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Evaluation of Sunken Brook, Dighton, Massachusetts

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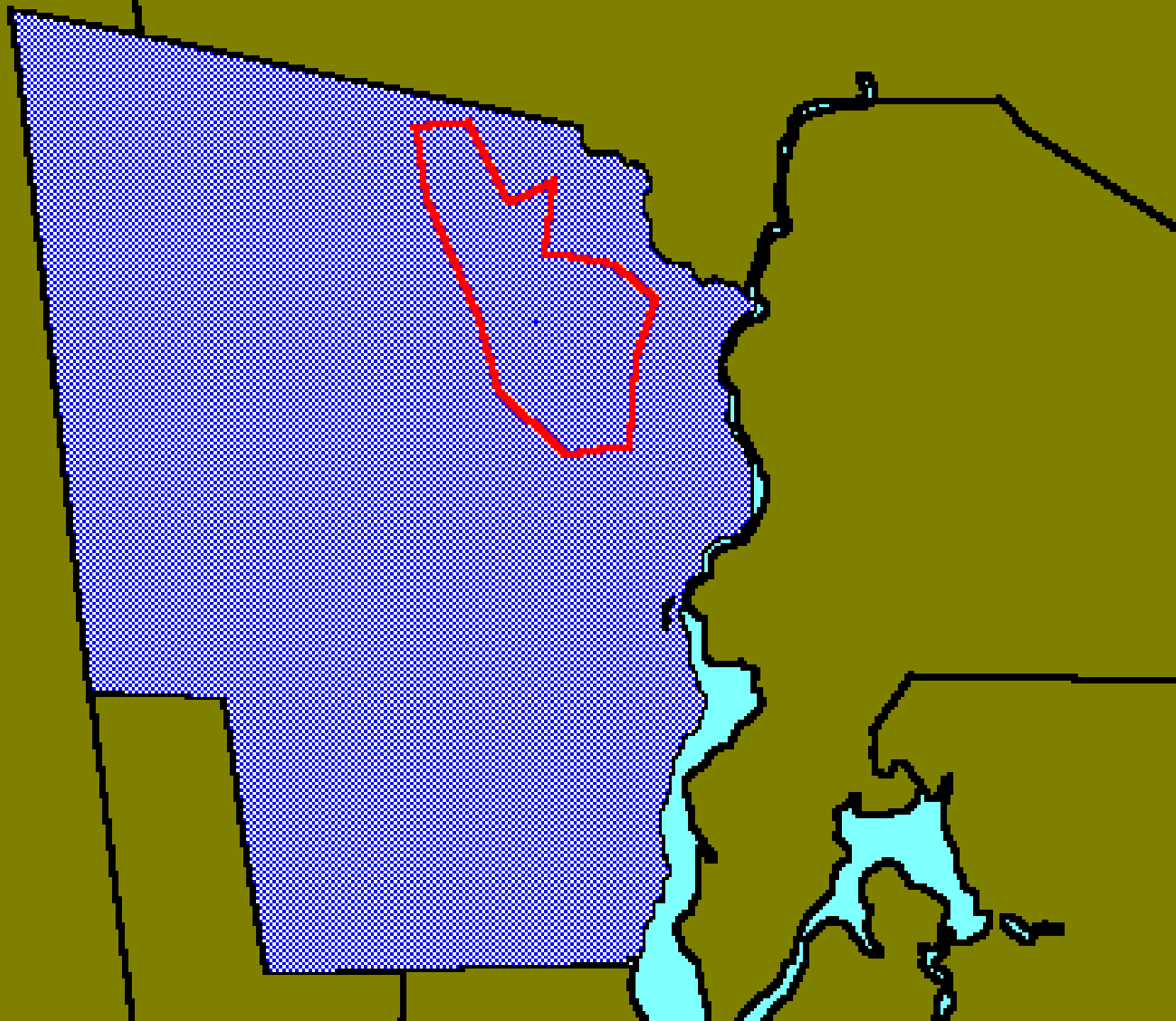
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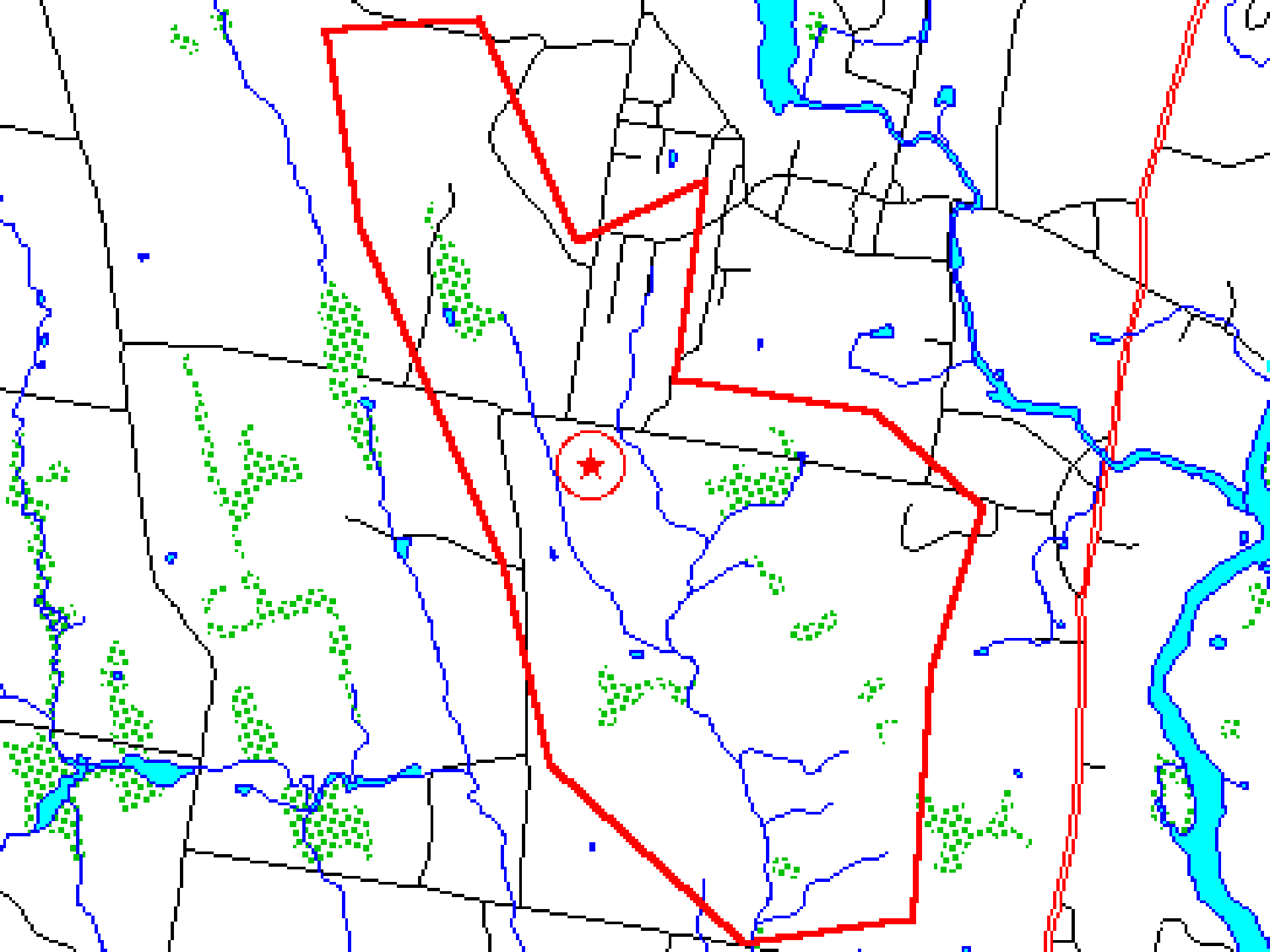
Evaluation of Sunken Brook

Dighton, MA

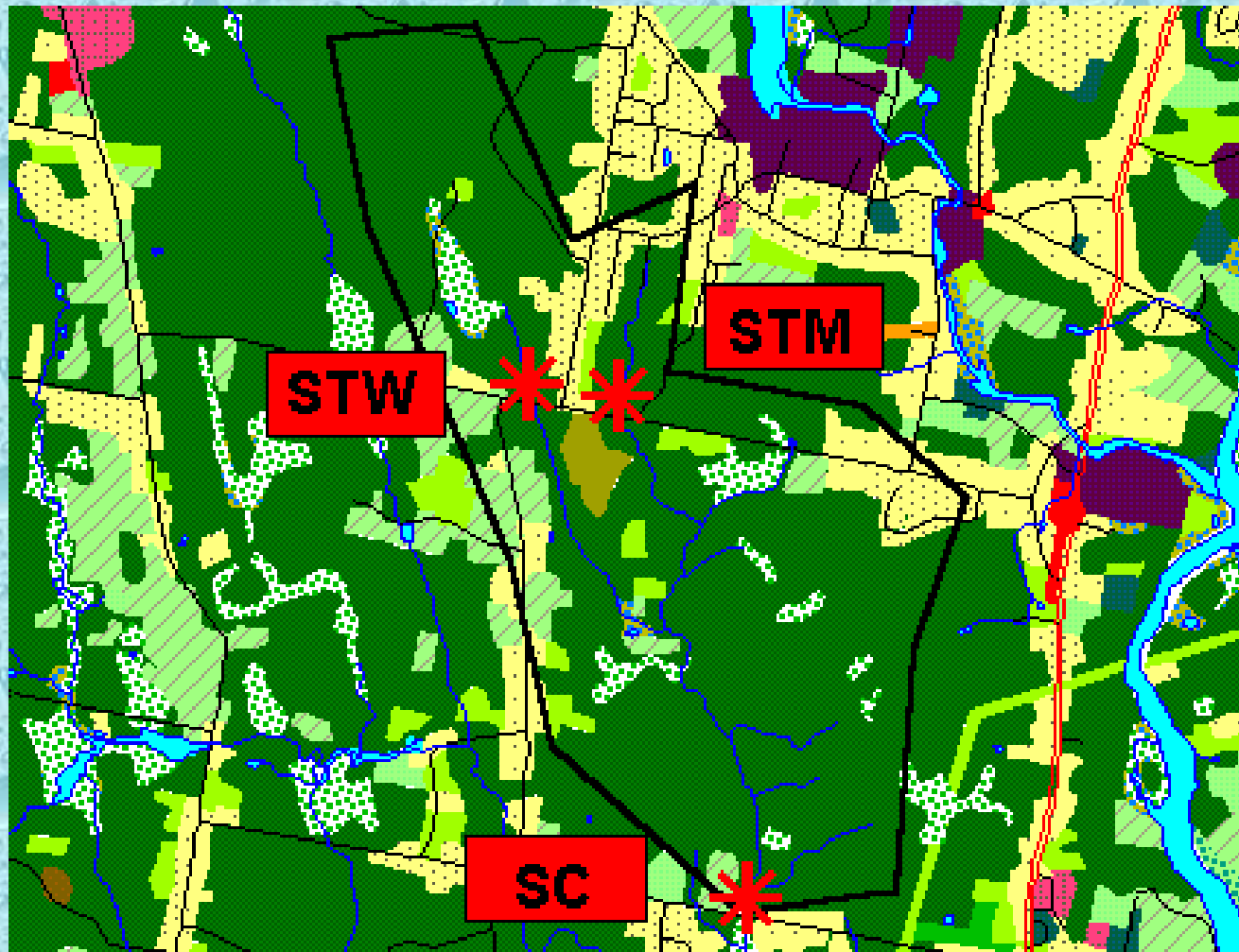
2001

by the Water Resources Class 2001





Landuse of the Sunken Brook Watershed









STW

STM

SC



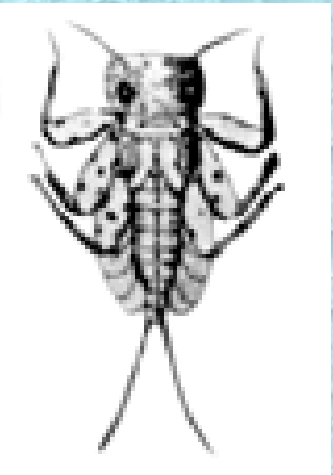
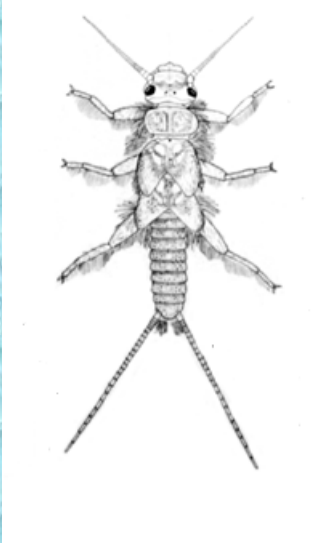


Securing Hydro Labs in Sunken Brook at Center St.





Collecting Benthic Macro-invertebrates



Identifying and Sorting Specimens



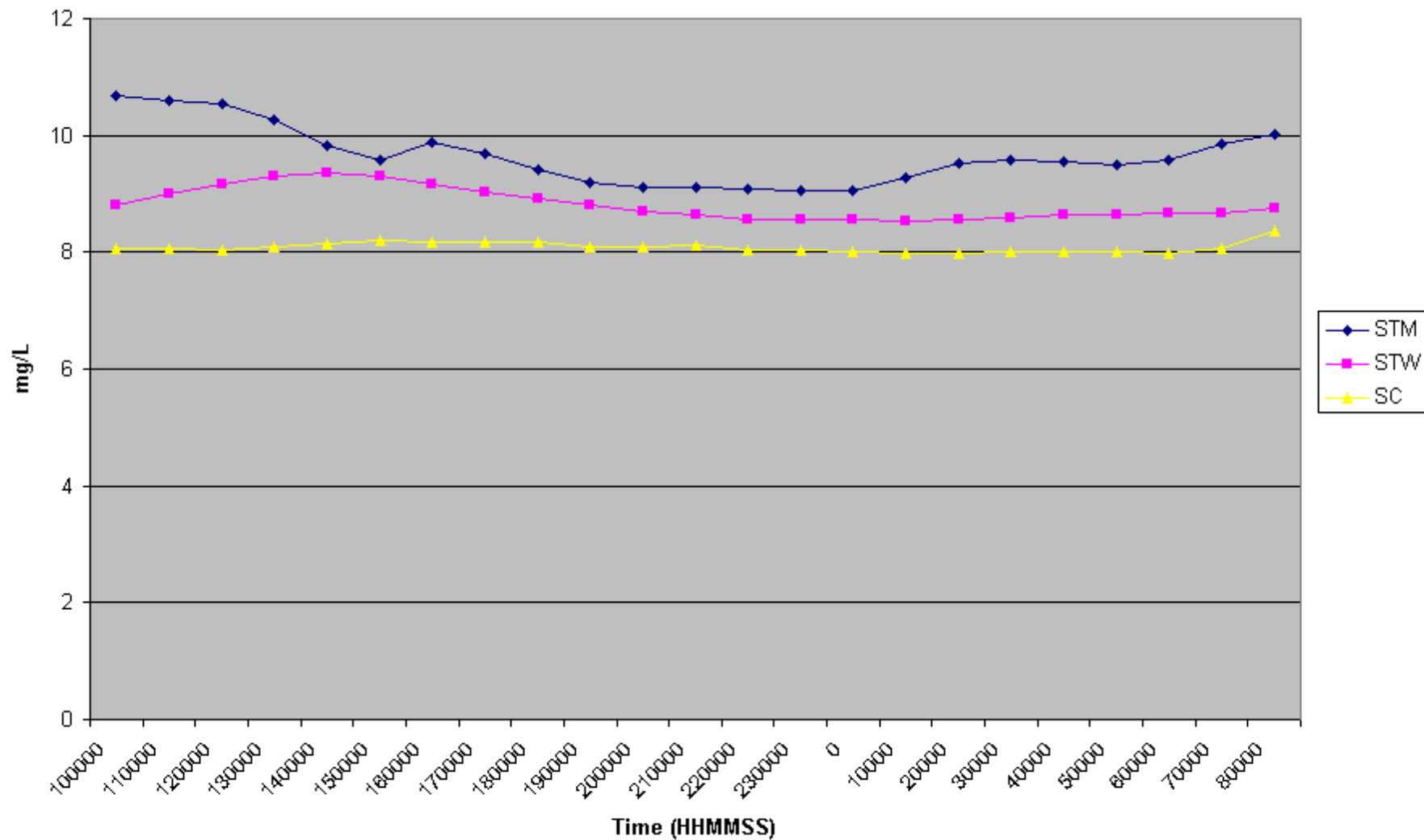


Take data from
the field and...

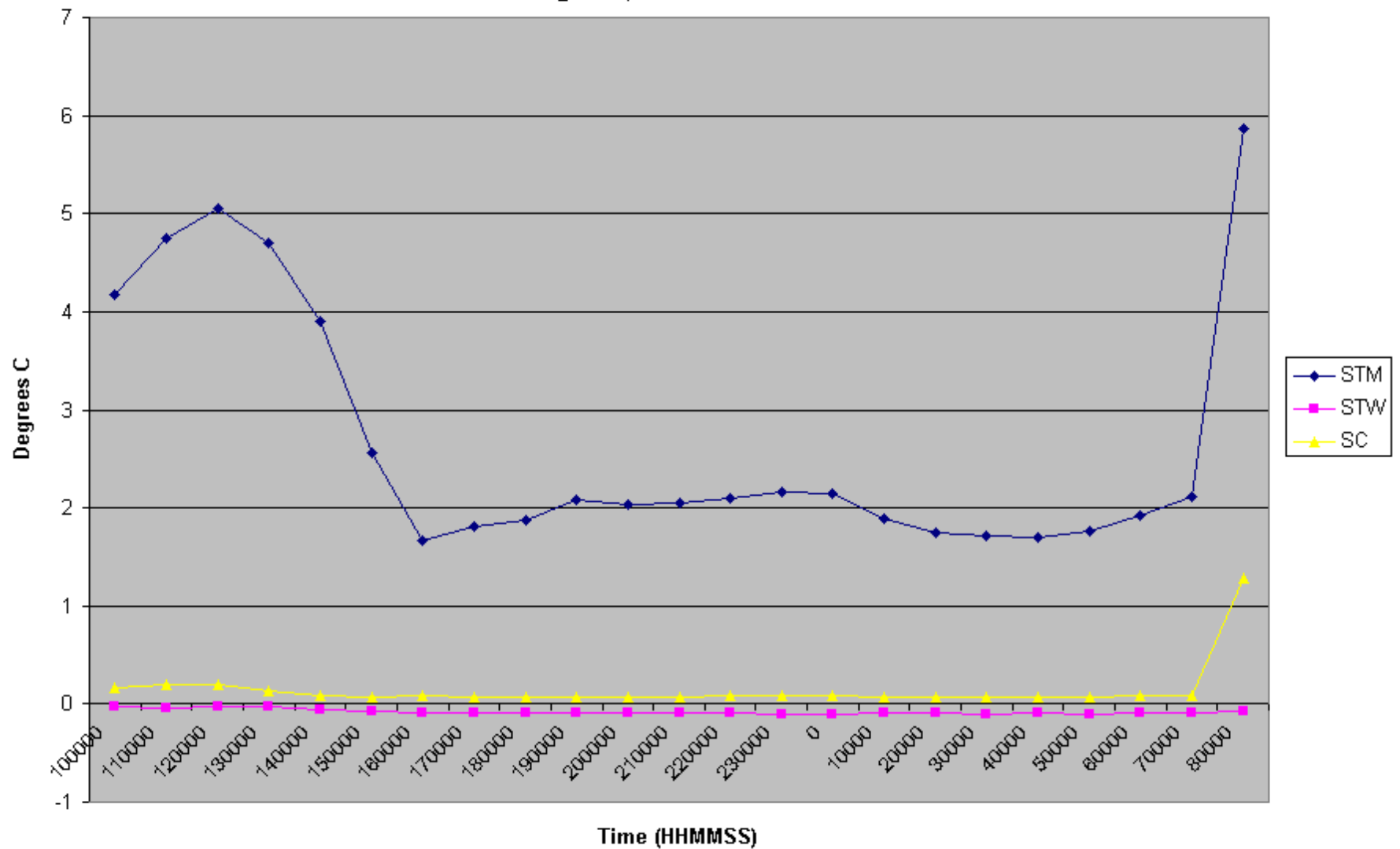
... crunch the numbers.



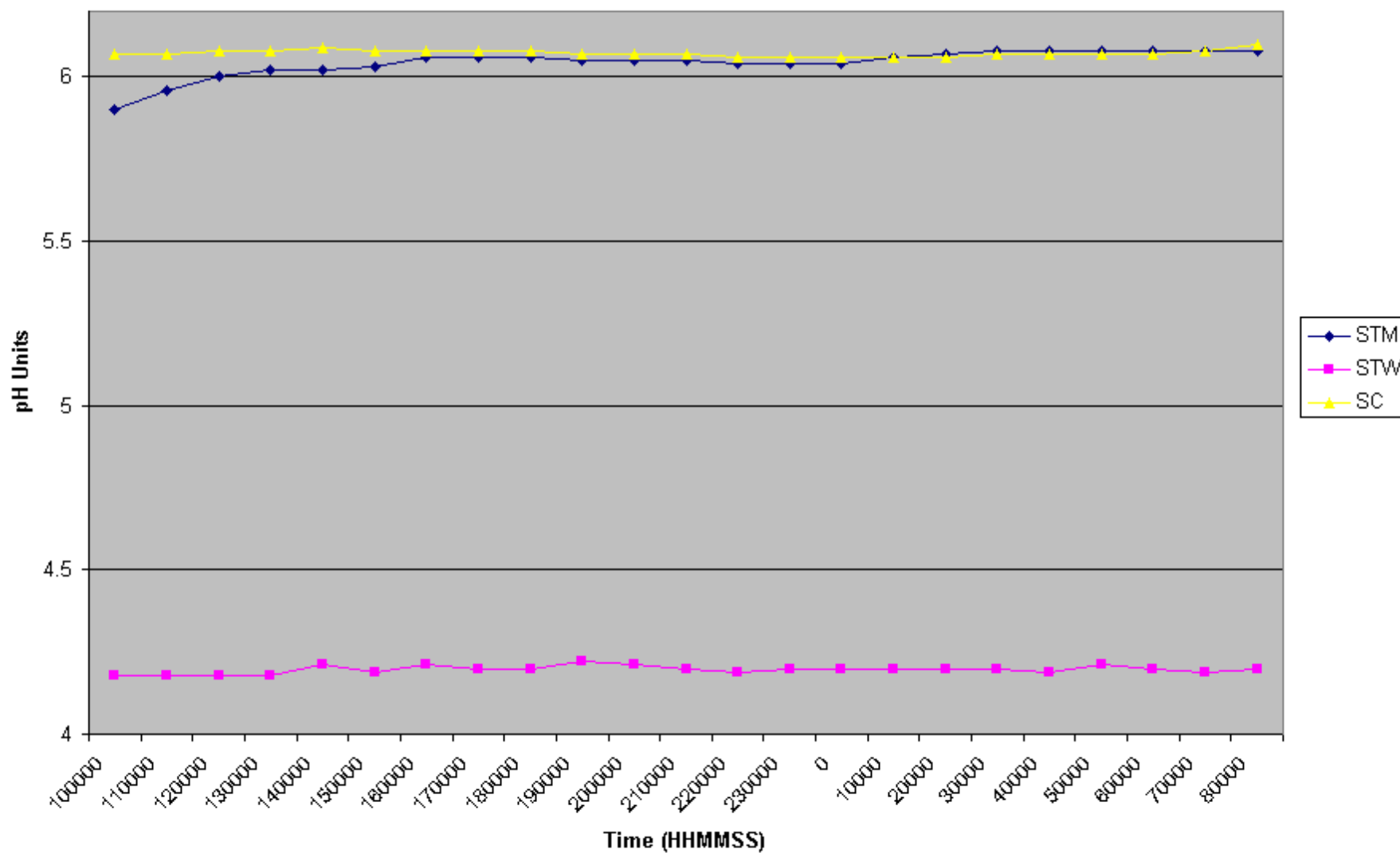
Dissolved Oxygen: Sunken Brook
Dighton, MA 9 March 2001



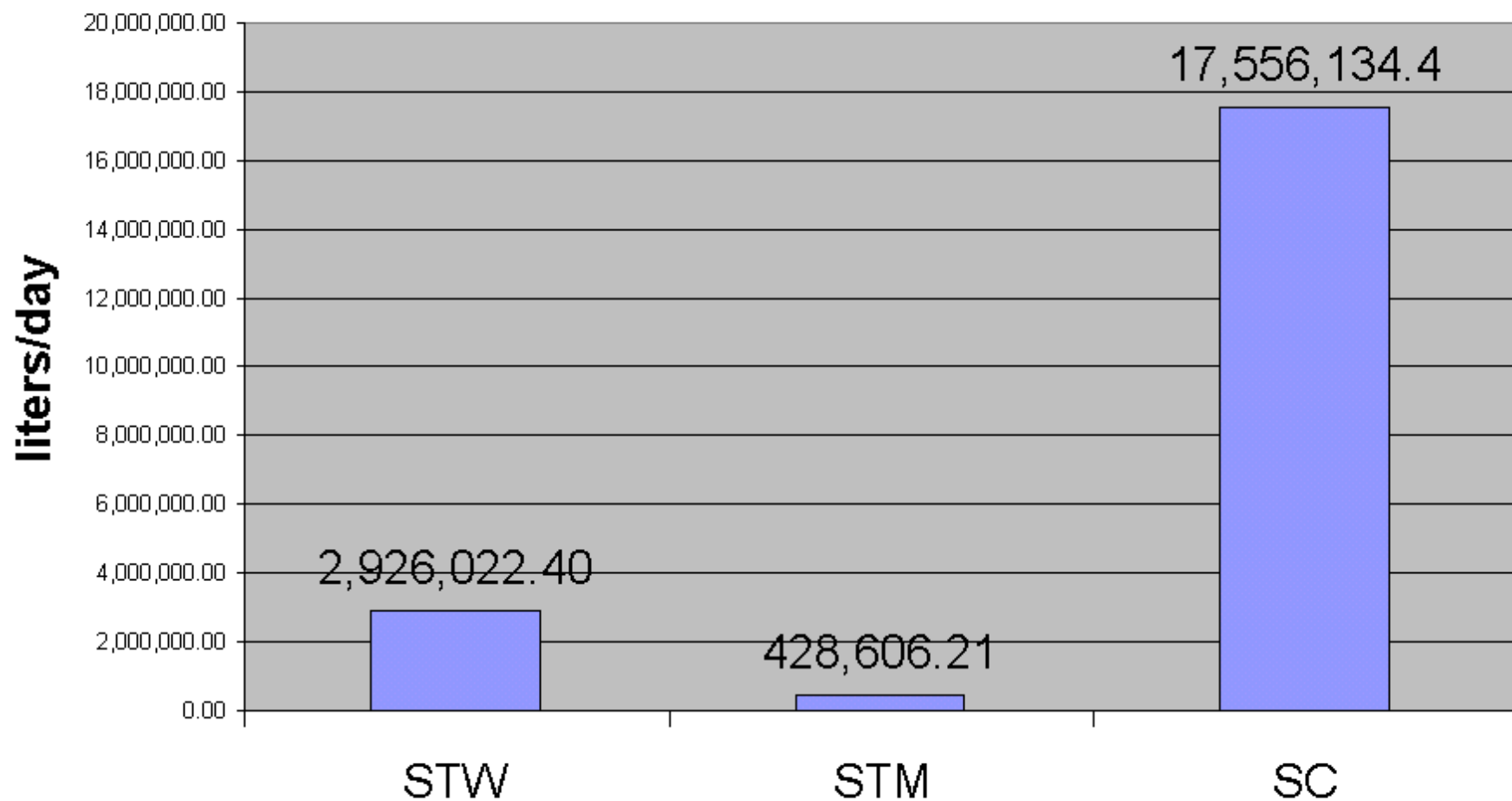
Temperature: Sunken Brook
Dighton, MA 09 March 2001



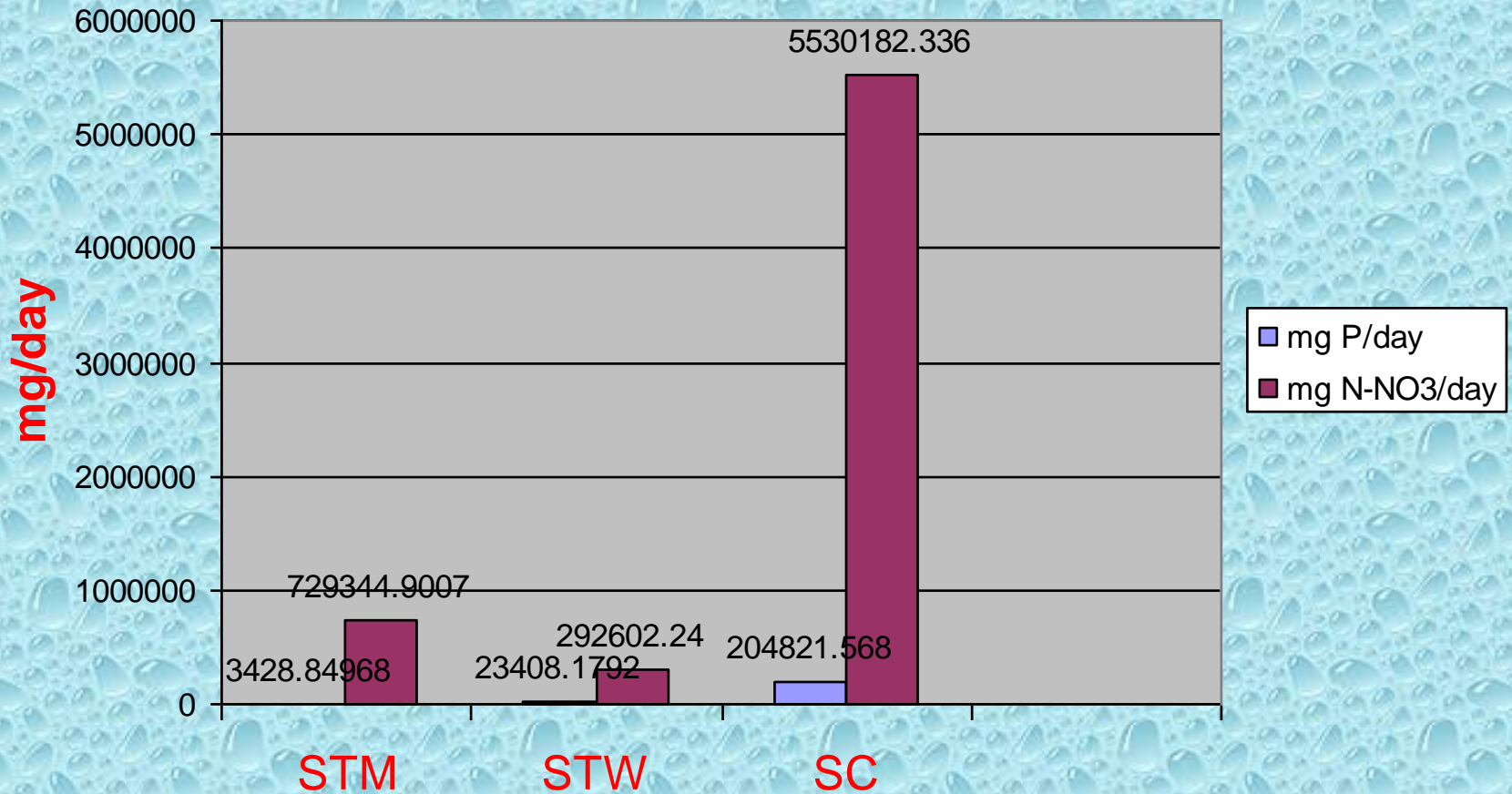
pH: Sunken Brook
Dighton, MA 9 March 2001



Discharge: Sunken Brook Dighton, Massachusetts March 2001



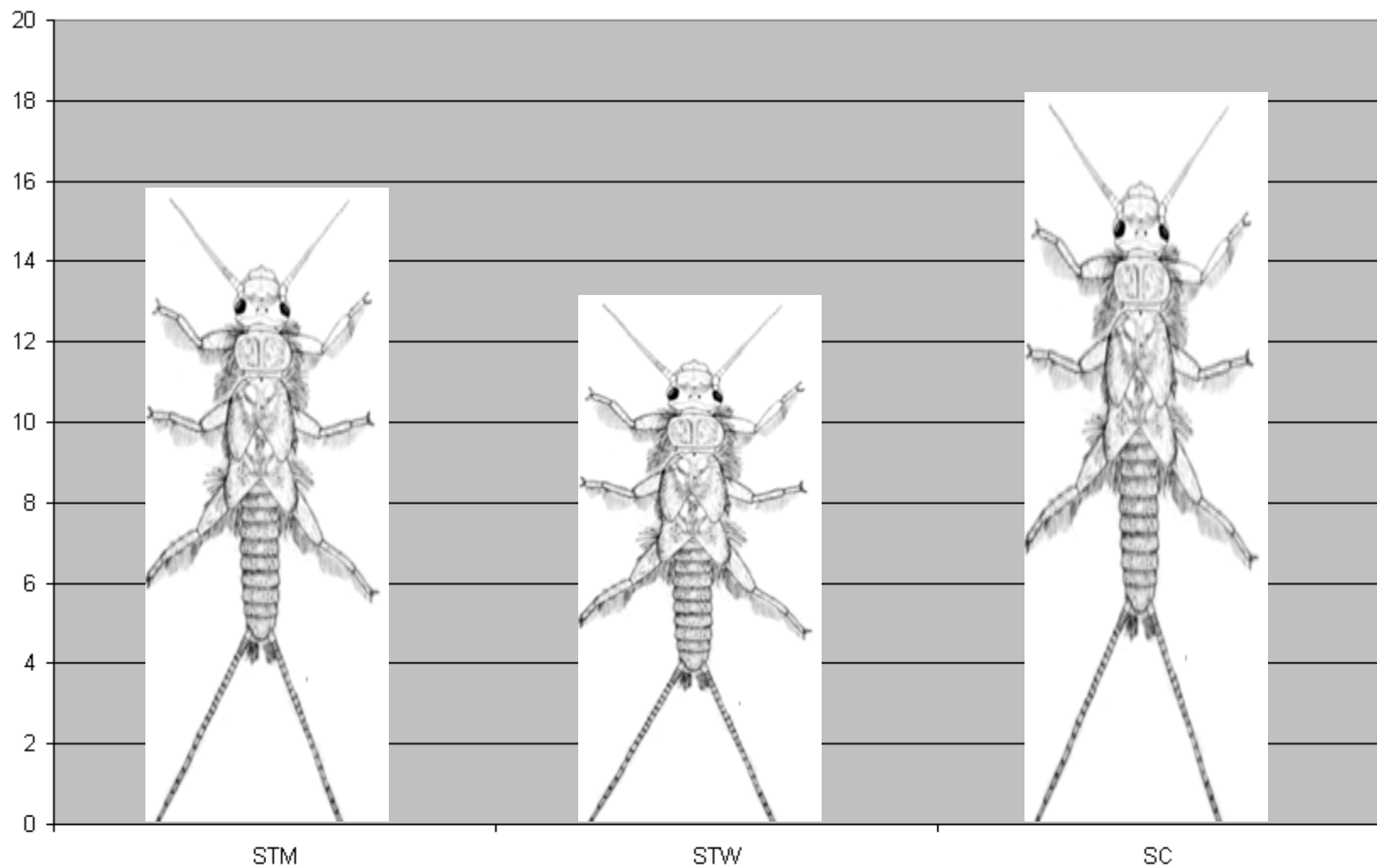
Nutrient Load



| Average Nutrient Level | | mg P/L | mg N-NO3/L | Average Load | | mg P/day | mg N-NO3/day |
|------------------------|-----|-------------|-------------|--------------|-----|------------|--------------|
| | STM | <i>0.01</i> | 1.70 | | STM | 3,428.85 | 729,344.90 |
| | STW | <i>0.01</i> | <i>0.10</i> | | STW | 23,408.18 | 292,602.24 |
| | SC | <i>0.01</i> | 0.32 | | SC | 204,821.57 | 5,530,182.34 |
| | | | | | | | |

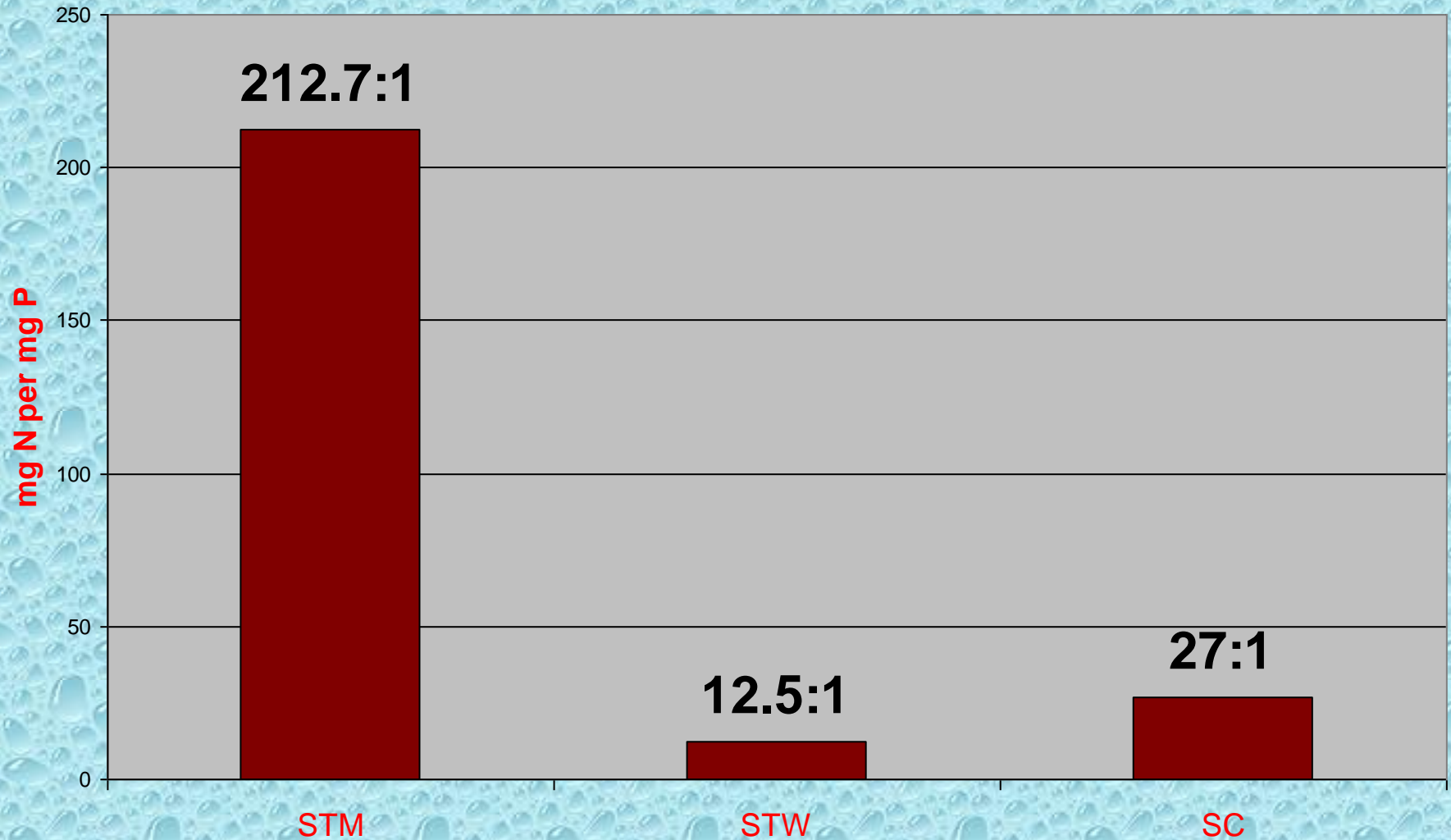
* *Bold and Italicized reading were below dectecable limits and are reported as the*

Benthic Macroinvertebrate Survey SOS Rating
Sunken Brook Dighton, MA 14 March 2001





N:P Nutrient Ratios



Optimum N:P Ratio = 16:1

Where did the excess nitrogen come from?



Agricultural Run Off



Lawn Chemicals



Industrial Waste



STW

STM



SC

Limitations:



Time of Year

Thank You

