

PLANKTON STUDIES IN SAN FRANCISCO BAY.

IV. PHYTOPLANKTON ABUNDANCE AND SPECIES COMPOSITION,  
JANUARY 1980 - FEBRUARY 1981.

Raymond L. J. Wong and James E. Cloern

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San Francisco Bay estuary

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JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas Peck, Director

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ABSTRACT

Data are presented on the phytoplankton species composition and abundance in San Francisco Bay from January 1980 through February 1981. Phytoplankton were identified and enumerated in surface samples collected approximately every two weeks at selected stations in the main channel of the Bay, and at shoal stations in the central portion of South San Francisco Bay, San Pablo Bay, and Suisun Bay. Also reported are separate species lists for microphytoplankton ( $< 60\mu\text{m}$ ), and macrophytoplankton ( $> 60\mu\text{m}$ ).

## INTRODUCTION

The U. S. Geological Survey made physical, biological, and geochemical studies in the San Francisco Bay estuarine system from January 1980 through February 1981 (CY80). Data presented in this report summarize phytoplankton species composition and abundance at selected sites in the San Francisco Bay estuarine system during CY80, and represent a continuation of a study started in 1977 (Wong and Cloern, 1981). Phytoplankton samples were routinely collected approximately every two weeks at 21 sites within the Bay system. From January 9, 1980 to February 10, 1981, 573 phytoplankton samples were collected and preserved. Of this total, 188 samples were enumerated: highest priority was given to samples taken simultaneously with those collected for measurements of phytoplankton primary production (Cole and others, 1982). Hence, this study focussed on representative deep-water and shallow-water sites in South Bay, San Pablo Bay, and Suisun Bay, and documents semi-monthly changes in phytoplankton community composition and biomass.

## METHODS

### 1. Sampling Methods

Samples were collected by pump, approximately every two weeks during the neap tidal cycle at selected locations (stations) (Figure 1, Table 1), between January 9, 1980 and February 10, 1981. Stations were located in deep water channels and adjacent shallow water areas from Calaveras Point in South San Francisco Bay to the town of Rio Vista on the Sacramento River and to the Three-Mile Slough on the San Joaquin River.

The CY80 shoal station locations were changed and encompass a more extensive geographic area than the shoal stations sampled in 1978-1979 (Wong and Cloern, 1981). In 1978-79, bottle samples were collected in the shoals from a small boat, and these discrete samples were later analyzed for dissolved

nutrients and plankton composition. Of the CY80 shoal stations, 126 and 418 correspond to the 1978-79 shoal stations 302 and 76 respectively. During CY80 the R/V Estero, a 30 foot shallow draft vessel, was used for continuous measurement of water chemistry, turbidity, temperature and salinity (Dedini and Schemel, 1981). Phytoplankton samples were collected at fixed locations along transects run by the R/V Estero, and cruise tracks of the vessel did not necessarily correspond with 1978-79 sampling locations.

Major objectives of this survey were: (1) to compare phytoplankton communities in the deep channel with those over the extensive shoals where nutrient and light availability and mixing rates are different; (2) to define seasonal patterns of changing biomass and composition of algal populations in the three major embayments of the San Francisco Bay system (South Bay, San Pablo Bay, Suisun Bay), and coastal water (Golden Gate, Station 19), (3) to compare phytoplankton community dynamics of 1980 with species composition and abundance measured the previous two years; (4) to estimate phytoplankton biomass as biovolume and carbon so that population growth rate can be calculated from measured primary productivity; and (5) to determine the size distribution of algal biomass.

## 2. Procedures

All samples were preserved in 125-mL Nalgene<sup>1</sup> bottles with 1% Lugol's solution having 10% acetate (Rodhe and others, 1958; Throndsen, 1978). An attempt was made to examine samples microscopically within one month after collection, to minimize loss of delicate flagellates.

In the laboratory, phytoplankton in aliquots from preserved samples were enumerated and identified to species, if possible, using the inverted microscope method (Lund, Kipling, and

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<sup>1</sup> The mention of brand names is for identification purposes and does not constitute endorsement by the U. S. Geological Survey.

LeCren, 1958; Hasle, 1978). Settling chambers were 2.6-cm high glass tubes having a 2.5-cm diameter. An adapter plate was designed to hold the chamber on the microscope stage. Aliquot volume ranged from 1 to 10-mL, depending on turbidity and chlorophyll-a concentration. Settling chambers were maintained in an ice-cooled chamber to prevent outgassing that inhibits settling of planktonic algae.

With few exceptions, samples were first enumerated at either x80 or x100 magnification to assure inclusion of macrophytoplankters (>60  $\mu\text{m}$ ), and then at x1000 magnification to assure inclusion of microphytoplankters (<60 $\mu\text{m}$ ), especially microflagellates. Phase microscopy was used during the enumeration. Usually, at each of the two magnifications, three aliquots were enumerated per sample, thus permitting calculation of confidence intervals around estimates of mean population abundance (Wong and Cloern, 1981). All the x80 or x100 enumerations were of the total chamber area, and during the x1000 enumerations, a maximum of 50 microscopic fields were examined per aliquot. Taxonomic identifications were based upon references listed in Appendix A.

Individual cells were measured with an ocular micrometer during enumeration. Mean cell dimensions were then calculated for each species, and the cell morphology was approximated with one of 12 geometric shapes (Appendix B), thus permitting calculation of mean cell volume for each species. From mean cell volume we then estimated carbon content of each species (Strathman, 1967). The dimensions, shape, volume and calculated carbon content of each species are tabulated in Appendices C and D, and population estimates are summarized in Appendix E.

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TABLE 1. San Francisco Bay Channel Stations

STATION NUMBERS	UTM COORDINATES		NORTH LATITUDE	WEST LONGITUDE
	NORTHINGS	EASTINGS		
557	4222.9	614.9	38 08.9'	121 41.3'
3	4211.8	598.4	38 03.0'	121 52.7'
6	4213.3	584.7	38 03.9'	122 02.1'
13	4211.4	572.5	38 03.0'	122 10.4'
17	4209.3	555.7	38 01.9'	122 21.9'
19	4192.6	550.6	37 52.9'	122 25.6'
27	4185.6	546.5	37 49.1'	122 28.9'
30	4169.4	562.5	37 37.1'	122 17.5'
36	4156.5	571.4	37 33.3'	122 11.5'
	4147.4	582.7	37 28.3'	122 03.8'

San Francisco Bay Shoal Stations

118	4156.0	574.0	37 33.0'	122 09.7'
126	4161.8	572.0	37 36.1'	122 11.1'
156	4165.8	570.3	37 38.3'	122 12.2'
162	4170.8	567.6	37 41.0'	122 14.0'
168	4175.1	565.3	37 43.3'	122 15.5'
312	4213.5	547.9	38 04.2'	122 27.2'
318	4215.7	553.3	38 05.4'	122 23.5'
324	4216.9	558.6	38 06.0'	122 19.9'
328	4213.5	560.0	38 03.2'	122 18.5'
416	4219.0	584.2	38 07.4'	122 02.4'
418	4218.8	586.7	38 06.9'	122 00.7'
420	4217.9	586.2	38 06.4'	122 01.0'

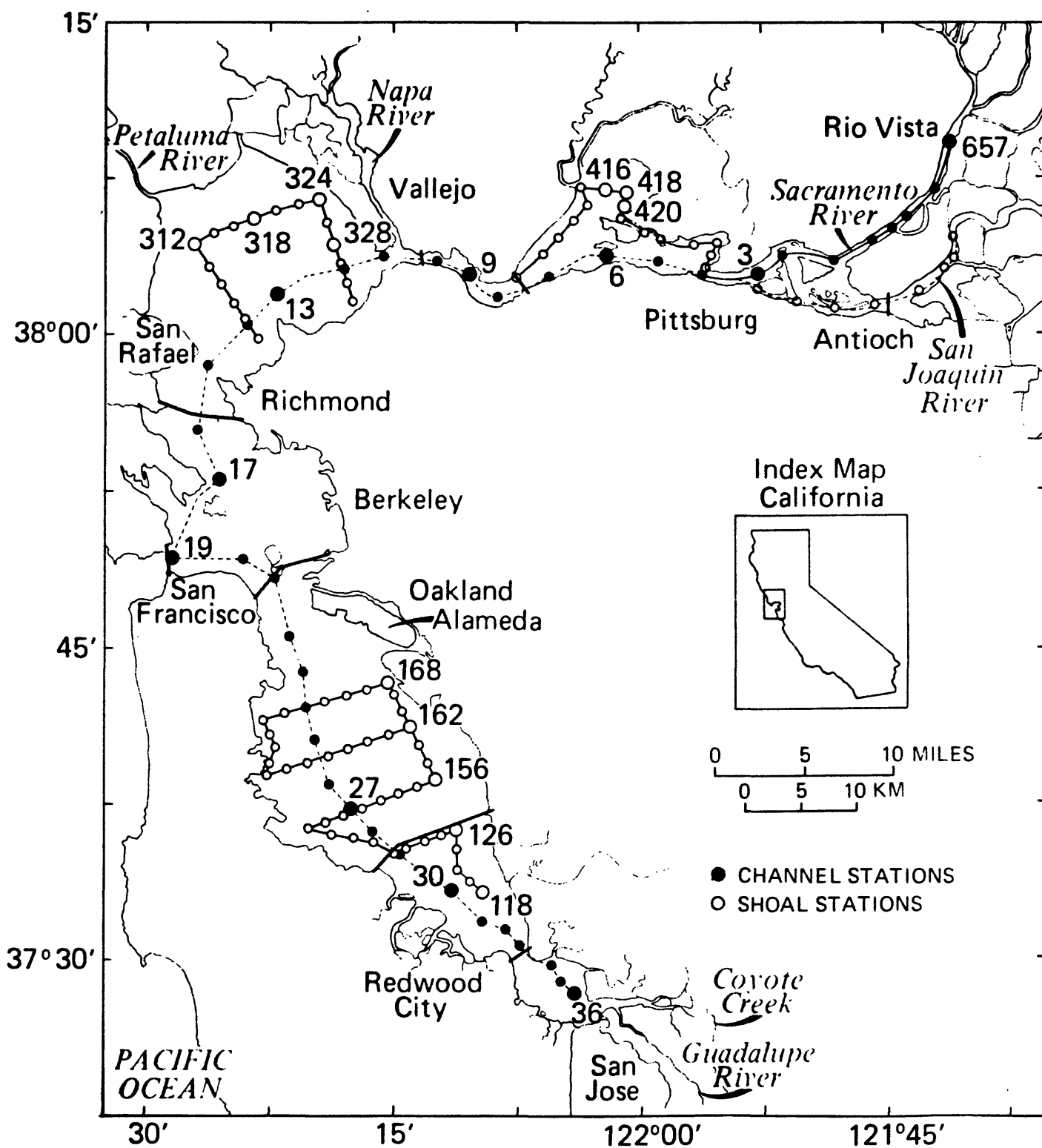


Figure 1. Map of San Francisco Bay estuary showing station locations where phytoplankton samples were enumerated.

**APPENDIX A.**

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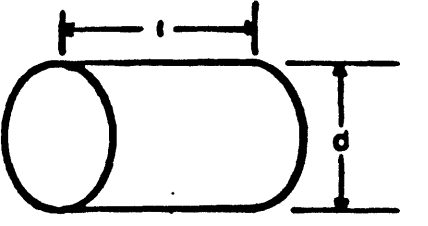
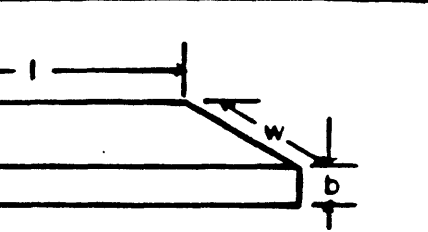
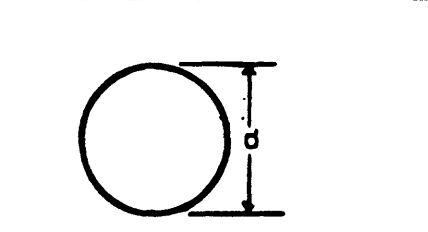
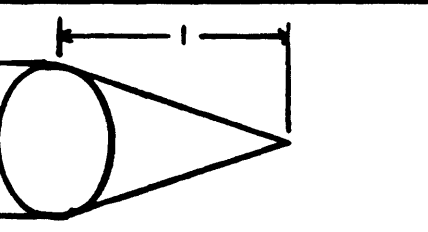
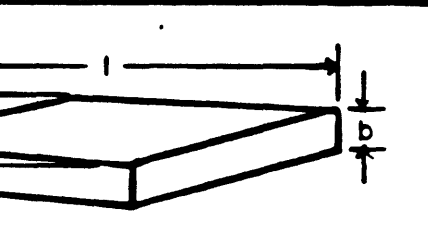
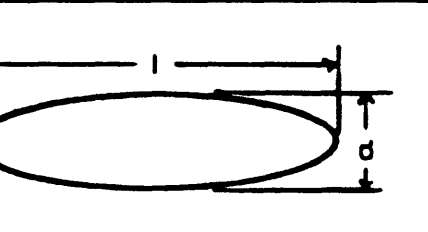
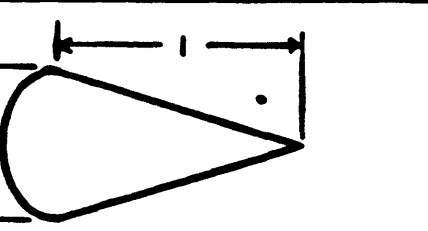
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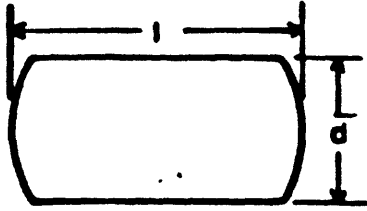
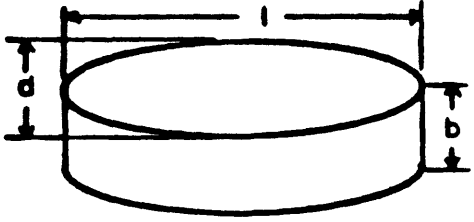
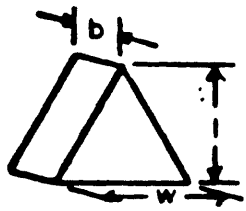
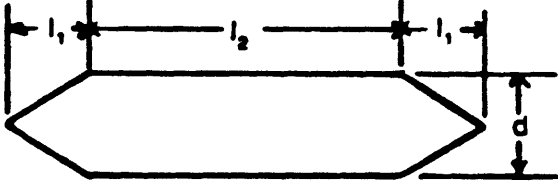
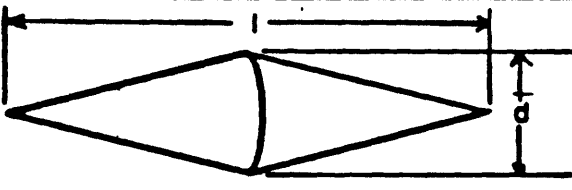
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## APPENDIX B

Geometrical shapes and mathematical formulae



SHAPE CODE/MATHEMATICAL FORMULAE	GEOMETRICAL SHAPE
<b>1. Cylinder</b>  $V = \pi \left(\frac{d}{2}\right)^2 l$	
<b>2. Rectangular prism</b>  $V = lwd$	
<b>3. Sphere</b>  $V = \frac{4}{3} \pi \left(\frac{d}{2}\right)^3$	
<b>4. Cone</b>  $V = \frac{1}{3} \pi \left(\frac{d}{2}\right)^2 l$	
<b>5. Double isocetes triangular prism</b>  $V = \frac{lwb}{2}$	
<b>6. Ellipsoidal sphere</b>  $V = \frac{4}{3} \pi \left(\frac{l}{2}\right) \left(\frac{d}{2}\right)^2$	
<b>7. Hemispherical cone</b>  $V = \left[ \frac{\frac{4}{3} \pi \left(\frac{d}{2}\right)^3}{2} \right] + \left[ \frac{1}{3} \pi \left(\frac{d}{2}\right)^2 l \right]$	

SHAPE CODE/MATHEMATICAL FORMULAE	GEOMETRICAL SHAPE
<b>8. Double hemispherical cylinder</b> $V = \left[ \frac{4}{3} \pi \left( \frac{d}{2} \right)^3 \right] + \left[ \frac{1}{3} \pi \left( \frac{d}{2} \right)^2 l \right]$	
<b>9. Ellipsoidal cylinder</b> $V = \pi \left( \frac{ld}{2} \right) b$	
<b>10. Triangular prism</b> $V = \left( \frac{lw}{2} \right) b$	
<b>11. Double coned cylinder</b> $V = \left[ \frac{1}{3} \pi \left( \frac{d}{2} \right)^2 l_1 \right] + \left[ \pi \left( \frac{d}{2} \right)^2 l_2 \right]$	
<b>12. Spindle</b> $V = \frac{1}{3} \pi \left( \frac{d}{2} \right)^2 l$	
<b>Strathman's (1967) equations:</b> $\log C_{\text{diatom}} = -0.422 + 0.758 (\log V)$ $\log C_{\text{ppi}} = -0.460 + 0.866 (\log V)$	
<b>where:</b>	
<b>l</b> = length	<b>V</b> = cell volume in cubic microns
<b>w</b> = width	<b>C</b> = cell carbon content in picograms
<b>d</b> = diameter	<b>ppi</b> = phytoplankters other than diatoms
<b>b</b> = depth	

## APPENDIX C

Species list  
Microphytoplankton  
(less than 60 microns)

MICROPHYTOPLANKTON  
(LESS THAN 60 MICRONS)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH	WIDTH/ DIAMETER	DEPTH	CELL VOLUME MICRONS	CARBON CONTENT PICOGRAMS
1	Mesodinium rubrum	6	25.0	17.0	0.0	3783.	435.
2	Catalogued Unknown	7	12.7	8.1	0.0	252.	42.
4	Catalogued Unknown	1	9.2	1.5	0.0	16.	4.
7	Catalogued Unknown	8	8.1	3.1	0.0	77.	15.
9	Catalogued Unknown	6	9.2	7.7	0.0	284.	46.
15	Catalogued Unknown	7	6.2	3.1	0.0	21.	5.
18	Catalogued Unknown	6	17.0	12.0	0.0	1282.	170.
19	Catalogued Unknown	7	9.2	6.2	0.0	113.	21.
23	Catalogued Unknown	3	20.8	17.8	0.0	2953.	351.
24	Catalogued Unknown	6	1.0	2.0	0.0	2.	1.
26	Catalogued Unknown	7	5.6	1.4	0.0	4.	1.
27	Catalogued Unknown	1	42.6	1.5	0.0	75.	15.
29	Catalogued Unknown	1	5.7	4.3	0.0	83.	16.
32	Catalogued Unknown	6	9.0	6.0	0.0	170.	30.
33	Catalogued Unknown	7	9.0	4.0	0.0	46.	10.
35	Catalogued Unknown	3	0.0	2.6	0.0	9.	2.
37	Catalogued Unknown	1	30.0	24.6	0.0	14259.	1372.
39	Catalogued Unknown	12	19.7	1.3	0.0	9.	2.
40	Catalogued Unknown	6	4.0	3.0	0.0	19.	4.
41	Catalogued Unknown	2	6.7	4.7	6.7	301.	49.
42	Catalogued Unknown	3	0.0	3.0	0.0	14.	3.
43	Catalogued Unknown	1	4.0	3.0	0.0	28.	6.
45	Catalogued Unknown	1	54.0	6.0	0.0	1527.	198.
46	Catalogued Unknown	1	6.4	4.7	0.0	111.	20.
47	Catalogued Unknown	3	0.0	3.1	0.0	16.	4.
48	Catalogued Unknown	6	15.1	11.0	0.0	957.	132.
49	Catalogued Unknown	1	19.3	14.7	0.0	3276.	384.
53	Catalogued Unknown	7	11.4	11.0	0.0	424.	65.
54	Catalogued Unknown	3	0.0	4.9	0.0	62.	12.
55	Catalogued Unknown	6	4.7	4.5	0.0	50.	10.
56	Catalogued Unknown	6	10.8	5.9	0.0	197.	34.
58	Catalogued Unknown	3	0.0	2.8	0.0	11.	3.
59	Catalogued Unknown	7	18.4	11.4	0.0	694.	100.
60	Catalogued Unknown	7	7.3	1.6	0.0	6.	2.
62	Catalogued Unknown	8	7.6	3.0	0.0	68.	13.
65	Catalogued Unknown	7	5.7	4.3	0.0	37.	8.
66	Catalogued Unknown	3	6.9	4.7	0.0	54.	11.
68	Catalogued Unknown	6	3.8	2.5	0.0	12.	3.
69	Catalogued Unknown	3	0.0	4.0	0.0	34.	7.
70	Catalogued Unknown	4	2.3	2.7	0.0	4.	1.
71	Catalogued Unknown	6	18.9	15.2	0.0	2284.	281.
72	Catalogued Unknown	7	31.5	20.0	0.0	3508.	407.
74	Catalogued Unknown	1	23.9	11.3	0.0	2397.	293.
76	Catalogued Unknown	6	3.8	4.4	0.0	39.	8.
77	Catalogued Unknown	5	7.6	5.0	5.0	95.	18.
78	Catalogued Unknown	5	5.1	3.3	3.3	28.	6.
79	Catalogued Unknown	5	32.9	3.8	3.8	238.	40.
80	Catalogued Unknown	6	5.5	2.5	0.0	18.	4.
81	Catalogued Unknown	6	3.8	2.5	0.0	12.	3.
83	Catalogued Unknown	6	2.6	1.5	0.0	3.	1.
85	Catalogued Unknown	4	2.7	1.4	0.0	1.	0.
86	Catalogued Unknown	4	10.0	5.0	0.0	65.	13.
87	Catalogued Unknown	1	14.0	2.8	0.0	86.	16.
88	Catalogued Unknown	3	0.0	4.3	0.0	42.	9.
89	Catalogued Unknown	6	6.4	4.3	0.0	62.	12.
93	Catalogued Unknown	6	2.8	1.4	0.0	3.	1.
200	Anabaena sp.	1	2.0	5.0	0.0	39.	8.
201	Pleurocapsa sp.	6	15.4	12.3	0.0	1220.	163.
202	Spirulina sp.	1	19.1	2.5	0.0	94.	18.
203	Palmelloid form	3	0.0	2.5	0.0	8.	2.
204	Merismopedia sp.	3	0.0	1.4	0.0	1.	0.

MICROPHYTOPLANKTON  
(LESS THAN 60 MICRONS)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH	WIDTH/ DIAMETER	DEPTH	CELL VOLUME MICRONS	CARBON CONTENT PICOGRAMS
205	Modularia sp.	6	4.5	1.4	0.0	5.	1.
206	Oscillatoria sp.	6	284.0	5.7	0.0	1695.	217.
300	Ankistrodesmus falcatus	12	41.4	1.4	0.0	21.	5.
301	Chlamydomonas sp1.	6	5.0	6.0	0.0	94.	18.
302	Chlorochytrium sp.	7	11.3	6.1	0.0	130.	23.
303	Closterium sp.	12	16.8	4.5	0.0	89.	17.
304	Cosmarium sp.	6	3.0	1.5	0.0	4.	1.
305	Pediastrum sp.	7	6.0	4.5	0.0	42.	9.
306	Polyedriopsis quadrispina	2	7.2	4.8	2.5	86.	16.
307	Pyramimonas sp1.	7	8.0	6.5	0.0	111.	20.
308	Pyramimonas sp2.	7	8.8	6.3	0.0	112.	21.
309	Pyramimonas dissonata	7	9.9	5.7	0.0	101.	19.
310	Pyramimonas micron	7	6.0	5.3	0.0	59.	12.
311	Pyramimonas pluriloculata	7	8.7	6.5	0.0	118.	22.
312	Tetradion sp.	10	15.0	8.5	6.5	414.	64.
313	Tetraselmis sp.	6	16.6	11.6	0.0	1170.	157.
314	Scenedesmus sp.	6	10.3	4.0	0.0	86.	16.
315	Scenedesmus bijuga	6	11.6	4.2	0.0	107.	20.
316	Chlamydomonas sp.2	6	6.4	2.8	0.0	26.	6.
317	Chlamydomonas sp.3	6	5.0	2.8	0.0	21.	5.
318	Crucigenia quadrata	9	5.7	7.1	3.5	1115.	20.
319	Protococcus sp.	6	9.9	8.5	0.0	88.	17.
320	Scenedesmus quadricauda West 0	0	11.4	5.7	0.0	68.	13.
321	Ankistrodesmus spp.	12	35.0	1.4	0.0	18.	4.
322	Selenastrum minutum	6	22.0	3.0	0.0	104.	19.
323	Actinastrum hantzschii	6	14.5	2.3	0.0	38.	8.
400	Apedinella radious	1	10.3	8.8	0.0	626.	92.
401	Chromulina sp.	6	3.8	2.5	0.0	12.	3.
402	Distephanus speculum	6	45.2	38.8	0.0	35629.	3033.
403	Mallomonas sp.	4	12.0	6.0	0.0	113.	21.
404	Ochromonas sp.	3	0.0	4.6	0.0	51.	10.
405	Pseudopedinella pyriforme	1	10.3	8.8	0.0	626.	92.
406	Chrysochromulina Kappa	8	6.3	4.1	0.0	119.	22.
407	Prymnesium parvum	8	9.0	4.3	0.0	172.	30.
500	Cachonina niei	6	13.5	9.2	0.0	598.	88.
501	Dinophysis sp.	6	43.0	31.0	0.0	21637.	1969.
502	Exuviella luna	6	18.0	17.0	0.0	2724.	327.
503	Glenodinium rotundum	6	25.5	23.0	0.0	7063.	747.
504	Gymnodinium punctatum	6	9.9	7.1	0.0	261.	43.
505	Heterocapsa triquetra	12	25.5	16.0	0.0	1709.	219.
506	Katodinium rotundatum	6	11.4	6.9	0.0	284.	46.
507	Miniscula bipes	4	28.2	18.9	0.0	2637.	318.
508	Oxytoxum sp.	12	55.4	27.1	0.0	10652.	1066.
509	Oxytoxum milneri	12	131.0	33.7	0.0	38949.	3276.
510	Prorocentrum redfieldii	12	28.5	8.8	0.0	578.	85.
511	Gymnodinium arcticum	7	15.6	12.8	0.0	755.	108.
512	Noctiluca scintillans	3	0.0	156.2	0.0	1995459.	99046.
513	Gymnodinium simplex	6	11.4	4.3	0.0	110.	20.
514	Ceratium sp.	7	73.8	35.5	0.0	25008.	2232.
515	Gymnodinium sp	6	10.2	5.7	0.0	174.	30.
516	Ceratium lineatum	7	148.0	51.0	0.0	102141.	7550.
517	Ceratium divaricatum	7	141.0	61.0	0.0	139304.	9878.
518	Oxytoxum diploconus	12	66.9	21.3	0.0	15844.	1503.
519	Proceratium gracile	12	36.9	14.2	0.0	3896.	446.
520	Gymnodinium spirale	12	52.0	23.0	0.0	14403.	1384.
521	Glenodinium spp.	6	15.6	11.4	0.0	1062.	145.
522	Goniaulax sp.	7	22.7	21.3	0.0	2934.	349.
523	Amphidinium sp.	12	174.8	36.8	0.0	61973.	4898.
524	Peridinium sp.	7	56.8	54.0	0.0	44888.	3705.
525	Gymnodinium lunula	12	165.6	27.6	0.0	33025.	2840.

MICROPHYTOPLANKTON  
(LESS THAN 60 MICRONS)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH	WIDTH/ DIAMETER	DEPTH	CELL VOLUME MICRONS	CARBON CONTENT PICOGRAMS
526	Amphidinium crassium	6	18.5	10.0	0.0	8960.	918.
600	Chroomonas minuta	7	6.2	3.6	0.0	28.	6.
601	Chroomonas amphioxeia	7	11.4	6.1	0.0	131.	24.
602	Cryptomonas spl.	7	13.3	8.9	0.0	317.	51.
603	Cryptomonas sp2.	7	17.8	4.8	0.0	119.	22.
604	Cryptomonas testacea	7	14.5	7.3	0.0	230.	39.
605	Rhabdomonas sp.	7	11.6	7.3	0.0	190.	33.
606	Hemiselmis sp.	7	6.0	3.0	0.0	19.	4.
700	Eutreptia laurumii	7	20.3	5.6	0.0	183.	32.
701	Trachelomonas sp.	6	14.2	9.3	0.0	643.	94.
702	Phacus triquetus	7	14.6	9.5	0.0	392.	61.
703	Trachelomonas hispida	6	14.2	11.4	0.0	966.	133.
704	Euglena polymorpha	7	24.1	7.1	0.0	344.	55.
800	Actinopterychus sp.	1	21.3	85.0	0.0	120867.	2694.
801	Actinopterychus senarius	1	15.6	62.5	0.0	47860.	1335.
802	Amphora ovalis	8	60.0	34.3	17.0	76570.	1906.
803	Asterionella gracilis	7	90.0	10.0	0.0	2409.	138.
804	Biddulphia sp.	9	50.8	6.4	12.7	3243.	173.
805	Biddulphia aurita	9	54.5	6.8	13.6	3959.	202.
806	Biddulphia longicruris	9	47.0	5.9	11.8	2570.	145.
807	Chaetoceros sp.	8	23.5	5.9	0.0	750.	57.
808	Chaetoceros constrictus	8	24.0	6.0	0.0	792.	60.
809	Chaetoceros didymus	8	23.0	5.8	0.0	710.	55.
810	Cocconeis sp.	9	11.0	7.0	10.0	605.	49.
811	Coscinodiscus sp.	1	107.5	162.5	0.0	2229493.	24544.
812	Coscinodiscus concinnis	1	440.0	422.5	0.0	61687476.	304067.
813	Coscinodiscus jonesianus	1	48.8	195.0	0.0	1457404.	17783.
814	Thalassiosira nodulolineata	1	11.9	47.5	0.0	21087.	717.
815	Coscinodiscus perforatus	1	25.0	100.0	0.0	196350.	3892.
816	Coscinodiscus radiatus	1	11.9	47.5	0.0	21087.	717.
817	Coscinosira polychorda	1	11.3	45.0	0.0	17972.	635.
818	Cyclotella spp.	1	7.4	14.7	0.0	1256.	85.
819	Cyclotella bodanica	1	27.0	50.0	0.0	53015.	1442.
820	Cyclotella catenata	1	3.1	12.5	0.0	380.	34.
821	Cyclotella meneghiniana	1	5.0	20.0	0.0	1571.	100.
822	Cyclotella striata	1	10.0	40.0	0.0	12566.	484.
823	Diatoma sp.	5	45.0	11.5	13.5	3493.	184.
824	Diatoma vulgare	5	45.0	11.5	13.5	3493.	184.
825	Ditylum brightwellii	8	49.5	12.4	0.0	6976.	310.
826	Epithemia sp.	5	21.8	14.0	16.6	2533.	144.
827	Epithemia sorex	5	32.5	8.1	8.1	1066.	75.
828	Epithemia turgida	5	110.0	20.0	25.0	27500.	877.
829	Eucampia zoodiacus	2	35.5	31.3	6.9	7667.	333.
830	Gomphonema spp.	5	14.2	5.7	5.7	231.	23.
831	Gyrosigma sp.	5	102.2	14.2	14.2	10304.	417.
832	Gyrosigma fasciola	5	102.2	14.2	14.2	10304.	417.
833	Hemiaulus senensis	9	22.1	6.8	13.6	1605.	102.
834	Melosira spp.	1	9.0	12.1	0.0	1035.	73.
835	Melosira binderiana	1	24.1	14.5	0.0	3980.	203.
836	Melosira distans var lirata	1	12.0	6.3	0.0	374.	34.
837	Melosira granulata	1	26.0	13.0	0.0	3451.	182.
838	Melosira islandica	1	12.5	17.0	0.0	2837.	157.
839	Melosira italica	1	14.5	16.5	0.0	3100.	168.
840	Melosira moniliformis	8	41.5	20.0	0.0	17226.	615.
841	Melosira numuloides	8	45.0	11.3	0.0	5268.	251.
842	Melosira varians	1	11.0	21.5	0.0	3994.	203.
843	Meridion circulare	7	46.0	6.0	6.6	452.	39.
844	Navicula sp.	5	40.0	15.0	10.0	3000.	164.
845	Navicula punctatae	5	40.0	15.0	10.0	3000.	164.
846	Nitzschia sp.	5	103.7	8.5	8.5	3746.	194.
847	Nitzschia closterium	5	10.3	8.0	8.0	330.	31.

MICROPHYTOPLANKTON  
(LESS THAN 60 MICRONS)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH	WIDTH/ DIAMETER	DEPTH	CELL VOLUME MICRONS	CARBON CONTENT PICOGRAMS
848	Nitzschia dissipata	5	27.5	6.9	6.9	655.	52.
849	Nitzschia longissima	5	56.3	14.0	14.0	5517.	260.
850	Nitzschia pacifica	5	86.5	6.0	6.0	1557.	99.
851	Nitzschia panduriformis	6	42.6	13.6	0.0	4126.	208.
852	Nitzschia seriata	5	105.0	6.5	6.5	2218.	130.
853	Nitzschia sigma	5	220.0	11.0	11.0	13310.	506.
854	Pleurosigma sp.	5	71.0	17.0	13.6	8208.	351.
855	Rhaphoneis sp.	5	33.0	16.5	13.2	3594.	188.
856	Rhoicosphenia sp.	5	30.5	13.5	5.1	1050.	74.
857	Rhoicosphenia curvata	5	43.5	6.0	7.3	953.	69.
858	Rhoicosphenia marina	5	17.5	21.0	3.0	551.	45.
859	Rhizosolenia sp.	11	148.5	13.5	21.5	23308.	774.
860	Rhizosolenia alata	11	139.4	7.4	20.0	6569.	296.
861	Skeletonema costatum	8	8.0	6.0	0.0	339.	31.
862	Skeletonema potamus	8	8.0	6.0	0.0	339.	31.
863	Stephanopyxis sp.	8	45.0	11.3	0.0	5268.	251.
864	Surirella sp.	9	105.0	45.2	16.8	62622.	1637.
865	Surirella gemma	9	95.0	39.6	16.8	49639.	1372.
866	Surirella spiralis	9	115.0	50.8	16.9	77542.	1924.
867	Synedra sp.	1	550.0	10.5	0.0	47625.	1330.
868	Tabellaria fenestrata	2	85.0	6.0	6.0	3060.	166.
869	Thalassiosira sp.	1	4.6	29.3	0.0	3102.	168.
870	Thalassiosira eccentrica	1	9.8	18.0	0.0	2494.	142.
871	Thalassiosira nordenskioldii	1	2.0	24.5	0.0	943.	68.
872	Thalassiosira rotula	1	2.0	45.5	0.0	3252.	174.
873	Thalassiothrix longissima	1	3075.0	4.3	0.0	44655.	1266.
877	Melosira dubia	6	21.3	12.8	0.0	1827.	112.
878	Pleurosigma aestuarii	5	66.7	14.2	2.8	1326.	88.
879	Rhizosolenia setigera	11	104.5	14.2	16.0	18239.	642.
880	Rhopalodia gibba	9	55.0	7.3	5.7	1797.	111.
881	Coscinodiscus nitidus	1	15.5	62.0	0.0	46796.	1312.
882	Pleurosigma fasciola	5	117.5	16.0	8.5	7990.	344.
883	Pleurosigma obscurum	5	105.0	11.4	5.7	3411.	180.
884	Nitzschia palae	12	45.0	5.0	0.0	295.	28.
885	Climacodium fravenfeldianum	2	35.5	8.9	0.0	0.	28.
886	Asterionella formosa	7	85.0	4.5	0.0	461.	40.
887	Nitzschia parvula	12	22.0	6.0	0.0	207.	22.
888	Surirella ovalis	9	62.5	32.0	7.5	11781.	461.
889	Nitzschia distans	12	140.0	5.0	0.0	916.	67.
890	Tabellaria flocculosa	9	48.3	15.0	24.1	13713.	518.
891	Chaetoceros gracilis	2	7.8	7.1	3.0	166.	18.
892	Chaetoceros subsecundus	2	34.1	8.5	6.0	1739.	108.
893	Chaetoceros debilis	2	28.4	10.4	5.0	1477.	96.
894	Thalassionema nitzschoides	2	109.3	5.0	5.0	2733.	152.
895	Nitzschia paradoxa	2	24.5	2.8	2.8	192.	20.
896	Stephanodiscus sp.	1	6.0	21.3	0.0	2138.	127.
897	Coscinodiscus concavus	1	40.0	160.0	0.0	804250.	11331.
898	Mavicula distans	2	95.0	16.0	10.0	15200.	560.
899	Nitzschia pungens	5	71.0	4.3	8.3	1267.	85.
900	Leptocylindricus danicus	1	34.7	6.9	0.0	1298.	87.
901	Rhizosolenia stolterfothii	1	113.6	24.1	0.0	51821.	1418.
902	Chaetoceros vistulae	2	5.7	7.1	3.0	121.	14.
903	Amphora ventricosa	5	61.0	14.2	4.3	1861.	114.
904	Amphora spp.	5	35.5	8.5	5.7	860.	63.
905	Entomoneis alata	9	113.6	28.4	20.0	50678.	1394.
906	Fragillaria crotonensis	2	95.0	3.0	3.0	855.	63.
907	Nitzschia cf. thermalis	11	7.8	7.1	14.2	768.	58.
908	Asterionella kariana	7	6.8	10.0	0.0	152.	17.
909	Biddulphia mobiliensis	9	45.4	58.2	15.6	32374.	993.
910	Stephanodiscus subsalsus	8	4.3	8.5	0.0	566.	46.
911	Rhizosolenia styliformis	11	64.0	33.0	142.0	139699.	3006.

MICROPHYTOPLANKTON  
(LESS THAN 60 MICRONS)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH	WIDTH/ DIAMETER	DEPTH	CELL VOLUME MICRONS	CARBON CONTENT PICOGRAMS
912	Dyclotella cf. caspia	1	6.0	8.0	0.0	302.	29.
913	Nitzschia cf. palae	11	8.5	5.0	28.0	661.	52.
914	Cocconeis pediculus	9	35.5	7.1	10.0	5939.	274.
915	Ceratoneis arcus	1	78.1	7.1	0.0	3092.	167.
916	Stephanodiscus astrea	1	12.0	18.5	0.0	3226.	173.
917	Licomorpha abbreviata	10	75.3	50.0	8.0	15060.	556.
918	Thalassiothrix sp.	2	85.0	3.0	3.0	7650.	333.
919	Ditylum brightwellii	1	147.2	27.6	0.0	88068.	2119.
920	Tropidoneis sp.	2	81.6	18.4	9.2	13813.	520.



**APPENDIX D**

**Species list**

**Macrophytoplankton  
(60 microns or greater)**

MACROPHYTOPLANKTON  
(40 MICRONS OR LARGER)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH, MICRONS	WIDTH/ DIAMETER, MICRONS	DEPTH, MICRONS	CELL VOLUME CUBIC MICRONS	CARBON CONTENT, PICOGRAMS PER CELL
1001	Mesodinium rubrum	6	62.0	49.0	0.0	77944.	5974.
4402	Distephanus cf. speculum	6	45.2	38.8	0.0	35629.	3033.
3319	Protococcus sp.	3	0.0	50.0	0.0	10472.	1050.
5501	Dinophysis speculum	6	62.0	37.0	0.0	44442.	3673.
5502	Exuviella luna	6	37.0	55.0	0.0	58604.	4667.
5508	Oxytoxum sp.	7	117.0	43.0	0.0	57604.	4598.
5509	Oxytoxum milneri	12	68.0	17.0	0.0	10290.	1035.
5512	Noctiluca scintillans	3	0.0	160.0	0.0	214466.0	105428.
5514	Ceratium sp.	7	148.0	62.0	0.0	150953.	10590.
5516	Ceratium lineatum	7	148.0	50.0	0.0	98176.	7296.
5517	Ceratium divaricatum	7	136.0	62.0	0.0	138877.	9852.
5518	Oxytoxum diploconus	7	55.0	18.0	0.0	4835.	538.
5523	Amphidinium sp.	12	118.0	43.0	0.0	114240.	8319.
5524	Peridinium sp.	7	88.0	72.0	0.0	122145.	8815.
5525	Gymnodinium lunula	12	176.0	22.0	0.0	44602.	3684.
5527	Prorocentrum sp.	7	56.0	28.0	0.0	11905.	1174.
5528	Cystodinium sp.	7	123.0	37.0	0.0	44800.	3698.
8800	Actinopteryx senaris	1	15.0	65.0	0.0	49775.	1375.
8801	Amphipora gigantea	2	160.0	37.0	24.0	142080.	3045.
8802	Amphora sp.	9	74.0	37.0	24.0	51610.	1413.
8803	Asterionella formosa	2	44.0	4.0	4.0	704.	55.
8804	Biddulphia sp.	9	85.0	30.0	60.0	120166.	2682.
8805	Biddulphia aurita	9	60.0	77.0	184.0	667651.	9840.
8806	Biddulphia longicruris	9	70.0	127.0	31.0	216448.	4190.
8807	Biddulphia mobilensis	9	74.0	63.0	26.0	95200.	2248.
8808	Chaetoceros concavicornis	1	61.5	23.0	0.0	25552.	830.
8809	Coscinodiscus spp.	1	31.0	68.0	0.0	112582.	2553.
8810	Coscinodiscus granii	1	37.0	74.0	0.0	159131.	3318.
8811	Coscinodiscus jonesianus	1	35.0	97.0	0.0	258643.	4795.
8812	Thalassiosira cf. hendeyi	1	31.0	75.0	0.0	136953.	2962.
8813	Coscinodiscus perforatus	1	40.0	122.0	0.0	467595.	7512.
8814*	Coscinodiscus 8813 cellulosa	1	40.0	110.0	0.0	380133.	6421.
8815	Coscinodiscus radiatus	1	34.0	101.0	0.0	272403.	4988.
8816	Coscinodiscus stellaris	1	50.0	111.0	0.0	483845.	7709.
8817	Ditylum brightwellii	1	129.0	34.0	0.0	117122.	2630.
8818	Epithemia sp.	5	135.0	30.0	25.0	50625.	1393.
8819	Epithemia turgida	5	135.0	30.0	32.0	64800.	1680.
8820	Eucampia zoodiacus	2	49.0	25.0	6.0	7350.	323.
8821	Fragilaria crotenensis	2	100.0	4.0	4.0	1600.	102.
8822	Gomphonema sp.	2	85.0	31.0	17.0	44795.	1270.
8823	Gyrosigma sp.	5	110.0	23.0	9.0	11385.	450.
8824	Licomphora abbreviata	10	75.0	50.0	15.0	28125.	8920.
8825	Lithodesmium undulatum	10	65.0	52.0	54.0	91260.	2177.
8826	Melosira moniliformis	1	40.0	65.0	0.0	132732.	2892.
8827	Navicula spp.	5	144.0	25.0	9.0	16200.	587.
8828	Nitzschia spp.	2	110.0	8.0	4.0	3520.	185.
8829	Nitzschia acicularis	12	135.0	8.0	0.0	4524.	223.
8830	Nitzschia longissima	12	294.0	18.0	0.0	49876.	1377.
8831*	Nitzschia NL-1 22.6:1	2	406.0	18.0	18.0	131544.	2873.
8832*	Nitzschia NL-2 37.0:1	5	443.0	12.0	7.0	18606.	652.
8833*	Nitzschia NL-3 8.4:1	5	209.0	25.0	6.0	15675.	573.
8834	Nitzschia pacifica	5	98.0	12.0	8.0	4704.	230.
8835	Nitzschia panduriformis	9	86.0	22.0	10.0	14860.	550.
8836	Nitzschia serriata	5	129.0	12.0	6.0	4644.	228.
8837	Nitzschia sigma	5	169.0	13.0	7.0	7690.	334.
8838*	Pleurosigma spp. 5:1	5	125.0	25.0	12.0	18750.	656.
8839*	Pleurosigma "big" 9:1	5	221.0	25.0	13.0	35913.	1074.
8840*	Gyrosigma cf. fasciola 8:1	5	99.0	12.0	6.0	3564.	186.
8841*	Pleurosigma cf. normanii 3:1	5	81.0	31.0	17.0	21344.	724.
8842*	Pleurosigma NL-1 8.7:1	5	148.0	17.0	12.0	15096.	557.

MACROPHYTOPLANKTON  
(40 MICRONS OR LARGER)

TAXONOMIC CODE	GENUS-SPECIES	SHAPE CODE	LENGTH, MICRONS	WIDTH/ DIAMETER, MICRONS	DEPTH, MICRONS	CELL VOLUME CUBIC MICRONS	CARBON CONTENT, PICOGRAMS PER CELL	
8843*	Pleurosigma cf sigma	9.5:1	2	152.0	16.0	6.0	14592.	543.
8844*	Pleurosigma "t"	8:1	5	98.0	12.0	6.0	3528.	185.
8845	Rhizosolenia curvata		10	68.0	6.0	6.0	1224.	83.
8846	Rhizosolenia spp.		11	50.0	12.0	369.0	43618.	1244.
8847	Rhizosolenia "sm"		11	40.0	17.0	129.0	32307.	991.
8848	Rhizosolenia "med"		11	62.0	14.0	185.0	31660.	976.
8849	Rhizosolenia "big"		11	37.0	15.0	369.0	67387.	1730.
8850	Rhizosolenia styliformis		11	41.0	41.0	110.0	163272.	3384.
8851	Stephanodiscus spp.		1	24.0	74.0	0.0	103220.	2390.
8852	Stephanopyxis turris		1	61.5	44.0	0.0	93513.	2218.
8853	Surirella sp.1.		6	61.5	37.0	0.0	44084.	1254.
8854	Surirella sp.2.		9	185.0	62.0	30.0	270256.	4958.
8855	Thalassiosira spp.		1	28.0	83.0	0.0	151497.	3197.
8856	Thalassiosira angustii		1	49.0	184.0	0.0	1302932.	16335.
8857	Thalassiosira cf. baltica		1	43.0	75.0	0.0	189968.	3795.
8858	Thalassiosira cf. hyalina		1	86.0	37.0	0.0	92468.	2199.
8859	Thalassiosira nodulolineata		1	37.0	74.0	0.0	159131.	3318.
8860	Tropidoneis sp.		2	153.0	44.0	20.0	134640.	2924.
8861	Thalassionema nitzschoides		2	109.0	5.0	5.0	2730.	152.
8862	Asterionella gracilis		7	148.0	12.0	0.0	5655.	265.

\* Taxonomic variety of 8813, *Coscinodiscus perforatus* var. *cellulosa*

\* ML-, *Nitzschia longissima*-like cell dimension ratio, Length:Width

## **APPENDIX E**

### **Summary of phytoplankton enumerations January 1980 - February 1981**

**NOTE: ON THE FOLLOWING DATES,  
MACROCOUNTS (X80 OR X100) WERE NOT DONE:**

- 20 FEBRUARY 1980**
- 27 FEBRUARY 1980**
- 18 MARCH 1980**
- 25 MARCH 1980**
- 2 APRIL 1980**

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: San Francisco Bay

Date: January 8-9, 1980

REPLICATES: 3

Code	Genus species	Station/Depth							
		36/ 2	27/ 2	156/ 1	19/ 2	19/20	13/ 2	318/ 1	6/ 2 418/ 1
1	Mesodinium rubrum	0.	0.	0.	0.	0.	18.	0.	0.
24	Catalogued Unknown	0.	0.	0.	16.	16.	0.	0.	32.
45	Catalogued Unknown	0.	0.	0.	0.	0.	0.	46.	0.
62	Catalogued Unknown	0.	0.	0.	0.	0.	0.	139.	0.
74	Catalogued Unknown	0.	18.	0.	0.	0.	0.	0.	0.
300	Ankistrodesmus falcatus	0.	0.	0.	0.	0.	0.	23.	54.
301	Chlamydomonas spl.	0.	0.	0.	0.	0.	0.	0.	65.
307	Pyramimonas spl.	0.	54.	0.	0.	16.	36.	0.	27.
310	Pyramimonas micron	0.	72.	18.	0.	0.	18.	46.	0.
314	Scenedesmus sp.	0.	0.	0.	0.	0.	0.	93.	108.
401	Chromulina sp.	0.	0.	0.	0.	0.	0.	0.	162.
406	Chrysochromulina kappa	0.	0.	36.	0.	0.	18.	23.	0.
506	Katodinium rotundatum	27.	90.	0.	0.	0.	36.	46.	0.
508	Oxytoxum sp.	0.	0.	0.	16.	0.	0.	0.	0.
600	Chroomonas minuta	288.	1243.	1531.	16.	0.	180.	162.	0.
601	Chroomonas amphioxeia	81.	306.	252.	0.	0.	180.	185.	54.
602	Cryptomonas spl.	9.	0.	0.	32.	49.	0.	0.	0.
604	Cryptomonas testacea	0.	414.	468.	0.	16.	90.	162.	54.
150	UNKNOWN	0.	18.	0.	0.	0.	0.	0.	0.
151	UNKNOWN	0.	0.	36.	0.	0.	0.	0.	32.
152	UNKNOWN	0.	0.	0.	16.	0.	0.	0.	0.
153	UNKNOWN	0.	0.	0.	16.	0.	0.	0.	0.
154	UNKNOWN	0.	0.	0.	16.	0.	0.	0.	0.
155	UNKNOWN	0.	0.	0.	16.	0.	0.	0.	65.
156	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	32.
157	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	32.
Total Nondiatoms		405.	2215.	2341.	146.	97.	576.	926.	297.

SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: San Francisco Bay

Date: January 8-9, 1980

REPLICATES: 3

Code	Genus species	Station/Depth							
		36/ 2	27/ 2	156/ 1	19/ 2	19/20	13/ 2	318/ 1	6/ 2 418/ 1
804	Biddulphia sp.	0.	0.	0.	16.	0.	0.	0.	0.
818	Cyclotella spp.	0.	0.	0.	16.	0.	18.	0.	54.
822	Cyclotella striata	0.	0.	0.	0.	16.	0.	0.	0.
823	Diatoma sp.	0.	0.	0.	0.	0.	0.	0.	0.
836	Melosira distans var. tirata	0.	0.	0.	0.	0.	0.	0.	135.
844	Navicula sp.	0.	0.	0.	0.	16.	18.	0.	0.
846	Nitzschia sp.	0.	0.	0.	0.	0.	0.	0.	0.
847	Nitzschia closterium	0.	18.	0.	32.	16.	18.	23.	0.
852	Nitzschia seriata	0.	0.	18.	0.	0.	18.	0.	0.
854	Pleurosigma sp.	0.	0.	0.	0.	16.	0.	0.	0.
859	Rhizosolenia sp.	0.	0.	36.	0.	0.	0.	0.	0.
869	Thalassiosira sp.	0.	0.	0.	0.	16.	0.	0.	54.
872	Thalassiosira rotula	0.	0.	72.	65.	0.	108.	46.	0.
900	Leptocylindricus danicus	0.	0.	0.	0.	0.	0.	0.	0.
950	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	0.
951	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	0.
952	UNKNOWN	0.	0.	18.	0.	0.	0.	0.	0.
953	UNKNOWN	0.	0.	0.	0.	16.	0.	0.	0.
954	UNKNOWN	0.	0.	0.	0.	16.	0.	0.	0.
955	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	0.
Total Diatoms		0.	18.	144.	130.	113.	180.	69.	243.
MICROPLANKTON									
Mean Cell Density (cells/ml)		405.	2233.	2485.	276.	211.	756.	1019.	540.
Standard Deviation (cells/ml)		0.	265.	112.	65.	32.	83.	93.	97.
Total Cells Counted		135.	124.	138.	17.	13.	42.	44.	20.
Percent Nondiatoms		100.	99.	94.	53.	46.	76.	93.	55.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: San Francisco Bay

Date: JANUARY 8-9, 1980

REPLICATES: 3

Code	Genus species	Station/Depth							
		36/ 2	27/ 2	156/ 1	19/ 2	19/20	13/ 2	318/ 1	6/ 2 418/ 1
5501	Dinophysis speculum	0.	0.	0.	0.	0.	0.	23.	0.
5509	Oxytoxum milneri	0.	0.	0.	0.	0.	0.	0.	32.
5517	Ceratium divaricatum	0.	0.	0.	0.	0.	0.	0.	0.
5527	Prorocentrum sp.	0.	0.	0.	0.	0.	0.	0.	0.
8801	Amphiphora gigantea	0.	0.	0.	0.	0.	0.	0.	0.
8810	Coscinodiscus granii	0.	0.	0.	0.	0.	0.	0.	0.
8813	Coscinodiscus perforatus	0.	0.	0.	0.	0.	0.	0.	0.
8826	Melosira moniliformis	0.	0.	0.	0.	0.	0.	0.	0.
8828	Nitzschia spp.	0.	0.	0.	0.	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.	0.	0.	0.
8854	Surirella sp.2.	0.	0.	0.	0.	0.	0.	0.	0.
8858	Thalassiosira cf. hyalina	0.	0.	0.	0.	0.	0.	0.	0.
8860	Tropidoneis sp.	0.	0.	0.	0.	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	0.
9951	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	0.
MACROPLANKTON									
	Mean Cell Density (cells/ml)	0.	1.	1.	0.	0.	0.	0.	0.
	Standard Deviation (cells/ml)	0.	0.	0.	0.	0.	0.	0.	0.
	Total Cells Counted	5.	16.	26.	8.	0.	4.	9.	0.
TOTAL									
	Mean Cell Density (cells/ml)	405.	2234.	2486.	276.	211.	757.	1019.	540.
	Standard Deviation (cells/ml)	0.	265.	113.	65.	32.	83.	93.	97.
	Total Cells Counted	140.	140.	164.	25.	13.	46.	53.	23.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: February 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	156/ 1	19/ 2	19/20
1	Mesodinium rubrum	0.	36.	234.	18.	0.
7	Catalogued Unknown	0.	0.	18.	0.	0.
301	Chlamydomonas sp.	0.	0.	90.	0.	0.
310	Pyramimonas micron	60.	90.	216.	0.	72.
311	Pyramimonas plurioculata	0.	126.	234.	36.	18.
314	Scenedesmus sp.	0.	0.	0.	72.	0.
404	Ochromonas sp.	0.	162.	576.	0.	0.
405	Pseudopedinella pyriforme	0.	18.	324.	36.	54.
502	Exuviella luna	0.	0.	198.	18.	18.
505	Heterocapsa triquetra	0.	18.	0.	0.	0.
506	Katodinium rotundatum	480.	198.	270.	72.	90.
508	Oxytoxum sp.	0.	18.	0.	0.	0.
513	Gymnodinium simplex	0.	0.	0.	108.	18.
520	Gymnodinium spirale	0.	0.	0.	18.	36.
600	Chroomonas minuta	600.	1009.	918.	180.	36.
601	Chroomonas amphioxeia	900.	540.	270.	126.	90.
604	Cryptomonas testacea	1231.	342.	540.	108.	36.
700	Eutreptia laurii	30.	0.	18.	18.	0.
150	UNKNOWN	0.	18.	54.	0.	0.
151	UNKNOWN	0.	72.	0.	0.	0.
152	UNKNOWN	0.	0.	18.	0.	0.
153	UNKNOWN	0.	0.	0.	0.	18.
Total Moniatoms		3302.	2647.	3980.	810.	486.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: February 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	156/ 1	19/ 2	19/20
804	Biddulphia sp.	0.	0.	0.	0.	18.
807	Chaetoceros sp.	0.	0.	0.	18.	90.
811	Coscinodiscus sp.	0.	0.	0.	54.	36.
815	Coscinodiscu perforatus	0.	0.	0.	18.	0.
826	Epithemia sp.	0.	0.	18.	0.	0.
834	Melosira spp.	960.	54.	0.	0.	36.
844	Navicula sp.	30.	0.	0.	18.	18.
846	Nitzschia sp.	0.	0.	0.	0.	36.
849	Nitzschia longissima	0.	0.	18.	90.	144.
852	Nitzschia seriata	0.	0.	0.	0.	126.
853	Nitzschia sigma	0.	18.	0.	0.	0.
859	Rhizosolenia sp.	0.	0.	18.	0.	0.
861	Skeletonema costatum	0.	180.	0.	90.	216.
870	Thalassiosira eccentrica	0.	0.	72.	18.	36.
872	Thalassiosira rotula	0.	360.	0.	72.	270.
893	Chaetoceros debilis	0.	0.	1261.	72.	72.
894	Thalassionema nitzschoides	0.	0.	0.	0.	18.
908	Asterionella Kariana	0.	0.	0.	0.	198.
909	Biddulphia mobiliensis	0.	0.	0.	0.	72.
913	Nitzschia cf. palae	0.	0.	0.	18.	0.
950	UNKNOWN	0.	0.	18.	0.	0.
951	UNKNOWN	0.	0.	0.	18.	0.
952	UNKNOWN	0.	0.	0.	18.	0.
Total Diatoms		990.	612.	1405.	504.	1387.
MICROPLANKTON						
Mean Cell Density (cells/ml)		4292.	3260.	5385.	1315.	1873.
Standard Deviation (cells/ml)		334.	36.	1181.	234.	141.
Total Cells Counted		143.	181.	299.	73.	104.
Percent Nondiatoms		77.	81.	74.	62.	26.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: FEBRUARY 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	156/ 1	19/ 2	19/20
5501	Dinophysis speculum	0.	0.	0.	0.	0.
5508	Oxytoxum sp.	0.	0.	0.	0.	0.
5516	Ceratium lineatum	0.	0.	0.	0.	0.
5523	Amphidinium sp.	0.	0.	0.	1.	0.
5524	Peridinium sp.	0.	0.	0.	0.	0.
8816	Coscinodiscus stellaris	0.	0.	0.	0.	0.
8833	Nitzschia NL-3 8.4:1	0.	0.	0.	0.	0.
8835	Nitzschia panduriformis	0.	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	2.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	0.	1.	0.	0.
8846	Rhizosolenia spp.	0.	0.	3.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	1.	1.	6.	1.	0.
Standard Deviation (cells/ml)	0.	0.	0.	0.	0.
Total Cells Counted	16.	14.	154.	37.	0.

## TOTAL

Mean Cell Density (cells/ml)	4293.	3260.	5390.	1316.	1873.
Standard Deviation (cells/ml)	334.	36.	1182.	234.	141.
Total Cells Counted	159.	195.	453.	110.	104.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: February 6, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		19/ 2	19/20	13/ 2	318/ 1	6/ 2	418/ 1
1	Mesodinium rubrum	0.	0.	0.	0.	0.	23.
300	Ankistrodesmus falcatus	0.	0.	41.	23.	0.	0.
301	Chlamydomonas spl.	0.	0.	20.	23.	0.	0.
307	Pyramimonas spl.	0.	0.	0.	0.	54.	0.
310	Pyramimonas micron	54.	36.	0.	23.	0.	0.
311	Pyramimonas plurioculata	0.	0.	0.	162.	0.	0.
405	Pseudopedinella pyriforme	72.	0.	61.	23.	0.	0.
506	Katodinium rotundatum	18.	36.	101.	116.	0.	0.
513	Gymnodinium simplex	18.	36.	0.	0.	0.	0.
600	Chroomonas minuta	126.	90.	41.	810.	162.	46.
601	Chroomonas amphioxeia	144.	126.	122.	440.	81.	208.
602	Cryptomonas spl.	0.	0.	20.	0.	54.	116.
604	Cryptomonas testacea	18.	18.	0.	324.	108.	0.
700	Eutreptia laurii	0.	0.	20.	69.	0.	0.
150	UNKNOWN	0.	18.	0.	0.	0.	0.
151	UNKNOWN	0.	18.	0.	0.	0.	0.
152	UNKNOWN	0.	0.	0.	69.	0.	0.
153	UNKNOWN	0.	0.	0.	185.	0.	0.
154	UNKNOWN	0.	0.	0.	0.	27.	0.
155	UNKNOWN	0.	0.	0.	0.	27.	0.
Total Nondiatoms		450.	378.	425.	2269.	513.	394.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: February 6, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		19/ 2	19/20	13/ 2	318/ 1	6/ 2	418/ 1
803	Asterionella gracilis	54.	54.	0.	0.	0.	0.
807	Chaetoceros sp.	0.	72.	0.	0.	0.	0.
811	Coscinodiscus sp.	18.	0.	0.	0.	108.	93.
816	Coscinodiscus radiatus	0.	0.	20.	0.	27.	0.
818	Cyclotella spp.	18.	0.	61.	0.	0.	116.
834	Melosira spp.	0.	0.	0.	463.	0.	0.
836	Melosira distans var lirata	0.	0.	61.	648.	567.	625.
846	Nitzschia sp.	0.	18.	0.	0.	54.	0.
849	Nitzschia longissima	54.	72.	0.	0.	0.	0.
852	Nitzschia seriata	18.	0.	0.	0.	0.	0.
861	Skeletonema costatum	0.	558.	81.	1250.	0.	347.
863	Stephanopyxis sp.	0.	0.	0.	0.	27.	0.
869	Thalassiosira sp.	0.	72.	0.	0.	0.	0.
870	Thalassiosira eccentrica	18.	18.	20.	0.	0.	0.
872	Thalassiosira rotula	342.	180.	41.	0.	0.	0.
877	Melosira dubia	0.	0.	41.	0.	0.	0.
894	Thalassionema nitzschoides	18.	0.	0.	0.	0.	0.
900	Leptocylindricus danicus	0.	0.	0.	0.	0.	208.
906	Fragillaria crotonensis	0.	0.	0.	0.	0.	139.
908	Asterionella kariana	0.	72.	0.	0.	0.	0.
930	UNKNOWN	36.	0.	0.	0.	0.	0.
951	UNKNOWN	0.	0.	0.	0.	27.	0.
952	UNKNOWN	0.	0.	0.	0.	27.	0.
Total Diatoms		576.	1117.	324.	2362.	837.	1528.
MICROPLANKTON							
Mean Cell Density (cells/ml)		1027.	1495.	750.	4631.	1351.	1922.
Standard Deviation (cells/ml)		31.	203.	41.	232.	118.	61.
Total Cells Counted		57.	83.	37.	200.	50.	83.
Percent Nondiatoms		44.	25.	57.	49.	38.	20.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: FEBRUARY 6, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		19/ 2	19/20	13/ 2	318/ 1	4/ 2	418/ 1
5508	Oxytoxum sp.	0.	0.	0.	0.	0.	0.
5512	Noctiluca scintillans	0.	0.	0.	0.	0.	0.
5523	Amphidinium sp.	0.	0.	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	0.	0.	0.	0.	0.
8810	Coscinodiscus granii	0.	0.	0.	2.	0.	0.
8816	Coscinodiscus stellaris	0.	0.	0.	6.	0.	0.
8824	Licmophora abbreviata	0.	0.	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.	4.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.	0.
8847	Rhizosolenia "sm"	0.	0.	0.	2.	0.	0.
8850	Rhizosolenia styliformis	0.	0.	0.	0.	0.	0.
8855	Thalassiosira spp.	0.	0.	0.	9.	0.	0.
MACROPLANKTON							
	Mean Cell Density (cells/ml)	0.	0.	0.	23.	0.	0.
	Standard Deviation (cells/ml)	0.	0.	0.	0.	0.	0.
	Total Cells Counted	12.	0.	5.	486.	0.	0.
TOTAL							
	Mean Cell Density (cells/ml)	1027.	1495.	750.	4654.	1331.	1922.
	Standard Deviation (cells/ml)	31.	203.	41.	232.	118.	61.
	Total Cells Counted	69.	83.	42.	686.	50.	83.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: February 20, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	126/ 1
310	Pyramimonas micron	324.
600	Chroomonas minuta	486.
601	Chroomonas amphioxeia	486.
700	Eutreptia lausonii	162.
150	UNKNOWN	162.
151	UNKNOWN	324.
152	UNKNOWN	162.
Total Nondiatoms		2107.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: February 20, 1980

REPLICATES: 3

## Station/Depth

Code Genus species 126/ 1

834	Melosira spp.	162.
844	Navicula sp.	162.
846	Mitzschia sp.	486.
851	Mitzschia panduriformis	162.
853	Mitzschia sigma	162.
905	Entomoneis alata	162.

Total Diatoms 1297.

## MICROPLANKTON

Mean Cell Density (cells/ml)	3404.
Standard Deviation (cells/ml)	972.
Total Cells Counted	21.
Percent Monodiatoms	62.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: San Francisco Bay

Date: February 27, 1980

REPLICATES: 3

Code	Genus species	Station/Depth	
		27/ 2	156/ 1
1	Mesodinium rubrum	30.	0.
300	Ankistrodesmus falcatus	30.	0.
311	Pyramimonas plurioculata	210.	20.
405	Pseudopedinella pyriforme	510.	425.
406	Chrysochromulina kappa	210.	0.
506	Latodinium rotundatum	600.	263.
510	Prorocentrum redfieldii	0.	20.
600	Chroomonas minuta	1831.	203.
601	Chroomonas amphioxeia	840.	284.
604	Cryptomonas testacea	300.	263.
700	Eutreptia lauwii	60.	0.
150	UNKNOWN	150.	20.
151	UNKNOWN	0.	20.
Total Nondiatoms		4772.	1520.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: San Francisco Bay

Date: February 27, 1980

REPLICATES: 3

Code	Genus species	Station/Depth	
		27/ 2	156/ 1
811	Coscinodiscus sp.	0.	20.
844	Navicula sp.	30.	20.
849	Ritzschia longissima	0.	20.
869	Thalassiosira sp.	30.	0.
872	Thalassiosira rotula	0.	61.
	Total Diatoms	60.	122.
	MICROPLANKTON		
	Mean Cell Density (cells/ml)	4832.	1641.
	Standard Deviation (cells/ml)	30.	93.
	Total Cells Counted	161.	81.
	Percent Nondiatoms	99.	93.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: March 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	156/ 1	19/ 1
1	Mesodinium rubrum	0.	54.	34.	0.
203	Palaeelloid form	0.	0.	0.	144.
310	Pyramimonas micron	34.	198.	338.	126.
311	Pyramimonas plurioculata	0.	54.	1756.	0.
314	Scenedesmus sp.	0.	0.	0.	72.
404	Ochromonas sp.	0.	0.	34.	0.
405	Pseudopedinella pyriforme	0.	0.	810.	180.
406	Chrysochromulina kappa	0.	108.	34.	0.
506	Katodinium rotundatum	0.	126.	135.	54.
513	Gymnodinium simplex	0.	0.	0.	18.
600	Chroomonas minuta	1823.	918.	3444.	342.
601	Chroomonas amphioxeia	1114.	792.	1081.	0.
604	Cryptomonas testacea	1148.	630.	608.	252.
700	Eutreptia lauwii	0.	0.	34.	36.
150	UNKNOWN	0.	0.	101.	0.
151	UNKNOWN	0.	0.	0.	18.
Total Nondiatoms		4120.	2881.	8408.	1243.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: March 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		34/ 2	27/ 2	156/ 1	19/ 1
834	Melosira spp.	169.	0.	0.	18.
844	Navicula sp.	0.	0.	101.	0.
849	Mitzschia longissima	0.	0.	34.	54.
851	Mitzschia panduriformis	0.	0.	34.	0.
853	Mitzschia sigma	0.	0.	34.	0.
869	Thalassiosira sp.	0.	0.	101.	0.
870	Thalassiosira eccentrica	0.	0.	0.	18.
872	Thalassiosira rotula	0.	72.	2499.	0.
930	UNKNOWN	0.	18.	0.	0.
Total Diatoms		169.	90.	2803.	90.
MICROPLANKTON					
Mean Cell Density (cells/ml)		4288.	2971.	11211.	1333.
Standard Deviation (cells/ml)		147.	343.	89.	48.
Total Cells Counted		127.	165.	332.	74.
Percent Nondiatoms		96.	97.	75.	93.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: MARCH 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	156/ 1	19/ 1
8811	Coscinodiscus jonesianus	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	2.	0.	0.	0.
8842	Pleurosigma NL-1 8.7:1	0.	0.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	0.	1.	0.
8846	Rhizosolenia spp.	0.	0.	1.	0.
9950	UNKNOWN	0.	0.	0.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	2.	1.	2.	0.
	Standard Deviation (cells/ml)	0.	0.	0.	0.
	Total Cells Counted	41.	14.	56.	0.
TOTAL					
	Mean Cell Density (cells/ml)	4290.	2972.	11213.	1333.
	Standard Deviation (cells/ml)	148.	343.	90.	48.
	Total Cells Counted	168.	179.	388.	74.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: March 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		19/ 1	17/ 2	17/25	13/ 2	6/ 2	418/ 1
1	Mesodinium rubrum	0.	0.	41.	0.	0.	0.
203	Palaeelloid form	0.	41.	0.	0.	0.	0.
300	Ankistrodesmus falcatus	0.	41.	20.	0.	27.	0.
301	Chlamydomonas spl.	0.	0.	0.	41.	108.	27.
310	Pyramimonas micron	144.	41.	61.	0.	0.	0.
311	Pyramimonas plurioculata	0.	0.	0.	0.	0.	27.
314	Scenedesmus sp.	0.	223.	0.	0.	0.	0.
315	Scenedesmus bijuga	72.	0.	0.	0.	0.	0.
405	Pseudopedinella pyriforme	126.	0.	0.	0.	0.	0.
506	Katodinium rotundatum	144.	81.	122.	0.	0.	0.
515	Gyrodinium sp.	0.	0.	20.	0.	0.	0.
600	Chroomonas minuta	342.	182.	162.	41.	0.	135.
601	Chroomonas amphioxeia	36.	162.	41.	101.	0.	54.
602	Cryptomonas spl.	0.	0.	0.	20.	0.	0.
604	Cryptomonas testacea	252.	122.	61.	41.	0.	189.
700	Eutreptia laurarii	18.	20.	0.	0.	0.	0.
150	UNKNOWN	0.	0.	0.	0.	0.	0.
151	UNKNOWN	0.	20.	0.	0.	0.	0.
152	UNKNOWN	0.	0.	0.	20.	0.	0.
Total Nondiatoms		1135.	932.	527.	263.	135.	432.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: March 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		19/ 1	17/ 2	17/25	13/ 2	6/ 2	418/ 1
803	Asterionella gracilis	72.	0.	0.	0.	0.	0.
818	Cyclotella spp.	0.	0.	20.	0.	27.	0.
834	Melosira spp.	0.	41.	0.	0.	0.	0.
836	Melosira distans var lirata	0.	0.	0.	0.	270.	0.
846	Nitzschia sp.	36.	0.	20.	0.	27.	0.
849	Nitzschia longissima	18.	0.	0.	0.	27.	0.
861	Skeletonema costatum	0.	223.	122.	0.	0.	0.
869	Thalassiosira sp.	36.	20.	0.	0.	27.	54.
870	Thalassiosira eccentrica	36.	0.	0.	0.	0.	27.
906	Fragillaria crotonensis	0.	0.	0.	61.	0.	0.
908	Asterionella kariana	0.	0.	41.	0.	0.	0.
Total Diatoms		198.	284.	203.	61.	378.	81.
MICROPLANKTON							
Mean Cell Density (cells/ml)		1333.	1216.	729.	344.	513.	513.
Standard Deviation (cells/ml)		48.	122.	127.	107.	54.	71.
Total Cells Counted		74.	60.	36.	17.	19.	19.
Percent Nondiatoms		85.	77.	72.	81.	26.	84.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: MARCH 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		19/ 1	17/ 2	17/25	13/ 2	6/ 2	418/ 1
8802	Amphora sp.	0.	0.	0.	20.	0.	0.
8811	Coscinodiscus jonesianus	0.	0.	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.	0.
MACROPLANKTON							
	Mean Cell Density (cells/ml)	0.	0.	0.	0.	0.	0.
	Standard Deviation (cells/ml)	0.	0.	0.	0.	0.	0.
	Total Cells Counted	5.	0.	0.	3.	1.	0.
TOTAL							
	Mean Cell Density (cells/ml)	1333.	1216.	729.	345.	513.	513.
	Standard Deviation (cells/ml)	48.	122.	127.	107.	54.	71.
	Total Cells Counted	79.	60.	36.	20.	20.	19.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: San Francisco Bay

Date: March 18-19, 1980

REPLICATES: 3

Code	Genus species	Station/Depth							
		6/ 2	13/ 2	312/ 1	318/ 1	19/ 2	19/40	27/ 2	36/ 2
62	Catalogued Unknown	0.	551.	18477.	23016.	36.	0.	0.	0.
93	Catalogued Unknown	0.	0.	0.	0.	0.	0.	0.	3512.
203	Palaeoform	0.	0.	162.	0.	0.	0.	0.	0.
300	Ankistrodesmus falcatus	216.	0.	162.	162.	0.	0.	0.	0.
301	Chlamydomonas sp.	162.	0.	0.	0.	0.	0.	0.	5493.
307	Pyramimonas sp.	0.	0.	0.	0.	0.	54.	0.	2521.
309	Pyramimonas dissimata	0.	0.	0.	0.	0.	18.	0.	0.
310	Pyramimonas micron	0.	0.	0.	162.	0.	18.	810.	0.
311	Pyramimonas plurioculata	0.	0.	0.	486.	0.	0.	0.	0.
314	Scenedesmus sp.	0.	130.	0.	0.	0.	0.	0.	0.
318	Crucigenia quadrata	216.	0.	0.	0.	0.	0.	0.	0.
404	Ochromonas sp.	0.	0.	0.	162.	0.	0.	135.	0.
405	Pseudopedinella pyriforme	0.	0.	0.	0.	0.	0.	68.	0.
406	Chrysochromulina kappa	0.	0.	162.	0.	18.	126.	203.	0.
504	Glenodinium punctatum	0.	0.	0.	0.	18.	0.	0.	0.
506	Katodinium rotundatum	0.	65.	324.	0.	0.	54.	68.	1441.
513	Glenodinium simplex	0.	0.	0.	0.	18.	36.	0.	0.
521	Glenodinium spp.	0.	0.	0.	0.	0.	0.	0.	90.
600	Chroomonas minuta	378.	130.	486.	324.	0.	90.	2330.	0.
601	Chroomonas amphioxeia	216.	97.	324.	486.	0.	252.	473.	2251.
602	Cryptomonas sp.	54.	0.	0.	0.	0.	0.	0.	0.
701	Trachelomonas sp.	27.	0.	0.	0.	0.	0.	0.	0.
704	Buglena polymorpha	0.	0.	0.	0.	0.	0.	0.	1981.
150	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	5313.
151	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	180.
152	UNKNOWN	81.	0.	0.	0.	0.	0.	0.	0.
153	UNKNOWN	27.	0.	0.	0.	0.	0.	0.	0.
154	UNKNOWN	0.	0.	0.	0.	18.	54.	0.	0.
155	UNKNOWN	0.	0.	0.	0.	18.	0.	0.	0.
156	UNKNOWN	0.	0.	0.	0.	36.	0.	0.	0.
157	UNKNOWN	0.	0.	0.	0.	18.	0.	0.	0.
Total Nondiatoms		1378.	972.	20098.	24798.	180.	702.	4086.	22781.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: San Francisco Bay

Date: March 18-19, 1980

REPLICATES: 3

Code	Genus species	Station/Depth							
		6/ 2	13/ 2	312/ 1	318/ 1	19/ 2	19/40	27/ 2	36/ 2
811	Coscinodiscus sp.	0.	0.	0.	0.	0.	18.	0.	0.
818	Cyclotella spp.	108.	65.	2107.	0.	0.	72.	0.	450.
822	Cyclotella striata	81.	0.	324.	810.	0.	0.	0.	0.
826	Epithemia sp.	0.	0.	0.	162.	0.	0.	0.	0.
834	Melosira spp.	0.	454.	0.	162.	36.	0.	0.	0.
835	Melosira binderiana	54.	0.	0.	0.	0.	0.	0.	0.
836	Melosira distans var lirata	405.	130.	0.	162.	36.	0.	0.	0.
837	Melosira granulata	324.	0.	0.	0.	0.	0.	0.	0.
844	Navicula sp.	0.	65.	0.	162.	0.	0.	0.	630.
846	Nitzschia sp.	0.	0.	0.	0.	0.	72.	68.	0.
849	Nitzschia longissima	0.	0.	0.	0.	36.	18.	0.	0.
853	Nitzschia sigma	0.	0.	0.	0.	18.	0.	0.	0.
861	Skeletonema costatum	0.	0.	3728.	6321.	0.	0.	0.	0.
866	Surirella spiralis	0.	0.	0.	0.	0.	0.	0.	180.
869	Thalassiosira sp.	0.	65.	0.	0.	0.	0.	0.	0.
870	Thalassiosira eccentrica	81.	0.	0.	0.	0.	0.	0.	0.
877	Melosira dubia	0.	65.	0.	0.	0.	0.	0.	0.
950	UNKNOWN	0.	0.	0.	0.	0.	0.	0.	90.
951	UNKNOWN	27.	0.	0.	0.	0.	0.	0.	0.
Total Diatoms		1081.	843.	6159.	7780.	126.	180.	68.	1351.
MICROPLANKTON									
Mean Cell Density (cells/ml)		2458.	1815.	26257.	32578.	306.	882.	4153.	24132.
Standard Deviation (cells/ml)		338.	522.	1012.	1563.	72.	126.	255.	1038.
Total Cells Counted		91.	56.	162.	201.	17.	49.	123.	268.
Percent Nondiatoms		56.	54.	77.	76.	59.	80.	98.	94.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: March 25, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		27/ 1	156/ 1	168/ 1
1	Mesodinium rubrum	0.	0.	162.
45	Catalogued Unknown	0.	0.	432.
62	Catalogued Unknown	120.	0.	0.
300	Ankistrodesmus falcatus	0.	0.	54.
301	Chlamydomonas spl.	90.	0.	162.
310	Pyramimonas micron	9335.	3602.	24798.
311	Pyramimonas plurioculata	390.	90.	918.
404	Ochromonas sp.	600.	450.	1459.
406	Chrysochromulina Kappa	1861.	2521.	6051.
502	Exuviella luna	0.	270.	0.
505	Heterocapsa triquetra	0.	0.	216.
506	Katodinium rotundatum	0.	90.	216.
513	Gyrodinium simplex	30.	360.	324.
600	Chroomonas minuta	2491.	1531.	3350.
601	Chroomonas amphioxeia	1561.	1081.	1729.
604	Cryptomonas testacea	570.	540.	918.
150	UNKNOWN	90.	0.	0.
151	UNKNOWN	270.	90.	0.
152	UNKNOWN	60.	0.	0.
153	UNKNOWN	0.	270.	0.
154	UNKNOWN	0.	0.	108.
155	UNKNOWN	0.	0.	810.
156	UNKNOWN	0.	0.	54.
157	UNKNOWN	0.	0.	162.
158	UNKNOWN	0.	0.	324.
Total Nondiatoms		17469.	10895.	42249.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: March 25, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		27/ 1	156/ 1	168/ 1
815	Coscinodiscu perforatus	0.	90.	0.
834	Melosira spp.	0.	540.	0.
836	Melosira distans var lirata	0.	0.	108.
849	Nitzschia longissima	30.	0.	54.
859	Rhizosolenia sp.	0.	0.	270.
869	Thalassiosira sp.	0.	0.	54.
Total Diatoms		30.	630.	486.
MICROPLANKTON				
Mean Cell Density (cells/ml)		17499.	11526.	42735.
Standard Deviation (cells/ml)		575.	360.	515.
Total Cells Counted		583.	128.	791.
Percent Nondiatoms		100.	95.	99.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: April 2, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		162/ 1	27/ 1	30/ 1
7	Catalogued Unknown	486.	101.	1756.
55	Catalogued Unknown	108.	2296.	0.
62	Catalogued Unknown	108.	0.	0.
301	Chlamydomonas spl.	0.	203.	0.
307	Pyramimonas spl.	0.	135.	0.
310	Pyramimonas micron	2269.	2094.	3107.
404	Ochromonas sp.	270.	540.	1486.
405	Pseudopedinella pyriforme	1189.	439.	135.
500	Cachonina niei	0.	0.	540.
502	Exuviella luna	108.	34.	135.
504	Gymnodinium punctatum	0.	135.	0.
506	Katodinium rotundatum	756.	338.	540.
507	Miniscula bipes	54.	34.	540.
513	Gymnodinium simplex	324.	0.	0.
600	Chroomonas minuta	5619.	2296.	5808.
601	Chroomonas amphioxeia	3404.	675.	2296.
602	Cryptomonas spl.	54.	0.	0.
604	Cryptomonas testacea	0.	675.	540.
605	Rhabdomonas sp.	0.	34.	0.
700	Eutreptia laurionii	0.	0.	135.
150	UNKNOWN	378.	0.	0.
151	UNKNOWN	108.	0.	0.
152	UNKNOWN	0.	34.	0.
Total Haptophytes		15236.	10063.	17019.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: April 2, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		162/ 1	27/ 1	30/ 1
813	Coscinodiscus jonesianus	108.	0.	135.
818	Cyclotella spp.	1081.	135.	4052.
820	Cyclotella catenata	0.	68.	0.
821	Cyclotella meneghiniana	0.	34.	0.
822	Cyclotella striata	0.	34.	0.
835	Melosira binderiana	0.	945.	0.
849	Nitzschia longissima	0.	34.	0.
861	Skeletonema costatum	0.	203.	0.
870	Thalassiosira eccentrica	0.	135.	0.
911	Rhizosolenia styliformis	0.	236.	0.
912	Cyclotella cf. caspia	7078.	945.	126964.
Total Diatoms		8266.	2769.	131151.
MICROPLANKTON				
Mean Cell Density (cells/ml)		23502.	12831.	148169.
Standard Deviation (cells/ml)		1103.	1258.	4646.
Total Cells Counted		435.	380.	1097.
Percent Nondiatoms		65.	78.	11.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: April 8, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		36/ 2	27/ 2	118/ 1	156/ 1	162/ 1	19/ 2 19/39
7	Catalogued Unknown	0.	0.	101.	0.	0.	0.
45	Catalogued Unknown	0.	0.	0.	0.	34.	0.
86	Catalogued Unknown	0.	0.	0.	0.	101.	0.
87	Catalogued Unknown	1336.	507.	1114.	0.	169.	0.
300	Ankistrodesmus falcatus	0.	225.	0.	0.	0.	0.
301	Chlamydomonas spl.	0.	56.	608.	0.	0.	0.
303	Closterium sp.	89.	0.	0.	0.	0.	0.
304	Cosmarium sp.	267.	0.	0.	0.	0.	0.
307	Pyramimonas spl.	0.	113.	304.	0.	68.	36.
309	Pyramimonas dissomata	0.	0.	0.	0.	68.	120.
310	Pyramimonas micron	3206.	4922.	5268.	2460.	11717.	120.
311	Pyramimonas plurioculata	0.	0.	304.	0.	945.	120.
404	Ochromonas sp.	0.	0.	608.	0.	0.	0.
405	Pseudopedinella pyriforme	0.	0.	0.	0.	473.	450.
406	Chrysochromulina Kappa	0.	338.	0.	0.	540.	0.
500	Cachonina niei	0.	338.	0.	0.	0.	0.
501	Dinophysis sp.	0.	56.	0.	0.	0.	0.
502	Exuviella luna	0.	0.	0.	0.	68.	30.
505	Heterocapsa triquetra	0.	56.	0.	0.	0.	0.
506	Katodinium rotundatum	0.	0.	810.	1592.	34.	0.
507	Miniscula bipes	0.	0.	0.	145.	34.	0.
514	Ceratium sp.	0.	0.	0.	0.	34.	0.
515	Gymnodinium sp.	0.	0.	0.	0.	0.	30.
521	Glenodinium spp.	0.	0.	0.	0.	0.	0.
600	Chroomonas minuta	1781.	17671.	6483.	15629.	4153.	180.
601	Chroomonas amphioxeia	0.	1069.	810.	1013.	405.	60.
602	Cryptomonas spl.	1514.	394.	0.	0.	0.	30.
604	Cryptomonas testacea	534.	507.	1317.	289.	405.	300.
605	Rhabdomonas sp.	0.	338.	0.	0.	34.	0.
150	UNKNOWN	802.	169.	0.	0.	0.	0.
151	UNKNOWN	178.	0.	0.	0.	0.	0.
152	UNKNOWN	0.	225.	203.	0.	68.	0.
153	UNKNOWN	0.	0.	405.	0.	0.	0.
154	UNKNOWN	0.	0.	0.	289.	0.	0.
155	UNKNOWN	0.	0.	0.	289.	0.	0.
156	UNKNOWN	0.	0.	0.	0.	135.	0.
157	UNKNOWN	0.	0.	0.	0.	0.	60.
158	UNKNOWN	0.	0.	0.	0.	0.	36.
Total Nondiatoms		9707.	28983.	18335.	21707.	19484.	1501.
							558.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: April 8, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		36/ 2	27/ 2	118/ 1	156/ 1	162/ 1	19/ 2
803	Asterionella gracilis	0.	0.	0.	0.	0.	90.
807	Chaetoceros sp.	0.	0.	0.	0.	0.	180.
811	Coscinodiscus sp.	178.	0.	203.	0.	0.	30.
814	Thalassiosira nodulolineata	0.	56.	0.	0.	0.	0.
818	Cyclotella spp.	0.	0.	0.	0.	0.	30.
834	Melosira spp.	0.	0.	0.	0.	0.	180.
844	Navicula sp.	178.	169.	0.	0.	0.	0.
846	Nitzschia sp.	0.	56.	0.	0.	0.	0.
852	Nitzschia seriata	0.	0.	0.	0.	0.	390.
853	Nitzschia sigma	0.	56.	0.	0.	0.	0.
854	Pleurosigma sp.	89.	0.	0.	0.	34.	0.
861	Skeletonema costatum	0.	0.	0.	0.	0.	3752.
869	Thalassiosira sp.	0.	0.	0.	0.	0.	30.
872	Thalassiosira rotula	0.	0.	0.	0.	0.	0.
877	Melosira dubia	0.	0.	0.	0.	0.	0.
882	Pleurosigma fasciola	0.	56.	0.	0.	0.	0.
909	Biddulphia mobiliensis	0.	0.	0.	0.	0.	0.
912	Cyclotella cf. caspia	88076.	29771.	77900.	136901.	32889.	0.
Total Diatoms		88521.	30165.	78103.	136901.	32923.	4682.
MICROPLANKTON							
Mean Cell Density (cells/ml)		98229.	59148.	96438.	158608.	52406.	6183.
Standard Deviation (cells/ml)		3625.	1383.	2569.	4075.	1144.	131.
Total Cells Counted		1103.	1051.	952.	1096.	1552.	206.
Percent Nondiatoms		10.	49.	19.	14.	37.	24.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: APRIL 8, 1980

REPLICATES: 3

Code	Genus species	Station/Depth						
		36/ 2	27/ 2	118/ 1	156/ 1	162/ 1	19/ 2	19/39
8809	Coscinodiscus spp.	1.	0.	0.	0.	0.	0.	0.
8816	Coscinodiscus stellaris	0.	1.	0.	2.	3.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	5.	0.	0.	1.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.	0.	0.
8847	Rhizosolenia "sa"	0.	1.	0.	1.	0.	0.	0.
8850	Rhizosolenia styliformis	0.	2.	0.	1.	0.	0.	0.
9950	UNKNOWN	0.	1.	0.	0.	0.	0.	0.
9951	UNKNOWN	0.	0.	0.	0.	1.	0.	0.
MACROPLANKTON								
	Mean Cell Density (cells/ml)	6.	4.	0.	6.	4.	0.	0.
	Standard Deviation (cells/ml)	0.	0.	0.	1.	0.	0.	0.
	Total Cells Counted	128.	114.	0.	118.	95.	0.	0.
TOTAL								
	Mean Cell Density (cells/ml)	98235.	59153.	96438.	158614.	52410.	6183.	2035.
	Standard Deviation (cells/ml)	3626.	1384.	2569.	4076.	1144.	131.	72.
	Total Cells Counted	1231.	1165.	952.	1214.	1647.	206.	113.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: April 9, 1980

REPLICATES

Code	Genus species	Station/Depth					
		418/ 1	6/ 2	324/ 1	318/ 1	13/ 2	19/ 1
45	Catalogued Unknown	0.	0.	0.	0.	30.	0.
62	Catalogued Unknown	0.	0.	18369.	0.	0.	0.
87	Catalogued Unknown	0.	0.	270.	0.	0.	0.
203	Palmelloid form	0.	27.	0.	0.	0.	0.
300	Ankistrodesmus falcatus	180.	162.	270.	68.	0.	0.
301	Chlamydomonas spl.	90.	162.	0.	68.	60.	0.
307	Pyramimonas spl.	0.	0.	0.	0.	300.	49.
309	Pyramimonas dissomata	0.	0.	270.	0.	30.	16.
310	Pyramimonas micron	0.	0.	0.	270.	180.	146.
314	Scenedesmus sp.	540.	0.	0.	0.	0.	0.
315	Scenedesmus bijuga	0.	108.	0.	0.	0.	0.
404	Ochromonas sp.	0.	0.	0.	0.	30.	0.
500	Cachonina niei	0.	0.	0.	0.	0.	16.
506	Katodinium rotundatum	0.	0.	0.	0.	180.	16.
507	Miniscula bipes	0.	0.	0.	0.	30.	32.
509	Oxytoxum milneri	0.	0.	0.	0.	0.	49.
600	Chroomonas minuta	0.	0.	25393.	10468.	420.	178.
601	Chroomonas amphioxeia	0.	162.	5133.	1621.	390.	81.
602	Cryptomonas spl.	0.	81.	0.	0.	0.	0.
603	Cryptomonas sp2.	990.	0.	0.	0.	0.	16.
604	Cryptomonas testacea	0.	0.	1081.	338.	900.	227.
605	Rhabdomonas sp.	0.	0.	0.	0.	30.	0.
150	UNKNOWN	90.	0.	0.	0.	0.	0.
151	UNKNOWN	180.	0.	0.	0.	0.	0.
152	UNKNOWN	0.	0.	810.	0.	0.	0.
153	UNKNOWN	0.	0.	0.	203.	0.	0.
154	UNKNOWN	0.	0.	0.	135.	0.	0.
155	UNKNOWN	0.	27.	0.	0.	0.	0.
156	UNKNOWN	0.	0.	0.	0.	0.	65.
Total Nondiatoms		2071.	729.	51596.	13169.	2581.	891.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: April 9, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		418/ 1	6/ 2	324/ 1	318/ 1	13/ 2	19/ 1
805	Biddulphia aurita	0.	0.	0.	0.	0.	162.
811	Coscinodiscus sp.	0.	0.	0.	203.	0.	0.
814	Thalassiosira nodulolineata	0.	0.	0.	0.	0.	49.
815	Coscinodiscu perforatus	0.	0.	0.	0.	0.	16.
818	Cyclotella spp.	1261.	0.	3782.	0.	0.	0.
819	Cyclotella bodanica	270.	0.	0.	0.	0.	0.
822	Cyclotella striata	900.	243.	270.	0.	0.	0.
836	Melosira distans var lirata	18729.	1594.	0.	0.	0.	0.
844	Navicula sp.	180.	27.	270.	0.	0.	0.
849	Nitzschia longissima	0.	0.	0.	0.	0.	16.
851	Nitzschia panduriformis	360.	0.	0.	0.	0.	0.
852	Nitzschia seriata	0.	0.	0.	0.	0.	130.
854	Pleurosigma sp.	0.	0.	270.	0.	0.	0.
861	Skeletonema costatum	0.	0.	0.	1351.	0.	1750.
869	Thalassiosira sp.	90.	0.	0.	0.	0.	0.
872	Thalassiosira rotula	0.	0.	0.	0.	0.	32.
906	Fragillaria crotonensis	0.	81.	0.	0.	0.	0.
912	Cyclotella cf. caspia	0.	0.	0.	68.	210.	97.
950	UNKNOWN	90.	0.	0.	0.	0.	0.
951	UNKNOWN	0.	0.	270.	0.	0.	0.
952	UNKNOWN	0.	0.	270.	0.	0.	0.
953	UNKNOWN	0.	0.	0.	405.	0.	0.
954	UNKNOWN	0.	0.	0.	135.	0.	0.
955	UNKNOWN	0.	0.	0.	68.	0.	0.
956	UNKNOWN	0.	0.	0.	68.	0.	0.
Total Diatoms		21881.	1945.	5133.	2296.	210.	2253.
MICROPLANKTON							
Mean Cell Density (cells/ml)		23952.	2674.	56729.	15465.	2791.	3144.
Standard Deviation (cells/ml)		1975.	124.	2605.	243.	138.	90.
Total Cells Counted		266.	99.	210.	229.	93.	194.
Percent Nondiatoms		9.	27.	91.	85.	92.	28.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: APRIL 9, 1960

REPLICATES: 3

Code	Genus species	Station/Depth					
		418/ 1	4/ 2	324/ 1	318/ 1	13/ 2	19/ 1
5524	Peridinium sp.	0.	0.	0.	0.	0.	0.
8812	Thalassiosira cf. hendeyi	0.	0.	0.	0.	0.	0.
8816	Coscinodiscus stellaris	0.	0.	0.	1.	0.	0.
8828	Mitzschia spp.	0.	0.	0.	0.	0.	18.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.	0.	1.
8847	Rhizosolenia "sm"	0.	0.	0.	0.	0.	0.
8850	Rhizosolenia styliiformis	0.	0.	0.	0.	0.	0.
MACROPLANKTON							
	Mean Cell Density (cells/ml)	0.	0.	0.	2.	0.	20.
	Standard Deviation (cells/ml)	0.	0.	0.	0.	0.	0.
	Total Cells Counted	0.	0.	0.	19.	12.	536.
TOTAL							
	Mean Cell Density (cells/ml)	23952.	2674.	56729.	15467.	2792.	3164.
	Standard Deviation (cells/ml)	1975.	124.	2605.	244.	138.	91.
	Total Cells Counted	266.	99.	210.	248.	105.	730.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: April 15, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		20/ 1	27/ 1	162/ 1
35	Catalogued Unknown	0.	34.	0.
307	Pyramimonas spl.	0.	68.	0.
310	Pyramimonas micron	2364.	2026.	1013.
311	Pyramimonas plurioculata	0.	101.	0.
314	Scenedesmus sp.	0.	0.	135.
404	Ochromonas sp.	84.	0.	236.
405	Pseudopedinella pyriforme	422.	270.	0.
406	Chrysochromulina Kappa	0.	34.	0.
500	Cachonina niei	84.	68.	34.
506	Eatodinium rotundatum	338.	34.	169.
507	Miniscula bipes	84.	0.	68.
508	Oxytoxum sp.	0.	0.	34.
600	Chroomonas minuta	5065.	3275.	2195.
601	Chroomonas amphioxeia	1182.	912.	1047.
602	Cryptomonas spl.	0.	0.	68.
604	Cryptomonas testacea	1013.	1081.	338.
150	UNKNOWN	0.	0.	101.
151	UNKNOWN	0.	0.	34.
152	UNKNOWN	0.	34.	0.
153	UNKNOWN	0.	68.	0.
154	UNKNOWN	0.	34.	0.
155	UNKNOWN	0.	34.	0.
Total Nondiatoms		10637.	8070.	5470.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: April 15, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		30/ 1	27/ 1	162/ 1
814	Thalassiosira nodulolineata	0.	0.	34.
834	Melosira spp.	0.	0.	68.
836	Melosira distans var lirata	0.	34.	0.
911	Rhizosolenia styliformis	84.	0.	101.
912	Cyclotella cf. caspia	68969.	1992.	7125.
	Total Diatoms	69053.	2026.	7327.
MICROPLANKTON				
	Mean Cell Density (cells/ml)	79690.	10096.	12798.
	Standard Deviation (cells/ml)	447.	524.	609.
	Total Cells Counted	944.	299.	379.
	Percent Nondiatoms	13.	80.	43.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: APRIL 15, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		30/ 1	27/ 1	162/ 1
5512	Noctiluca scintillans	0.	0.	0.
8816	Coscinodiscus stellaris	0.	2.	1.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.
8847	Rhizosolenia "sm"	0.	5.	0.
8850	Rhizosolenia styliformis	0.	16.	0.
9950	UNKNOWN	0.	0.	0.
MACROPLANKTON				
	Mean Cell Density (cells/ml)	0.	24.	1.
	Standard Deviation (cells/ml)	0.	1.	0.
	Total Cells Counted	0.	576.	14.
TOTAL				
	Mean Cell Density (cells/ml)	79690.	10120.	12798.
	Standard Deviation (cells/ml)	447.	525.	609.
	Total Cells Counted	944.	875.	393.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: SOUTH SAN FRANCISCO BAY

Date: APRIL 22, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	162/ 1	19/ 2	19/35
1	Mesodinium rubrum	0.	0.	0.	0.	30.
300	Ankistrodesmus falcatus	60.	0.	0.	0.	0.
307	Pyramimonas spl.	0.	0.	0.	0.	30.
310	Pyramimonas micron	1561.	780.	1036.	0.	30.
311	Pyramimonas plurioculata	30.	540.	0.	30.	0.
316	Chlamydomonas sp.2	300.	0.	0.	0.	0.
321	Ankistrodesmus spp.	0.	30.	0.	0.	0.
404	Ochromonas sp.	0.	30.	0.	0.	0.
405	Pseudopedinella pyriforme	750.	60.	0.	0.	0.
406	Chrysochromulina kappa	570.	90.	0.	0.	0.
500	Cachonina niei	0.	0.	0.	30.	0.
502	Exuviella luna	150.	0.	0.	60.	0.
506	Katodinium rotundatum	2671.	660.	0.	90.	60.
507	Miniscula bipes	210.	0.	0.	0.	0.
513	Gymnodinium simplex	0.	0.	0.	0.	60.
515	Gymnodinium sp	0.	0.	0.	30.	0.
522	Goniaulax sp.	120.	0.	0.	0.	0.
600	Chroomonas minuta	11076.	6753.	2701.	60.	0.
601	Chroomonas amphioxeia	2491.	1591.	225.	150.	120.
604	Cryptomonas testacea	690.	120.	45.	30.	60.
605	Rhabdomonas sp.	30.	0.	0.	0.	0.
700	Eutreptia lauwii	30.	30.	0.	0.	0.
150	UNKNOWN	30.	0.	0.	0.	0.
151	UNKNOWN	60.	0.	0.	0.	0.
152	UNKNOWN	90.	0.	0.	0.	0.
153	UNKNOWN	30.	0.	0.	0.	0.
154	UNKNOWN	0.	120.	0.	0.	0.
155	UNKNOWN	0.	60.	0.	0.	0.
Total Moniatoms		20951.	10865.	4007.	480.	390.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: SOUTH SAN FRANCISCO BAY

Date: APRIL 22, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	162/ 1	19/ 2	19/35
803	Asterionella gracilis	0.	0.	0.	60.	300.
806	Biddulphia longicruris	0.	0.	0.	60.	0.
807	Chaetoceros sp.	0.	0.	0.	120.	0.
811	Coscinodiscus sp.	0.	0.	0.	30.	180.
813	Coscinodiscus jonesianus	0.	0.	135.	0.	60.
814	Thalassiosira nodulolineata	300.	120.	1171.	0.	180.
829	Eucampia zoodiacus	0.	0.	0.	30.	0.
834	Melosira spp.	0.	0.	0.	30.	0.
846	Nitzschia sp.	0.	0.	0.	30.	180.
849	Nitzschia longissima	0.	0.	0.	30.	30.
852	Nitzschia seriata	0.	0.	0.	810.	690.
854	Pleurosigma sp.	30.	0.	0.	0.	0.
861	Skeletonema costatum	0.	0.	90.	5523.	7354.
869	Thalassiosira sp.	30.	0.	0.	30.	30.
870	Thalassiosira eccentrica	0.	0.	0.	30.	30.
911	Rhizosolenia styliformis	60.	30.	0.	30.	0.
912	Cyclotella cf. caspia	11886.	1531.	9995.	0.	0.
950	UNKNOWN	0.	0.	0.	0.	30.
951	UNKNOWN	0.	0.	0.	0.	30.
Total Diatoms		12306.	1681.	11391.	6813.	9095.
MICROPLANKTON						
Mean Cell Density (cells/ml)		33257.	12546.	15398.	7294.	9485.
Standard Deviation (cells/ml)		6634.	668.	340.	444.	1330.
Total Cells Counted		1108.	418.	342.	243.	316.
Percent Nondiatoms		63.	87.	26.	7.	4.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: SOUTH SAN FRANCISCO BAY

Date: APRIL 22, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	162/ 1	19/ 2	19/35
5518	Oxytoxum diploconus	0.	0.	0.	0.	0.
5528	Dystodinium sp.	0.	0.	0.	0.	0.
8806	Biddulphia longicruris	0.	0.	0.	1.	1.
8809	Coscinodiscus spp.	0.	0.	12.	0.	0.
8810	Coscinodiscus granii	3.	7.	0.	0.	0.
8815	Coscinodiscus radiatus	0.	0.	0.	0.	0.
8816	Coscinodiscus stellaris	1.	3.	2.	1.	0.
8817	Ditylum brightwellii	0.	0.	0.	0.	1.
8828	Nitzschia spp.	0.	0.	0.	29.	62.
8834	Nitzschia pacifica	0.	0.	0.	63.	83.
8840	Pleurosigma cf. fasciola 8:1	1.	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	1.	1.	3.	0.	0.
8847	Rhizosolenia "sm"	2.	3.	0.	0.	0.
8848	Rhizosolenia "med"	2.	3.	0.	0.	1.
8849	Rhizosolenia "big"	0.	0.	0.	0.	0.
8852	Stephanopyxis turris	0.	0.	0.	0.	0.
8860	Tropidoneis sp.	0.	0.	0.	0.	0.
8862	Asterionella gracilis	0.	0.	0.	3.	4.
MACROPLANKTON						
	Mean Cell Density (cells/ml)	10.	17.	18.	97.	153.
	Standard Deviation (cells/ml)	0.	1.	0.	3.	3.
	Total Cells Counted	276.	446.	325.	2615.	4144.
TOTAL						
	Mean Cell Density (cells/ml)	33267.	12563.	15416.	7391.	9638.
	Standard Deviation (cells/ml)	6634.	670.	340.	447.	1332.
	Total Cells Counted	1384.	864.	667.	2858.	4460.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: April 23, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
45	Catalogued Unknown	510.	130.	0.	0.	34.
42	Catalogued Unknown	0.	292.	810.	259.	0.
87	Catalogued Unknown	0.	0.	0.	162.	0.
206	Oscillatoria sp.	0.	0.	0.	0.	34.
301	Chlamydomonas spl.	30.	65.	0.	0.	0.
306	Polyedriopsis quadrispina	0.	65.	0.	0.	0.
310	Pyramimonas micron	0.	519.	0.	0.	0.
311	Pyramimonas plurioculata	0.	97.	0.	0.	0.
315	Scenedesmus bijuga	0.	130.	0.	0.	0.
318	Crucigenia quadrata	0.	0.	0.	0.	34.
319	Protococcus sp.	0.	0.	0.	0.	574.
320	Scenedesmus quadricauda West	0.	0.	0.	0.	304.
321	Ankistrodesmus spp.	0.	0.	0.	0.	34.
500	Cachonina niei	30.	0.	0.	0.	0.
502	Exuviella luna	30.	0.	0.	0.	0.
513	Gymnodinium simplex	60.	0.	0.	0.	0.
521	Glenodinium spp.	30.	0.	0.	0.	0.
522	Goniaulax sp.	30.	0.	0.	0.	0.
600	Chroomonas minuta	1051.	1913.	324.	0.	0.
601	Chroomonas amphioxeia	180.	972.	0.	0.	0.
603	Cryptomonas sp2.	0.	0.	0.	0.	34.
604	Cryptomonas testacea	150.	0.	0.	0.	0.
605	Rhabdomonas sp.	0.	292.	0.	0.	0.
703	Trachelomonas hispida	0.	0.	0.	0.	34.
150	UNKNOWN	0.	0.	162.	0.	0.
151	UNKNOWN	0.	0.	162.	0.	0.
152	UNKNOWN	30.	0.	0.	0.	0.
153	UNKNOWN	60.	0.	0.	0.	0.
154	UNKNOWN	30.	0.	0.	0.	0.
155	UNKNOWN	30.	0.	0.	0.	0.
Total Nondiatoms		2251.	4473.	1459.	421.	1061.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: April 23, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
818	Cyclotella spp.	1051.	875.	0.	0.	338.
819	Cyclotella bodanica	0.	0.	0.	0.	34.
822	Cyclotella striata	0.	0.	810.	0.	1587.
824	Diatoma vulgare	0.	0.	0.	32.	0.
834	Melosira spp.	840.	0.	0.	0.	0.
836	Melosira distans var lirata	0.	0.	4862.	1426.	473.
837	Melosira granulata	0.	0.	0.	0.	642.
844	Navicula sp.	0.	0.	162.	32.	0.
846	Nitzschia sp.	0.	0.	0.	0.	68.
850	Nitzschia pacifica	30.	0.	0.	0.	0.
851	Nitzschia panduriformis	0.	0.	0.	32.	0.
861	Skeletonema costatum	60.	0.	0.	519.	0.
870	Thalassiosira eccentrica	0.	0.	0.	97.	0.
914	Cocconeis pediculus	0.	0.	0.	0.	34.
915	Ceratoneis arcus	0.	0.	0.	0.	101.
916	Stephanodiscus astrea	0.	0.	0.	0.	68.
950	UNKNOWN	0.	0.	0.	194.	0.
Total Diatoms		1981.	875.	5835.	2334.	3343.
MICROPLANKTON						
Mean Cell Density (cells/ml)		4232.	5349.	7294.	2755.	4423.
Standard Deviation (cells/ml)		104.	245.	1459.	265.	135.
Total Cells Counted		141.	165.	45.	85.	131.
Percent Nondiatoms		53.	84.	20.	15.	24.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: APRIL 23, 1960

REPLICATES: 3

Code	Genus species	Station/Depth				
		13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
8816	Coscinodiscus stellaris	2.	4.	0.	0.	0.
8818	Epithemia sp.	0.	0.	0.	0.	0.
8847	Rhizosolenia "sm"	0.	0.	0.	0.	0.
8848	Rhizosolenia "med"	0.	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.	0.
9951	UNKNOWN	0.	0.	0.	0.	0.
MACROPLANKTON						
	Mean Cell Density (cells/ml)	2.	4.	1.	0.	0.
	Standard Deviation (cells/ml)	0.	0.	1.	0.	0.
	Total Cells Counted	53.	57.	2.	1.	0.
TOTAL						
	Mean Cell Density (cells/ml)	4234.	5352.	7294.	2755.	4423.
	Standard Deviation (cells/ml)	104.	245.	1459.	265.	135.
	Total Cells Counted	194.	222.	47.	86.	131.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: MAY 7, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		36/ 2	27/ 2	162/ 1	168/ 1	19/ 2	19/40
1	Mesodinium rubrum	34.	180.	1531.	1411.	30.	0.
310	Pyramimonas micron	34.	30.	18.	0.	90.	0.
402	Bistephanus speculum	0.	0.	0.	0.	0.	30.
404	Ochromonas sp.	0.	60.	0.	0.	0.	0.
405	Pseudopedinella pyriforme	0.	0.	0.	0.	30.	0.
500	Cachonina niei	0.	0.	0.	0.	60.	30.
506	Katodinium rotundatum	34.	90.	0.	0.	0.	0.
509	Oxytoxum milneri	0.	0.	0.	0.	0.	60.
600	Chroomonas minuta	709.	1351.	432.	360.	0.	0.
601	Chroomonas amphioxeia	1047.	1501.	72.	270.	90.	480.
602	Cryptomonas sp1.	0.	0.	0.	0.	30.	0.
604	Cryptomonas testacea	34.	150.	36.	180.	0.	0.
606	Hemiselmis sp.	0.	30.	0.	0.	0.	0.
150	UNKNOWN	0.	60.	0.	0.	0.	0.
Total Nondiatoms		1891.	3452.	2089.	2221.	330.	600.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: MAY 7, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		36/ 2	27/ 2	162/ 1	168/ 1	19/ 2	19/40
803	Asterionella gracilis	0.	0.	0.	0.	360.	540.
806	Biddulphia longicruris	0.	0.	0.	0.	0.	60.
807	Chaetoceros sp.	0.	0.	0.	0.	0.	330.
808	Chaetoceros constrictus	0.	0.	0.	0.	0.	0.
814	Thalassiosira nodulolineata	101.	60.	0.	0.	150.	30.
816	Coscinodiscus radiatus	0.	0.	0.	0.	0.	30.
818	Cyclotella spp.	0.	0.	72.	0.	0.	90.
844	Navicula sp.	1182.	0.	54.	0.	60.	0.
849	Nitzschia longissima	0.	0.	0.	30.	30.	180.
850	Nitzschia pacifica	0.	0.	0.	0.	270.	510.
854	Pleurosigma sp.	0.	0.	0.	30.	0.	0.
861	Skeletonema costatum	0.	0.	0.	0.	3962.	5943.
872	Thalassiosira rotula	0.	0.	0.	0.	150.	390.
900	Leptocylindricus danicus	0.	0.	0.	0.	30.	0.
912	Cyclotella cf. caspia	3107.	390.	0.	0.	0.	90.
Total Diatoms		4390.	450.	126.	60.	5013.	8194.
MICROFLANKTON							
Mean Cell Density (cells/ml)		6281.	3902.	2215.	2281.	5343.	8794.
Standard Deviation (cells/ml)		326.	216.	329.	256.	570.	541.
Total Cells Counted		186.	130.	123.	76.	178.	293.
Percent Nondiatoms		30.	88.	94.	97.	6.	7.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - BOX

Location: South San Francisco Bay

Date: MAY 7, 1980

REPLICATES: 3

Code	Genus species	Station/Depth					
		36/ 2	27/ 2	162/ 1	168/ 1	19/ 2	19/40
1001	Mesodinium rubrum	0.	0.	0.	0.	0.	0.
5508	Oxytoxum sp.	0.	0.	0.	0.	0.	0.
5523	Amphidinium sp.	0.	0.	0.	0.	0.	1.
5524	Peridinium sp.	0.	0.	0.	0.	0.	0.
5525	Gyrodinium lunula	0.	0.	0.	0.	0.	0.
5528	Cystodinium sp.	0.	0.	0.	0.	0.	0.
8800	Actinopterychus senarius	0.	0.	0.	0.	3.	3.
8806	Biddulphia longicruris	0.	0.	0.	0.	0.	2.
8807	Biddulphia mobilensis	0.	0.	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	14.	0.	0.	0.	0.
8810	Coscinodiscus granii	0.	0.	0.	0.	0.	0.
8813	Coscinodiscus perforatus	0.	0.	0.	0.	2.	3.
8814	Coscinodiscus 8813 cellulosa	0.	0.	0.	0.	0.	0.
8816	Coscinodiscus stellaris	0.	3.	0.	0.	0.	0.
8817	Ditylum brightwellii	0.	0.	0.	0.	0.	0.
8823	Gyrosigma sp.	0.	0.	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.	0.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	0.	0.	0.	0.	0.
8847	Rhizosolenia "sm"	0.	0.	0.	0.	0.	0.
8850	Rhizosolenia styliformis	0.	0.	0.	0.	0.	0.
8855	Thalassiosira spp.	0.	0.	0.	0.	0.	0.
8856	Thalassiosira angustii	0.	0.	0.	0.	0.	0.
8860	Tropidoneis sp.	0.	0.	0.	0.	0.	0.
MACROPLANKTON							
	Mean Cell Density (cells/ml)	0.	17.	0.	0.	7.	10.
	Standard Deviation (cells/ml)	0.	1.	0.	0.	0.	1.
	Total Cells Counted	0.	314.	0.	0.	177.	260.
TOTAL							
	Mean Cell Density (cells/ml)	6281.	3919.	2215.	2281.	5349.	8804.
	Standard Deviation (cells/ml)	326.	218.	329.	256.	570.	542.
	Total Cells Counted	186.	444.	123.	76.	355.	553.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: May 8, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
1	Mesodinium rubrum	0.	39.	0.	0.	0.
24	Catalogued Unknown	90.	0.	0.	0.	20.
45	Catalogued Unknown	90.	0.	0.	0.	0.
204	Marisaopodia sp.	0.	0.	0.	0.	162.
307	Pyramimonas spl.	390.	116.	0.	0.	0.
309	Pyramimonas dissomata	450.	424.	0.	0.	0.
310	Pyramimonas micron	1291.	695.	0.	0.	0.
314	Scenedesmus sp.	120.	0.	0.	0.	0.
321	Ankistrodesmus spp.	0.	0.	405.	324.	0.
404	Ochromonas sp.	90.	0.	0.	0.	0.
405	Pseudopedinella pyriforme	180.	77.	0.	0.	0.
406	Chrysochromulina Kappa	390.	0.	0.	0.	0.
500	Cachonina niei	60.	0.	0.	0.	0.
506	Katodinium rotundatum	840.	733.	0.	0.	0.
600	Chroomonas minuta	4652.	1621.	0.	0.	20.
601	Chroomonas amphioxeia	1471.	1273.	486.	162.	243.
603	Cryptomonas sp2.	0.	0.	405.	0.	0.
604	Cryptomonas testacea	870.	116.	0.	0.	0.
605	Rhabdomonas sp.	30.	0.	0.	0.	122.
606	Hemiselms sp.	120.	0.	0.	0.	0.
700	Eutreptia lauwii	30.	0.	0.	0.	0.
150	UNKNOWN	0.	0.	0.	0.	81.
151	UNKNOWN	0.	0.	0.	0.	20.
152	UNKNOWN	0.	0.	0.	0.	20.
153	UNKNOWN	0.	0.	0.	0.	20.
Total Nondiatoms		11166.	5094.	1297.	486.	709.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: May 8, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
811	Coscinodiscus sp.	0.	193.	648.	0.	20.
814	Thalassiosira nodulolineata	0.	193.	0.	0.	0.
818	Cyclotella spp.	30.	10342.	567.	324.	223.
823	Diatoma sp.	0.	0.	0.	0.	20.
836	Melosira distans var. lirata	0.	0.	810.	648.	162.
837	Melosira granulata	0.	0.	0.	0.	729.
849	Nitzschia longissima	30.	0.	0.	0.	0.
859	Rhizosolenia sp.	30.	0.	0.	0.	0.
861	Skeletonema costatum	0.	0.	972.	0.	0.
862	Skeletonema potamus	0.	0.	2026.	0.	162.
870	Thalassiosira eccentrica	0.	0.	81.	0.	0.
886	Asterionella formosa	0.	0.	567.	0.	0.
912	Cyclotella cf. caspia	1951.	0.	0.	0.	0.
915	Ceratoneis arcus	0.	0.	0.	0.	0.
950	UNKNOWN	30.	0.	243.	0.	0.
951	UNKNOWN	0.	116.	0.	0.	0.
952	UNKNOWN	0.	77.	0.	0.	0.
953	UNKNOWN	0.	0.	162.	0.	0.
954	UNKNOWN	0.	0.	0.	0.	20.
955	UNKNOWN	0.	0.	0.	0.	203.
Total Diatoms		2071.	10921.	6078.	972.	1540.
MICROPLANKTON						
Mean Cell Density (cells/ml)		13237.	16015.	7375.	1459.	2249.
Standard Deviation (cells/ml)		1534.	519.	429.	743.	93.
Total Cells Counted		441.	415.	91.	9.	111.
Percent Nondiatoms		84.	32.	18.	33.	32.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - BOX

Location: North San Francisco Bay

Date: May 8, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		130/ 2	318/ 1	6/ 2	419/ 1	657/ 2
5524	Paridinium sp.	0.	0.	0.	0.	0.
8811	Concinodiscus jonesianus	0.	10.	0.	0.	0.
8812	Thalassiosira cf. hendeyi	0.	58.	0.	0.	0.
8822	Gomphonema sp	0.	0.	0.	1.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	5.	0.
9951	UNKNOWN	0.	0.	0.	1.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	68.	0.	7.	0.
Standard Deviation (cells/ml)	0.	1.	0.	1.	0.
Total Cells Counted	0.	1425.	0.	22.	0.

## TOTAL

Mean Cell Density (cells/ml)	13237.	16083.	7375.	1466.	2249.
Standard Deviation (cells/ml)	1534.	520.	429.	744.	93.
Total Cells Counted	441.	1840.	91.	31.	111.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: May 21, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	27/ 2	162/ 1
1	Nesodinium rubrum	0.	23.
24	Catalogued Unknown	0.	46.
74	Catalogued Unknown	0.	23.
307	Pyramimonas spl.	0.	23.
309	Pyramimonas dissonata	0.	46.
310	Pyramimonas micron	90.	0.
500	Cachonina niei	60.	0.
600	Chroomonas minuta	1561.	718.
601	Chroomonas amphioxea	1291.	648.
604	Cryptomonas testacea	450.	486.
700	Eutreptia laurumii	30.	0.
150	UNKNOWN	30.	0.
Total Nondiatoms		3512.	2014.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: May 21, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	27/ 2	162/ 1
950	UNKNOWN	0.	93.
951	UNKNOWN	0.	69.
952	UNKNOWN	0.	69.
Total Diatoms		0.	232.
MICROPLANKTON			
Mean Cell Density (cells/ml)		3512.	2246.
Standard Deviation (cells/ml)		227.	417.
Total Cells Counted		117.	97.
Percent Nondiatoms		100.	90.
CsCHL		26.	20.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - BOX

Location: South San Francisco Bay

Date: MAY 21, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	27/ 2	162/ 1
8830	Mitsushia longissima	0.	0.
9950	UNKNOWN	0.	0.
9951	UNKNOWN	0.	0.
9952	UNKNOWN	0.	0.
9953	UNKNOWN	0.	0.
9954	UNKNOWN	0.	0.
9955	UNKNOWN	0.	1.

## MACROPLANKTON

Mean Cell Density (cells/ml)	1.	1.
Standard Deviation (cells/ml)	0.	0.
Total Cells Counted	14.	21.

## TOTAL

Mean Cell Density (cells/ml)	3512.	2247.
Standard Deviation (cells/ml)	227.	418.
Total Cells Counted	131.	118.
Phytoplankton Carbon (ug/L)	67.	62.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: May 22, 1980

REPLICATES: 3

Code	Genus species	Station/Depth						
		19/ 2	19/40	13/ 2	318/ 1	4/ 2	418/ 1	657/ 2
300	Ankistrodesmus falcatus	0.	0.	0.	0.	0.	0.	101.
301	Chlamydomonas sp.	0.	0.	0.	0.	41.	0.	0.
303	Closterium sp.	0.	0.	0.	0.	0.	0.	34.
307	Pyramimonas sp.	18.	0.	0.	0.	0.	0.	0.
309	Pyramimonas dissimata	18.	0.	0.	0.	0.	0.	0.
310	Pyramimonas micron	54.	0.	41.	0.	0.	0.	0.
314	Scenedesmus sp.	0.	0.	0.	0.	162.	0.	270.
322	Selenastrum minutum	0.	0.	0.	0.	41.	0.	0.
323	Actinastrum hantzschii	0.	0.	0.	0.	0.	0.	439.
506	Katodinium rotundatum	18.	0.	0.	0.	0.	0.	0.
507	Miniscula bipes	36.	0.	0.	0.	0.	0.	0.
520	Gyrodinium spirale	18.	0.	0.	0.	0.	0.	0.
600	Chroomonas minuta	216.	972.	223.	2107.	0.	972.	0.
601	Chroomonas amphioxeia	54.	396.	446.	810.	162.	162.	810.
603	Cryptomonas sp2.	0.	0.	0.	0.	0.	162.	0.
604	Cryptomonas testacea	0.	90.	81.	0.	0.	0.	203.
150	UNKNOWN	0.	18.	0.	0.	0.	0.	0.
151	UNKNOWN	0.	0.	0.	0.	365.	0.	0.
Total Nondiatoms		432.	1477.	790.	2917.	770.	1297.	1857.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: May 22, 1980

REPLICATES: 3

Code	Genus species	Station/Depth						
		19/ 2	19/40	13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
803	Asterionella gracilis	288.	414.	0.	0.	0.	0.	0.
805	Biddulphia aurita	36.	0.	0.	0.	0.	0.	0.
807	Chaetoceros sp.	324.	216.	0.	0.	0.	0.	0.
809	Chaetoceros didymus	0.	54.	0.	0.	0.	0.	0.
811	Coscinodiscus sp.	0.	0.	0.	0.	122.	0.	101.
814	Thalassiosira nodulolineata	0.	0.	101.	2107.	0.	0.	0.
818	Cyclotella spp.	0.	0.	101.	0.	405.	0.	540.
822	Cyclotella striata	0.	0.	0.	0.	0.	0.	34.
834	Melosira spp.	72.	0.	0.	0.	243.	0.	34.
835	Melosira binderiana	0.	0.	0.	0.	81.	0.	0.
836	Melosira distans var lirata	0.	0.	0.	0.	162.	0.	135.
837	Melosira granulata	0.	0.	0.	0.	0.	0.	608.
844	Mavicula sp.	0.	0.	0.	0.	0.	162.	0.
846	Mitzschia sp.	0.	0.	20.	1135.	0.	0.	169.
847	Mitzschia closterium	0.	0.	0.	0.	41.	0.	34.
849	Mitzschia longissima	54.	126.	0.	486.	0.	0.	0.
851	Mitzschia panduriformis	0.	0.	0.	162.	284.	0.	0.
861	Skeletonema costatum	1081.	522.	0.	0.	0.	1135.	0.
862	Skeletonema potamus	0.	0.	0.	0.	770.	1783.	1182.
870	Thalassiosira eccentrica	0.	0.	0.	0.	0.	4376.	0.
950	UNKNOWN	36.	0.	0.	0.	0.	0.	0.
951	UNKNOWN	18.	0.	0.	0.	0.	0.	0.
952	UNKNOWN	0.	0.	0.	0.	0.	486.	0.
Total Diatoms		1909.	1333.	223.	3890.	2107.	7942.	2836.
MICROPLANKTON								
Mean Cell Density (cells/ml)		2341.	2809.	1013.	6807.	2877.	9239.	4694.
Standard Deviation (cells/ml)		160.	267.	239.	486.	266.	1965.	798.
Total Cells Counted		130.	156.	50.	42.	71.	57.	139.
Percent Nondiatoms		18.	53.	78.	43.	27.	14.	40.
C:CHL		61.	33.	25.	39.	14.	19.	44.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - BOX

Location: North San Francisco Bay

Date: MAY 22, 1960

REPLICATES: 3

Code	Genus species	Station/Depth						
		19/ 2	19/40	13/ 2	318/ 1	6/ 2	418/ 1	657/ 2
5512	Noctiluca scintillans	0.	0.	0.	0.	0.	0.	0.
5518	Oxytoxum diploconus	0.	0.	0.	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	0.	0.	0.	0.	0.
5525	Gyrodinium lunula	0.	0.	0.	0.	0.	0.	0.
8800	Actinopterychus senaris	0.	1.	0.	0.	0.	0.	0.
8803	Asterionella formosa	0.	0.	0.	0.	0.	0.	14.
8805	Biddulphia aurita	1.	0.	0.	0.	0.	0.	0.
8806	Biddulphia longicruris	1.	0.	0.	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	0.	0.	0.	2.	0.	0.
8812	Thalassiosira cf. hendeyi	0.	0.	0.	201.	0.	0.	0.
8817	Ditylum brightwellii	0.	0.	0.	0.	0.	0.	0.
8821	Fragilaria crotenensis	0.	0.	0.	0.	0.	0.	3.
8822	Gomphonema sp.	0.	0.	0.	0.	0.	0.	0.
8823	Gyrosigma sp.	0.	0.	2.	35.	0.	0.	0.
8827	Navicula spp.	0.	0.	0.	0.	0.	0.	0.
8828	Nitzschia spp.	3.	5.	0.	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	1.	1.	0.	0.	0.	0.	0.
8855	Thalassiosira spp.	1.	0.	0.	0.	0.	0.	0.
9950	UNKNOWN	1.	1.	0.	0.	0.	0.	0.
9951	UNKNOWN	1.	0.	0.	0.	0.	0.	0.
9952	UNKNOWN	0.	1.	0.	0.	0.	0.	0.
9953	UNKNOWN	0.	0.	56.	0.	0.	9.	0.
MACROPLANKTON								
Mean Cell Density (cells/ml)		10.	12.	59.	236.	2.	9.	18.
Standard Deviation (cells/ml)		1.	0.	2.	15.	0.	3.	3.
Total Cells Counted		273.	322.	1414.	709.	24.	27.	433.
TOTAL								
Mean Cell Density (cells/ml)		2351.	2821.	1072.	7044.	2879.	9248.	4712.
Standard Deviation (cells/ml)		161.	267.	241.	501.	266.	1968.	801.
Total Cells Counted		403.	478.	1464.	751.	95.	84.	572.



# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: June 4, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2	19/40
310	Pyramimonas micron	0.	0.	0.	16.	0.
900	Cachonina niei	0.	0.	0.	32.	0.
600	Chroomonas minuta	81.	20.	130.	308.	32.
601	Chroomonas asphioxeia	182.	0.	551.	373.	113.
604	Cryptomonas testacea	81.	81.	0.	0.	0.
150	UNKNOWN	0.	122.	0.	0.	0.
Total Nondiatoms		344.	223.	681.	729.	146.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: June 4, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2	19/40
801	Actinopterychus senarius	0.	0.	0.	0.	113.
803	Asterionella gracilis	0.	0.	0.	162.	276.
804	Biddulphia sp.	0.	0.	0.	16.	0.
818	Cyclotella spp.	0.	0.	681.	49.	0.
846	Mitzschia sp.	0.	0.	0.	32.	0.
849	Mitzschia longissima	0.	0.	0.	65.	97.
861	Skeletonema costatum	0.	0.	0.	470.	1637.
869	Thalassiosira sp.	0.	0.	0.	16.	0.
882	Pleurosigma fasciola	0.	20.	0.	0.	0.
900	Leptocylindricus danicus	0.	0.	0.	0.	32.
950	UNKNOWN	203.	0.	0.	0.	0.
Total Diatoms		203.	20.	681.	810.	2156.
MICROPLANKTON						
Mean Cell Density (cells/ml)		547.	243.	1361.	1540.	2302.
Standard Deviation (cells/ml)		61.	35.	149.	43.	138.
Total Cells Counted		27.	12.	42.	95.	142.
Percent Nondiatoms		63.	92.	50.	47.	6.
C:CHL		9.	5.	15.	25.	51.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: JUNE 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	162/ 1	19/ 2	19/40
5502	Exuviella luna	0.	0.	0.	0.	0.
5508	Oxytoxum sp.	0.	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	0.	0.	0.
5525	Gymnodinium lunula	0.	0.	0.	0.	0.
8800	Actinopterychus senaris	0.	0.	0.	0.	0.
8805	Biddulphia aurita	0.	0.	0.	0.	0.
8806	Biddulphia longicruris	0.	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	0.	0.	0.	0.
8812	Thalassiosira cf. hendeyi	0.	0.	0.	2.	3.
8817	Ditylum brightwellii	0.	0.	0.	0.	0.
8825	Lithodesmum undulatum	0.	0.	0.	0.	0.
8836	Mitschia serriata	0.	0.	0.	3.	6.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	1.	1.
8853	Surirella sp.1.	0.	0.	0.	0.	0.
8860	Tropidoneis sp.	0.	0.	0.	1.	1.
9950	UNKNOWN	0.	0.	0.	0.	0.
9951	UNKNOWN	0.	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	0.	0.	7.	12.
Standard Deviation (cells/ml)	0.	0.	0.	1.	1.
Total Cells Counted	0.	9.	4.	220.	346.

## TOTAL

Mean Cell Density (cells/ml)	547.	243.	1362.	1547.	2313.
Standard Deviation (cells/ml)	61.	35.	149.	43.	140.
Total Cells Counted	27.	21.	46.	315.	488.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: June 5, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	13/ 2	318/ 1	328/ 1	9/ 2	6/ 2	420/ 1	657/ 2
314	Scenedesmus sp.	0.	0.	0.	0.	162.	0.	0.
319	Protococcus sp.	0.	0.	0.	0.	0.	0.	270.
321	Ankistrodesmus spp.	0.	0.	0.	0.	0.	0.	39.
404	Ochromonas sp.	0.	0.	162.	0.	0.	0.	0.
505	Heterocapsa triquetra	18.	0.	0.	0.	0.	0.	0.
600	Chroomonas minuta	540.	1297.	1027.	0.	689.	162.	0.
601	Chroomonas amphioxeia	342.	486.	486.	540.	0.	810.	270.
602	Cryptomonas sp.	0.	0.	0.	0.	0.	0.	733.
604	Cryptomonas testacea	252.	0.	108.	0.	405.	0.	0.
150	UNKNOWN	0.	0.	0.	0.	891.	0.	0.
Total Nondiatoms		1153.	1783.	1783.	540.	2148.	972.	1312.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: June 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth						
		13/ 2	318/ 1	328/ 1	9/ 2	4/ 2	420/ 1	657/ 2
818	Dyclotella spp.	0.	0.	0.	0.	486.	2269.	965.
826	Epithemia sp.	0.	0.	0.	0.	41.	0.	0.
834	Melosira spp.	0.	540.	54.	0.	527.	486.	39.
837	Melosira granulata	0.	0.	0.	0.	0.	0.	2007.
844	Navicula sp.	0.	0.	0.	0.	41.	0.	0.
846	Nitzschia sp.	0.	0.	0.	0.	0.	0.	0.
847	Nitzschia closterium	0.	54.	0.	0.	0.	0.	0.
849	Nitzschia longissima	36.	0.	0.	0.	0.	0.	0.
851	Nitzschia panduriformis	0.	0.	0.	0.	284.	5673.	0.
854	Pleurosira sp.	0.	0.	0.	216.	41.	0.	0.
861	Skeletonema costatum	0.	0.	0.	972.	0.	0.	0.
870	Thalassiosira eccentrica	0.	0.	0.	0.	162.	0.	0.
877	Melosira dubia	0.	0.	0.	864.	0.	0.	0.
918	Thalassiothrix sp.	0.	0.	0.	0.	0.	0.	579.
Total Diatoms		36.	594.	54.	2053.	1580.	8428.	3589.
MICROPLANKTON								
Mean Cell Density (cells/ml)		1189.	2377.	1837.	2593.	3728.	9401.	4901.
Standard Deviation (cells/ml)		125.	329.	195.	187.	822.	429.	1123.
Total Cells Counted		66.	44.	34.	48.	92.	58.	127.
Percent Nondiatoms		97.	75.	97.	21.	58.	10.	27.
C:CHL		3.	1.	1.	13.	22.	49.	95.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: June 5, 1980

REPLICATES: 3

		Station/Depth						
Code	Genus species	13/ 2	318/ 1	329/ 1	9/ 2	6/ 2	420/ 1	657/ 2
5502	Exuviella luna	0.	0.	0.	0.	0.	0.	0.
5508	Oxytoxum sp.	0.	0.	0.	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	0.	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	221.	99.	0.	0.	2.	0.
8812	Thalassiosira cf. hendeyi	0.	0.	0.	0.	3.	0.	0.
8815	Coscinodiscus radiatus	42.	0.	0.	53.	0.	0.	0.
8827	Navicula spp.	0.	0.	0.	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	34.	0.	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	2.	0.	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	8.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.	0.	0.	0.
MACROPLANKTON								
Mean Cell Density (cells/ml)		42.	258.	108.	53.	3.	2.	0.
Standard Deviation (cells/ml)		5.	10.	3.	1.	0.	0.	0.
Total Cells Counted		1132.	2318.	969.	802.	34.	7.	2.
TOTAL								
Mean Cell Density (cells/ml)		1231.	2635.	1945.	2647.	3731.	9403.	4901.
Standard Deviation (cells/ml)		130.	339.	197.	188.	823.	429.	1123.
Total Cells Counted		1198.	2362.	1003.	850.	126.	65.	129.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: June 17, 1960

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	162/ 1	19/ 2	19/38
1	Mesodinium rubrum	0.	0.	30.	0.	0.
307	Pyramimonas spl.	27.	0.	0.	0.	40.
404	Ochromonas sp.	0.	0.	0.	40.	0.
506	Katodinium rotundatum	0.	0.	0.	30.	30.
508	Oxytoxum sp.	0.	0.	0.	90.	90.
524	Peridinium sp.	0.	0.	0.	0.	30.
600	Chroomonas minuta	351.	432.	4472.	450.	420.
601	Chroomonas amphioxeia	702.	270.	1081.	330.	660.
604	Cryptomonas testacea	81.	0.	0.	180.	150.
Total Nondiatoms		1162.	702.	5583.	1141.	1441.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: June 17, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2	19/38
803	Asterionella gracilis	0.	0.	0.	90.	480.
807	Chaetoceros sp.	0.	0.	0.	90.	360.
811	Coscinodiscus sp.	0.	0.	0.	30.	30.
844	Navicula sp.	0.	0.	0.	0.	90.
846	Nitzschia sp.	0.	0.	0.	0.	30.
849	Nitzschia longissima	0.	0.	0.	0.	120.
850	Nitzschia pacifica	0.	0.	0.	510.	0.
861	Skeletonema costatum	0.	0.	0.	1141.	1891.
872	Thalassiosira rotula	0.	0.	0.	0.	90.
Total Diatoms		0.	0.	0.	1861.	3092.
MICROPLANKTON						
Mean Cell Density (cells/ml)		1162.	702.	5583.	3002.	4532.
Standard Deviation (cells/ml)		108.	195.	837.	60.	313.
Total Cells Counted		43.	13.	186.	100.	151.
Percent Nondiatoms		100.	100.	100.	38.	32.
C:CHL		15.	6.	41.	104.	140.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: JUNE 17, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		36/ 2	27/ 2	162/ 1	19/ 2	19/38
5512	Noctiluca scintillans	0.	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	0.	0.	0.
5525	Cymodinium lunula	0.	0.	0.	0.	0.
8804	Biddulphia sp.	0.	0.	0.	0.	0.
8805	Biddulphia aurita	0.	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	0.	0.	1.	4.
8817	Ditylum brightwellii	0.	0.	0.	0.	0.
8825	Lithodesmium undulatum	0.	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.	1.
8846	Rhizosolenia spp.	0.	0.	0.	1.	0.
8856	Thalassiosira angustii	0.	0.	0.	0.	1.
8860	Tropidoneis sp.	0.	0.	0.	0.	1.
9950	UNKNOWN	0.	0.	0.	0.	0.
9951	UNKNOWN	0.	0.	0.	0.	0.
9952	UNKNOWN	0.	0.	0.	0.	0.
9953	UNKNOWN	0.	0.	0.	1.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	0.	0.	4.	6.
Standard Deviation (cells/ml)	0.	0.	0.	0.	0.
Total Cells Counted	4.	1.	0.	99.	171.

## TOTAL

Mean Cell Density (cells/ml)	1162.	702.	5583.	3005.	4539.
Standard Deviation (cells/ml)	108.	195.	837.	60.	314.
Total Cells Counted	47.	14.	186.	199.	322.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: June 18, 1980

REPLICATES: 3

Code	Genus species	Station/Depth						
		13/ 2	318/ 1	9/ 2	4/ 2	418/ 1	3/ 2	657/ 2
300	Ankistrodesmus falcatus	0.	0.	0.	0.	0.	0.	20.
301	Chlamydomonas spl.	0.	0.	0.	0.	0.	783.	648.
306	Polyedriopsis quadrispina	0.	0.	0.	0.	0.	27.	0.
307	Pyramimonas spl.	162.	0.	0.	0.	0.	0.	0.
312	Tetraedron sp.	0.	0.	0.	0.	0.	27.	0.
314	Scenedesmus sp.	0.	0.	0.	0.	0.	0.	567.
504	Gyrodinium punctatum	20.	0.	0.	0.	0.	0.	0.
600	Chroomonas minuta	1013.	0.	0.	0.	0.	0.	0.
601	Chroomonas amphioxeia	689.	0.	0.	0.	0.	0.	0.
602	Cryptomonas spl.	0.	0.	0.	608.	0.	189.	709.
603	Cryptomonas sp2.	0.	0.	97.	0.	0.	0.	0.
604	Cryptomonas testacea	122.	0.	0.	162.	0.	0.	0.
Total Nondiatoms		2006.	0.	97.	770.	0.	1027.	1945.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: June 18, 1980

REPLICATES: 3

Code	Genus species	Station/Depth						
		13/ 2	318/ 1	9/ 2	6/ 2	418/ 1	3/ 2	657/ 2
811	Coscinodiscus sp.	20.	0.	0.	0.	0.	0.	0.
818	Cyclotella spp.	41.	0.	0.	284.	162.	243.	41.
819	Cyclotella bodanica	0.	0.	0.	405.	0.	0.	0.
822	Cyclotella striata	0.	0.	32.	41.	162.	189.	628.
827	Epithemia sorex	0.	0.	0.	0.	0.	0.	41.
834	Melosira spp.	0.	0.	162.	0.	0.	0.	0.
836	Melosira distans var lirata	0.	0.	0.	0.	0.	0.	41.
837	Melosira granulata	0.	0.	0.	0.	0.	270.	891.
842	Melosira varians	0.	0.	0.	0.	0.	0.	425.
846	Mitzschia sp.	0.	0.	0.	0.	162.	0.	0.
847	Mitzschia closterium	0.	0.	0.	0.	0.	0.	61.
849	Mitzschia longissima	41.	0.	0.	0.	0.	0.	0.
851	Mitzschia panduriformis	0.	0.	0.	486.	1459.	54.	0.
862	Skeletonema potamus	0.	0.	32.	203.	0.	0.	0.
864	Surirella sp.	0.	0.	0.	0.	0.	0.	20.
870	Thalassiosira eccentrica	0.	0.	1037.	0.	3728.	27.	0.
877	Melosira dubia	41.	162.	357.	0.	0.	0.	0.
950	UNKNOWN	41.	0.	0.	0.	0.	0.	0.
Total Diatoms		182.	162.	1621.	1418.	5873.	783.	2148.
MICROPLANKTON								
Mean Cell Density (cells/ml)		2188.	162.	1718.	2188.	5673.	1810.	4093.
Standard Deviation (cells/ml)		312.	162.	309.	70.	429.	135.	266.
Total Cells Counted		108.	1.	53.	54.	35.	67.	202.
Percent Nondiatoms		92.	0.	6.	35.	0.	57.	48.
C:CHL		6.	0.	14.	85.	26.	40.	119.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: JUNE 18, 1980

REPLICATES: 1

Code	Genus species	Station/Depth						
		13/ 2	318/ 1	9/ 2	6/ 2	418/ 1	3/ 2	657/ 2
8809	Coccinodiscus spp.	0.	270.	66.	1.	0.	0.	0.
8812	Thalassiosira cf. hendeyi	45.	0.	0.	0.	0.	0.	0.
8818	Epithemia sp.	0.	0.	0.	0.	0.	0.	0.
8821	Fragilaria crotenensis	0.	0.	0.	0.	0.	0.	16.
8827	Navicula spp.	0.	0.	0.	0.	0.	0.	0.
8837	Mitschlia sigma	0.	18.	0.	0.	1.	0.	0.
8838	Pleurosigma spp. 5:1	14.	1.	4.	0.	0.	0.	0.
8845	Rhizosolenia curvata	0.	0.	0.	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.	0.	0.	0.
8851	Stephanodiscus spp.	0.	0.	0.	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.	1.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	60.	289.	70.	1.	2.	0.	17.
Standard Deviation (cells/ml)	1.	19.	6.	0.	0.	0.	266.
Total Cells Counted	1429.	866.	1048.	8.	7.	1.	137.

## TOTAL

Mean Cell Density (cells/ml)	2248.	451.	1788.	2189.	5675.	1810.	4110.
Standard Deviation (cells/ml)	313.	181.	315.	70.	429.	135.	266.
Total Cells Counted	1537.	867.	1101.	62.	42.	68.	339.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: July 1, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	19/ 2	19/40
307	Pyramimonas spl.	0.	0.	36.	0.
310	Pyramimonas micron	0.	0.	0.	30.
404	Ochromonas sp.	0.	0.	72.	0.
406	Chrysochromulina kappa	54.	30.	0.	0.
600	Ochromonas minuta	0.	1591.	432.	0.
601	Ochromonas amphioxeia	81.	1411.	252.	330.
602	Cryptomonas spl.	729.	0.	0.	0.
Total Nondiatoms		864.	3032.	792.	360.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: July 1, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	19/ 2	19/40
803	Asterionella gracilis	0.	0.	72.	480.
807	Chaetoceros sp.	0.	0.	180.	0.
811	Coscinodiscus sp.	0.	0.	54.	0.
813	Coscinodiscus jonesianus	0.	0.	18.	0.
834	Melosira spp.	0.	0.	0.	30.
840	Melosira moniliformis	0.	0.	0.	120.
846	Nitzschia sp.	0.	0.	18.	0.
849	Nitzschia longissima	0.	0.	108.	0.
850	Nitzschia pacifica	0.	0.	0.	210.
861	Skeletonema costatum	0.	0.	1585.	4622.
870	Thalassiosira eccentrica	0.	0.	0.	540.
872	Thalassiosira rotula	0.	0.	90.	180.
950	UNKNOWN	0.	0.	18.	0.
Total Diatoms		0.	0.	2143.	6183.
MICROPLANKTON					
Mean Cell Density (cells/ml)		864.	3032.	2935.	6543.
Standard Deviation (cells/ml)		71.	108.	36.	318.
Total Cells Counted		32.	101.	163.	218.
Percent Nondiatoms		100.	100.	27.	6.
Cd:DL		13.	31.	28.	59.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: JULY 1, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	19/ 2	19/40
5508	Oxytoxum sp.	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	1.	1.
8804	Biddulphia sp.	0.	0.	0.	0.
8806	Biddulphia longicruris	0.	0.	0.	5.
8809	Coscinodiscus spp.	0.	0.	2.	0.
8811	Coscinodiscus jonesianus	0.	0.	0.	0.
8824	Licmophora abbreviata	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	1.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.
8859	Thalassiosira nodulolineata	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	1.	3.	7.
Standard Deviation (cells/ml)	0.	0.	0.	1.
Total Cells Counted	2.	16.	91.	187.

## TOTAL

Mean Cell Density (cells/ml)	865.	3032.	2939.	6550.
Standard Deviation (cells/ml)	72.	108.	36.	318.
Total Cells Counted	34.	117.	254.	405.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: July 2, 1980

REPLICATES: 3

Code	Genus species	Station/Depth	
		13/ 2	6/ 2
45	Catalogued Unknown	0.	108.
310	Pyramimonas micron	65.	0.
600	Chroomonas minuta	681.	0.
601	Chroomonas amphioxeia	324.	0.
	Total Haptophytes	1070.	108.



# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: July 2, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	13/ 2	4/ 2
834	Melosira spp.	0.	378.
847	Mitzschia closterium	0.	54.
851	Mitzschia panduriformis	0.	540.
870	Thalassiosira eccentrica	0.	10643.
950	UNKNOWN	0.	270.
Total Diatoms		0.	11886.

## MICROPLANKTON

Mean Cell Density (cells/ml)	1070.	11994.
Standard Deviation (cells/ml)	149.	766.
Total Cells Counted	33.	222.
Percent Nondiatoms	100.	1.
C:CHL	5.	95.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: JULY 2, 1980

REPLICATES: 3

Code	Genus species	Station/Depth	
		13/ 2	6/ 2
3308	Oxytoxum sp.	0.	0.
8809	Coscinodiscus spp.	6.	0.
8841	Pleurosigma cf. normanii 3:1	2.	0.
9950	UNKNOWN	0.	2.
MACROPLANKTON			
	Mean Cell Density (cells/ml)	8.	2.
	Standard Deviation (cells/ml)	0.	0.
	Total Cells Counted	124.	25.
TOTAL			
	Mean Cell Density (cells/ml)	1078.	11996.
	Standard Deviation (cells/ml)	149.	766.
	Total Cells Counted	157.	247.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: July 16, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 2	19/ 2
307	Pyramimonas sp.	0.	39.	0.	54.
310	Pyramimonas micron	0.	193.	0.	126.
404	Ochromonas sp.	0.	270.	41.	0.
405	Pseudopedinella pyriforme	0.	39.	0.	0.
406	Chrysochromulina kappa	0.	116.	0.	198.
600	Chroomonas minuta	702.	4399.	1580.	450.
601	Chroomonas amphioxeia	1162.	1930.	871.	612.
604	Cryptomonas testacea	351.	309.	527.	108.
606	Hemiselmis sp.	0.	0.	61.	0.
Total Nondiatoms		2215.	7294.	3080.	1549.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: July 16, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 2	19/ 2
841	Melosira nummuloides	0.	77.	0.	0.
842	Melosira varians	135.	0.	0.	0.
861	Skeletonema costatum	0.	0.	0.	504.
Total Diatoms		135.	77.	0.	504.
MICROPLANKTON					
Mean Cell Density (cells/ml)		2350.	7371.	3080.	2053.
Standard Deviation (cells/ml)		187.	502.	142.	112.
Total Cells Counted		87.	191.	152.	114.
Percent Nondiatoms		94.	99.	100.	75.
C:CHL		35.	77.	47.	21.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: JULY 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 2	19/ 2
5501	<i>Dinophysis speculum</i>	0.	0.	0.	0.
5508	<i>Oxytoxum</i> sp.	0.	0.	0.	1.
5524	<i>Peridinium</i> sp.	0.	0.	0.	15.
5525	<i>Gymnodinium lunula</i>	0.	0.	0.	0.
8809	<i>Coscinodiscus</i> spp.	0.	0.	0.	0.
8815	<i>Coscinodiscus radiatus</i>	0.	0.	0.	1.
8825	<i>Lithodesmium undulatum</i>	0.	0.	0.	0.
8828	<i>Nitzschia</i> spp.	0.	0.	0.	18.
8838	<i>Pleurosigma</i> spp. 5:1	0.	0.	0.	0.
8849	<i>Rhizosolenia</i> "big"	0.	0.	0.	3.
8855	<i>Thalassiosira</i> spp.	0.	0.	0.	5.
9950	UNKNOWN	0.	0.	0.	0.
9951	UNKNOWN	0.	0.	0.	0.
9952	UNKNOWN	0.	0.	0.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	0.	0.	0.	43.
	Standard Deviation (cells/ml)	0.	0.	0.	3.
	Total Cells Counted	6.	7.	1.	1166.
TOTAL					
	Mean Cell Density (cells/ml)	2351.	7371.	3080.	2096.
	Standard Deviation (cells/ml)	187.	502.	142.	115.
	Total Cells Counted	93.	198.	153.	1280.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: July 17, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	13/ 2	318/ 1	6/ 2	416/ 1
301	Chlamydomonas spl.	0.	0.	0.	7024.
307	Pyramimonas spl.	236.	0.	0.	0.
310	Pyramimonas micron	169.	0.	0.	0.
405	Pseudopedinella pyriforme	236.	0.	0.	0.
500	Cachonina niei	135.	0.	0.	0.
600	Chroomonas minuta	2060.	0.	0.	0.
601	Chroomonas amphioxeia	540.	0.	162.	0.
602	Cryptomonas spl.	0.	0.	0.	1081.
604	Cryptomonas testacea	338.	0.	0.	0.
150	UNKNOWN	0.	0.	0.	270.
Total Moniatoms		3714.	0.	162.	8374.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: July 17, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	416/ 1
820	<i>Cyclotella catenata</i>	0.	0.	0.	5403.
821	<i>Cyclotella meneghiniana</i>	0.	0.	0.	2161.
822	<i>Cyclotella striata</i>	0.	0.	162.	0.
842	<i>Melosira varians</i>	0.	0.	0.	2971.
844	<i>Navicula</i> sp.	0.	0.	324.	0.
849	<i>Nitzschia longissima</i>	34.	810.	0.	0.
862	<i>Skeletonema potamus</i>	0.	5349.	0.	0.
870	<i>Thalassiosira eccentrica</i>	0.	0.	5511.	10265.
Total Diatoms		34.	6159.	5997.	20800.
MICROPLANKTON					
Mean Cell Density (cells/ml)		3748.	6159.	6159.	29175.
Standard Deviation (cells/ml)		58.	858.	1063.	3275.
Total Cells Counted		111.	38.	38.	108.
Percent Nondiatoms		99.	0.	3.	29.
C:CHL		35.	29.	60.	53.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: July 17, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
5508	Oxytoxum sp.	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	2.	52.	0.	0.
8844	Pleurosigma "t" 8:1	0.	18.	0.	0.
8855	Thalassiosira spp.	0.	0.	3.	7.
9950	UNKNOWN	1.	0.	0.	0.
9951	UNKNOWN	0.	15.	0.	0.
9952	UNKNOWN	0.	3.	0.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	3.	88.	3.	7.
	Standard Deviation (cells/ml)	0.	3.	0.	1.
	Total Cells Counted	71.	265.	10.	20.
TOTAL					
	Mean Cell Density (cells/ml)	3751.	6247.	6162.	29181.
	Standard Deviation (cells/ml)	59.	861.	1063.	3276.
	Total Cells Counted	182.	303.	48.	128.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: August 4, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1
1	Mesodinium rubrum	0.	0.	0.
310	Pyramimonas micron	0.	60.	304.
404	Ochromonas sp.	139.	60.	34.
506	Katodinium rotundatum	0.	120.	0.
600	Chroomonas minuta	1227.	1651.	912.
601	Chroomonas amphioxeia	787.	330.	810.
602	Cryptomonas spl.	0.	0.	169.
604	Cryptomonas testacea	301.	60.	34.
	Total Nondiatoms	2454.	2281.	2262.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: August 4, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1
844	Navicula sp.	0.	30.	0.
870	Thalassiosira eccentrica	93.	0.	0.
917	Licmorpha abbreviata	0.	0.	0.
950	UNIDENTIFIED	0.	0.	0.
Total Diatoms		93.	30.	0.

## MICROPLANKTON

Mean Cell Density (cells/ml)	2547.	2311.	2262.
Standard Deviation (cells/ml)	202.	246.	322.
Total Cells Counted	110.	77.	67.
Percent Nondiatoms	96.	99.	100.
C:CHL	24.	32.	30.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: AUGUST 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		36/ 2	27/ 2	162/ 1
8824	Licophora abbreviata	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	1.
8855	Thalassiosira spp.	0.	0.	38.
8859	Thalassiosira nodulolineata	0.	0.	0.
9950	UNKNOWN	0.	0.	0.
MACROPLANKTON				
	Mean Cell Density (cells/ml)	0.	0.	39.
	Standard Deviation (cells/ml)	0.	0.	1.
	Total Cells Counted	0.	13.	935.
TOTAL				
	Mean Cell Density (cells/ml)	2547.	2312.	2301.
	Standard Deviation (cells/ml)	202.	246.	323.
	Total Cells Counted	110.	90.	1002.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: August 5, 1980

REPLICATES: 3

Code	Genus species	Station/Depth				
		19/ 1	13/ 2	318/ 1	4/ 2	418/ 1
45	Catalogued Unknown	0.	0.	0.	324.	0.
308	Pyramimonas sp2.	0.	203.	0.	0.	0.
309	Pyramimonas dissomata	0.	34.	0.	0.	0.
310	Pyramimonas micron	108.	203.	162.	0.	0.
404	Ochromonas sp.	36.	0.	0.	0.	0.
506	Katodinium rotundatum	0.	34.	0.	0.	0.
600	Chroomonas minuta	180.	3242.	1945.	0.	0.
601	Chroomonas amphioxeia	234.	777.	972.	0.	0.
602	Cryptomonas spl.	378.	0.	0.	0.	0.
603	Cryptomonas sp2.	0.	234.	0.	0.	0.
604	Cryptomonas testacea	0.	234.	0.	162.	0.
150	UNKNOWN	36.	0.	0.	0.	0.
151	UNKNOWN	36.	0.	0.	0.	0.
Total Nondiatoms		1009.	4964.	3080.	486.	0.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: August 5, 1960

REPLICATES: 3

## Station/Depth

Code	Genus species	19/ 1	13/ 2	318/ 1	6/ 2	418/ 1
818	Cyclotella spp.	0.	203.	162.	0.	0.
821	Cyclotella meneghiniana	0.	0.	0.	972.	1891.
822	Cyclotella striata	0.	0.	0.	0.	270.
831	Gyrodinium sp.	0.	0.	162.	0.	0.
847	Mitzschia closterium	0.	0.	0.	324.	0.
851	Mitzschia panduriformis	0.	0.	0.	0.	1891.
861	Skeletonema costatum	216.	68.	0.	23178.	37549.
870	Thalassiosira eccentrica	0.	0.	0.	3080.	5673.
877	Melosira dubia	0.	0.	0.	3566.	4592.
	Total Diatoms	216.	270.	324.	31120.	51866.
	MICROPLANKTON					
	Mean Cell Density (cells/ml)	1225.	5234.	3404.	31606.	51866.
	Standard Deviation (cells/ml)	265.	524.	281.	2119.	2431.
	Total Cells Counted	68.	155.	21.	195.	192.
	Percent Nondiatoms	82.	95.	90.	2.	0.
	CsCHL	25.	27.	18.	77.	62.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: AUGUST 5, 1960

REPLICATES: 3

Code	Genus species	Station/Depth				
		19/ 1	13/ 2	31A/ 1	6/ 2	41B/ 1
4402	Distephanus cf. speculum	15.	0.	0.	0.	0.
5501	Dinophysis speculum	1.	0.	0.	0.	0.
5509	Oxytoxum milneri	1.	0.	0.	0.	0.
5514	Ceratium sp.	0.	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	0.	0.	0.
5525	Gyrodinium lunula	0.	0.	0.	0.	0.
8806	Biddulphia longicruris	0.	0.	0.	0.	0.
8811	Coscinodiscus jonesianus	0.	2.	0.	5.	0.
8828	Nitzschia spp.	6.	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	1.	0.	0.	0.	0.
8860	Tropidoneis sp.	0.	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.	3.
9951	UNKNOWN	0.	0.	11.	0.	0.
9952	UNKNOWN	1.	0.	0.	0.	0.
9953	UNKNOWN	1.	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	27.	2.	11.	5.	3.
Standard Deviation (cells/ml)	1.	0.	0.	0.	0.
Total Cells Counted	720.	50.	34.	14.	8.

## TOTAL

Mean Cell Density (cells/ml)	1251.	5236.	3415.	31611.	51869.
Standard Deviation (cells/ml)	267.	524.	281.	2120.	2432.
Total Cells Counted	788.	205.	55.	209.	200.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: September 3, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
307	Pyramimonas spl.	34.	0.	0.	0.
310	Pyramimonas micron	540.	252.	330.	270.
404	Chroomonas sp.	0.	0.	90.	30.
506	Katodinium rotundatum	0.	0.	0.	120.
600	Chroomonas minuta	2094.	1153.	1441.	1381.
601	Chroomonas amphioxeia	1283.	540.	810.	690.
604	Cryptomonas testacea	405.	126.	120.	330.
Total Nondiatoms		4356.	2071.	2791.	2821.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: September 3, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
849	Mitzschia longissima	0.	0.	0.	60.
950	UNKNOWN	0.	18.	0.	0.
	Total Diatoms	0.	18.	0.	60.
MICROPLANKTON					
	Mean Cell Density (cells/ml)	4356.	2089.	2791.	2881.
	Standard Deviation (cells/ml)	58.	100.	312.	90.
	Total Cells Counted	129.	116.	93.	96.
	Percent Nondiatoms	100.	99.	100.	98.
	C:CHL	37.	26.	13.	18.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: SEPTEMBER 3, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
5501	Dinophysis speculum	0.	0.	0.	0.
5509	Oxytoxum milneri	0.	0.	0.	0.
5517	Ceratium divaricatum	0.	0.	0.	16.
5524	Peridinium sp.	0.	0.	0.	0.
8805	Biddulphia aurita	0.	0.	0.	0.
8820	Eucampia zoodiacus	0.	0.	0.	0.
8836	Nitzschia seriata	0.	0.	0.	3.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.	0.
8849	Rhizosolenia "big"	0.	0.	0.	0.
8855	Thalassiosira spp.	0.	0.	0.	0.
8857	Thalassiosira cf. baltica	0.	4.	6.	6.
8860	Tropidoneis sp.	0.	0.	0.	0.
8861	Thalassionema nitzschoides	0.	0.	0.	3.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	4.	6.	29.
Standard Deviation (cells/ml)	0.	0.	0.	1.
Total Cells Counted	8.	119.	163.	790.

## TOTAL

Mean Cell Density (cells/ml)	4356.	2093.	2797.	2911.
Standard Deviation (cells/ml)	59.	100.	312.	91.
Total Cells Counted	137.	235.	256.	886.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: September 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
45	Catalogued Unknown	0.	0.	540.	540.
301	Chlamydomonas spl.	0.	0.	68.	0.
307	Pyramimonas spl.	0.	54.	0.	0.
310	Pyramimonas micron	304.	108.	0.	0.
404	Ochromonas sp.	203.	0.	0.	0.
506	Eatodinium rotundatum	169.	54.	0.	0.
600	Chroomonas minuta	1958.	378.	135.	0.
601	Chroomonas amphioxeia	1148.	1351.	338.	360.
603	Cryptomonas sp2.	0.	0.	68.	270.
604	Cryptomonas testacea	642.	216.	0.	0.
702	Phacus triqueter	0.	54.	0.	0.
Total Nondiatoms		4423.	2215.	1148.	1171.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: September 4, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	13/ 2	318/ 1	6/ 2	418/ 1
818	Cyclotella spp.	0.	540.	68.	0.
822	Cyclotella striata	0.	54.	68.	90.
849	Nitzschia longissima	34.	0.	0.	0.
851	Nitzschia panduriformis	0.	0.	203.	450.
861	Skeletonema costatum	270.	0.	16276.	30615.
870	Thalassiosira eccentrica	0.	0.	4120.	6033.
877	Melosira dubia	0.	108.	1148.	4052.
950	UNKNOWN	203.	0.	0.	0.
Total Diatoms		507.	702.	21881.	41241.
MICROPLANKTON					
Mean Cell Density (cells/ml)		4930.	2917.	23029.	42411.
Standard Deviation (cells/ml)		236.	374.	1106.	1771.
Total Cells Counted		146.	54.	341.	471.
Percent Nondiatoms		90.	76.	5.	3.
C:CHL		33.	17.	50.	75.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: SEPTEMBER 4, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
5501	Dinophysis speculum	0.	0.	0.	0.
5517	Ceratium divaricatum	0.	0.	0.	0.
8809	Coscinodiscus spp.	10.	0.	8.	3.
8811	Coscinodiscus jonesianus	0.	0.	7.	4.
8819	Epithemia turgida	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	3.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	79.	2.	1.
8846	Rhizosolenia spp.	0.	0.	0.	0.
8857	Thalassiosira cf. baltica	0.	48.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	13.	126.	17.	9.
Standard Deviation (cells/ml)	0.	8.	1.	1.
Total Cells Counted	317.	1136.	209.	77.

## TOTAL

Mean Cell Density (cells/ml)	4943.	3044.	23046.	42420.
Standard Deviation (cells/ml)	237.	383.	1106.	1773.
Total Cells Counted	463.	1190.	550.	548.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: September 16, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2
301	Chlamydomonas sp1.	0.	0.	0.	150.
309	Pyramimonas dissonata	0.	0.	0.	120.
310	Pyramimonas micron	81.	0.	0.	330.
404	Ochromonas sp.	324.	126.	120.	0.
505	Heterocapsa triquetra	203.	0.	0.	0.
600	Chroomonas minuta	1418.	396.	1561.	1711.
601	Chroomonas amphioxeia	1135.	270.	1111.	1021.
604	Cryptomonas testacea	162.	144.	810.	450.
700	Eutreptia lauwii	0.	0.	30.	0.
Total Nondiatoms		3323.	936.	3632.	3782.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: September 16, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2
803	Asterionella gracilis	41.	0.	0.	0.
846	Mitzschia sp.	81.	0.	0.	0.
872	Thalassiosira rotula	0.	108.	0.	0.
950	UNKNOWN	0.	36.	0.	0.
Total Diatoms		122.	144.	0.	0.
MICROPLANKTON					
Mean Cell Density (cells/ml)		3444.	1081.	3632.	3782.
Standard Deviation (cells/ml)		284.	62.	210.	52.
Total Cells Counted		85.	60.	121.	126.
Percent Nondiatoms		96.	87.	100.	100.
C:CHL		80.	15.	15.	4.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: SEPTEMBER 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
5501	Dinophysis speculum	0.	0.	0.	1.
5508	Oxytoxum sp.	0.	0.	0.	0.
5517	Ceratium divaricatum	0.	0.	0.	95.
5525	Gymnodinium lunula	0.	0.	0.	0.
8800	Actinopterychus senaris	0.	0.	0.	0.
8809	Coscinodiscus spp.	0.	2.	19.	4.
8824	Licomphora abbreviata	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	1.	0.
8848	Rhizosolenia "med"	0.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	2.	20.	101.
Standard Deviation (cells/ml)	0.	0.	1.	5.
Total Cells Counted	2.	53.	528.	2740.

## TOTAL

Mean Cell Density (cells/ml)	3444.	1083.	3651.	3883.
Standard Deviation (cells/ml)	284.	62.	211.	57.
Total Cells Counted	87.	113.	649.	2866.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: September 17, 1960

REPLICATES: 3

## Station/Depth

Code	Genus species	13/ 2	318/ 1	4/ 2	418/ 1
204	Merismopedia sp.	0.	0.	2107.	720.
301	Chlamydomonas spl.	0.	0.	54.	0.
307	Pyramimonas spl.	180.	0.	0.	0.
308	Pyramimonas sp2.	0.	39.	0.	0.
310	Pyramimonas micron	60.	77.	0.	0.
321	Ankistrodesmus spp.	0.	0.	162.	0.
404	Ochromonas sp.	150.	116.	0.	0.
600	Ochromonas minuta	1591.	2045.	0.	0.
601	Ochromonas amphioxeia	360.	2045.	540.	900.
603	Cryptomonas sp2.	0.	0.	54.	90.
604	Cryptomonas testacea	120.	116.	0.	0.
Total Nondiatoms		2461.	4438.	2917.	1711.



# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: September 17, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
818	Cyclotella spp.	0.	77.	162.	90.
819	Cyclotella bodanica	0.	0.	216.	0.
822	Cyclotella striata	0.	0.	0.	90.
846	Nitzschia sp.	0.	0.	54.	90.
847	Nitzschia closterium	0.	0.	54.	180.
851	Nitzschia panduriformis	0.	0.	432.	630.
861	Skeletonema costatum	360.	0.	9671.	6663.
870	Thalassiosira eccentrica	0.	0.	7888.	7744.
872	Thalassiosira rotula	40.	0.	0.	0.
877	Melosira dubia	0.	0.	864.	1081.
950	UNKNOWN	0.	0.	0.	0.
Total Diatoms		420.	77.	19342.	16568.
MICROPLANKTON					
Mean Cell Density (cells/ml)		2881.	4515.	22259.	18279.
Standard Deviation (cells/ml)		138.	116.	1116.	4923.
Total Cells Counted		96.	117.	412.	203.
Percent Nondiatoms		85.	98.	13.	9.
C:CHL		21.	14.	81.	70.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: SEPTEMBER 17, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
5501	Binophysis speculum	0.	0.	0.	0.
5509	Oxytoxum milneri	0.	0.	0.	0.
5517	Ceratium divaricatum	5.	0.	0.	0.
8809	Coscinodiscus spp.	0.	0.	3.	2.
8812	Thalassiosira cf. hendeyi	8.	27.	0.	0.
8818	Epithemia sp.	0.	0.	0.	0.
8822	Gomphonema sp	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	152.	7.	1.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	14.	179.	10.	4.
Standard Deviation (cells/ml)	0.	7.	1.	0.
Total Cells Counted	381.	3763.	155.	36.

## TOTAL

Mean Cell Density (cells/ml)	2896.	4694.	22270.	18283.
Standard Deviation (cells/ml)	138.	122.	1118.	4923.
Total Cells Counted	477.	3880.	567.	239.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: October 15, 1960

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
1	Mesodinium rubrum	34.	0.	0.	0.
301	Chlamydomonas spl.	203.	0.	30.	0.
307	Pyramimonas spl.	68.	0.	0.	0.
309	Pyramimonas dissomata	0.	0.	90.	180.
310	Pyramimonas micron	0.	90.	150.	240.
404	Ochromonas sp.	405.	210.	480.	600.
406	Chrysochromulina Kappa	338.	30.	0.	0.
506	Katodinium rotundatum	0.	0.	0.	90.
510	Prorocentrum redfieldii	0.	0.	0.	90.
600	Chroomonas minuta	1486.	3062.	7264.	1201.
601	Chroomonas amphioxeia	979.	900.	1471.	450.
604	Cryptomonas testacea	507.	60.	330.	240.
700	Eutreptia lauwii	0.	0.	0.	30.
Total Nondiatoms		4018.	4352.	9815.	3122.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: October 15, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2
844	Navicula sp.	0.	0.	0.	30.
847	Mitschia closterium	34.	0.	0.	0.
849	Mitschia longissima	0.	0.	0.	120.
	Total Diatoms	34.	0.	0.	150.
MICROPLANKTON					
	Mean Cell Density (cells/ml)	4052.	4352.	9815.	3272.
	Standard Deviation (cells/ml)	255.	79.	496.	296.
	Total Cells Counted	120.	145.	327.	109.
	Percent Nondiatoms	99.	100.	100.	95.
	C:Chl.	29.	29.	59.	59.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: OCTOBER 15, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
5509	Oxytoxum milneri	0.	0.	0.	0.
5512	Noctiluca scintillans	0.	0.	0.	0.
5517	Ceratium divaricatum	0.	0.	0.	2.
5524	Peridinium sp.	0.	0.	0.	0.
5525	Gymnodinium lunula	0.	0.	0.	0.
8825	Lithodesmum undulatum	0.	0.	0.	0.
8826	Melosira moniliformis	0.	0.	0.	0.
8829	Nitzschia acicularis	0.	0.	1.	0.
8834	Nitzschia pacifica	0.	0.	0.	2.
8837	Nitzschia sigma	0.	0.	1.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	1.	0.
8846	Rhizosolenia spp.	0.	0.	0.	2.
8852	Stephanopyxis turris	0.	0.	0.	0.
9950	UNKNOWN	0.	1.	0.	0.
9951	UNKNOWN	0.	0.	0.	1.

## MACROPLANKTON

Mean Cell Density (cells/ml)	0.	1.	3.	7.
Standard Deviation (cells/ml)	0.	0.	0.	0.
Total Cells Counted	0.	19.	90.	202.

## TOTAL

Mean Cell Density (cells/ml)	4052.	4353.	9818.	3279.
Standard Deviation (cells/ml)	255.	80.	496.	296.
Total Cells Counted	120.	164.	417.	311.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: October 16, 1960

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
1	Mesodinium rubrum	30.	0.	540.	0.
45	Catalogued Unknown	0.	0.	0.	675.
204	Merismopedia sp.	0.	0.	0.	360.
310	Pyramimonas micron	120.	169.	0.	0.
318	Crucigenia quadrata	0.	0.	0.	180.
404	Ochromonas sp.	0.	101.	0.	0.
506	Katodinium rotundatum	30.	169.	0.	0.
600	Chroomonas minuta	1651.	3107.	90.	405.
601	Chroomonas amphioxeia	1141.	1688.	360.	1576.
604	Cryptomonas testacea	600.	507.	270.	0.
700	Eutreptia laurionii	0.	34.	0.	0.
Total Nondiatoms		3572.	5774.	1261.	3197.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: October 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
818	Cyclotella spp.	0.	0.	0.	270.
819	Cyclotella bodanica	0.	0.	360.	0.
820	Cyclotella catenata	0.	0.	225.	0.
822	Cyclotella striata	0.	0.	0.	225.
846	Hitzschia sp.	0.	0.	0.	45.
847	Hitzschia closterium	0.	0.	135.	90.
849	Hitzschia longissima	30.	0.	0.	0.
861	Skeletonema costatum	0.	0.	3737.	3557.
867	Synedra sp.	0.	0.	45.	0.
870	Thalassiosira eccentrica	0.	0.	4187.	3197.
877	Melosira dubia	0.	0.	720.	315.
950	UNKNOWN	0.	0.	0.	0.
Total Diatoms		30.	0.	9410.	7699.
MICROPLANKTON					
Mean Cell Density (cells/ml)		3602.	5774.	10670.	10895.
Standard Deviation (cells/ml)		289.	101.	886.	785.
Total Cells Counted		120.	171.	237.	242.
Percent Nondiatoms		99.	100.	12.	29.
C:CHL		50.	22.	78.	50.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: OCTOBER 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
5517	Ceratium divaricatum	0.	0.	0.	0.
5524	Peridinium sp.	0.	0.	0.	0.
8811	Coscinodiscus jonesianus	0.	0.	3.	0.
8825	Lithodesmum undulatum	0.	0.	0.	0.
8837	Mitzschia sigma	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	31.	2.	0.
8846	Rhizosolenia spp.	1.	0.	0.	0.
9950	UNKNOWN	3.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	4.	32.	5.	0.
Standard Deviation (cells/ml)	0.	0.	1.	0.
Total Cells Counted	112.	756.	86.	4.

## TOTAL

Mean Cell Density (cells/ml)	3606.	5806.	10675.	10896.
Standard Deviation (cells/ml)	290.	101.	887.	785.
Total Cells Counted	232.	927.	323.	246.



# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: October 28, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	27/ 2	162/ 1	19/ 2
311	Pyramionas plurioculata	108.	90.	0.
404	Ochromonas sp.	0.	0.	18.
505	Heterocapsa triquetra	0.	0.	72.
600	Chroomonas minuta	2197.	3662.	1189.
601	Chroomonas amphioxeia	414.	1471.	306.
604	Cryptomonas testacea	144.	600.	198.
	Total Nondiatoms	2863.	5823.	1783.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: October 28, 1960

REPLICATES: 3

Code	Genus species	Station/Depth		
		27/ 2	162/ 1	19/ 2
818	Cyclotella spp.	18.	0.	0.
847	Mitzschia closterium	36.	0.	0.
950	UNKNOWN	0.	0.	0.
Total Diatoms		54.	0.	0.
MICROPLANKTON				
Mean Cell Density (cells/ml)		2917.	5823.	1783.
Standard Deviation (cells/ml)		125.	466.	94.
Total Cells Counted		162.	194.	99.
Percent Nondiatoms		98.	100.	100.
C:CHL		34.	46.	27.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: OCTOBER 28, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		27/ 2	162/ 1	19/ 2
9501	Dinophysis speculum	0.	0.	0.
8825	Lithodesmum undulatum	0.	0.	0.
8826	Melosira moniliformis	1.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	1.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.
8842	Pleurosigma HL-1 8.7:1	0.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	1.	0.
8846	Rhizosolenia spp.	0.	0.	0.
8851	Stephanodiscus spp.	0.	0.	0.
8852	Stephanopyxis turris	0.	0.	0.
9950	UNKNOWN	2.	0.	0.
9951	UNKNOWN	0.	0.	2.

## MACROPLANKTON

Mean Cell Density (cells/ml)	3.	2.	2.
Standard Deviation (cells/ml)	0.	0.	0.
Total Cells Counted	77.	63.	57.

## TOTAL

Mean Cell Density (cells/ml)	2920.	5825.	1785.
Standard Deviation (cells/ml)	125.	466.	94.
Total Cells Counted	239.	257.	156.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: October 29, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	318/ 1	13/ 2	6/ 2	418/ 1
45	Catalogued Unknown	0.	0.	0.	315.
204	Merismopedia sp.	0.	0.	1297.	0.
311	Pyramimonas plurioculata	600.	240.	0.	0.
316	Chlamydomonas sp.2	0.	0.	108.	0.
505	Heterocapsa triquetra	60.	30.	0.	0.
600	Chroomonas minuta	2581.	2671.	432.	90.
601	Chroomonas amphioxeia	990.	1051.	0.	0.
604	Cryptomonas testacea	90.	60.	0.	0.
700	Eutreptia lauwii	30.	0.	0.	0.
Total Nondiatoms		4352.	4052.	1837.	405.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: October 29, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		318/ 1	13/ 2	6/ 2	418/ 1
847	Mitzschia closterium	0.	0.	0.	90.
849	Mitzschia longissima	60.	0.	0.	0.
861	Skeletonema costatum	0.	0.	5619.	19315.
870	Thalassiosira eccentrica	0.	0.	4322.	3737.
877	Melosira dubia	0.	0.	594.	900.
950	UNKNOWN	0.	0.	0.	0.
Total Diatoms		60.	0.	10535.	24042.
MICROPLANKTON					
Mean Cell Density (cells/ml)		4412.	4052.	12372.	24447.
Standard Deviation (cells/ml)		52.	90.	839.	562.
Total Cells Counted		147.	135.	229.	543.
Percent Nondiatoms		99.	100.	15.	2.
C:CHL		30.	37.	54.	88.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: OCTOBER 29, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 1	318/ 2	6/ 2	418/ 1
8809	Coscinodiscus spp.	1.	2.	0.	0.
8822	Gomphonema sp	0.	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	2.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	1.	75.	1.
8842	Pleurosigma NL-1 8.7:1	0.	0.	4.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	1.	3.	81.	2.
	Standard Deviation (cells/ml)	0.	0.	3.	0.
	Total Cells Counted	19.	48.	2176.	42.
TOTAL					
	Mean Cell Density (cells/ml)	4413.	4055.	12453.	24449.
	Standard Deviation (cells/ml)	52.	90.	841.	563.
	Total Cells Counted	166.	183.	2405.	585.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: November 12, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	19/ 2
307	Pyramimonas sp1.	135.	330.	0.
309	Pyramimonas dissonata	0.	0.	90.
310	Pyramimonas micron	0.	0.	36.
404	Chromonas sp.	642.	0.	0.
406	Chrysochromulina Kappa	34.	0.	0.
505	Heterocapsa triquetra	371.	0.	0.
600	Chromonas minuta	6956.	4442.	882.
601	Chromonas amphioxeia	1249.	540.	108.
603	Cryptomonas sp2.	1216.	0.	0.
604	Cryptomonas testacea	0.	90.	54.
700	Eutreptia lauwii	0.	0.	18.
Total Nondiatoms		10603.	5403.	1189.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: November 12, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		36/ 2	27/ 2	19/ 2
849	Mitzschia longissima	0.	0.	54.
852	Mitzschia seriata	0.	0.	18.
950	UNKNOWN	0.	0.	0.
Total Diatoms		0.	0.	72.
MICROPLANKTON				
Mean Cell Density (cells/ml)		10603.	5403.	1261.
Standard Deviation (cells/ml)		179.	375.	48.
Total Cells Counted		314.	180.	70.
Percent Nondiatoms		100.	100.	94.
C:CHL		73.	26.	21.



## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: NOVEMBER 12, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		36/ 2	27/ 2	19/ 2
3319	Protococcus sp.	1.	0.	0.
5501	Dinophysis speculum	0.	0.	1.
5514	Ceratium sp.	0.	0.	0.
5524	Peridinium sp.	0.	0.	1.
5525	Gymnodinium lunula	0.	0.	0.
8807	Biddulphia mobilensis	0.	0.	0.
8809	Coscinodiscus spp.	0.	2.	0.
8813	Coscinodiscus perforatus	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.
8842	Pleurosigma NL-1 8.7:1	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.
8860	Tropidoneis sp.	0.	0.	0.
9950	UNKNOWN	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	1.	2.	2.
Standard Deviation (cells/ml)	0.	0.	0.
Total Cells Counted	16.	47.	63.

## TOTAL

Mean Cell Density (cells/ml)	10603.	5404.	1263.
Standard Deviation (cells/ml)	179.	375.	48.
Total Cells Counted	330.	227.	133.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: November 13, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
45	Catalogued Unknown	0.	0.	347.	45.
300	Ankistrodesmus falcatus	0.	0.	77.	135.
310	Pyramimonas micron	30.	270.	0.	0.
404	Ochromonas sp.	0.	709.	0.	0.
406	Chrysochromulina Kappa	0.	878.	0.	0.
506	Katodinium rotundatum	0.	68.	0.	0.
600	Chroomonas minuta	4382.	4322.	0.	0.
601	Chroomonas amphioxeia	1111.	1351.	0.	0.
604	Cryptomonas testacea	390.	878.	0.	0.
Total Nondiatoms		5913.	8476.	424.	180.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: November 13, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	4/ 2	418/ 1
822	Diclotella striata	0.	0.	0.	315.
847	Mitzschia closterium	0.	0.	154.	0.
861	Skeletonema costatum	0.	0.	3898.	4097.
870	Thalassiosira eccentrica	0.	0.	1428.	1261.
877	Melosira dubia	0.	0.	309.	315.
950	UNKNOWN	0.	0.	0.	0.
Total Diatoms		0.	0.	5789.	5988.
MICROPLANKTON					
Mean Cell Density (cells/ml)		5913.	8476.	6213.	6168.
Standard Deviation (cells/ml)		334.	236.	336.	45.
Total Cells Counted		197.	251.	161.	137.
Percent Nondiatoms		100.	100.	7.	3.
C:Chl		53.	31.	68.	81.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: NOVEMBER 13, 1960

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
8809	Coscinodiscus spp.	0.	2.	0.	0.
8811	Coscinodiscus jonesianus	0.	0.	1.	1.
8813	Coscinodiscus perforatus	0.	0.	0.	0.
8837	Mitzschia sigma	0.	2.	0.	0.
8838	Pleurosigma spp. 5:1	1.	35.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	1.	0.
8843	Pleurosigma cf sigma 9.5:1	1.	0.	0.	0.
8846	Rhizosolenia spp.	0.	2.	0.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	3.	41.	1.	1.
	Standard Deviation (cells/ml)	0.	1.	0.	0.
	Total Cells Counted	68.	977.	27.	11.
TOTAL					
	Mean Cell Density (cells/ml)	5915.	8516.	6214.	6169.
	Standard Deviation (cells/ml)	334.	237.	337.	45.
	Total Cells Counted	265.	1228.	188.	148.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: December 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		36/ 2	27/ 2	162/ 1
69	Catalogued Unknown	0.	0.	60.
301	Chlamydomonas spl.	0.	0.	120.
309	Pyramimonas dissomata	0.	90.	0.
310	Pyramimonas micron	41.	450.	480.
404	Ochromonas sp.	0.	210.	60.
406	Chrysochromulina Kappa	0.	0.	660.
506	Katodinium rotundatum	41.	300.	300.
600	Chroomonas minuta	993.	1441.	3122.
601	Chroomonas amphioxeia	81.	960.	1561.
604	Cryptomonas testacea	0.	0.	660.
700	Eutreptia lauwii	0.	30.	0.
Total Nondiatoms		1155.	3482.	7024.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: December 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		36/ 2	27/ 2	162/ 1
872	Thalassiosira rotula	122.	40.	480.
950	UNKNOWN	0.	0.	0.
	Total Diatoms	122.	40.	480.
	MICROPLANKTON			
	Mean Cell Density (cells/ml)	1276.	3542.	7504.
	Standard Deviation (cells/ml)	105.	131.	210.
	Total Cells Counted	63.	118.	250.
	Percent Nondiatoms	90.	98.	94.
	C:CHL	22.	66.	48.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: DECEMBER 16, 1980

REPLICATES: 3

Code	Genus species	Station/Depth		
		36/ 2	27/ 2	162/ 1
8809	Coscinodiscus spp.	0.	0.	0.
8826	Melosira moniliformis	0.	0.	0.
8837	Mitzschia sigae	0.	0.	0.
8838	Pleurosigma spp. 5:1	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.
MACROPLANKTON				
	Mean Cell Density (cells/ml)	0.	0.	1.
	Standard Deviation (cells/ml)	0.	0.	0.
	Total Cells Counted	7.	4.	18.
TOTAL				
	Mean Cell Density (cells/ml)	1277.	3542.	7504.
	Standard Deviation (cells/ml)	105.	131.	210.
	Total Cells Counted	70.	122.	268.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: December 17, 1980

REPLICATES: 3

## Station/Depth

Code	Genus species	19/ 2	13/ 2	6/ 2	418/ 1
45	Catalogued Unknown	0.	0.	270.	203.
310	Pyramimonas micron	144.	72.	0.	0.
321	Ankistrodesmus spp.	0.	0.	0.	34.
404	Ochromonas sp.	72.	0.	0.	0.
506	Eatodinium rotundatum	0.	18.	0.	0.
515	Cyanodinium sp	0.	36.	34.	0.
600	Chroomonas minuta	828.	1009.	0.	0.
601	Chroomonas amphioxeia	288.	198.	709.	101.
604	Cryptomonas testacea	0.	54.	0.	135.
150	UNKNOWN	0.	36.	0.	0.
Total Mondiatoms		1333.	1423.	1013.	473.



# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: December 17, 1960

REPLICATES: 3

Code	Genus species	Station/Depth			
		19/ 2	13/ 2	6/ 2	418/ 1
807	Chaetoceros sp.	126.	0.	0.	0.
821	Cyclotella meneghiniana	0.	0.	34.	101.
846	Nitzschia sp.	54.	0.	0.	0.
847	Nitzschia closterium	54.	0.	0.	34.
851	Nitzschia panduriformis	18.	0.	0.	0.
861	Skeletonema costatum	0.	0.	2330.	6213.
872	Thalassiosira rotula	0.	36.	0.	0.
877	Melosira dubia	0.	0.	68.	0.
Total Diatoms		252.	36.	2431.	6348.
MICROPLANKTON					
Mean Cell Density (cells/ml)		1585.	1459.	3444.	6821.
Standard Deviation (cells/ml)		177.	248.	304.	1416.
Total Cells Counted		88.	81.	102.	202.
Percent Nondiatoms		84.	98.	29.	7.
C:CHL		27.	17.	67.	22.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: DECEMBER 17, 1980

REPLICATES: 3

Code	Genus species	Station/Depth			
		19/ 2	13/ 2	6/ 2	418/ 1
1001	Mesodinium rubrum	0.	0.	0.	4.
5514	Ceratium sp.	0.	0.	0.	0.
5527	Prorocentrum sp.	0.	0.	0.	0.
8806	Biddulphia longicruris	0.	0.	0.	0.
8808	Chaetoceros concavicornis	3.	0.	0.	0.
8809	Coscinodiscus spp.	0.	0.	0.	0.
8811	Coscinodiscus jonesianus	0.	0.	0.	1.
8838	Pleurosigma spp. 5:1	0.	0.	1.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	4.	1.	1.	5.
	Standard Deviation (cells/ml)	1.	0.	0.	0.
	Total Cells Counted	103.	19.	16.	112.
TOTAL					
	Mean Cell Density (cells/ml)	1589.	1459.	3445.	6826.
	Standard Deviation (cells/ml)	178.	248.	304.	1417.
	Total Cells Counted	191.	100.	118.	314.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: February 10, 1981

REPLICATES: 3

## Station/Depth

Code	Genus species	36/ 2	27/ 2	162/ 1	19/ 2
301	Chlamydomonas sp.	0.	0.	90.	0.
310	Pyramimonas micron	600.	18.	660.	0.
311	Pyramimonas plurioculata	0.	72.	0.	54.
406	Chrysochromulina Kappa	150.	252.	0.	0.
506	Eatodinium rotundatum	420.	126.	210.	234.
509	Oxytoxum milneri	0.	0.	0.	18.
523	Amphidinium sp.	0.	0.	60.	0.
600	Chroomonas minuta	2521.	1585.	750.	936.
601	Chroomonas amphioxeia	390.	288.	390.	270.
604	Cryptomonas testacea	570.	198.	0.	90.
605	Rhabdomonas sp.	0.	0.	390.	0.
700	Butreptia lauwii	0.	0.	60.	0.
Total Nondiatoms		4652.	2539.	2611.	1603.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: South San Francisco Bay

Date: February 10, 1981

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
834	Melosira spp.	0.	0.	0.	36.
844	Navicula sp.	0.	0.	0.	36.
872	Thalassiosira rotula	60.	0.	0.	36.
950	UNKNOWN	0.	0.	420.	0.
Total Diatoms		60.	0.	420.	108.
MICROPLANKTON					
Mean Cell Density (cells/ml)		4712.	2539.	3032.	1711.
Standard Deviation (cells/ml)		216.	255.	246.	172.
Total Cells Counted		157.	141.	101.	95.
Percent Nondiatoms		99.	100.	86.	94.
C:CHL		32.	21.	28.	63.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: South San Francisco Bay

Date: FEBRUARY 10, 1981

REPLICATES: 3

Code	Genus species	Station/Depth			
		36/ 2	27/ 2	162/ 1	19/ 2
8809	Coscinodiscus spp.	0.	0.	0.	0.
8826	Melosira moniliformis	0.	0.	0.	0.
8832	Nitzschia NL-2 37.0:1	0.	0.	0.	0.
8833	Nitzschia NL-3 8.4:1	0.	0.	1.	0.
8838	Pleurosigma spp. 5:1	1.	1.	0.	0.
8839	Pleurosigma "big" 9:1	0.	0.	0.	0.
8840	Pleurosigma cf. fasciola 8:1	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.

## MACROPLANKTON

Mean Cell Density (cells/ml)	1.	2.	2.	0.
Standard Deviation (cells/ml)	0.	0.	0.	0.
Total Cells Counted	15.	45.	43.	2.

## TOTAL

Mean Cell Density (cells/ml)	4713.	2541.	3033.	1711.
Standard Deviation (cells/ml)	217.	255.	246.	172.
Total Cells Counted	172.	186.	144.	97.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: February 11, 1981

REPLICATES: 3

## Station/Depth

Code	Genus species	13/ 2	318/ 1	4/ 2	418/ 1
62	Catalogued Unknown	65.	0.	0.	0.
310	Pyramimonas micron	0.	130.	0.	0.
311	Pyramimonas plurioculata	65.	32.	0.	0.
506	Katodinium rotundatum	32.	130.	0.	0.
526	Amphidinium crassium	0.	0.	0.	162.
600	Chroomonas minuta	389.	908.	0.	0.
601	Chroomonas amphioxeia	357.	648.	0.	2593.
602	Cryptomonas spl.	0.	0.	65.	0.
604	Cryptomonas testacea	0.	97.	0.	1945.
605	Rhabdomonas sp.	0.	0.	32.	0.
150	UNKNOWN	32.	0.	0.	0.
Total Nondiatoms		940.	1945.	97.	4700.

# SUMMARY OF PHYTOPLANKTON ENUMERATION - 1000X

Location: North San Francisco Bay

Date: February 11, 1961

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
847	Mitzschia closterium	0.	0.	0.	756.
849	Mitzschia longissima	32.	0.	0.	0.
861	Skeletonema costatum	0.	0.	0.	9563.
870	Thalassiosira eccentrica	0.	0.	0.	702.
Total Diatoms		32.	0.	0.	11022.
MICROPLANKTON					
Mean Cell Density (cells/ml)		972.	1945.	97.	15722.
Standard Deviation (cells/ml)		149.	168.	56.	2119.
Total Cells Counted		30.	60.	3.	291.
Percent Nondiatoms		97.	100.	100.	30.
C:CHL		25.	11.	3.	45.

## SUMMARY OF PHYTOPLANKTON ENUMERATION - 100X

Location: North San Francisco Bay

Date: FEBRUARY 11, 1981

REPLICATES: 3

Code	Genus species	Station/Depth			
		13/ 2	318/ 1	6/ 2	418/ 1
8809	Coscinodiscus spp.	0.	0.	0.	0.
8811	Coscinodiscus jonesianus	0.	0.	0.	0.
8831	Mitzschia NL-1 22.6:1	0.	0.	0.	0.
8841	Pleurosigma cf. normanii 3:1	1.	0.	0.	0.
8843	Pleurosigma cf sigma 9.5:1	0.	0.	0.	0.
8846	Rhizosolenia spp.	0.	0.	0.	0.
MACROPLANKTON					
	Mean Cell Density (cells/ml)	1.	0.	0.	0.
	Standard Deviation (cells/ml)	0.	0.	0.	0.
	Total Cells Counted	15.	7.	0.	1.
TOTAL					
	Mean Cell Density (cells/ml)	973.	1945.	97.	15722.
	Standard Deviation (cells/ml)	149.	169.	56.	2120.
	Total Cells Counted	45.	67.	3.	292.