

April 16, 1993

GMP # 22

MEMORANDUM

TO: District Directors  
Environmental Health Managers  
Environmental Health Supervisors  
Environmental Health Specialists

FROM: David Effert, Technical Services Chief  
Division of Onsite Sewage and Water Services

SUBJECT: ATU Approval Update

Attached is an updated list of ATU's which have received ANSI/NSF, Standard 40 Class I approval, and may be used where 30-30 effluent limits apply under the Alternative Discharging Sewage Treatment Regulations for Single Family Dwellings. Specifically, the Aquarobic International, Inc. concrete cast products including: the Mini-plant 54291-5-100, the Mini-plant 54291-6, the Mini-plant 54291-7, the Mini-plant 54291-7.5, the Mini-plant 54291-8, the Mini-plant 54291-9, and the Mini-plant 54291-10 have been added to the Virginia List of Approved Aerobic Units. These plants utilize concrete tanks. The structural requirements for the tank, in accordance with Standard 40, must be capable of withstanding hydraulic and soil pressures, whether empty or full, without collapsing or rupturing. The inside surfaces of the tanks must be free of spalls, honeycombs, and pits. Dimensionally, the tank must have a hydraulic capacity equal to at least three times the rated treatment capacity, and must have a length to width ratio of 2:1. Items which must be installed or added onto the concrete tanks include a control panel, aeration system, alarm system, and required transfer pumps. **All of these concrete tank units require the use of the Aquarobic International, Inc. Model 3,000 filter kit to comply with NSF Class I Standard 40 requirements.**

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In addition, the system entitled the "VIRGINIA 600 MINI-PLANT/FILTER AND DISINFECTION IN FIBERGLASS TANK" as manufactured by Aquarobic International, Inc. has been added to the Virginia List of Approved Aerobic Units.

Please note that any discharging treatment unit, including those placed on the Virginia List of Approved Aerobic Units, must meet all of the requirements of the Alternative Discharging Sewage Treatment Regulations for Single Family Dwellings before an operation permit will be issued.

The attached list replaces GMP # 21 which is hereby rescinded.

DDE/

cc: Environmental Health Project Managers  
Division of Onsite Sewage and Water Staff  
Contract Soil Scientists  
Dr. Cal Sawyer, P.E.

**GMP #22**

**Sewage - Discharge - Product Approval**

Aerobic Treatment Units With  
Preliminary Approval by the  
Office of Environmental Health Services  
April 16, 1992

**Manufacturer and Model** **Capacity (GPD)**

Aquarobic Limited

|                         |       |
|-------------------------|-------|
| Mini-Plant F54291-5-S   | 500   |
| Mini-Plant F54291-6-S   | 600   |
| Mini-Plant F54291-7-S   | 700   |
| Mini-Plant F54291-7.5-S | 750   |
| Mini-Plant F54291-8-S   | 800   |
| Mini-Plant F54291-9-S   | 900   |
| Mini-Plant F54291-10-S  | 1,000 |

|   |       |
|---|-------|
| Mini-Plant 54291-5-100 w/Model 3,000 filter | 500   |
| Mini-Plant 54291-6 w/Model 3,000 filter     | 600   |
| Mini-Plant 54291-7 w/Model 3,000 filter     | 700   |
| Mini-Plant 54291-7.5 w/Model 3,000 filter   | 750   |
| Mini-Plant 54291-8 w/Model 3,000 filter     | 800   |
| Mini-Plant 54291-9 w/Model 3,000 filter     | 900   |
| Mini-Plant 54291-10 w/Model 3,000 filter    | 1,000 |

|   |     |
|---|-----|
| VIRGINIA 600 MINI-PLANT/FILTER AND DISINFECTION FIBERGLASS TANK | 600 |
|---|-----|

Clearstream Wastewater Systems, Inc.

|             |       |
|-------------|-------|
| Model 500N  | 500   |
| Model 600N  | 600   |
| Model 750N  | 750   |
| Model 1000N | 1,000 |

Jet Inc.

None at present time

Multi-Flo Waste Treatment Systems, Inc.

|          |       |
|----------|-------|
| FTB-0.5  | 500   |
| FTB-0.6  | 600   |
| FTB-0.75 | 750   |
| FTB-1.0  | 1,000 |

Aerobic Treatment Units With  
Preliminary Approval by the  
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| <b>Manufacturer and Model</b>    | <b>Capacity (GPD)</b> |
|----------------------------------|-----------------------|
| Nayadic Sciences, Inc.           |                       |
| Nayadic M-6A-F                   | 400                   |
| Nayadic M-6A                     | 400                   |
| Nayadic M-8A-F                   | 600                   |
| Nayadic M-8A                     | 600                   |
| Nayadic M-1050A-F                | 800                   |
| Nayadic M-1050A                  | 800                   |
| Norweco, Inc.                    |                       |
| Singlair 900 System              | 500                   |
| Scienco/FAST                     |                       |
| Single Home FAST Treatment Plant |                       |
| Model 23-001-750                 | 500                   |
| Model 23-001-1100                | 750                   |
| Model 23-001-1350                | 900                   |