STA-1W Adaptive Management and Recovery Plan for STA-1W

Everglades Division
Table 1. Revised design parameters for STA-1W.

<table>
<thead>
<tr>
<th></th>
<th>PeakFlow</th>
<th>AverageFlow</th>
<th>TP Conc</th>
<th>Average Hydraulic Loading Rate</th>
<th>Peak Hydraulic Loading Rate</th>
<th>Average Nutrient Loading Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>cm/d</td>
<td>cm/d</td>
<td>g/m²/yr</td>
<td>cm/d</td>
<td>g/m²/yr</td>
<td>cm/d</td>
</tr>
<tr>
<td>Inflow</td>
<td>3,250</td>
<td>159,985</td>
<td>139</td>
<td>2.00</td>
<td>29.46</td>
<td>1.01</td>
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<tr>
<td>Outflow</td>
<td>3,490</td>
<td>188,100</td>
<td>24-30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
STA Relative Loads

![Graph showing STA Relative Loads with data points for H₂O and TP at different STA locations.](image-url)
Design vs. Actual

- **FLOW**
  - Mean annual design inflow of 160,000 ac-ft.
  - 109,912 ac-ft loaded in September 2004, 65% of the annual design loading rate

- **TP Concentration**
  - Mean design assumption of 139 ppb
  - May 1994 through September 2004 flow-weighted mean inflow TP concentration of 151 ppb
  - Mean TP inflow concentrations during September 2004 of 296 ppb
STA-1W
30-day Cumulative vs. Design Envelope

Low  Trending upward
STA-1W Recovery Plan

- Provide a methodology and time scale to restore and enhance the nutrient removal performance of the STA-1W.
  
  - Achieved through hydrologic control, construction of enhancements, vegetation management, monitoring and assessment, and continued communication with stakeholders

- Monitoring and assessment of the performance data will occur throughout this recovery period in order to provide operational guidelines and promote adaptive management decisions throughout the recovery process