 gallons per day (using low water use fixtures), as per table III of the Chapter 285 Rules for On-Site Sewage Facilities by the Texas Natural Resource and Conservation Commission approved 2/4/97. Low-water use fixtures are required to be installed throughout the residence.

Drainfield specifications:

$A(\text{square feet}) = Q \div R_i$
(where A (the minimum application area) is equal to Q (the daily usage rate) divided by R_i (the effluent loading rate in gal/sq ft/day for Bastrop County))

$300 \text{ gpd} \div .064 \text{ (gal/sq ft/day)} = 4,687.5 \text{ square feet (minimum required)}$ ✓

Total proposed application area = 5,281.48 square feet ✓

There are two 360° spray application zones proposed. The proposed radius for each application zone is 29' resulting in an area of 2,640.74 square feet:

Area of each zone: $\pi r^2 = 3.14 \times (29 \times 29) = 2,640.74 \text{ sq. ft.}$

Total area: $2,640.74 \text{ sq. ft.} \times 2 = 5,281.48 \text{ square feet}$ ✓

Sprinkler head: Rain Bird Maxi-paw rotor professional series low-angle trajectory nozzle #10 LA (approx. 11 degrees) or equivalent operating with a 29 foot radius each delivering 4 GPM per sprinkler at 35 psi. (DO NOT EXCEED 40 PSI) ✓

Dosing/reserve capacity summary:

An estimated 300 gallons per dose @ 8 gpm = 37.5 minutes of dosing time. A single daily dose will occur and the pump will be activated by a commercial timer at 3 AM each morning. The reserve capacity (storage above the alarm-on level) will be approximately 300 gallons. ✓

Total dynamic head calculations:

$\approx 13' \text{ (elevation head)} + 4.4' ((100'/100) \times 3.63) \times 1.2 \text{ @ } 8 \text{ gpm manifold loss} + 81' \text{ (nozzle head (35 psi} \times 2.31) \text{ @ } 4 \text{ gpm/head)} = 98.4' \text{ (total pressure)}$ ✓

Wastewater treatment tank/pump specifications:

Aqua Safe-AS500 Plus 75 500 GPD aerobic treatment unit or equivalent with in-line tablet chlorinator ✓

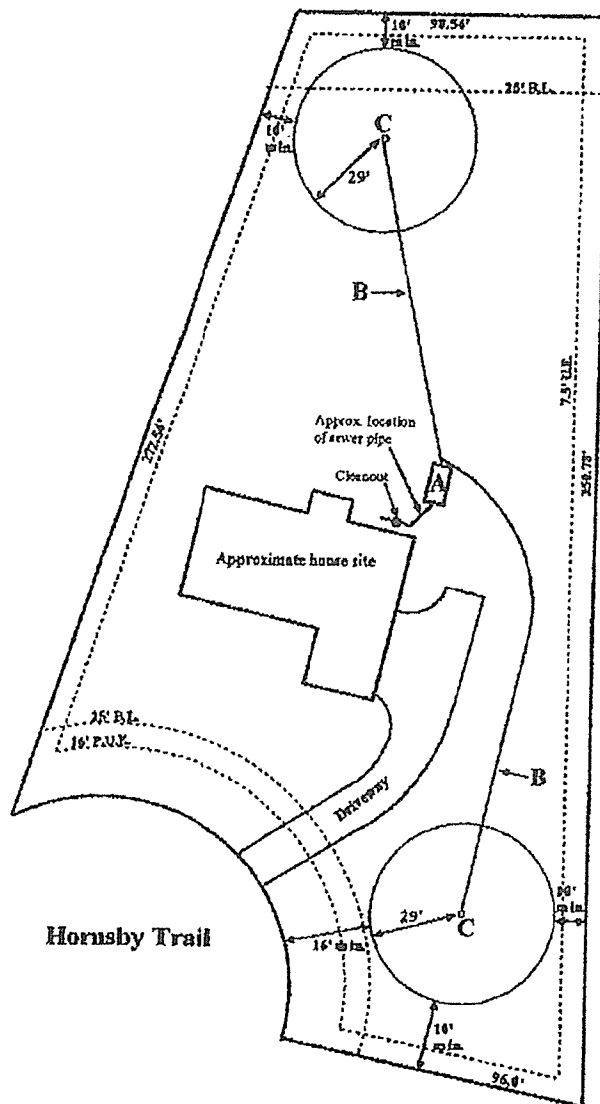
Pump selection: Aeromotor model 20-50 (6-stg) submersible pump, 1/2 HP. ✓

Pump and high water alarm must be on separate electric circuits. All electrical wiring must be done in accordance with the National Electrical Code or local code. The alarm must be the audio-visual type. ✓



**Site diagram of the re-location of the spray nozzles for a
Surface Application System
for**

Andrew R. & Karen Kimberly Gregg
136 Hornsby Trail
Lot 29, block B, The Colony, section 1
Bastrop, TX 78602 in Bastrop County



Scale 1" = 40'

N

NOTE:

Potable water lines must be a minimum of 10' from any sewer pipe, the spray nozzles and the aerobic treatment unit.

Components

- 1 - Approximate site of the Aqua Safe-AS 500 Plus 75 500 GPD aerobic treatment unit (ATU), 400 gallon trash chamber and 750 gallon pump chamber
- 1 - 1" SCH 40 PVC manifold/supply line
- 1 - Rain Bird Maxi-paw rotor professional series low-angle trajectory nozzle #10 LA (approx. 11 degree) @ 35 p.s.i.—a total of 2 nozzles

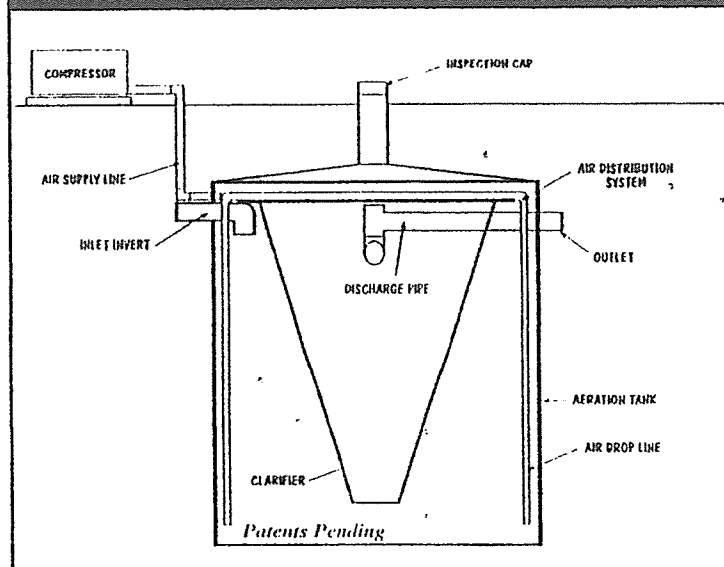
~~ETI Aqua Safe~~

ETI AQUA SAFETM

INDIVIDUAL HOME SEWAGE TREATMENT SYSTEM *HOMEOWNERS MANUAL*

AL017265C

MODEL A.S. 500 WASTEWATER TREATMENT PLANT



Mfg. by:
Ecological Tanks, Inc.
2247 Hwy. 151 North
Downsville, La. 71234
(318) 644-0397

©2000

5774 0200

SPECIAL NOTE

Ecological Tanks Inc., Model A.S. 500 wastewater treatment plant has been tested according to requirements listed in ANS/NSF Standard 40, and meets or exceeds Class 1 plant characteristic requirements.

Installation needs vary in each state, therefore your wastewater treatment plant may contain auxiliary components with the treatment plant not furnished by Ecological Tanks, Inc. Included in this Homeowners Manual is the *ETI Aqua Safe* Model Number A.S. 500.

State and/or local regulations govern the installation and use of individual mechanical waste water treatment systems. All permits required by state and/or local regulations should be obtained prior to the *ETI Aqua Safe* plant installation.

It is the responsibility of the end user (owner) to see that the *ETI Aqua Safe* plant and associated auxiliary component items are installed in accordance with all applicable laws, regulations and guidelines in effect in your respective state. Please consult your local sanitarian or environmentalist prior to system installation.

HOW THE AQUA SAFE SEWAGE TREATMENT SYSTEM FUNCTIONS

The *A.S. 500* sewage treatment plant in many ways is a scaled down version of larger township and municipality sewage treatment plants. It employs an extended aeration activated sludge process. This type of treatment depends primarily upon the use of air that is introduced by air passing from the blower to four (+) air lines located around the perimeter of the mixing chamber.

Ecological Tanks, Inc., Aqua Safe plants are made up of an outer mixing tank and a center settling chamber called a clarifier. Raw unsettled wastewater from your home enters directly into the mixing tank where simple hydraulic displacement is accomplished by the introduction of air which promotes the growth of aerobic organisms in much larger amounts than would occur naturally. These break down the organic solids in the wastewater.

From the outer mixing tank or aeration chamber, mixed liquid enters the cone shaped settling chamber, better known as the clarifier, from the bottom. No mixing occurs in this quiet zone where solids separate from the liquid and settle to the bottom of the clarifier and re-enter the mixing chamber. The liquid that separates from the solids in the clarifier continues to flow upward to the discharge pipe.

The results of the *Aqua Safe* process is a clear, odorless effluent discharge, which meets or exceeds state and national water quality standards.

AQUA SAFE RECOMMENDED PLANT INSTALLATION INSTRUCTIONS

1. Inspect entire treatment plant and component parts.
2. Select location of plant site which is accessible to the home sewer discharge line, at least ten (10) feet from the home foundation, in an area that will not receive vehicular traffic. Prepare an excavation site having a hole at least one (1) foot larger than the treatment plant and a depth that will allow for sufficient coverage leaving approximately three (3) inches of the inspection port to stick above normal ground level. The depth of the plant will be controlled by the depth of the building sewer outlet line plus the amount of proper fall required from building sewer outlet line to inlet invert of plant. The *ETI Aqua Safe* plant should be installed on a 4" bed of sand on undisturbed soil to provide a solid flat base.
3. Utilizing lifting lugs provided, carefully place the plant in the excavation. The inlet line should slope down toward the plant and the outlet line should slope down away from the plant. The plant should be level within one (1) inch, edge to edge.
4. Position inlet and outlet lines and make necessary connections. Clean outs should be installed at building sewer tie-in, any changes in direction of flow and at maximum intervals of seventy (70) feet when using four (4) inch piping. The inlet line should be inserted and glued into the inlet elbow and the discharge line should be inserted and glued into the outlet coupling. Open the six (6) inch inspection port on top of plant cover and make sure the discharge tee assembly is level and centered in the clarifier prior to connecting discharge piping. Fill the tank with water to the point of flowing

bottom of the inlet and outlet piping, taking care not to damage the tank or dislodge the piping. Backfill material must be void of rocks, gravel heavy clay or any type of material which might damage the tank.

5. Install aerator compressor in a well ventilated, relatively clean and dry location no more than fifty (50) feet away from the factory installed air connection on plant. The air blower is supplied complete with all discharge fittings. Install 3/4" sch. 40 p.v.c. piping (supplied by others) between the aerator and treatment plant. A minimum of twelve (12) inches ground cover is recommended.

6. The electrical controls are contained in a weather proof enclosure, therefore, it may be installed in any above ground area where the warning light is visible to the owner during the course of a normal days activities. It is recommended for corrosion control that it be at least six (6) inches above the ground and in view of the compressor housing. All wiring must comply with NFPA 70, 1993, National Electrical Code. All electrical components not supplied must comply to U.L. standards.

7. Install electrical wiring (provided by others) to interconnect aerator and high water level alarm to electrical control panel. A minimum of twelve (12) inches of ground cover is recommended.

8. The linear compressors used on all models of *Aqua Safe* plants run continuous. They provide quiet, energy efficient operation while lasting two to three times longer than rotary vane or other styles of diaphragm compressors. Once properly connected, the electrical control box is to be closed. Operate the aerator by placing the on/off switch in the "ON" position.

9. Turn on air blower and check all air piping and fittings for leaks. This can be accomplished by preparing a saturated solution of soap and water and applying to entire run of pipe and fittings. If a leak is detected, effect repairs.

10. Backfill the air blower discharge line ditch, influent and effluent line ditches and the rest of the plant excavation.

11. The *Aqua Safe* plant is ready to receive incoming sewage.

AQUA SAFE PLANT START UP

Initially the *Aqua Safe* wastewater treatment plant is filled with clean water, usually from an owner's water supply. As stated in the installation instructions, once all proper connections have been completed and it is filled with water and the aerator turned on, the system is now in operation.

For the treatment plant to be biologically stable, it will take from four (4) to twelve (12) weeks after first using the plant to develop a population growth of microorganisms (bacteria). It is these bacteria which make the treatment system operate.

OWNER MAINTENANCE CARE AND OPERATION INSTRUCTIONS

Aqua Safe home wastewater treatment plants have been designed and built by **Ecological Tanks, Inc.**, to provide long term, reliable and cost efficient service. Our treatment plants will operate with a minimum amount of attention; however, the following procedures should be performed on routine basis to insure proper plant operation.

DAILY: Check the air blower to be sure it is operating. Check for over heating, excessive vibrations and unusual noises. Once you become accustomed to the linear compressor's quiet hum it will be easy to detect. Check warning lights and audible alarm located on control panel for compressor malfunction or in system high water indication. If a visual or audible alarm is on, it is an indication of a malfunction. If on, call your installer maintenance provider or the factory number as indicated on the service label located on control panel cover. Be sure to refer to the systems serial number (located on linear compressor) and model number when calling for service. After a power outage, an alarm condition may exist. Should an alarm remain on for more than 30 minutes after power is restored, you should call your local service provider to report the alarm.

WEEKLY: Check the six (6) inch access cover for a "rotten egg" odor. If present call for service.

PERIODICALLY: Check and clean the air filter on aerator. Rinse with warm water to clean if necessary. Make sure filter is dry and re-install on aerator.

RECOMMENDED: Frequency of solids removal is no more often than every two (2) to five (5) years. Determination of the need for pumping can be made only by a trained service person by testing the tank contents and/or effluent. **WARNING** - Hydraulic displacement and tank flotation may occur whenever tanks are pumped. Additionally, care should be taken not to damage internal component parts. A certified ETI *Aqua Safe* service technician should oversee tank pumping.

OWNER'S RESPONSIBILITY

It is the *owner's responsibility* to operate the *Aqua Safe* home wastewater treatment plant to the best of their ability. To keep maintenance to a minimum and insure high effluent quality, the following items should not be permitted to enter the treatment plant:

1. Strong disinfectants or bleaches, other than small amounts used in day to day house cleaning and laundries.
2. The backwash discharge from any type of water softeners.
3. Coffee grounds, chemical wastes, paint or paint thinners, oils or grease (such as used cooking grease), pet shampoo or pet dip disinfectant.
4. Disposable diapers, tampons, sanitary napkins, large quantities of paper products, tobacco products or similar items.
5. Waste material from a garbage disposal is not recommended without the use of a trash trap or pretreatment tank preceding the *Aqua Safe* plant.
6. The *Aqua Safe* home units were designed to handle sewage and nothing else should go into it.
7. During extended periods of non-use the aerobic bacteria inside the plant

will decrease due to no food in the form of incoming sewerage. The treatment plant will become biologically stable again soon after the resumption of normal loading. Always leave the aerator compressor on during periods of non-use.

8. The *Aqua Safe* plant will not perform to its fullest capabilities if subject to hydraulic overloading. This condition exists whenever excessive water, above the plants designed treatment capacity, is allowed into the plant. Leaking plumbing fixtures or excessive water use may cause this condition.

9. Ecological tanks, Inc., is not responsible for the infield operation of our plants, other than the mechanical and structural parts of the plant. The proper operation of this wastewater treatment plant depends upon proper organic and hydraulic loading of the plant. We cannot control the loading of substances in our plants that may upset its biological balance. We can only provide a complete owner's manual which outlines materials that should be kept out of the treatment plants. User operation instructions must be followed or warranties are subject to invalidation.

Warning! Ants and rodents are destructive to the mechanical and electrical equipment on sewage treatment plants. Care should be taken to prevent infestation of ants near the plant. Damage or destruction of mechanical or electrical equipment by ants or rodents is not covered under manufacturers warranty.

Any and all safety requirements as to the electrical wiring, blower operation or plant discharge concerning the owner, their families, friends, or guests is the sole liability of the owner (see warranty and service policy).

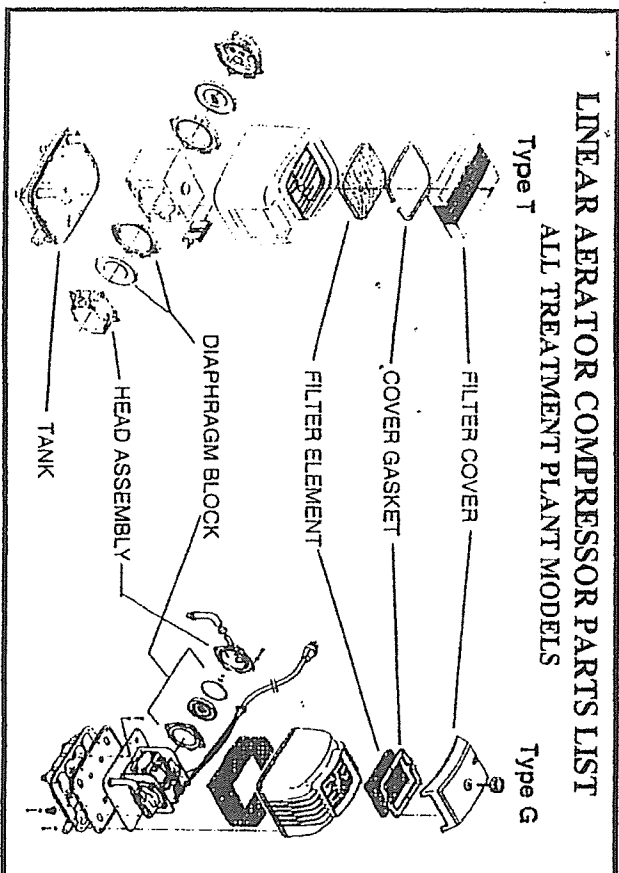
The electrical control panel contains a schematic for the system. However, the electrical control panel is sealed and contains no user serviceable parts. Test and alarm silence switches are located on the outside of control panel.

Warning! Service to the electrical control panel by a non-qualified person may result in a electrical shock hazard resulting in serious injury or death. If service is required contact your local authorized installer representative or the manufacturer.

Many States already require the use of a chlorination unit behind all mechanical treatment plants for total effluent disinfection prior to final discharge. Ecological Tanks, Inc. recommends the use of a chlorination unit behind its mechanical plants for total effluent disinfection prior to final discharge.

SOURCES FOR OBTAINING REPLACEMENT PARTS OR COMPONENTS

Replacement parts or components may be obtained from your local installer or from Ecological Tanks Inc., 2247 Highway 151 North, Downsville, LA 71234.
Office: 318-644-0397 Fax: 318-644-7257



INITIAL SERVICE POLICY

The local dealer/installer from whom you purchased your ETI Aqua Safe wastewater treatment plant is responsible for routine inspections for the first two years from the original date of installation. The plant will be checked for proper operation at each inspection. If a problem exists, service will be

performed at no charge to the owner unless the required maintenance is not warranty related. These service calls/inspections shall include four inspections over the two year period and shall include the following:

1. Adjustment of the electrical control, if applicable, and servicing of the mechanical component parts to ensure proper function.
2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow, and an examination for odors.
3. Immediate notification to the owner/warranty in writing of any improper observation which cannot readily be repaired. This notification will or shall advise said owner of the problem, if it is covered by warranty and estimated date for correction of said problem.

Pumping of sludge build up from the plant, if necessary, is not included in the initial service policy.

An annually renewable service policy affording the same coverage as the initial service policy is available. Consult your local dealer for pricing information.

LIMITED WARRANTY

Ecological Tanks, Inc., Aqua Safe (hereinafter identified as manufacturer) warrants each aerobic wastewater treatment plant to be free from defects in workmanship and materials from the date of installation by an authorized dealer/installer for a period of no more than twenty-four (24) months. When properly installed and registered with the manufacturer, the manufacturer's sole obligation under this limited warranty is as follows:

To repair or exchange any components, F.O.B. factory, that in the manufacturers' judgment is defective, provided that said component part has been paid for and is returned through an authorized dealer, prepaid. The warrantee must specify the nature of the defect in writing to the manufacturer. The **limited warranty** makes no provision for any informal dispute settlement arrangement.

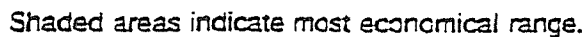
The limited warranty does not cover any aerobic wastewater treatment plant that has not been properly installed, damaged due to altered or improper wiring or overload protection, flooded by any external means, disassembled by any unauthorized person, filled with anything other than normal household wastewater or damaged by an act of nature. The limited warranty does not cover damage or defects caused by fire ants, insects or rodents to any component part of the aerobic wastewater treatment plant.

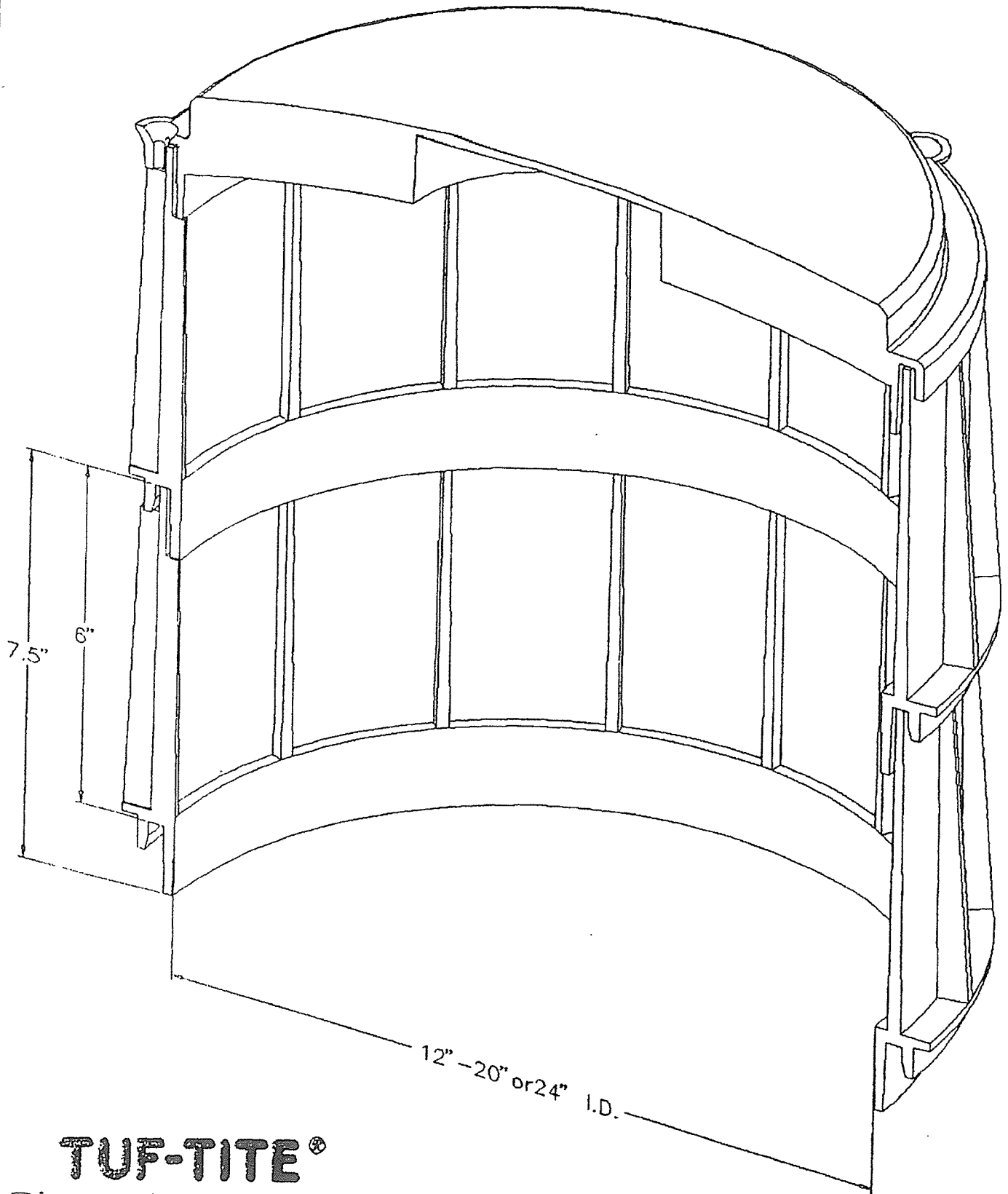
No warranty is made as to the field performance of any system. The limited warranty applies only to the aerobic wastewater treatment plant itself and does not include any of the purchasers plumbing, drainage and/or disposal system, house wiring or installation of the plants.

The manufacturer reserves the right to replace any component part covered under this limited warranty with a component part, which in manufacturer's judgment, is equivalent to the part replaced. The manufacturer claims no responsibility for any delays or damages caused by defective components or materials which cause losses incurred by interruption of service or for repairs or replacements of component parts covered by the limited warranty.

AERMOTOR

METERS FEET





TUF-TITE®

Riser Assembly
HDPE

NOZZLE INSTALLATION

1. Insert the plastic key end of the Hunter wrench into the lifting socket of the sprinkler and turn 90°. Pull the riser up to gain access to the nozzle socket (Fig. 8).
2. Using the hex key of the Hunter wrench, turn the radius adjustment screw (Fig. 6) counterclockwise to be sure it is not blocking the nozzle socket opening. If a nozzle is already installed, it can be removed by backing out the adjustment screw and turning on the water, or by pulling outward on the nozzle "ears" with a pair of needle-nosed pliers.
3. Slip the desired nozzle into the nozzle socket (Fig. 7). Note that the socket is angled up 25°. The "ears" should be adjusted so that the nozzle range screw threads directly down between them. Then tighten the nozzle range screw. The raised bump with an arrow on the rubber cover will always indicate the location of the nozzle and direction of water flow when the sprinkler is retracted.

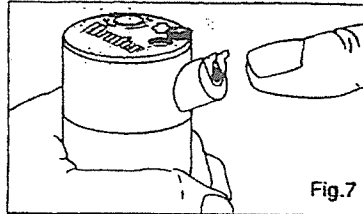


Fig. 7

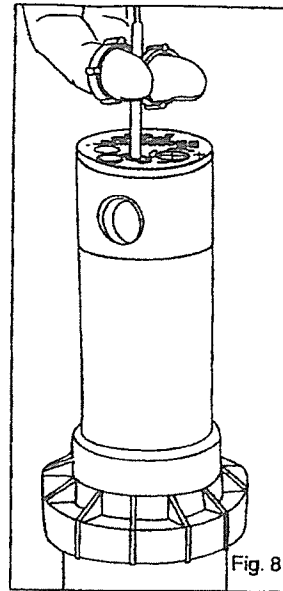


Fig. 8

ALIGNING THE RIGHT (FIXED) SIDE OF ARC

If the right side of the arc is not properly aligned, the results may be a wet walkway or a dry turf area. The right side arc can easily be realigned. One way to realign the right stop is to turn the whole sprinkler body assembly and the fitting below it, left or right to the desired position. This may require temporary removal of the soil around the sprinkler to allow you to grip the sprinkler housing.

Another way to reset the right arc is to unscrew the body cap counterclockwise and remove the internal assembly from the body. Once removed, rotate the nozzle turret to the right stop, screw the internal assembly back into the body with the nozzle aligned to the right side of the area you want irrigated (Fig. 9). At this point you have realigned the right arc stop, and you can adjust the left arc to an appropriate setting.

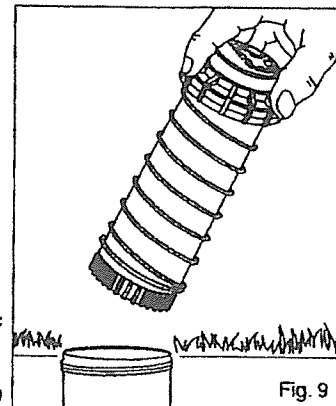


Fig. 9

Note: It is not necessary to dig up and remove the whole sprinkler to realign the right arc.

Standard Nozzles (PGP)

Nozzle	PSI	Radius ft.	GPM
1	30	28'	.5
	40	29'	.6
	50	29'	.7
	60	30'	.8
	30	29'	.7
2	40	30'	.8
	50	30'	.9
	60	31'	1.0
	30	30'	.9
3	40	31'	1.0
	50	31'	1.2
	60	32'	1.3
	30	32'	1.2
4	40	33'	1.4
	50	34'	1.6
	60	34'	1.8
	30	34'	1.6
5	40	36'	1.8
	50	38'	2.0
	60	38'	2.2
	30	36'	2.0
6	40	38'	2.4
	50	40'	2.7
	60	40'	2.9
	30	36'	2.6
7	40	40'	3.0
	50	42'	3.4
	60	42'	3.7
	30	37'	3.2
8	40	40'	3.7
	50	43'	4.2
	60	44'	4.6
	30	38'	4.2
9	40	43'	4.9
	50	46'	5.5
	60	47'	6.0
	40	45'	6.0
10	50	48'	6.8
	60	49'	7.6

Standard Nozzles (PGS)

Nozzle	PSI	Radius ft.	GPM
4	30	22'	1.4
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
	30	25'	1.6
5	40	27'	1.9
	50	29'	2.1
	60	30'	2.3
	30	27'	2.1
6	40	30'	2.5
	50	33'	2.8
	60	35'	3.0
	30	29'	2.8
7	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
	30	31'	3.4
8	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
	30	33'	4.3
9	40	37'	5.0
	50	40'	5.8
	60	42'	6.1
	40	38'	6.5
10	50	40'	7.3
	60	42'	8.8
	70	44'	8.6

Check range for varying
no. of nozzles per zone, etc.

Standard Nozzles (PGH)

Nozzle	Pressure PSI	Radius ft.	Flow GPM
1	2.1	206	8.5 0.11 1.9
	2.8	275	8.8 0.14 2.3
	3.4	344	8.8 0.16 2.7
	4.1	413	9.1 0.18 3.0
	2.1	206	8.8 0.16 2.3
2	2.8	275	9.1 0.18 3.0
	3.4	344	9.1 0.20 3.4
	4.1	413	9.4 0.22 3.8
	2.1	206	9.1 0.20 3.4
3	2.8	275	9.4 0.23 3.8
	3.4	344	9.4 0.27 4.5
	4.1	413	9.8 0.30 4.9
	2.1	206	9.8 0.27 4.5
4	2.8	275	10.1 0.32 5.3
	3.4	344	10.4 0.35 5.7
	4.1	413	10.4 0.41 6.8
	2.1	206	10.4 0.36 6.1
5	2.8	275	11.0 0.41 6.8
	3.4	344	11.6 0.45 7.6
	4.1	413	11.6 0.50 8.3
	2.1	206	11.0 0.45 7.6
6	2.8	275	11.6 0.50 8.3
	3.4	344	12.2 0.54 9.1
	4.1	413	12.2 0.60 10.2
	2.1	206	11.0 0.59 9.8
7	2.8	275	12.2 0.58 11.4
	3.4	344	12.8 0.77 12.9
	4.1	413	12.8 0.84 14.0
	2.1	206	11.3 0.73 12.1
8	2.8	275	12.2 0.84 14.0
	3.4	344	13.1 0.85 15.0
	4.1	413	13.4 1.04 17.4
	2.1	206	11.6 0.95 15.9
9	2.8	275	13.1 1.11 18.5
	3.4	344	14.0 1.25 20.8
	4.1	413	14.3 1.36 22.7
	2.8	275	13.7 1.35 22.7
10	3.4	344	14.6 1.54 25.7
	4.1	413	14.8 1.73 28.0

Standard Nozzles (PGS)

Nozzle	Pressure PSI	Radius ft.	Flow GPM
4	2.1	206	6.7 0.32 5.3
	2.8	275	7.3 0.39 6.4
	3.4	344	7.9 0.41 6.8
	4.1	413	8.5 0.45 7.6
	2.1	206	7.6 0.38 6.1
5	2.8	275	8.5 0.45 7.6
	3.4	344	9.1 0.49 8.3
	4.1	413	9.7 0.52 8.7
	2.1	206	8.2 0.48 7.9
6	2.8	275	9.1 0.57 9.5
	3.4	344	10.1 0.64 10.6
	4.1	413	10.7 0.68 11.4
	2.1	206	9.8 0.64 10.6
7	2.8	275	9.8 0.73 11.4
	3.4	344	10.7 0.79 12.2
	4.1	413	11.3 0.85 13.4
	2.1	206	9.4 0.77 12.9
8	2.8	275	10.4 0.89 14.8
	3.4	344	11.3 1.09 16.7
	4.1	413	11.6 1.07 17.8
	2.1	206	10.1 0.88 16.3
9	2.8	275	11.0 1.14 18.9
	3.4	344	12.2 1.27 21.4
	4.1	413	12.8 1.38 23.1
	2.8	275	11.6 1.48 24.6
10	3.4	344	12.2 1.66 27.8
	4.1	413	12.8 1.82 30.3
	4.8	482	13.4 1.95 32.6

Check range for varying
no. of nozzles per zone, etc.

Data represent test results in zero
wind. Adjust for local conditions.
Radius can be reduced by up to 30%
with nozzle retaining screw. (This may
alter the uniformity of the spray
pattern.)

20 & 22 GPM

PUMPING CAPACITIES IN GALLONS PER MINUTE AT INDICATED DISCHARGE PRESSURES IN POUNDS PER SQ. INCH

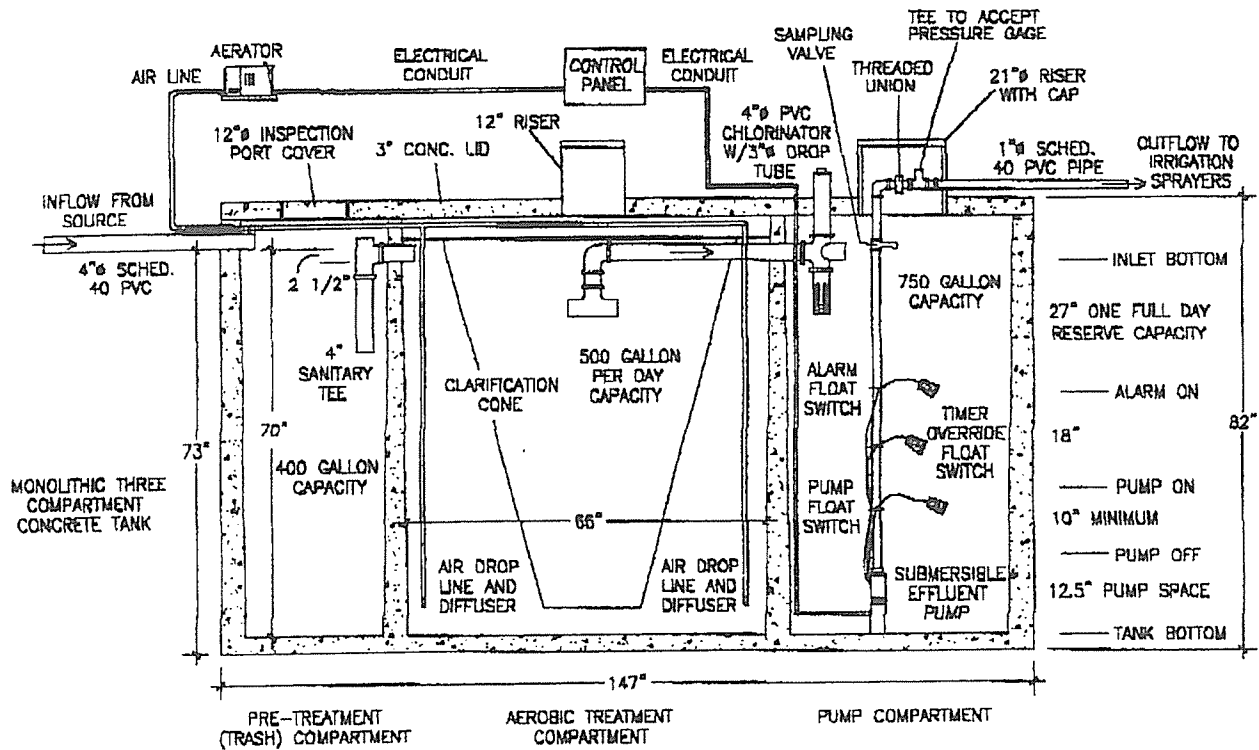
MODEL NUMBER	H.P.	1 1/4" NPT DISCHARGE																	SHUTOFF HEAD		
		P.S.I.	20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	FEET	P.S.I.
20-50 (6-STG)	1/2	20	25.0	22.5	19.7	15.7														156	67
		30	22.8	16.0	10.0																
		40	18.8	13.2																	
		50	10.8																		
		60																			
20-75 (9-STG)	3/4	20				23.3	21.3	17.7	11.7											234	101
		30		25.0	23.2	21.0	19.7	12.3													
		40	24.8	22.8	20.3	17.3	12.7														
		50	22.5	20.2	16.8	11.8															
		60	19.7	16.2	11.3																
20-100 (11-STG)	1	20					24.2	22.1	19.7	15.8	10.4									285	123
		30				23.9	22.2	19.8	16.2	11.0											
		40			23.5	21.9	20.0	16.5	11.3												
		50	25.0	23.4	21.7	19.7	16.8	11.8													
		60	23.2	21.5	19.3	18.3	12.2														
22-100 (9-STG)	1	20				25.8	24.1	22.0	18.8	14.2										234	101
		30		25.7	23.7	21.5	19.5	14.7													
		40	25.4	23.5	21.2	18.5	15.2														
		50	23.3	21.0	18.0	14.3															
		60	20.5	17.7	13.5																
20-150 (15-STG)	1 1/4	20						24.1	22.5	20.8	18.5	15.7	11.9							386	167
		30						24.3	22.7	20.9	18.7	16.0	12.3								
		40					24.3	22.8	21.0	18.8	16.2	12.5									
		50				24.2	22.8	21.2	19.0	16.3	12.8										
		60			24.0	22.7	21.3	19.2	16.7	13.2											
20-200 (19-STG)	2	20							24.8	23.5	22.0	20.5	18.9	17.0	12.0					483	209
		30							24.9	23.6	22.2	20.7	19.0	17.2	15.2						
		40						25.0	23.7	22.3	20.8	19.1	17.3	15.3	12.5						
		50					25.0	23.8	22.3	20.9	19.2	17.5	15.5	12.8							
		60				25.0	23.8	22.5	21.0	19.4	17.7	15.7	13.0								

MODEL NUMBER	H.P.	1 1/4" NPT DISCHARGE																	DEPTH TO WATER IN FEET ,										SHUTOFF HEAD	
		P.S.I.	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	P.S.I.									
20-300 (24-STG)	3	20						24.8	23.8	22.9	21.8	19.6	16.5	12.0							606	262								
		30					24.9	24.0	23.0	21.9	20.8	18.3	14.8																	
		40				25.0	24.0	23.0	22.0	20.9	19.8	16.8	12.5																	
		50				24.1	23.1	22.0	21.0	19.8	18.5	15.0	10.0																	
		60			24.2	23.2	22.2	21.1	20.0	18.7	17.0	12.9																		
20-500 (34-STG)	5	20										24.0	22.5	20.9	19.1	17.0	14.3	10.8		873	378									
		30										24.8	23.3	21.8	20.1	18.2	15.8	12.8												
		40										24.1	22.7	21.0	19.2	17.2	14.5	11.0												
		50									24.8	23.4	21.8	20.3	18.3	16.0	13.0													
		60							25.0	23.9	22.8	21.2	19.3	17.3	14.8	11.4														

Project
 Project No. Drawing No. AS5-575-CCNG
 Scale 1/2" = 1'-0" Date DDDMMYY

Texas Concrete Tank

5284 Hwy 71 E.
 Del Rio, TX 78840
 (512)247-4183
 (512)247-4183 fax



AQUA SAFE SINGLE TANK
THREE COMPARTMENT TREATMENT UNIT

MAINTENANCE CONTRACT

Date: 8-11-11

1. In consideration of prepayment of this Maintenance Contract in one lump sum, and in accordance with the most current version of Chapter 25 rules regulation On-Site Sewage Facilities in Texas. This maintenance service company agrees to the following:
2. This contract authorizes DAVID JOHNSON SERVICES to operate and maintain the Ayla Sulf located in Bastrop County. Permit # 2000-76406 a period of 1 year(s) beginning 10-26-11 and ending 10-26-12. This contract shall automatically renew annually thereafter on the same terms unless otherwise stated in writing 30 days prior to expiration. The Certified Service Technician. David Johnson is responsible for all required performance check, treating and maintenance of your aerobic system as follows:
3. Three (3) routine site visits per year (at least once every 4 months), including evaluation, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure that all equipment is functioning properly.
4. Visual check for color, turbidity, scum and odors. An effluent sample will be tested for Total Chlorine residual and reported as required once every four (4) months.
5. In any improper or abnormal operation is observed which cannot be corrected at the time of the service visit, the property owner will receive a written notice of the existing conditions, corrective actions needed.
6. The Maintenance Company will respond to any/all system complaints within 24-48 hours.
7. Complete a performance report after each visit which includes all maintenance findings and test results, then submit copies within 14 days to the permitting authority and the property owner(s), and the original will be kept in the Service Company's file.
8. This maintenance contract does not cover damage to any portion of the system caused by misuse, abuse, or failure to maintain electrical power to the system. Also excessive flows that exceed the organic loading or hydraulic design capabilities of the system as well as occurrences such as natural disasters or severe weather conditions, sludge pumping or disposal of non-biodegradable materials oils, greases, chemicals, solvents, paints, etc... or any usage contrary to the requirements as listed in the system owner's manual.

Owner(s) Responsibilities

9. Maintain spray irrigation areas by cutting grass, deep debris clear of OSSF for easy access to system, and shall adhere to OSSF rules section 285.39 OSSF Maintenance and Management Practices. Property Owner
10. Maintain chlorinator by refilling with approved EPA wastewater chlorine tablets needed, and do not allow any backwash from water softeners or reverse osmosis filters to enter the OSSF system. Property Owner

Terms and Conditions

11. The Maintenance Company or anyone authorized by the service company may enter the property at reasonable hours without prior notice for the purpose of performing maintenance work on the aerobic system.
12. The agreement may be terminated by either party with the following stipulations. If the property owner terminates this agreement prior to the expiration, then he/she agrees to pay the Maintenance Company a fee equal to one-half the cost of the service agreement. Upon expiration of this policy, the owner is required by law to continuously maintain a signed written contract with a valid maintenance company and shall provide the permitting authority with a copy at least 30 days prior to the expiration of the previous contract. If the property owner or maintenance company desire to discontinue the maintenance contract. The maintenance company shall notify, in writing the permitting authority at least 30 days prior to the date service will cease. If a maintenance company continues business, the owner shall within 30 days of the termination date, contract with another approved maintenance company and provide the permitting authority with a copy of the newly signed maintenance agreement.

- () Initial two (2) year maintenance contract. (Keep Pink Copy)
- (✓) On-going maintenance contract.

Contract - 175.00

Fee 11.00

David Johnson Services
1196 Sky Line Road
Dale, TX 78616-2441
(512)243-1190

TCEQ Installer II
OS-5047

Location

136 Hancey Trl

Bastrop, TX 78002

Gregg Kim

David Johnson

Property Owner(s)
Name(s) Print
Property Owner(s)
Signature(s)
Maintenance Company
Name(s) Print
Owner/Certified Technician
Signature(s)

Sign on x
mail back
paid
separate
check for fee