Evaluation of Sunken Brook, Dighton, Massachusetts

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Evaluation of Sunken Brook
Dighton, MA
2001

by the Water Resources Class 2001
Landuse of the Sunken Brook Watershed
Securing Hydro Labs in Sunken Brook at Center St.
Collecting Benthic Macro-invertebrates
Identifying and Sorting Specimens
Take data from the field and...

... crunch the numbers.
Discharge: Sunken Brook
Dighton, Massachusetts March 2001

<table>
<thead>
<tr>
<th>liters/day</th>
<th>STW</th>
<th>STM</th>
<th>SC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2,926,022.40</td>
<td>428,606.21</td>
<td>17,556,134.4</td>
</tr>
</tbody>
</table>

Bar chart showing discharge volumes for STW, STM, and SC.
**Nutrient Load**

![Graph displaying nutrient load](image)

**Average Nutrient Level**

<table>
<thead>
<tr>
<th></th>
<th>mg P/L</th>
<th>mg N-NO3/L</th>
<th>Average Load</th>
<th>mg P/day</th>
<th>mg N-NO3/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM</td>
<td>0.01</td>
<td>1.70</td>
<td>STM</td>
<td>3,428.85</td>
<td>729,344.90</td>
</tr>
<tr>
<td>STW</td>
<td>0.01</td>
<td>0.10</td>
<td>STW</td>
<td>23,408.18</td>
<td>292,602.24</td>
</tr>
<tr>
<td>SC</td>
<td>0.01</td>
<td>0.32</td>
<td>SC</td>
<td>204,821.57</td>
<td>5,530,182.34</td>
</tr>
</tbody>
</table>

*Bold and italicized reading were below detectable limits and are reported as the*
Optimum N:P Ratio = 16:1
Where did the excess nitrogen come from?

- Agricultural Run Off
- Lawn Chemicals
- Industrial Waste
Limitations:

Site Access

Equipment

Security

Bio-

assessment Method

Time of Year
Thank You