Proven Performance

- Design proven through certification testing
- Achieved results
- Proven through increased Sales
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount in 100 L</th>
<th>Product example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunscreen or Moisturizer</td>
<td>1.5 g</td>
<td>Commercially available sunscreen or moisturizer</td>
</tr>
<tr>
<td>Toothpaste</td>
<td>3.25 g</td>
<td>Commercially available toothpaste</td>
</tr>
<tr>
<td>Deodorant</td>
<td>1 g</td>
<td>Commercially available deodorant</td>
</tr>
<tr>
<td>Na₂SO₄</td>
<td>3.5 g</td>
<td>Analytical grade</td>
</tr>
<tr>
<td>NaHCO₃</td>
<td>2.5 g</td>
<td>Commercially available product</td>
</tr>
<tr>
<td>Na₂PO₄</td>
<td>3.9 g</td>
<td>Analytical grade</td>
</tr>
<tr>
<td>Clay</td>
<td>10 g</td>
<td>Industrial grade</td>
</tr>
<tr>
<td>Vegetable oil</td>
<td>50 mL</td>
<td>Commercially available vegetable oil</td>
</tr>
<tr>
<td>Vegetable soup</td>
<td>50 g</td>
<td>Commercially available product</td>
</tr>
<tr>
<td>Full cream milk</td>
<td>60 mL</td>
<td>Commercially available full cream milk</td>
</tr>
<tr>
<td>Lard</td>
<td>25 g</td>
<td>Commercially available product (100% animal fat)</td>
</tr>
<tr>
<td>Shampoo/handwashing liquid</td>
<td>72 g</td>
<td>Commercially available shampoo/handwashing liquid</td>
</tr>
<tr>
<td>Laundry</td>
<td>15 g</td>
<td>Commercially available laundry powder</td>
</tr>
<tr>
<td>Dishwashing (sink) detergent</td>
<td>1 mL</td>
<td>Commercially available dishwashing detergent</td>
</tr>
<tr>
<td>Dishwasher detergent</td>
<td>5 g</td>
<td>Commercially available dishwasher detergent</td>
</tr>
<tr>
<td>Secondary effluent (see Note)</td>
<td>4 L</td>
<td>Collected from secondary clarifier</td>
</tr>
</tbody>
</table>
## Certification Test Results
Discharge Specification and Statistics

### AEROFLOAT CERTIFICATION TO AS 4995 2009 - appendix A results

<table>
<thead>
<tr>
<th>Treated Effluent</th>
<th>units</th>
<th>Discharge Criteria</th>
<th>% passed</th>
<th>% required to pass</th>
<th>Average % removal</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD</td>
<td>mg/L</td>
<td>Reduction</td>
<td>100%</td>
<td>90%</td>
<td>89.2%</td>
</tr>
<tr>
<td>E.coli</td>
<td>/100mL</td>
<td>&lt;100</td>
<td>98%</td>
<td>95%</td>
<td>99.99%</td>
</tr>
<tr>
<td>Enterococci</td>
<td>/100mL</td>
<td>&lt; 40</td>
<td>100%</td>
<td>95%</td>
<td>97.5%</td>
</tr>
<tr>
<td>Oil and Grease</td>
<td>mg/L</td>
<td>&lt;25</td>
<td>100%</td>
<td>90%</td>
<td>95.9%</td>
</tr>
<tr>
<td>Total Phosphorus</td>
<td>mg/L</td>
<td>&lt; 1</td>
<td>100%</td>
<td>90%</td>
<td>96.2%</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>mg/L</td>
<td>&lt; 50</td>
<td>100%</td>
<td>90%</td>
<td>92.5%</td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>mg/L</td>
<td>&lt;10</td>
<td>100%</td>
<td>90%</td>
<td>43.0%</td>
</tr>
</tbody>
</table>
## Certification Test Results
### Influent and Effluent Values

<table>
<thead>
<tr>
<th></th>
<th>Average</th>
<th>90th percentile</th>
<th>% removal</th>
<th>% removal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Influent</td>
<td>Effluent</td>
<td>Influent</td>
<td>Effluent</td>
</tr>
<tr>
<td><strong>BOD$_5$</strong></td>
<td>mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>664</td>
<td>71.6</td>
<td>89%</td>
<td>987</td>
</tr>
<tr>
<td><strong>E.coli</strong></td>
<td>/100mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>231714</td>
<td>11</td>
<td>100%</td>
<td>89200</td>
</tr>
<tr>
<td><strong>Enterococci</strong></td>
<td>/100mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>156</td>
<td>4</td>
<td>98%</td>
<td>396</td>
</tr>
<tr>
<td><strong>Oil and Grease</strong></td>
<td>mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>389</td>
<td>9.9</td>
<td>97%</td>
<td>783</td>
</tr>
<tr>
<td><strong>Phosphorus - Total</strong></td>
<td>mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11.7</td>
<td>0.4</td>
<td>96%</td>
<td>14.3</td>
</tr>
<tr>
<td><strong>Suspended Solids</strong></td>
<td>mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>321</td>
<td>24</td>
<td>92%</td>
<td>472</td>
</tr>
<tr>
<td><strong>Total Nitrogen</strong></td>
<td>mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.2</td>
<td>4.7</td>
<td>43%</td>
<td>9.8</td>
</tr>
</tbody>
</table>
Discussion on Total Nitrogen and BOD$_5$

- Total BOD vs Soluble BOD
- Aerofloat will not remove soluble Nitrogen or BOD
- Shampoos main contributor to soluble Nitrogen
- Can use Sodium based rather than Ammonia based shampoo
- Kitchen Waste Main Contributor to Soluble BOD
- Kitchen waste can be collected with Blackwater
Aerofloat 3500 design complete
• A more sophisticated design for larger applications
Market Opportunity - Marine Applications

• 200, 350, 450, 750 all currently operational in Australian houseboats
• Applicable also to bilge water treatment
• Land based collection systems?

<table>
<thead>
<tr>
<th>Aerofloat Model number</th>
<th>Treatment capacity litres / hour</th>
<th>Suitable for the following number of berths</th>
<th>Hours of operation per day</th>
<th>Dimensions Height-mm x width-mm x depth-mm</th>
<th>Holding tank size - length of 300mm pipe -metres</th>
<th>Operating Weight - Kg</th>
<th>Power usage - 240 Voltage supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>200</td>
<td>2 to 4</td>
<td>1.5 - 3.0</td>
<td>1000x750x570</td>
<td>6</td>
<td>195.00</td>
<td>270 watts</td>
</tr>
<tr>
<td>350</td>
<td>350</td>
<td>4 to 6</td>
<td>1.7 - 2.6</td>
<td>1200x750x570</td>
<td>6</td>
<td>245.00</td>
<td>270 watts</td>
</tr>
<tr>
<td>450</td>
<td>450</td>
<td>6 to 8</td>
<td>2.0 - 2.7</td>
<td>1000x930x630</td>
<td>6.0 - 10.0</td>
<td>295.00</td>
<td>410 watts</td>
</tr>
<tr>
<td>750</td>
<td>750</td>
<td>6 to 12</td>
<td>1.2 to 2.4</td>
<td>1630x930x630</td>
<td>6.0-9.0</td>
<td>395.00</td>
<td>410 watts</td>
</tr>
</tbody>
</table>
Treated Effluent Comparison with River Water
EPA Letter of Recognition

EPA 05/11702

Mr Ray Anderson
Managing Director
Aerofloat (Australia) Pty Ltd
PO Box 884
CARINGBAH NSW 1495

Dear Mr Anderson,

I refer to your request dated Friday 12 March 2010, regarding Environment Protection Authority (EPA) recognition that the Aerofloat greywater treatment plant is suitable to manufacture and market for use on-board vessels travelling on South Australia’s inland waters.

The legislative requirements in relation to on-board greywater treatment systems in South Australia are set out in the Code of Practice for Vessel and Facility Management (marine and inland waters). The discharge standards are summarised as follows:

- Suspended solids less than 50mg/L
- Total grease content of less than 25 mg/L
- Nitrogen content of less than 10 mg/L
- Phosphorus content of less than 1 mg/L
- Enterococci of less than 40 cells per 100mL
- Biochemical oxygen demand is reduced by digestion, oxidation or other recognised treatment method.

Based on the water quality results and the final report titled “Aerofloat Greywater Treatment Plant Report on Results of Prototype and Unforgettable Number 3 Treatment Units V4”, of the recent commercial trials undertaken in conjunction with the EPA and Unforgettable Houseboats Pty Ltd, I can confirm that (provided the plant is operated in accordance with your operating and maintenance procedures), the Aerofloat greywater treatment plant meets the on-board greywater treatment system discharge standards for vessels travelling in South Australia’s inland waters.

On behalf of the EPA, I congratulate Aerofloat (Australia) Pty Ltd and your associates for your commitment and achievements throughout the development of this new and exciting technology and we look forward to working with you in the future.

Yours sincerely,

Peter Dolan
DIRECTOR
SCIENCE & ASSESSMENT DIVISION
ENVIRONMENT PROTECTION AUTHORITY

Date: 24/3/10
Based on the water quality results and the final report titled “Aerofloat Greywater Treatment Plant Report on Results of Prototype and Unforgettable Number 3 Treatment Units V4”, of the recent commercial trials undertaken in conjunction with the EPA and Unforgettable Houseboats Pty Ltd, I can confirm that (provided the plant is operated in accordance with your operating and maintenance procedures), the Aerofloat greywater treatment plant meets the on-board greywater treatment system discharge standards for vessels travelling in South Australia’s inland waters.

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Yours sincerely,

PETER DOLAN
DIRECTOR
SCIENCE & ASSESSMENT DIVISION
ENVIRONMENT PROTECTION AUTHORITY
Date: 24/3/16