96012

TECHNICAL APPENDICES
TO THE
DIAGNOSTIC/FEASIBILITY STUDY OF
WEQUAQUET LAKE, BEARSE, AND LONG POND

15 December, 1989

Prepared For:

Town of Barnstable
Conservation Commission
367 Main Street
Hyannis, Massachusetts 02601

Prepared By:

IEP, Inc.
P.O. Box 1840
90 Route 6A/Sextant Hill
Sandwich, Massachusetts 02563

and

K-V Associates, Inc.
281 Main Street
Falmouth, Massachusetts 02541

APPENDIX A - Results of Water Quality Analyses

GHR ANALYTICAL INCORPORATED

— samples taken 24-X-85

Report of Analysis

Client: IEP, Inc.

Job No: 26-427

Project: Wequaquet

Date: November 15, 1985

Sample A Shallow 1A

Sample B Shallow 2A

Sample C Shallow 3A

Sample D Bearse 1A

Sample E Bearse 1C

Sample F

Test Results in mg/l (unless noted otherwise)

	A	B	C	D	E	F
Sample Log Number	50744	50745	50746	50747	50748	
Type of Sample	water	water	water	water	water	
Date Collected	10/24/85	10/24/85	10/24/85	10/24/85	10/24/85	
Time Collected	1500	1515	1515	1430	1430	
Collected By	BC/MN	BC/MN	BC/MN	BC/MN	BC/MN	
pH (pH Units)	5.5	5.1	5.0	6.1	6.2	
Alkalinity (as $CaCO_3$)	<5	<5	<5	6	6	
Specific Conductance[1]	81	80	80	85	85	
Chloride	16.9	17.4	16.9	15.8	15.8	
Ammonia as N	0.29	<0.05	0.10	0.15	0.11	
Nitrate as N	<0.02	<0.02	<0.02	<0.02	<0.02	
Total Kjeldahl Nitrogen	0.54	0.20	0.48	0.71	0.68	
Phosphate as P:						
Total	0.005	<0.005	<0.005	<0.005	0.007	
Dissolved	<0.005	<0.005	<0.005	<0.005	0.007	
Solids:						
Total Dissolved	57	42	33	22	36	
Total Suspended	3	<2	3	4	<2	
Total Coliform[2]	<10	<10	20	61	-	
Fecal Coliform[2]	<10	<10	<10	40	-	

Comments: [1]Specific Conductance in umhos/cm.
[2]Total and Fecal Coliform/100 ml MPN.

Approved by: Les Cobb

GHR ANALYTICAL INCORPORATED

Report of Analysis

Client: IEP, Inc. Job No: 26-427

Project: Wequaquet Date: November 15, 1985

Sample A Long Pond 1A

Sample B Long Pond 1C

Sample C Long Pond 3

Sample D WEQQT 1A

Sample E WEQQT 1C

Sample F

Test Results in mg/l (unless noted otherwise)

	A	B	C	D	E	F
Sample Log Number	50749	50750	50751	50752	50753	
Type of Sample	water	water	water	water	water	
Date Collected	10/24/85	10/24/85	10/24/85	10/24/85	10/24/85	
Time Collected	1615	1615	1630	1230	1230	
Collected By	BC/MN	BC/MN	BC/MN	BC/MN	BC/MN	
pH (pH Units)	5.9	5.9	6.0	6.2	6.1	
Alkalinity (as $CaCO_3$)	<5	5	<5	6	5	
Specific Conductance[1]	115	114	115	84	83	
Chloride	23.9	23.9	23.9	15.8	15.6	
Ammonia as N	0.09	0.05	0.08	0.05	0.05	
Nitrate as N	<0.02	<0.02	<0.02	<0.02	<0.02	
Total Kjeldahl Nitrogen	0.36	0.29	0.45	0.18	0.16	
Phosphate as P:						
Total	<0.005	<0.005	0.008	0.015	0.019	
Dissolved	<0.005	<0.005	-	0.005	0.008	
Solids:						
Total Dissolved	39	46	61	35	33	
Total Suspended	<2	3	5	2	<2	
Total Coliform[2]	<10	-	120	78	-	
Fecal Coliform[2]	<10	-	68	45	-	

Comments: [1]Specific Conductance in umhos/cm.
[2]Total and Fecal Coliform/100 ml MPN.

Approved by: L E S Cahl

GHR ANALYTICAL INCORPORATED

Report of Analysis

Client: IEP, Inc. Job No: 26-427

Project: Wequaquet Date: November 15, 1985

Sample A WEQQT 2A

Sample B WEQQT 2C

Sample C WEQQT 3A

Sample D WEQQT 3C

Sample E WEQQT 4A

Sample F WEQQT 4C

Test Results in mg/l (unless noted otherwise)

	A	B	C	D	E	F
Sample Log Number	50754	50755	50756	50757	50758	50759
Type of Sample	water	water	water	water	water	water
Date Collected	10/24/85	10/24/85	10/24/85	10/24/85	10/24/85	10/24/85
Time Collected	1200	1200	1100	1100	1040	1045
Collected By	BC/MN	BC/MN	BC/MN	BC/MN	BC/MN	BC/MN
pH (pH Units)	6.2	6.1	6.1	5.9	6.0	6.0
Alkalinity (as $CaCO_3$)	6	<5	6	5	<5	6
Specific Conductance[1]	85	83	84	82	80	83
Chloride	15.4	15.4	15.4	15.6	15.1	15.1
Ammonia as N	<0.05	0.06	<0.05	<0.05	<0.05	0.06
Nitrate as N	<0.02	<0.02	0.02	0.03	<0.02	0.02
Total Kjeldahl Nitrogen	0.41	0.63	<0.05	0.40	0.10	0.15
Phosphate as P:						
Total	0.013	0.009	0.008	0.011	0.007	0.011
Dissolved	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Solids:						
Total Dissolved	33	33	35	29	87	74
Total Suspended	<2	2	2	3	<2	<2
Total Coliform[2]	20	-	<10	-	<10	-
Fecal Coliform[2]	<10	-	<10	-	<10	-

Comments: [1]Specific Conductance in umhos/cm.
[2]Total and Fecal Coliform/100 ml MPN.

Approved by: R E S Colt

GHR ANALYTICAL INCORPORATED

Report of Analysis

Client: IEP, Inc. Job No: 26-427

Project: Wequaquet Date: November 18, 1985

Sample A WEQQT 5

Sample B WEQQT 6

Sample C WEQQT 7

Sample D

Sample E

Sample F

Test Results in mg/l (unless noted otherwise)

	A	B	C	D	E	F
Sample Log Number	50760	50761	50762			
Type of Sample	water	water	water			
Date Collected	10/24/85	10/24/85	10/24/85			
Time Collected	1245	1330	1130			
Collected By	BC/MN	BC/MN	BC/MN			
pH (pH Units)	4.0	5.0	5.9			
Alkalinity (as $CaCO_3$)	<5	<5	5			
Specific Conductance[1]	88	110	84			
Chloride	15.1	21.1	14.5			
Ammonia as N	<0.05	0.12	<0.05			
Nitrate as N	0.09	0.56	0.02			
Total Kjeldahl Nitrogen	0.42	0.52	0.35			
Phosphate as P:						
Total	0.117	0.021	0.014			
Solids:						
Total Dissolved	97	85	64			
Total Suspended	4	2	<2			
Total Coliform[2]	2,400	60	45			
Fecal Coliform[2]	490	36	20			

Comments: [1]Specific Conductance in umhos/cm.
[2]Total and Fecal Coliform/100 ml MPN.

Approved by: R E Cahill

Arnold Greene Testing Laboratories

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To: IEP INC.
3179 MAIN STREET
BOX 434

BARNSTABLE MA 02630

Attn: SCOTT HORSLEY

Date 12/11/85

Job No. 72954-1

Lab No. 3593

Order No. NONE

Material: WATER

Book No. 176-33-RPA

Specifications: None

– Samples taken 25-XI-85

Sample ID: 19 Water Samples @ WEQUAQUET Date received: 11/25/85

	W-1A	W-1C	W-2A	W-2C
Total Coliform Bacteria (colonies/100ml)	280	---	16	---
Fecal Coliform Bacteria (colonies/100ml)	0	---	1	---
Total Alkalinity (mg/l)	7.1	7.7	7.1	7.5
Total Suspended Solids (mg/l)	2	4	2	2
Total Dissolved Solids (mg/l)	92	69	47	39
Ammonia (mg/l) as N	<0.10	<0.10	<0.10	<0.10
Nitrate (mg/l) as N	0.08	0.13	0.06	0.04
Chloride (mg/l)	18	16	19	18
pH	6.9	6.9	7.0	6.9
Phosphate, Total (dissolved) (mg/l)	0.1	0.06	0.13	0.11
Phosphate, Total (mg/l) as P	0.09	0.03	0.11	0.09
Specific Conductance (umhos/cm)	72	72	74	74
Total Kjeldahl-Nitrogen (mg/l) as N	0.46	0.62	0.78	0.63

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
11TH DAY OF DECEMBER 1985
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Lead Chemist

UNLESS STIPULATED IN WRITING BY YOU, ALL SAMPLES WILL BE RETAINED FOR 30 DAYS AND THEN DISPOSED OF.
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3179 MAIN STREET
BOX 434

BARNSTABLE MA 02630

Attn: SCOTT HORSLEY

Date 12/11/85

Job No. 72954-1

Lab No. 3593

Order No. NONE

Material: WATER

Book No. 176-34 RPA

Specifications: None

Sample ID: 19 Water Samples @ WEQUAQUET Date received: 11/25/85

	W-3A	W-3C	W-4A	W-4C
Total Coliform Bacteria (colonies/100ml)	7	---	3	---
Fecal Coliform Bacteria (colonies/100ml)	0	---	0	---
Total Alkalinity (mg/l)	8.4	6.5	7.7	6.9
Total Suspended Solids (mg/l)	3	2	0.80	0.8
Total Dissolved Solids (mg/l)	63	15	43	59
Ammonia (mg/l) as N	<0.10	<0.10	<0.10	<0.10
Nitrate (mg/l) as N	0.04	0.03	0.12	0.09
Chloride (mg/l)	19	19	19	17
pH	7.1	6.8	7.2	6.8
Phosphate, Total(dissolved)(mg/l)	0.08	0.07	0.08	0.10
Phosphate, Total (mg/l) as P	0.08	0.06	0.14	0.14
Specific Conductance (umhos/cm)	72	72	72	72
Total Kjeldahl-Nitrogen (mg/l) as N	0.45	0.64	0.65	0.47

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BARNSTABLE MA 02630

Attn: SCOTT HORSLEY

Date 12/11/85

Job No. 72954-1

Lab No. 3593

Order No. NONE

Material: WATER

Book No. 176-35 RPA

Specifications: None

Sample ID: 19 Water Samples @ WEQUAQUET & LONG POND DATE REC'D: 11/25/85

	W-5	W-6	W-7	LP-1A
Total Coliform Bacteria (colonies/100ml)	4	7	44	8
Fecal Coliform Bacteria (colonies/100ml)	0	1	0	0
Total Alkalinity (mg/l)	<1	5.0	7.3	5.4
Total Suspended Solids (mg/l)	36	2	8	2
Total Dissolved Solids (mg/l)	69	77	64	76
Ammonia (mg/l) as N	0.19	<0.1	<0.10	<0.10
Nitrate (mg/l) as N	0.02	0.92	0.16	0.25
Chloride (mg/l)	21	22	19	26
pH	4.4	5.6	7.0	6.7
Phosphate,Total(dissolved)(mg/l)	---	---	---	0.1
Phosphate, Total (mg/l) as P	0.16	0.16	0.07	0.15
Specific Conductance (umhos/cm)	91	87	70	100
Total Kjeldahl-Nitrogen (mg/l) as N	0.94	0.91	0.72	0.54

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To: IEP INC.
3179 MAIN STREET
BOX 434

BARNSTABLE MA 02630

Attn: SCOTT HORSLEY

Date 12/11/85

Job No. 72954-1

Lab No. 3593

Order No. NONE

Material: WATER

Book No. 176-36 RPA

Specifications: None

Sample ID: 19 Water Samples @ LONG POND & BEARSE Date received: 11/25/85

	LP-1C	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	---	28	12	---
Fecal Coliform Bacteria (colonies/100ml)	---	21	5	---
Total Alkalinity (mg/l)	6.3	6.3	8.2	7.3
Total Suspended Solids (mg/l)	2	2	1	<1
Total Dissolved Solids (mg/l)	55	47	8	61
Ammonia (mg/l) as N	<0.10	<0.10	<0.10	<0.10
Nitrate (mg/l) as N	0.23	0.20	0.06	0.02
Chloride (mg/l)	25	26	19	19
pH	6.7	6.7	7.0	6.8
Phosphate, Total (dissolved) (mg/l)	0.10	---	0.10	0.13
Phosphate, Total (mg/l) as P	0.15	0.03	0.14	0.08
Specific Conductance (umhos/cm)	102	102	74	74
Total Kjeldahl-Nitrogen (mg/l) as N	0.89	0.64	0.89	1

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 1/21/86

Job No. 74240-1

Lab No. 3719

Order No. BARNC -1

Material: WATER

Book No. 185-33 RH

Specifications: None

Sample ID: 15 Water Samples @ Nequaquet Date received: 12/30/85

	SH-1	SH-2	SH-3	W-1A	W-4A
Total Coliform Bacteria (colonies/100ml)	0	0	0	0	--
Fecal Coliform Bacteria (colonies/100ml)	0	0	0	0	--
Specific Conductance(umhos/cm)	70	68	81	74	72
	SH-1	SH-2	W-1A Surface	W-1C Bottom	W-3
Total Alkalinity (mg/l)	1.7	2.1	11	11	3.0
Total Suspended Solids (mg/l)	0.8	1.6	<0.4	0.8	<0.4
Total Dissolved Solids (mg/l)	52	43	47	53	27
Ammonia (mg/l) as N	0.24	0.24	0.058	0.030	0.21
Nitrate (mg/l) as N	0.12	0.12	0.041	0.032	0.17
Chloride (mg/l)	18	17	17	16	16
pH	5.6	5.5	6.6	6.8	5.5
Phosphate, Total (mg/l) as P	0.041	0.062	0.018	0.025	0.038
Ortho Phosphate (mg/l)	0.035	0.036	0.006	0.018	0.033
Total Kjeldahl-Nitrogen (mg/l) as N	0.97	0.95	0.80	0.62	1.0

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To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 1/21/86

Job No. 74240-1

Lab No. 3719

Order No. BARNC-1

Material: WATER

Book No. 185-34 RH

Specifications: None

Sample ID: 15 Water Samples @ WEQUAQUET Date received: 12/30/85

	W-4A	W-4C	W-5	W-6	W-7
Total Coliform Bacteria (colonies/100ml)	0	--	0	0	0
Fecal Coliform Bacteria (colonies/100ml)	0	--	0	0	0
Total Alkalinity (mg/l)	11	12	12	12	13
Total Suspended Solids (mg/l)	0.4	<0.4	<0.4	1.2	1.2
Total Dissolved Solids (mg/l)	47	48	56	59	41
Ammonia (mg/l) as N	0.027	0.022	0.014	0.84	0.020
Nitrate (mg/l) as N	0.047	0.041	<0.0125	0.91	<0.0125
Chloride (mg/l)	17	16	19	20	15
pH	6.8	6.8	6.2	5.7	6.8
Phosphate, Total (mg/l) as P	0.043	0.058	0.120	0.030	0.037
Ortho Phosphate (mg/l)	0.036	0.036	0.115	0.020	0.029
Specific Conductance (umhos/cm)	79	72	89	93	79
Total Kjeldahl-Nitrogen (mg/l) as N	0.77	0.74	0.86	0.51	0.68

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
21ST DAY OF JANUARY 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Lead Chemist

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780
NORTHBORO, MA 01532

Attn:

Date 1/21/86
Job No. 74240-1
Lab No. 3719
Order No. barnc-1

Material: WATER
Book No. 185-32 rh
Specifications: None

Sample ID: 15 Water Samples @ Wequaquet Date received: 12/30/85

	B-1 Surface	B-1 Bottom	LP-1 Surface	LP-1 Inlet	LP-3 Outlet
Total Coliform Bacteria (colonies/100ml)	0	--	2	--	10
Fecal Coliform Bacteria (colonies/100ml)	0	--	0	--	1
Total Alkalinity (mg/l)	12	12	9.9	8.0	8.9
Total Suspended Solids (mg/l)	3.2	1.2	0.4	2.0	0.8
Total Dissolved Solids (mg/l)	43	47	61	47	64
Ammonia (mg/l) as N	0.04	0.066	0.023	0.027	0.031
Nitrate (mg/l) as N	0.019	0.047	0.14	0.10	0.23
Chloride (mg/l)	17	17	25	25	24
pH	6.6	6.7	6.5	6.7	6.6
Ortho Phosphate (mg/l)	0.030	0.034	0.035	0.011	0.023
Phosphate, Total (mg/l) as P	0.056	0.046	0.041	0.016	0.029
Specific Conductance (umhos/cm)	74	74	104	108	104
Total Kjeldahl-Nitrogen (mg/l) as N	1.2	1.3	1.1	1.1	0.8

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CONAM INSPECTION a unit of Dynalectron
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To: IEP INC.
6 MAPLE STREET
BOX 780
NORTHBORO, MA 01532

Attn:

Date 2/12/86
Job No. 75443-1
Lab No. 3861
Order No. BARNC-1

Material: WATER
Book No. 193-14 - 17 RH
Specifications: None

Sample ID: 12 Water Samples @ WEQUAQUET Date received: 1/29/86

	W-1A SURFACE	W-1C BOTTOM	W-2A SURFACE	W-2C BOTTOM	W-3A SURFACE
Total Coliform Bacteria (colonies/100ml)	7	-	3	-	1
Fecal Coliform Bacteria (colonies/100ml)	2	-	0	-	0
Total Alkalinity (mg/l)	13	12	11	12	11
Total Suspended Solids (mg/l)	1.2	4.8	0.8	1.2	0.8
Total Dissolved Solids (mg/l)	50	46	46	46	42
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.075	0.064	0.057	0.045	0.056
Chloride (mg/l)	15	17	16	17	17
pH	6.9	6.8	6.7	6.6	6.7
Phosphate, Total (mg/l) as P	0.035	0.035	0.025	0.02	0.026
Phosphate, Total Dissolved (mg/l)	0.031	0.018	0.022	0.008	0.022
Specific Conductance (umhos/cm)	76	76	76	74	74
Total Kjeldahl-Nitrogen (mg/l) as N	0.83	0.95	0.78	0.61	0.97

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	W-3C BOTTOM	W-4A SURFACE	W-4C BOTTOM	W-5 INLET	W-6 INLET
Total Coliform Bacteria (colonies/100ml)	-	1	-	7	4
Fecal Coliform Bacteria (colonies/100ml)	-	0	-	1	0
Total Alkalinity (mg/l)	13	12	9.8	8.3	6.4
Total Suspended Solids (mg/l)	0.4	0.8	2	12	3.2
Total Dissolved Solids (mg/l)	52	45	44	89	107
Ammonia (mg/l) as N	<0.01	<0.01	0.012	0.014	<0.01
Nitrate (mg/l) as N	0.060	0.05	0.045	0.0125	0.93
Chloride (mg/l)	17	16	17	15	19
pH	6.7	6.7	6.8	6.3	5.4
Phosphate, Total (mg/l) as P	0.029	0.044	0.056	0.22	0.019
Phosphate, Total Dissolved (mg/l)	0.01	0.040	0.029	0.18	0.014
Specific Conductance (umhos/cm)	72	70	70	55	87
Total Kjeldahl-Nitrogen (mg/l) as N	0.90	1.2	1.1	1.25	1.4

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	W-7 SURFACE	W-8 BOTTOM
Total Coliform Bacteria (colonies/100ml)	0	0
Fecal Coliform Bacteria (colonies/100ml)	0	0
Total Alkalinity (mg/l)	12	14
Total Suspended Solids (mg/l)	2	1.2
Total Dissolved Solids (mg/l)	39	51
Ammonia (mg/l) as N	0.011	0.037
Nitrate (mg/l) as N	0.021	0.039
Chloride (mg/l)	16	18
pH	6.4	6.6
Phosphate, Total (mg/l) as P	.029	0.053
Phosphate, Total Dissolved (mg/l)	0.023	0.049
Specific Conductance (umhos/cm)	72	72
Total Kjeldahl-Nitrogen (mg/l) as N	1.2	0.74

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
12TH DAY OF JANUARY 1986
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Geoffrey Coelho, Lead Chemist

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To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 2/12/86

Job No. 75443-1

Lab No. 3861

Order No. BARNC-1

Material: WATER

Book No. 193-14 - 17 RH

Specifications: None

Sample ID: 4 Water Samples @ LONG POND

Date received: 1/29/86

	LP-1A SURFACE	LP-1C BOTTOM	LP-2 INLET	LP-3 OUTLET
Total Coliform Bacteria (colonies/100ml)	8	-	14	5
Fecal Coliform Bacteria (colonies/100ml)	0	-	2	0
Total Alkalinity (mg/l)	8.7	7.8	12	11
Total Suspended Solids (mg/l)	0.4	0.4	0.8	2
Total Dissolved Solids (mg/l)	68	64	51	61
Ammonia (mg/l) as N	0.011	0.013	<0.01	0.011
Nitrate (mg/l) as N	0.32	0.36	0.032	0.34
Chloride (mg/l)	24	26	17	26
pH	6.3	6.4	6.6	6.4
Phosphate, Total (mg/l) as P	0.043	0.040	0.038	0.023
Phosphate, Total Dissolved (mg/l)	0.037	0.040	0.013	0.020
Specific Conductance (umhos/cm)	106	106	70	104
Total Kjeldahl-Nitrogen (mg/l) as N	0.60	0.87	0.89	0.72

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: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

tn:

Date 2/12/86

Job No. 75443-1

Lab No. 3861

Order No. BARNC-1

Material: WATER

Book No. 193-14 - 17 RH

Specifications: None

Sample ID: 2 Water Samples @ BEARSE

Date received: 1/29/86

	B-1A SURFACE	B-1C BOTTOM
Total Coliform Bacteria (colonies/100ml)	2	-
Fecal Coliform Bacteria (colonies/100ml)	0	-
Total Alkalinity (mg/l)	11	12
Total Suspended Solids (mg/l)	2	0.8
Total Dissolved Solids (mg/l)	52	48
Ammonia (mg/l) as N	0.011	0.013
Nitrate (mg/l) as N	0.044	0.045
Chloride (mg/l)	17	16
pH	6.5	6.4
Phosphate, Total (mg/l) as P	0.033	0.067
Phosphate, Total Dissolved (mg/l)	0.031	0.032
Specific Conductance (umhos/cm)	72	72
Total Kjeldahl-Nitrogen (mg/l) as N	0.60	0.74

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Geoffrey Coelho, Lead Chemist

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To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 3/10/86

Job No. 76596-1

Lab No. 3990

Order No. BARNC-1

Material: WATER

Book No. 194-35 AP

Specifications: None

Sample ID: 17 Water Samples @ Wequaquet, Long Pond, Bearse Date received: 2/24/86

	WEQUAQUET				
	W-1A	W-1C	W-2A	W-2C	W-3A
Total Colifora Bacteria (colonies/100ml)	2	-	0	-	1
Fecal Streptococcus Bacteria (colonies/100ml)	2	-	0	-	0
Total Alkalinity (mg/l)	16	10	10	11	11
Total Suspended Solids (mg/l)	6.4	5.2	10.	4.8	8.0
Total Dissolved Solids (mg/l)	72	85	91	47	85
Ammonia (mg/l) as N	0.038	0.026	0.027	0.025	0.022
Nitrate (mg/l) as N	<0.02	<0.02	<0.02	<0.02	0.04
Chloride (mg/l)	16	16	16	14	16
pH	6.5	6.7	6.8	6.8	6.8
Phosphate, Total (mg/l) as P	0.067	0.072	0.025	0.050	0.043
Phosphate, Dissolved (mg/l)	0.050	0.056	0.016	0.045	0.038
Specific Conductance (umhos/cm)	76	76	76	76	74
Total Kjeldahl-Nitrogen (mg/l) as N	0.12	0.15	0.18	0.24	0.23

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CONAM INSPECTION A UNIT OF QUALCOMP
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	W-3C	W-4A	W-4C	W-5	W-6	W-7
Total Coliform Bacteria (colonies/100ml)	-	1	-	0	5	0
Fecal Streptococcus Bacteria (colonies/100ml)	-	0	-	0	0	0
Total Alkalinity (mg/l)	11	11	11	<1.0	5.1	11
Total Suspended Solids (mg/l)	9.6	5.6	4.4	10	4.8	2.4
Total Dissolved Solids (mg/l)	80	80	64	106	60	49
Ammonia (mg/l) as N	0.042	0.018	0.014	0.28	0.090	0.017
Nitrate (mg/l) as N	<0.02	<0.02	<0.02	0.04	0.25	<0.02
Chloride (mg/l)	16	14	16	12	30	16
pH	6.8	6.8	6.6	4.5	5.2	6.7
Phosphate, Total (mg/l) as P	0.042	0.055	0.054	0.31	0.099	0.042
Phosphate, Dissolved (mg/l)	0.034	0.042	0.047	0.037	0.078	0.034
Specific Conductance (umhos/cm)	76	72	74	59	121	74
Total Kjeldahl-Nitrogen (mg/l) as N	0.34	0.18	0.18	0.83	0.66	0.07

	LONG POND			
	LP-1A	LP-1C	LP-2	LP-3
Total Coliform Bacteria (colonies/100ml)	20	-	1	1
Fecal Streptococcus Bacteria (colonies/100ml)	0	-	0	1
Total Alkalinity (mg/l)	7.2	9.0	6.5	9.0
Total Suspended Solids (mg/l)	2.8	1.2	7.6	2.4
Total Dissolved Solids (mg/l)	73	153	8.0	75

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	LP-1A	LP-1C	LP-2	LP-3
Ammonia (mg/l) as N	0.020	0.018	0.028	0.026
Nitrate (mg/l) as N	0.32	0.28	<0.02	0.24
Chloride (mg/l)	29	25	23	26
pH	6.4	6.4	6.1	6.4
Phosphate, Total (mg/l) as P	0.020	0.047	0.058	0.041
Phosphate, Dissolved (mg/l)	0.004	0.041	0.042	0.036
Specific Conductance (umhos/cm)	110	106	74	110
Total Kjeldahl-Nitrogen (mg/l) as N	0.64	0.31	0.23	0.34

BEARSE

	B-1A	B-1C
Total Colifore Bacteria (colonies/100ml)	2	-
Fecal Streptococcus Bacteria (colonies/100ml)	0	-
Total Alkalinity (mg/l)	11	11
Total Suspended Solids (mg/l)	2.4	4.4
Total Dissolved Solids (mg/l)	44	32
Ammonia (mg/l) as N	0.022	0.027
Nitrate (mg/l) as N	0.04	<0.02
Chloride (mg/l)	17	16
pH	6.6	6.7

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	BEARSE B-1A	B-1C
Phosphate, Total (mg/l) as P	0.049	0.033
Phosphate, Dissolved (mg/l)	0.034	0.019
Specific Conductance (umhos/cm)	76	76
Total Kjeldahl-Nitrogen (mg/l) as N	0.22	0.08

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
10TH DAY OF MARCH 1986
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Geoffrey A. Coelho, Lead Chemist

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CONAM INSPECTION A UNIT OF QUALSPEC
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To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 3/24/86

Job No. 77369-1

Lab No. 4068

Order No. WEQUAQUET

Material: WATER

Book No. 205-1 AP

Specifications: None

Sample ID: 17 Water Samples @ Wequaquet Date received: 3/10/86

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C
Total Coliform Bacteria (colonies/100ml)	0	-	0	-	1	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	-	0	-
Total Alkalinity (mg/l)	12	12	12	12	12	11
Total Suspended Solids (mg/l)	1.2	2.0	3.6	0.4	1.2	0.4
Total Dissolved Solids (mg/l)	48	55	61	53	37	35
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	<0.02	<0.02	0.02	<0.02	<0.02	0.03
Chloride (mg/l)	20	20	20	19	19	19
pH	6.8	6.7	6.6	6.7	6.7	6.6
Phosphate, Total (mg/l) as P	0.025	0.026	0.024	0.039	0.073	0.086
Phosphate, Dissolved (mg/l)	0.025	0.024	0.024	0.035	0.030	0.035
Specific Conductance (umhos/cm)	74	74	74	74	74	64
Total Kjeldahl-Nitrogen (mg/l) as N	0.83	0.77	0.53	0.64	0.65	0.75

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CONAM INSPECTION A UNIT OF TRACOR
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	W-4A	W-4C	W-5	W-6	W-7	LP-1A
Total Coliform Bacteria (colonies/100ml)	2	-	13	0	5	11
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	0	0	0
Total Alkalinity (mg/l)	12	12	7.8	9.6	12	9.9
Total Suspended Solids (mg/l)	0.4	4.0	1.2	0.4	0.4	0.4
Total Dissolved Solids (mg/l)	37	85	33	5.3	33	41
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.033	<0.01	<0.01
Nitrate (mg/l) as N	0.02	0.02	<0.02	0.29	<0.02	0.09
Chloride (mg/l)	19	16	26	32	16	26
pH	6.8	6.7	5.5	5.4	6.5	6.5
Phosphate, Total (mg/l) as P	0.025	0.045	0.13	0.029	0.015	0.025
Phosphate, Dissolved (mg/l)	0.025	0.020	0.13	0.028	0.015	0.015
Specific Conductance (umhos/cm)	74	64	95	106	74	95
Total Kjeldahl-Nitrogen (mg/l) as N	0.69	0.53	1.1	0.51	0.62	0.46

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(617) 832-5500

CONAM INSPECTION A UNIT OF QUALCOMM
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	-	880	9	0	-
Fecal Coliform Bacteria (colonies/100ml)	-	0	0	0	-
Total Alkalinity (mg/l)	11	12	7.9	10	10
Total Suspended Solids (mg/l)	0.4	0.4	1.2	0.4	4.8
Total Dissolved Solids (mg/l)	60	36	53	33	35
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.016	0.012
Nitrate (mg/l) as N	0.12	<0.02	0.09	0.02	<0.02
Chloride (mg/l)	26	19	27	20	16
pH	6.6	6.6	6.5	6.6	6.7
Phosphate, Total (mg/l) as P	0.24	0.031	0.038	0.037	0.11
Phosphate, Dissolved (mg/l)	0.14	0.030	0.035	0.030	0.075
Specific Conductance (umhos/cm)	95	64	95	64	74
Total Kjeldahl-Nitrogen (mg/l) as N	0.64	0.86	0.59	0.87	0.58

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
24TH DAY OF MARCH 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Lead Chemist

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Arnold Greene Testing Laboratories

East Natick Industrial Park
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(617) 235-7330, 653-5950
Telex 948459 GREENELAB NTIK

CONAM INSPECTION

Nondestructive • Chemical • Pollution • Metallurgical
Inspection • Evaluation • Analysis
Research • Development

Branch Laboratories:
Springfield, Mass. 01109
(413) 734-6548

Auburn, Mass. 01501
(617) 832-5500

CONAM INSPECTION a unit of Qualcorp
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 4/3 /86

Job No. 77868-1

Lab No. 4138

Order No. BARNC-1

Material: WATER

Book No. 201-36 THR. 38 RH

Specifications: None

SAMPLE ID: 18 WATER SAMPLES @ WEQUAQUET, LONG POND & BEARSE Date received: 3/24/86

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C
Total Coliform Bacteria (colonies/100ml)	0	-	1	-	0	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	-	0	-
Total Alkalinity (mg/l)	11	13	11	12	12	12
Total Suspended Solids (mg/l)	0.4	0.8	0.8	1.2	0.4	0.8
Total Dissolved Solids (mg/l)	40	45	35	47	49	56
Ammonia (mg/l) as N	0.012	0.042	0.034	0.02	0.028	0.012
Nitrate (mg/l) as N	0.036	<0.0125	0.066	0.014	<0.0125	0.014
Chloride (mg/l)	20	20	20	20	20	20
pH	6.6	6.6	6.7	6.7	6.7	6.7
Phosphate, Total (mg/l) as P	0.070	0.13	0.085	0.115	0.085	0.175
Phosphate, Dissolved (mg/l)	0.05	0.075	0.025	0.06	0.065	0.025
Specific Conductance (umhos/cm)	77	77	77	76.0	72.0	74.0
Total Kjeldahl-Nitrogen (mg/l) as N	0.36	0.28	0.30	0.22	0.22	0.26

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	W-4A	W-4C	W-5	W-6	W-7	W-8
Total Colifora Bacteria (colonies/100ml)	0	-	0	0	0	-
Fecal Colifora Bacteria (colonies/100ml)	0	-	0	0	0	-
Total Alkalinity (mg/l)	11	11	<1.0	8.5	14	9
Total Suspended Solids (mg/l)	0.8	2	11	1.6	1.2	0.8
Total Dissolved Solids (mg/l)	35	55	101	83	63	68
Ammonia (mg/l) as N	0.022	<0.01	0.026	0.092	0.012	0.024
Nitrate (mg/l) as N	0.0125	0.07	0.015	0.55	0.037	0.17
Chloride (mg/l)	20	20	20	20	20	23
pH	6.8	6.8	4.8	5.4	6.6	6.7
Phosphate, Total (mg/l) as P	0.085	0.090	0.38	0.050	0.090	0.115
Phosphate, Dissolved (mg/l)	0.045	0.045	0.285	0.035	0.020	0.035
Specific Conductance (umhos/cm)	74.0	73.0	69	131.0	75	103
Total Kjeldahl-Nitrogen (mg/l) as N	0.30	0.26	1.3	0.34	0.64	0.30

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	LONG POND				BEARSE	
	LP-1A	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Colifora Bacteria (colonies/100ml)	0	-	2	2	0	-
Fecal Colifora Bacteria (colonies/100ml)	0	-	1	0	0	-
Total Alkalinity (mg/l)	11	11	11	9.5	12	11
Total Suspended Solids (mg/l)	0.4	0.8	3.2	2	0.4	12
Total Dissolved Solids (mg/l)	52	59	44	56	40	51
Ammonia (mg/l) as N	0.016	0.016	0.018	0.028	0.016	0.012
Nitrate (mg/l) as N	0.17	0.28	0.23	0.20	0.034	0.028
Chloride (mg/l)	21	23	19	23	22	28
pH	6.5	6.5	6.6	6.5	6.5	6.6
Phosphate, Total (mg/l) as P	0.075	0.120	0.130	0.100	0.095	0.16
Phosphate, Dissolved (mg/l)	0.055	0.050	0.060	0.055	0.055	0.070
Specific Conductance (uahos/cm)	103.0	104	75	104	77	77
Total Kjeldahl-Nitrogen (mg/l) as N	0.23	0.32	0.34	0.32	0.33	0.51

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
3RD DAY OF APRIL 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Lead Chemist

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CONAM INSPECTION A UNIT OF Dynalectron
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

MAY 12 1986

To: IEP INC.
6 MAPLE STREET
BOX 790
NORTHBORO, MA 01532

Attn:

Date 5/7 /86
Job No. 79522-1
Lab No. 4228
Order No. BARNC-1
Date received: 4/7/86

Material: WATER
Book No. 205-43 thr. 45 AP
Specifications: None

Sample ID: 18 Water Samples

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C
Total Coliform Bacteria (colonies/100ml)	1	-	3	-	2	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	-	0	-
Total Alkalinity (mg/l)	12	11	12	12	12	12
Total Suspended Solids (mg/l)	3.6	0.4	4.0	0.4	<0.4	2.4
Total Dissolved Solids (mg/l)	65	43	52	35	47	68
Ammonia (mg/l) as N	0.012	0.012	0.013	0.012	0.011	0.011
Nitrate (mg/l) as N	0.02	<0.02	0.04	0.04	0.03	<0.02
Chloride (mg/l)	16	16	16	16	18	16
pH	6.2	6.0	5.9	5.9	6.1	6.2
Phosphate, Total (mg/l) as P	0.035	0.105	0.039	0.034	0.034	0.032
Phosphate, Dissolved (mg/l)	0.033	0.039	0.035	0.032	0.029	0.031
Specific Conductance (umhos/cm)	76	77	76	77	74	75
Total Kjeldahl-Nitrogen (mg/l) as N	0.30	0.39	0.36	0.41	0.35	0.37

	W-4A	W-4C	W-5	W-6	W-7	W-8
Total Coliform Bacteria (colonies/100ml)	0	-	0	6	6	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	2	0	0	-
Total Alkalinity (mg/l)	11	12	2.1	6.2	10	10

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(617) 832-5500

CONAM INSPECTION a unit of Qualcomm
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	W-4A	W-4C	W-5	W-6	W-7	W-8
Total Suspended Solids (mg/l)	1.6	5.2	7.2	8.0	0.4	1.2
Total Dissolved Solids (mg/l)	59	52	101	100	57	53
Ammonia (mg/l) as N	<0.010	<0.010	0.025	0.040	0.020	<0.010
Nitrate (mg/l) as N	0.05	0.02	0.05	0.47	0.06	0.03
Chloride (mg/l)	16	16	24	32	18	16
pH	6.3	6.4	5.0	5.1	6.1	6.1
Phosphate, Total (mg/l) as P	0.036	0.035	0.193	0.033	0.029	0.022
Phosphate, Dissolved (mg/l)	0.033	0.034	0.160	0.031	0.27	0.020
Specific Conductance (umhos/cm)	74	73	97	128	75	75
Total Kjeldahl-Nitrogen (mg/l) as N	0.40	0.32	0.75	0.31	0.40	0.41

	LP-1A	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	0	-	13	7	1	-
Fecal Coliform Bacteria (colonies/100ml)	4	-	1	0	0	-
Total Alkalinity (mg/l)	10	9.5	12	11	13	12
Total Suspended Solids (mg/l)	4.0	2.8	3.2	1.2	0.4	1.2
Total Dissolved Solids (mg/l)	85	80	57	53	41	76
Ammonia (mg/l) as N	0.016	0.018	0.014	<0.010	<0.010	0.012
Nitrate (mg/l) as N	0.07	0.11	<0.02	0.15	0.02	<0.02
Chloride (mg/l)	24	24	18	24	18	18
pH	6.0	6.3	6.1	6.1	6.4	6.2

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CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	LP-1A	LP-1C	LP-2	LP-3	B-1A	B-1C
Phosphate, Total (mg/l) as P	0.016	0.017	0.020	0.022	0.036	0.027
Phosphate, Dissolved (mg/l)	0.015	0.013	0.015	0.022	0.033	0.024
Specific Conductance (umhos/cm)	101	101	76	98	78	75
Total Kjeldahl-Nitrogen (mg/l) as N	0.36	0.31	0.37	0.32	0.43	0.37

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
7TH DAY OF MAY 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

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Auburn, Mass. 01501 (617) 832-5500

CONAM INSPECTION A UNIT OF DUCOMM
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
P O BOX 434
BARNSTABLE MA 02630
Attn: DAVID WORDEN

Date 5/27/86
Job No. 79213-1
Lab No. 4322
Order No. BARNC-1

Material: WATER
Book No. 209-41 RH
Specifications: None
Page 1.

Sample ID: 17 Water Samples @ Wequaquet Date received: 4/23/86

	W-1A	W-1C	W-2A	W-2C	W-3A
Total Coliform Bacteria (colonies/100ml)	0	--	0	--	0
Fecal Coliform Bacteria (colonies/100ml)	0	--	0	--	0
Total Alkalinity (mg/l)	12	11	11	11	12
Total Suspended Solids (mg/l)	2	<0.4	0.4	0.8	0.8
Total Dissolved Solids (mg/l)	23	52	49	44	51
Ammonia (mg/l) as N	0.015	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	<0.012	0.029	<0.0125	<0.0125	<0.0125
Chloride (mg/l)	18	17	18	18	17
pH	6.6	6.4	6.4	6.5	6.6
Phosphate, Total (mg/l) as P	0.034	0.032	0.022	0.013	0.026
Dissolved Phosphate (mg/l)	0.023	0.03	0.021	0.012	0.022
Specific Conductance (umhos/cm)	80	80	80	80	80
Total Kjeldahl-Nitrogen (mg/l) as N	0.27	0.25	0.34	0.34	0.23

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To: IEP INC.
P O BOX 434
BARNSTABLE MA 02630
Attn: DAVID WORDEN

Date 5/27/86
Job No. 79213-1
Lab No. 4322
Order No. BARNC-1

Material: WATER
Book No. 209-41 RH
Specifications: None
Page 2.

Sample ID: 17 Water Samples @ Wequaquet Date received: 4/23/86

	W-3C	W-4A	W-4C	W-5	W-6
Total Coliform Bacteria (colonies/100ml)	--	1	--	0	13
Fecal Coliform Bacteria (colonies/100ml)	--	0	--	0	0
Total Alkalinity (mg/l)	11	11	11	<1.0	1.3
Total Suspended Solids (mg/l)	1.2	1.24	<0.4	10	2
Total Dissolved Solids (mg/l)	41	28	47	57	103
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.01	0.01
Nitrate (mg/l) as N	0.019	<0.0125	<0.0125	<0.0125	0.10
Chloride (mg/l)	17	16	15	15	29
pH	6.4	6.5	6.5	4.3	4.9
Phosphate, Total (mg/l) as P	0.025	0.03	0.042	0.33	0.073
Dissolved Phosphate (mg/l)	0.024	0.025	0.03	0.31	0.066
Specific Conductance (umhos/cm)	79	78	78	67	114
Total Kjeldahl-Nitrogen (mg/l) as N	0.39	0.42	0.32	1.1	0.38

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
P O BOX 434
BARNSTABLE MA 02630
Attn: DAVID WORDEN

Date 5/27/86
Job No. 79213-1
Lab No. 4322
Order No. BARNC-1

Material: WATER
Book No. 209-41 RH
Specifications: None
Page 3.

Sample ID: 17 Water Samples @ Wequaquet Date received: 4/23/86

	W-7	LP-1A	LP-1C	LP-2	LP-3
Total Coliform Bacteria (colonies/100ml)	0	1	--	0	4
Fecal Coliform Bacteria (colonies/100ml)	0	0	--	0	3
Total Alkalinity (mg/l)	11	9.2	10	10	9.2
Total Suspended Solids (mg/l)	1.2	0.8	0.8	3.6	<0.4
Total Dissolved Solids (mg/l)	31	59	55	37	59
Ammonia (mg/l) as N	<0.01	0.013	0.015	<0.01	<0.01
Nitrate (mg/l) as N	<0.0125	0.13	0.079	0.017	0.053
Chloride (mg/l)	16	23	23	15	24
pH	6.4	6.4	6.3	6.3	6.4
Phosphate, Total (mg/l) as P	0.025	0.016	0.012	0.025	0.020
Dissolved Phosphate (mg/l)	0.023	0.014	<0.01	0.024	0.018
Specific Conductance (umhos/cm)	78	103	102	78	103
Total Kjeldahl-Nitrogen (mg/l) as N	0.35	0.30	0.34	0.37	0.34

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
P O BOX 434
BARNSTABLE MA 02630
Attn: DAVID WORDEN

Date 5/27/86
Job No. 79213-1
Lab No. 4322
Order No. BARNC-1

Material: WATER
Book No. 209-41 RH
Specifications: None
Page 4.

Sample ID: 17 Water Samples @ Wequaquet — Date received: 4/23/86

	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	1	--
Fecal Coliform Bacteria (colonies/100ml)	1	--
Total Alkalinity (mg/l)	12	12
Total Suspended Solids (mg/l)	0.8	4
Total Dissolved Solids (mg/l)	27	45
Ammonia (mg/l) as N	<0.01	<0.01
Nitrate (mg/l) as N	<0.0125	0.015
Chloride (mg/l)	18	18
pH	6.6	6.4
Phosphate, Total (mg/l) as P	0.021	0.018
Dissolved Phosphate (mg/l)	0.018	0.015
Specific Conductance (umhos/cm)	81	81
Total Kjeldahl-Nitrogen (mg/l) as N	0.39	0.42

IN WITNESS WHEREOF, I HAVE SET MY HAND THIS
27TH DAY OF MAY 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

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CONAM INSPECTION A UNIT OF Quallcorp
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
BOX 434
BARNSTABLE MA 02630
ATTN: DAVE WORDEN

Date 6/3 /86
Job No. 79690-1
Lab No. 4395
Order No. BARNC-1

Material: WATER
Book No. 228-1 AP
Specifications: None
Page 1. of 3.

Sample ID: 18 Water Samples @ Wequaquet Date received: 5/5/86

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C
Total Coliform Bacteria (colonies/100ml)	0	-	0	-	1	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	-	1	-
Total Alkalinity (mg/l)	12	12	11	12	12	12
Total Suspended Solids (mg/l)	10	4.0	0.8	3.2	0.8	0.8
Total Dissolved Solids (mg/l)	121	115	72	81	71	56
Ammonia (mg/l) as N	<0.010	0.012	<0.010	<0.010	<0.010	<0.010
Nitrate (mg/l) as N	0.05	<0.02	<0.02	<0.02	0.04	<0.02
Chloride (mg/l)	18	16	17	15	15	15
pH	6.9	6.8	6.8	6.9	6.6	6.4
Phosphate, Total (mg/l) as P	0.013	0.020	0.022	0.042	0.020	0.017
Ortho, Phosphate (mg/l)	0.011	0.018	0.019	0.038	0.011	0.016
Specific Conductance (umhos/cm)	82	82	81	82	81	80
Total Kjeldahl-Nitrogen (mg/l) as N	0.24	0.41	0.30	0.28	0.27	0.36

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Auburn, Mass. 01501
(617) 832-5500

CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Date 6/3 /86

Job No. 79690-1

Lab No. 4395

Order No. BARNC-1

Material: WATER

Book No. 228-2-AP

Specifications: None

Sample ID: 18 Water Samples @ Nequaquet Date received: 5/5/86

	W-4A	W-4C	W-5	W-6	W-7	W-8
Total Coliform Bacteria (colonies/100ml)	4	-	10	0	4	0
Fecal Coliform Bacteria (colonies/100ml)	2	-	8	0	0	0
Total Alkalinity (mg/l)	12	11	<1.0	7.9	5.4	8.8
Total Suspended Solids (mg/l)	1.6	0.4	6.4	8.4	2.0	5.2
Total Dissolved Solids (mg/l)	83	68	105	103	64	87
Ammonia (mg/l) as N	<0.010	<0.010	0.047	0.33	<0.010	0.033
Nitrate (mg/l) as N	0.04	<0.02	0.05	0.39	0.03	0.19
Chloride (mg/l)	15	17	14	29	17	35
pH	6.6	6.5	4.7	5.3	6.6	5.4
Phosphate, Total (mg/l) as P	0.025	0.031	0.420	0.015	0.033	0.010
Ortho, Phosphate (m/gl)	0.024	0.027	0.420	0.014	0.031	<0.010
Specific Conductance (umhos/cm)	80	79	74	131	81	131
Total Kjeldahl-Nitrogen (mg/l) as N	0.41	0.41	1.1	0.25	0.39	0.25

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To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Date 6/3 /86

Job No. 79690-1

Lab No. 4395

Order No. BARNC-1

Material: WATER

Book No. 228-3ap

Specifications: None

Page 3. of 3.

Sample ID: 18 Water Samples @ Wequaquet Date received: 5/5/86

	LP-1A	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	0	-	0	0	0	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	0	0	-
Total Alkalinity (mg/l)	10	10	12	12	12	12
Total Suspended Solids (mg/l)	0.8	1.2	1.2	6.0	0.04	1.6
Total Dissolved Solids (mg/l)	75	63	45	72	56	52
Ammonia (mg/l) as N	0.017	0.016	0.012	0.016	0.012	<0.010
Nitrate (mg/l) as N	0.34	0.06	0.09	0.11	0.13	0.02
Chloride (mg/l)	22	22	15	21	15	15
pH	6.7	6.7	6.8	6.7	6.7	6.7
Phosphate, Total (mg/l) as P	0.022	0.026	0.022	0.032	0.028	0.023
Ortho, Phosphate (mg/l)	0.019	0.025	0.020	0.032	0.025	0.022
Specific Conductance (umhos/cm)	103	103	80	104	82	82
Total Kjeldahl-Nitrogen (mg/l) as N	0.38	0.29	0.33	0.59	0.53	0.50

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
3RD DAY OF JUNE 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Chelho, Manager

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

JUN 16 1986

To: IEP INC.
BOX 434
BARNSTABLE, MA 01532
Attn: DAVID MORDEN

Date 6/12/86
Job No. 80263-1
Lab No. 4476
Order No. BARNC-1

Material: WATER
Book No. 160-31 THR. 33 BB
Specifications: None

Sample ID: 17 Water Samples @ Wequaquet, Long Pond, & Bearse Date received: 5/19/86

	W-1A	W-1C	W-2A	W-2C	W-3A
Total Coliform Bacteria (colonies/100ml)	0	-	0	-	0
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	-	0
Total Alkalinity (mg/l)	11	11	11	12	12
Total Suspended Solids (mg/l)	1.2	1.2	1.6	1.2	0.8
Total Dissolved Solids (mg/l)	35	37	48	53	63
Ammonia (mg/l) as N	0.015	0.010	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	<0.02	<0.02	<0.02	<0.02	<0.02
Chloride (mg/l)	18	19	18	18	17
pH	6.5	6.4	6.4	6.6	6.5
Phosphate, Total (mg/l) as P	0.014	0.020	0.020	0.020	0.015
Total Dissolved Phosphate (mg/l)	<0.01	0.001	0.002	0.002	0.001
Specific Conductance (umhos/cm)	82	81	81	82	81
Total Kjeldahl-Nitrogen (mg/l) as N	0.40	0.39	0.34	0.34	0.31

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WEQUAQUET

	W-3C	W-4A	W-4C	W-5	W-6
Total Coliform Bacteria (colonies/100ml)	-	0	-	0	0
Fecal Coliform Bacteria (colonies/100ml)	-	0	-	0	3
Total Alkalinity (mg/l)	12	11	11	0	7.9
Total Suspended Solids (mg/l)	2.0	1.6	1.2	14	1.2
Total Dissolved Solids (mg/l)	41	51	45	99	91
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.01	0.052
Nitrate (mg/l) as N	<0.02	<0.02	0.05	0.03	0.56
Chloride (mg/l)	17	16	17	23	34
pH	6.6	6.4	6.3	4.0	5.2
Phosphate, Total (mg/l) as P	0.020	0.035	0.020	0.58	0.009
Total Dissolved Phosphate (mg/l)	0.003	0.004	0.002	-	<0.001
Specific Conductance (umhos/cm)	80	81	79	92	139
Total Kjeldahl-Nitrogen (mg/l) as N	0.35	0.38	0.28	0.97	0.38

LONG POND

	W-7	LP-1A	LP-1C	LP-2	LP-3
Total Coliform Bacteria (colonies/100ml)	0	0	-	20	44
Fecal Coliform Bacteria (colonies/100ml)	0	0	-	6	5
Total Alkalinity (mg/l)	11	10	9.8	11	10
Total Suspended Solids (mg/l)	2.0	0.8	1.6	4.4	0.4

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		LONG POND			
	M-7	LP-1A	LP-1C	LP-2	LP-3
Total Dissolved Solids (mg/l)	47	100	105	76	96
Ammonia (mg/l) as N	0.014	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	<0.02	0.063	0.063	0.025	0.10
Chloride (mg/l)	18	23	23	18	23
pH	6.2	6.5	6.4	6.4	6.4
Phosphate, Total (mg/l) as P	0.13	<0.01	0.01	0.12	0.07
Total Dissolved Phosphate (mg/l)	-	<0.01	<0.01	-	-
Specific Conductance (umhos/cm)	82	103	102	80	103
Total Kjeldahl-Nitrogen (mg/l) as N	0.39	0.28	0.31	0.28	0.29

	BEARSE	
	B-1A	B-1C
Total Colifora Bacteria (colonies/100ml)	2	-
Fecal Colifora Bacteria (colonies/100ml)	0	-
Total Alkalinity (mg/l)	11	11
Total Suspended Solids (mg/l)	1.2	2.0
Total Dissolved Solids (mg/l)	39	41
Ammonia (mg/l) as N	0.014	0.011
Nitrate (mg/l) as N	<0.02	<0.02
Chloride (mg/l)	18	18
pH	6.4	6.4

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BEARSE

	B-1A	B-1C
Phosphate, Total (mg/l) as P	<0.01	0.066
Total Dissolved Phosphate (mg/l)	<0.01	<0.01
Specific Conductance (umhos/cm)	82	82
Total Kjeldahl-Nitrogen (mg/l) as N	0.33	0.28

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12TH DAY OF JUNE 1986
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DIVISION OF CONAM INSPECTION

Geoffrey A. Coelho, Manager

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JUN 23 1986

To: IEP INC.
6 MAPLE STREET
BOX 790
NORTHBORO, MA 01532

Attn:

Date 6/19/86
Job No. 81262-1
Lab No. 4570
Order No. KV-2

Material: WATER
Book No. 160-44 thr. 46 89
Specifications: None

Sample ID: 18 Water Samples @ Nequaquet, Long Pond, Bearse

Date received: 6/9/86

	WEQUAQUET N-1A	N-1C	N-2A	N-2C	N-3A	N-3C
Total Coliform Bacteria (colonies/100ml)	0	-	0	-	0	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	0	-	0	-
Total Alkalinity (mg/l)	13	13	13	13	13	14
Total Suspended Solids (mg/l)	11	9.3	2.0	1.2	6.4	4.0
Total Dissolved Solids (mg/l)	65	60	57	57	88	71
Ammonia (mg/l) as N	0.013	0.011	0.011	<0.01	0.012	0.013
Nitrate (mg/l) as N	0.030	0.018	0.087	0.021	0.037	0.024
Chloride (mg/l)	18	17	17	18	18	18
pH	6.7	6.8	6.9	6.8	6.9	6.9
Phosphate, Total (mg/l) as P	0.013	0.014	0.012	0.016	0.010	0.012
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	83	84	85	85	84	84
Total Kjeldahl-Nitrogen (mg/l) as N	0.29	0.42	0.37	0.35	0.36	0.20

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MEQUADUET

	M-4A	M-4C	M-5	M-6	M-7	M-8
Total Coliform Bacteria (colonies/100ml)	0	-	TNTC	TNTC	0	-
Fecal Coliform Bacteria (colonies/100ml)	2	-	103	16	0	-
Total Alkalinity (mg/l)	12	12	0	4.5	12	13
Total Suspended Solids (mg/l)	1.6	1.6	16	0.67	3.2	2.8
Total Dissolved Solids (mg/l)	67	65	107	100	73	76
Ammonia (mg/l) as N	0.012	<0.01	<0.01	0.10	<0.01	<0.01
Nitrate (mg/l) as N	0.041	0.024	0.031	0.27	0.25	0.049
Chloride (mg/l)	17	17	22	26	16	17
pH	6.7	6.7	4.2	5.4	6.8	6.5
Phosphate, Total (mg/l) as P	<0.01	0.012	0.15	0.060	0.012	0.013
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	83	83	108	114	83	84
Total Kjeldahl-Nitrogen (mg/l) as N	0.15	0.17	0.23	0.32	0.39	0.26

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Telex 948459 GREENELAB NTIK

	LONG POND				BEARSE	
	LP-1A	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	1	-	6	9	0	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	2	4	0	-
Total Alkalinity (mg/l)	14	13	12	13	15	14
Total Suspended Solids (mg/l)	1.2	1.2	1.6	2.0	8.8	2.0
Total Dissolved Solids (mg/l)	80	69	60	72	55	59
Ammonia (mg/l) as N	0.015	0.025	0.010	0.011	<0.01	<0.01
Nitrate (mg/l) as N	0.062	0.10	0.20	0.013	0.43	0.045
Chloride (mg/l)	23	22	17	23	16	17
pH	6.6	6.6	6.6	6.7	6.5	6.5
Phosphate, Total (mg/l) as P	<0.01	<0.01	0.012	<0.01	0.01	0.01
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (uehos/cm)	106	107	83	108	85	86
Total Kjeldahl-Nitrogen (mg/l) as N	0.32	0.33	0.34	0.33	0.32	0.33

TNTC= Too Numerous To Count

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
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Geoffrey Joelho, Manager

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 7/1 /86

Job No. 81955-1

Lab No. 4656

Order No. NONE

Material: WATER

Book No. 233-15 bb

Specifications: None

Sample ID: 17 Water Samples @ Wequaquet, Long, Bearse Ponds Barnc-1

Date received: 6/23/86

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C
Total Coliform Bacteria (colonies/100ml)	0	-	20	-	60	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	2	-	1	-
Total Alkalinity (mg/L CaCO3)	12	11	11	12	12	12
Total Suspended Solids (mg/l)	4.8	4.8	5.2	4.0	1.6	2.4
Total Dissolved Solids (mg/l)	84	83	77	64	76	56
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride (mg/l)	21	17	17	18	17	17
pH	6.9	6.8	6.9	6.8	6.8	6.8
Phosphate, Total (mg/l) as P	0.029	0.018	0.015	0.018	0.016	0.017
Dissolved Phosphate (mg/l)	<0.01	0.014	0.011	<0.01	<0.01	0.011
Specific Conductance (umhos/cm)	78	79	79	79	78	78
Total Kjeldahl-Nitrogen (mg/l) as N	0.22	0.23	0.23	0.27	0.22	0.27

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Testing Laboratories

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Telex 948459 GREENELAB NTIK

CONAM INSPECTION

Nondestructive • Chemical • Pollution • Metallurgical
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Branch Laboratories:
Springfield, Mass. 01109
(413) 734-6548

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CONAM INSPECTION A UNIT OF Dynalectron
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Date 7/1 /86

Job No. 81955-1

Lab No. 4656

Page No.2.

Material: WATER

Book No. 233-16-bb

Specifications: None

Sample ID: 17 Water Samples @ Nequaquet, Long, Bearse Ponds Barnc-1

Date received: 6/23/86

	W-4A	A-4C	W-5	W-6	W-7	LP-1A
Total Coliform Bacteria (colonies/100ml)	30	-	70	300	30	10
Fecal Coliform Bacteria (colonies/100ml)	1	-	0	0	0	0
Total Alkalinity (mg/L CaCO3)	12	12	-	11	11	15
Total Suspended Solids (mg/l)	2.0	2.8	18	3.2	2.0	2.4
Total Dissolved Solids (mg/l)	69	61	107	81	71	91
Ammonia (mg/l) as N	<0.01	0.01	0.070	0.044	<0.01	0.013
Nitrate (mg/l) as N	<0.01	0.01	0.031	0.48	<0.01	<0.01
Chloride (mg/l)	19	17	19	29	18	23
pH	6.7	6.7	4.5	5.5	6.8	7.0
Phosphate, Total (mg/l) as P	0.014	0.015	0.28	<0.01	0.012	0.010
Dissolved Phosphate (mg/l)	<0.01	<0.01	0.16	<0.01	<0.01	0.013
Specific Conductance (umhos/cm)	78	78	94	120	79	99
Total Kjeldahl-Nitrogen (mg/l) as N	0.18	0.22	1.2	0.27	0.25	0.14

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To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Date 7/1 /86

Job No. 81955-1

Lab No. 4656

Page.No. 3

Material: WATER

Book No. 233-17-bb

Specifications: None

Sample ID: 17 Water Samples @ Nequaquet, Long, Bearse Ponds, Barnc-1

Date received: 6/23/86

	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	-	70	150	0	-
Fecal Coliform Bacteria (colonies/100ml)	-	4	0	0	-
Total Alkalinity (mg/LCaCO3)	12	13	13	13	13
Total Suspended Solids (mg/l)	1.6	0.4	5.2	1.6	<0.4
Total Dissolved Solids (mg/l)	80	64	71	56	60
Ammonia (mg/l) as N	0.018	0.014	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.019	0.022	0.012	0.024	<0.01
Chloride (mg/l)	25	18	23	19	19
pH	6.8	6.9	6.9	6.9	6.9
Phosphate, Total (mg/l) as P	0.011	0.013	<0.01	0.012	0.013
Dissolved Phosphate (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umho/cm)	98	77	99	79	78
Total Kjeldahl-Nitrogen (mg/l) as N	0.21	0.23	0.27	0.24	0.28

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
1ST DAY OF JULY 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

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CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

JUL 18 1986

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 7/16/86

Job No. 82374-1

Lab No. 4732

Order No. BARNC-1

Material: WATER

Book No. 233-33 THRU 35 BB

Specifications: None

Sample ID: 17 Water Samples @ Wequaquet, Long Pond & Bearse

Date received: 7/7/86

	WEQUAQUET					
	W-1A	W-1C	W-2A	W-2C	W-3A	W-3B
Total Colifora Bacteria (colonies/100ml)	<10	-	20	-	20	-
Fecal Colifora Bacteria (colonies/100ml)	0	-	1	-	0	-
Total Alkalinity (mg/l)	12	11	11	12	12	12
Total Suspended Solids (mg/l)	0.8	0.4	1.2	8.4	0.4	1.2
Total Dissolved Solids (mg/l)	59	33	60	31	64	55
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.019	<0.01	<0.01
Nitrate (mg/l) as N	<0.01	<0.01	<0.01	0.010	<0.01	<0.01
Chloride (mg/l)	16	17	17	17	17	17
pH	6.8	6.6	6.9	6.8	6.7	6.7
Phosphate, Total (mg/l) as P	0.011	0.016	0.012	0.018	<0.01	0.012
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	79	79	79	79	78	78
Total Kjeldahl-Nitrogen (mg/l) as N	0.18	0.33	0.26	0.36	0.26	0.31

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WEQUAQUET

	W-4A	W-4C	W-5	W-6	W-7	W-8
Total Coliform Bacteria (colonies/100ml)	<10	-	100	<10	30	<10
Fecal Coliform Bacteria (colonies/100ml)	1	-	0	0	0	<2
Total Alkalinity (mg/l)	12	11	0	7.6	12	17
Total Suspended Solids (mg/l)	1.2	1.6	5.5	3.2	1.2	43
Total Dissolved Solids (mg/l)	57	65	139	88	61	121
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.032	<0.01	<0.01
Nitrate (mg/l) as N	0.017	<0.01	0.021	0.31	0.029	0.070
Chloride (mg/l)	16	17	16	29	17	16
pH	6.6	6.8	4.0	5.4	6.8	8.4
Phosphate, Total (mg/l) as P	<0.01	<0.01	0.033	0.015	<0.01	0.013
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	-	-	-	-
Specific Conductance (umhos/cm)	77	77	92	117	78	73
Total Kjeldahl-Nitrogen (mg/l) as N	0.24	0.29	1.0	0.22	0.37	2.8

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	LONG POND			BEARSE	
	LP-1A	LP-1C	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	<10	-	<10	<10	-
Fecal Coliform Bacteria (colonies/100ml)	0	-	4	0	-
Total Alkalinity (mg/l)	11	12	12	11	12
Total Suspended Solids (mg/l)	1.6	1.6	2.4	2.0	1.2
Total Dissolved Solids (mg/l)	79	76	72	64	28
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.029	0.026	0.015	<0.01	0.022
Chloride (mg/l)	22	23	23	18	16
pH	6.7	6.6	6.7	6.5	6.6
Phosphate, Total (mg/l) as P	<0.01	0.12	0.015	0.012	0.015
Phosphate, Total Dissolved (mg/l)	<0.01	0.038	-	<0.01	<0.01
Specific Conductance (umhos/cm)	100	100	100	79	79
Total Kjeldahl-Nitrogen (mg/l) as N	0.28	0.79	0.34	0.22	0.51

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
16TH DAY OF JULY 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

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To: IEP INC.
BOX 434
BARNSTABLE, MA 02630
Attn: DAVID NORDEN

Date 8/6/86
Job No. 83023-1
Lab No. 4807
JULW.W04, P. 3 & 4
Order No. BARNC-1

Material: WATER
Book No. 241-1&2 BB
Specifications: None

AUG 13 1986

CORRECTED REPORT

Sample ID: 16 Water Samples @ Cape Lakes
Date received: 7/21/86

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C	W-4A	W-4C
Total Colifora Bacteria (colonies/100ml)	10	-	10	-	10	-	10	-
Fecal Colifora Bacteria (colonies/100ml)	1	-	0	-	2	-	0	-
Total Alkalinity (mg/l)	5.4	5.6	5.4	5.6	5.4	5.5	5.6	5.6
Total Suspended Solids (mg/l)	<0.4	1.2	<0.4	4.0	3.6	2.4	6.4	<0.4
Total Dissolved Solids (mg/l)	60	60	61	55	59	56	59	59
Ammonia (mg/l) as N	<0.01	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.032	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride (mg/l)	22	18	17	15	16	15	18	18
pH	6.7	6.6	6.6	6.4	6.7	6.7	6.8	6.7
Phosphate, Total (mg/l) as P	<0.01	0.025	<0.01	0.013	<0.01	0.013	0.013	0.026
Phosphate, Dissolved (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	79	80	79	80	79	79	78	78
Total Kjeldahl-Nitrogen (mg/l) as N	0.30	0.43	0.21	0.29	0.18	0.27	0.21	0.26

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IEP-Cape Lakes
JOB #83023-1

AUG 13 1966

	W-5	W-6	W-7	LP-1A	LP-1C	LP-3	B-1A	B-1C
Total Colifora Bacteria (colonies/100ml)	*	20	40	20	-	90	10	-
Fecal Colifora Bacteria (colonies/100ml)	3	8	4	3	-	90	2	-
Total Alkalinity (mg/l)	<1.0	3.4	5.3	4.9	5.0	6.2	6.3	6.4
Total Suspended Solids (mg/l)	19	0.8	<0.4	<0.4	<0.4	4.4	0.8	2.4
Total Dissolved Solids (mg/l)	129	92	65	71	67	69	63	56
Ammonia (mg/l) as N	<0.01	0.028	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.037	0.24	0.014	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride (mg/l)	19	28	13	22	24	24	15	17
pH	4.5	5.4	6.6	6.5	6.4	6.8	6.7	6.7
Phosphate, Total (mg/l) as P	0.332	0.014	0.025	<0.01	0.013	0.010	0.023	0.020
Phosphate, Dissolved (mg/l)	-	-	-	<0.01	<0.01	-	<0.01	<0.01
Specific Conductance (umhos/cm)	96	122	78	104	103	103	80	79
Total Kjeldahl-Nitrogen (mg/l) as N	1.6	0.19	0.29	0.17	0.25	0.21	0.11	0.27

* CONFLUENT GROWTH

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
6TH DAY OF AUGUST 1986
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Geoffrey Coelho, Manager

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AUG 22 1986

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 8/20/86

Job No. 83642-1

Lab No. 4882
AUGN.W15, P. 1&2

Order No. BARNC-1

Material: WATER

Book No. 241-13 & 14 BB

Specifications: None

Sample ID: 16 Water Samples @ Cape Lakes

Date received: 8/4/86

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C	W-4A	W-4C
Total Colifora Bacteria (colonies/100ml)	<10	--	<10	--	<10	--	1000	--
Fecal Colifora Bacteria (colonies/100ml)	0	--	0	--	0	--	0	--
Total Alkalinity (mg/l)	7.8	6.0	5.3	6.2	5.3	5.5	5.1	5.4
Total Suspended Solids (mg/l)	<0.4	3.2	<0.4	<0.4	<0.4	1.2	<0.4	<0.4
Total Dissolved Solids (mg/l)	45	44	44	35	35	52	45	48
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.042	0.036	0.034	0.040	0.021	0.037	0.036	0.027
Chloride (mg/l)	17	18	18	16	16	15	15	18
pH	6.9	6.8	6.8	6.8	6.8	6.7	6.7	6.7
Phosphate, Total (mg/l) as P	0.029	0.016	0.018	0.020	0.011	0.016	0.012	0.013
Phosphate, Total Dissolved (mg/l)	0.019	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	81	82	82	82	81	81	80	80
Total Kjeldahl-Nitrogen (mg/l) as N	0.30	0.27	0.27	0.30	0.34	0.26	0.25	0.26

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	W-7 ~~W-5~~	W-6	W-5 ~~W-7~~	LP-1A	LP-1C	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	*	*	1500	1000	--	500	400	--
Fecal Coliform Bacteria (colonies/100ml)	10	0	4	0	--	0	0	--
Total Alkalinity (mg/l)	4.7	1.5	0	5.6	5.7	5.7	6.7	5.5
Total Suspended Solids (mg/l)	<0.4	2.4	6.4	<0.4	2.0	<0.4	0.4	1.6
Total Dissolved Solids (mg/l)	**	95	117	61	63	52	40	49
Ammonia (mg/l) as N	<0.01	0.070	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.51	0.67	0.071	0.050	0.020	0.024	0.37	0.18
Chloride (mg/l)	18	25	18	25	26	26	17	18
pH	6.8	5.2	4.1	6.6	6.6	6.7	6.6	6.5
Phosphate, Total (mg/l) as P	0.011	0.051	0.57	0.015	0.013	0.016	0.011	0.015
Phosphate, Total Dissolved (mg/l)	--	--	--	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	80	102	109	107	109	107	81	82
Total Kjeldahl-Nitrogen (mg/l) as N	0.25	0.57	1.5	0.31	0.35	0.42	0.27	0.29

* OVERGROWN

** LOST IN ANALYSIS

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
20TH DAY OF AUGUST 1986
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Geoffrey Coelho, Manager

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CONAM INSPECTION A unit of Quanex
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SEP 5

To: IEP INC.
BOX 434
BARNSTABLE MA 02630
Attn: DAVID WORDEN

Date 8/29/86
Job No. 84104-1
Lab No. 4974
AUGU.W12-P1
Order No. BARNC-1

Material: WATER
Book No. 240-15-CM
Specifications: None

Sample ID: 16 Water Samples @ 1. WEQUAQUET LAKE Date received: 8/18/86

	#W-1A	#W-1C	#W-2A	#W-2C	#W-3A	#W-3C
Total Coliform Bacteria (colonies/100ml)	10	--	20	--	20	--
Fecal Coliform Bacteria (colonies/100ml)	0	--	0	--	0	--
Total Alkalinity (mg/l)	6.0	5.7	6.3	6.7	4.6	6.0
Total Suspended Solids (mg/l)	2.0	2.0	3.2	0.8	4.0	0.8
Total Dissolved Solids (mg/l)	63	60	56	51	57	57
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
Nitrate (mg/l) as N	0.032	0.031	0.014	0.012	0.013	0.014
Chloride (mg/l)	19	17	17	17	17	17
pH	6.9	6.5	6.7	6.4	6.6	6.5
Phosphate, Total (mg/l) as P	0.013	<0.01	0.011	0.016	<0.01	<0.01
Dissolved Phosphate (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	78	78	78	81	79	79
Total Kjeldahl-Nitrogen (mg/l) as N	0.28	0.28	0.28	0.35	0.28	0.25

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Telex 948459 GREENELAB NTIK

CONAM INSPECTION

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CONAM INSPECTION A UNIT OF ALLEGHENY
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	#W-4A	#W-4C	#W-5	#W-6	#W-7
Total Colifora Bacteria (colonies/100ml)	<10	--	200	800	20
Fecal Colifora Bacteria (colonies/100ml)	0	--	3	41	0
Total Alkalinity (mg/l)	4.6	4.9	4.6	3.6	4.9
Total Suspended Solids (mg/l)	3.6	<0.4	2.0	4.8	<0.4
Total Dissolved Solids (mg/l)	57	47	55	85	55
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	0.025	<0.01
Nitrate (mg/l) as N	0.012	0.019	0.037	0.617	0.022
Chloride (mg/l)	16	17	16	29	16
pH	6.5	6.6	6.5	5.6	6.4
Phosphate, Total (mg/l) as P	<0.01	<0.01	0.039	<0.01	<0.01
Dissolved Phosphate (mg/l)	<0.01	<0.01	0.014	<0.01	<0.01
Specific Conductance (umhos/cm)	78	78	78	114	77
Total Kjeldahl-Nitrogen (mg/l) as N	0.35	0.30	0.44	0.14	0.27

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
29TH DAY OF AUGUST 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

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CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

SEP 5 1986

To: IEP INC.
BOX 434
BARNSTABLE MA 02630
Attn: DAVID WORDEN

Date 8/29/86
Job No. 84104-1
Lab No. 4974
AUGU.W12-P3
Order No. BARNC-1

Material: WATER
Book No. 240-16-CM
Specifications: None

Sample ID: 16 Water Samples @ # LONG POND & BEARSE
Date received: 8/18/86

	#LP-1A	#LP-1C	#LP-3	#B-1A	#B-1C
Total Colifora Bacteria (colonies/100ml)	<10	--	220	<10	--
Fecal Colifora Bacteria (colonies/100ml)	0	--	24	0	--
Total Alkalinity (mg/l)	5.1	5.1	5.0	5.3	4.9
Total Suspended Solids (mg/l)	1.2	<0.4	3.2	<0.4	0.4
Total Dissolved Solids (mg/l)	72	75	69	84	77
Ammonia (mg/l) as N	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l) as N	0.069	0.031	0.024	0.026	0.016
Chloride (mg/l)	23	25	25	17	18
pH	6.4	6.5	6.7	6.6	6.5
Phosphate, Total (mg/l) as P	<0.01	<0.01	<0.01	<0.01	0.015
Dissolved Phosphate (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	105	105	103	78	78
Total Kjeldahl-Nitrogen (mg/l) as N	0.29	0.33	0.29	0.34	0.29

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Geoffrey Coelho, Manager

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CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
BOX 434
BARNSTABLE, MA 02630
Attn: DAVID WORDEN

Date 9/22/86
Job No. 84831-1
Lab No. 5062
Order No. BARNC-1

Material: WATER
Book No. 239-29 thru 31 AP
Specifications: None

Sample ID: 17 Water Samples @ Wequaquet, Bearse & Long Pond Date received: 9/8/86

	W-1A	W-1C	W-2A	W-2C	W-3A
Total Colifom Bacteria (colonies/100ml)	60	--	30	--	<10
Fecal Colifom Bacteria (colonies/100ml)	0	--	0	--	4
Total Alkalinity (mg/l)	5.7	5.1	5.6	5.6	5.1
Total Suspended Solids (mg/l)	2.0	0.8	<0.4	1.2	2.4
Total Dissolved Solids (mg/l)	51	45	21	49	25
Ammonia (mg/l) as N	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate (mg/l) as N	0.01	0.02	0.02	0.04	0.02
Chloride (mg/l)	18	17	17	17	17
pH	6.6	6.5	6.5	6.3	6.6
Phosphate, Total (mg/l) as P	0.02	0.02	0.01	0.02	<0.01
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Specific Conductance (umhos/cm)	78	77	77	77	78
Total Kjeldahl-Nitrogen (mg/l) as N	0.71	0.60	0.69	0.39	0.38

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CONAM INSPECTION A unit of Quincorp
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	W-3C	W-4A	W-4C	W-6 ~~W-5~~	W-5 ~~W-6~~
Total Colifora Bacteria (colonies/100ml)	--	<10	--	30	400
Fecal Colifora Bacteria (colonies/100ml)	--	0	--	1	0
Total Alkalinity (mg/l)	5.0	4.2	4.3	3.3	<1.0
Total Suspended Solids (mg/l)	1.2	<0.4	<0.4	6.8	0.4
Total Dissolved Solids (mg/l)	41	65	13	39	49
Ammonia (mg/l) as N	<0.010	<0.010	<0.010	0.036	<0.010
Nitrate (mg/l) as N	0.04	0.02	0.04	0.49	0.02
Chloride (mg/l)	17	18	16	28	18
pH	6.5	6.4	6.4	5.3	5.0
Phosphate, Total (mg/l) as P	<0.01	0.02	<0.01	0.09	0.11
Phosphate, Total Dissolved (mg/l)	<0.01	<0.01	<0.01	--	--
Specific Conductance (umhos/cm)	77	75	74	115	80
Total Kjeldahl-Nitrogen (mg/l) as N	0.37	0.36	0.38	0.33	0.80

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CONAM INSPECTION
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

duplicate of SH-2

	W-7	LP-1A	LP-1C	LP-2	LP-3	B-1A	B-1C
Total Coliform Bacteria (colonies/100ml)	400	70	--	--	<10	10	--
Fecal Coliform Bacteria (colonies/100ml)	0	4	--	--	0	0	--
Total Alkalinity (mg/l)	4.4	4.7	4.8	<1.0	4.5	5.3	5.5
Total Suspended Solids (mg/l)	0.6	4.7	1.8	2.0	24	0.6	0.8
Total Dissolved Solids (mg/l)	57	81	57	39	39	39	43
Ammonia (mg/l) as N	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate (mg/l) as N	0.04	0.04	0.03	0.02	0.03	<0.02	0.03
Chloride (mg/l)	19	25	25	17	26	17	18
pH	6.5	6.3	6.6	5.1	6.6	6.4	6.4
Phosphate, Total (mg/l) as P	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphate, Total Dissolved (mg/l)	--	<0.01	<0.01	--	--	<0.01	<0.01
Specific Conductance (umhos/cm)	75	015	105	68	104	76	76
Total Kjeldahl-Nitrogen (mg/l) as N	0.35	0.39	0.17	0.18	0.28	0.30	0.36

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
22ND DAY OF SEPTEMBER 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

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CONAM INSPECTION a unit of Quallcorp
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

IEP INC
6 MAPLE STREET
P O BOX 780
NORTHBORO MA 01532

DATE 10/17/86
JOB NO. 86093-1
LAB NO. 5205
ORDER NO. BARNC-1

MATERIAL: WATER
BOOK NO. 251-37-RH
SPECIFICATIONS: NONE

Sample ID: 16 Water Samples @ WEQUAQUET Date received: 9/29/86

	Total Caliform Bacteria (colonies/100ml)	Fecal caliform Bacteria (Colonies/100ml)
W-1A	0	0
W-2A	200	3
W-3A	60	5
W-4A	350	2
W-5	200	0
W-6	100	7
W-7	10	2
LP-1A	10	3
LP-3	500	400
W-1A	10	2

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CONAM INSPECTION A UNIT OF Dynacorp
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	W-1A	W-1C	W-2A	W-2C	W-3A	W-3C
pH	6.6	6.2	6.2	5.1	6.1	5.1
Total Alkalinity (mg/l)	5.6	5.1	5.2	5.2	4.3	5.0
Total Suspended Solids (mg/l)	2	6.4	34	1.2	2	2.4
Total Dissolved Solids (mg/l)	53	59	83	47	57	56
Chloride (mg/l)	21	22	17	17	17	17
Ammonia (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l)	0.019	0.015	0.020	0.016	0.022	0.315
Phosphate, Total (mg/l)	<0.01	0.013	<0.01	<0.01	<0.01	<0.01
Dissolved Phosphate (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Kjeldahl-Nitrogen (mg/l)	0.18	0.42	0.60	1.20	0.24	0.23
Specific Conductance (umhos/cm)	77	77	77	77	77	77

	W-4A	W-4C	W-5	W-6	W-7
pH	6.1	6.1	4.7	5.3	6.1
Total Alkalinity (mg/l)	3.4	3.2	<1.0	3.7	4.7
Total Suspended Solids (mg/l)	14	12	59	5.2	4.8
Total Dissolved Solids (mg/l)	104	59	105	91	72
Ammonia (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l)	<0.0125	0.022	0.022	0.049	0.014
Chloride (mg/l)	17	17	17	34	18
Phosphate, Total (mg/l)	0.014	<0.01	0.71	0.078	<0.01
Dissolved Phosphate (mg/l)	<0.01	<0.01	0.64	0.035	<0.01
Total Kjeldahl-Nitrogen (mg/l)	0.32	0.18	2.1	0.13	0.2
Specific Conductance (umhos/cm)	75	75	82	122	77

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CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

	LP-1A	LP-1C	LP-3	B-1A	B-1C
pH	6.2	6.2	6.4	6.1	6.2
Total Alkalinity (mg/l)	4.6	4.0	5.3	4.7	4.2
Total Suspended Solids (mg/l)	3.2	8	13.2	3.6	5.2
Total Dissolved Solids (mg/l)	91	49	57	60	88
Ammonia (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (mg/l)	0.030	0.020	0.020	<0.0125	<0.0125
Chloride (mg/l)	26	21	25	18	17
Phosphate, Total (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Dissolved Solids (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Total Kjeldahl-Nitrogen (mg/l)	1.52	0.71	0.198	0.36	1.22
Specific Conductance (umhos/cm)	106	107	107	77	77

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
17TH DAY OF OCTOBER 1986
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DIVISION OF CONAM INSPECTION

Geoffrey A. Coelho, Manager

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CONAM INSPECTION a unit of Quanex
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

REVISED LOW LEVEL T-ALKALINITY IN ug/l

LAB NO. 3719	REPORTED VALUE	ACTUAL VALUE
W-1A	11	4.6
W-1C	11	4.5
W-3	3.0	<1.0
W-4A	11	4.8
W-4C	12	5.1
W-5	12	4.9
W-6	12	5.0
W-7	13	5.7
B-1A	12	5.3
B-1C	12	5.4
LP-1 SURFACE	9.9	3.9
LP-1 INLET	8.0	3.2
LP-3	8.9	3.6
SH-1	1.7	<1.0
SH-2	2.1	<1.0
AB NO. 3861		
W-1A	13	5.6
W-1C	12	5.2
W-2A	11	4.7
W-2C	12	5.3
W-3A	11	4.4
W-3C	13	5.9
W-4A	12	5.3

LAB NO. 3861, CONT.	REPORTED VALUE	ACTUAL VALUE
W-4C	9.8	4.1
W-5	8.3	3.6
W-6	6.4	2.6
W-7	12	5.2
W-8	14	6.3
LP-1A	8.7	3.7
LP-1C	7.8	3.1
LP-2	12	4.9
LP-3	11	4.6
B-1A	11	4.0
B-1C	12	4.9
SH-1	1.7	<1.0
SH-2	2.4	<1.0
SH-3	1.7	<1.0
LAB. NO. 3990		
W-1A	16	6.8
W-1C	10	4.3
W-2A	10	4.3
W-2C	11	4.6
W-3A	11	5.2
W-3C	11	4.9
W-4A	11	4.9
W-4C	11	4.9

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CONAM INSPECTION a unit of Quadrex
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

LAB NO. 3990, CONT.	REPORTED VALUE	ACTUAL VALUE
W-5	<1.0	<1.0
W-6	5.1	2.0
W-7	11	4.9
LP-1A	7.2	2.6
LP-1C	9.0	3.8
LP-2	6.5	2.4
LP-3	9.0	3.8
B-1A	11	4.1
B-1C	11	4.1
SH-1	<1.0	<1.0
SH-2	<1.0	<1.0
SH-3	<1.0	<1.0
LAB NO. 4068		
W-1A	12	5.6
W-1C	12	5.6
W-2A	12	5.6
W-2C	12	5.5
W-3A	12	5.0
W-3C	11	4.8
W-4A	12	5.0
W-4C	12	5.0

LAB NO. 4068, CONT.	REPORTED VALUE	ACTUAL VALUE
W-5	7.8	2.9
W-6	9.6	4.0
W-7	12	5.4
LP-1A	9.9	4.2
LP-1C	11	5.1
LP-2	12	5.4
LP-3	7.9	3.4
B-1A	10	4.7
B-1C	10	4.8
LAB NO. 4069		
SH-1	<1.0	<1.0
SH-2	<1.0	<1.0
SH-3	<1.0	<1.0
LAB NO. 4138		
W-1A	11	4.5
W-1C	13	5.4
W-2A	11	5.4
W-2C	12	5.4
W-3A	12	5.5
W-3C	12	5.6
W-4A	11	5.2

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Arnold Greene Testing Laboratories

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(617) 235-7330, 653-5950
Telex 948459 GREENELAB NTIK

CONAM INSPECTION

Nondestructive • Chemical • Pollution • Metallurgical
Inspection • Evaluation • Analysis
Research • Development

Branch Laboratories:
Springfield, Mass. 01109
(413) 734-6548

Auburn, Mass. 01501
(617) 832-5500

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LAB NO. 4138, CONT.	REPORTED VALUE	ACTUAL VALUE
W-4C	11	4.9
W-5	<1.0	<1.0
W-6	8.5	3.4
W-7	14	6.3
W-8	9.0	3.6
LP-1A	11	4.5
LP-1C	11	4.1
LP-2	11	4.7
LP-3	9.3	4.1
B-1A	12	5.1
B-1C	11	5.1
LAB NO. 4139		
SH-1	<1.0	<1.0
SH-2	1.0	<1.0
SH-3	1.0	<1.0
LAB NO. 4228		
W-1A	12	5.1
W-1C	11	4.9
W-2A	12	5.0
W-2C	12	5.3
W-3A	12	5.5
W-3C	11	4.9

LAB NO. 4228, CONT.	REPORTED VALUE	ACTUAL VALUE
W-4A	11	4.6
W-4C	12	5.1
W-5	2.1	<1.0
W-6	6.2	2.6
W-7	10	4.5
W-8	10	4.9
LP-1A	10	4.6
LP-1C	9.5	4.4
LP-2	12	5.4
LP-3	11	5.0
B-1A	13	6.0
B-1C	12	5.6
LAB NO. 4229		
SH-1	<1.0	<1.0
SH-2	<1.0	<1.0
SH-3	<1.0	<1.0
LAB NO. 4322		
W-1A	12	5.7
W-1C	11	5.4
W-2A	11	5.4
W-2C	11	5.4
W-3A	12	5.9

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LAB NO. 4322, CONT.	REPORTED VALUE	ACTUAL VALUE
W-3C	11	5.4
W-4A	11	5.0
W-4C	11	5.4
W-5	<1.0	<1.0
W-6	1.3	<1.0
W-7	11	5.0
LP-1A	9.2	4.3
LP-1C	10	4.6
LP-2	10	4.9
LP-3	9.2	4.4
B-1A	12	5.6
B-1C	12	5.7
LAB NO. 4323		
SH-1	<1.0	<1.0
SH-2	1.3	<1.0
SH-3	<1.0	<1.0
LAB NO. 4395		
W-1A	12	5.4
W-1C	12	5.6
W-2A	11	5.2
W-2C	12	5.4
W-3A	12	5.4

LAB NO. 4395, CONT.	REPORTED VALUE	ACTUAL VALUE
W-3C	12	5.9
W-4A	12	5.6
W-4C	11	5.3
W-5	<1.0	<1.0
W-6	7.9	3.6
W-7	5.4	5.2
W-8	8.8	4.0
LP-1A	10	5.1
LP-1C	10	5.1
LP-2	12	5.9
LP-3	12	5.5
B-1A	12	6.0
B-1C	12	6.0
LAB NO. 4396		
SH-1	<1.0	<1.0
SH-2	1.1	<1.0
SH-3	<1.0	<1.0
LAB NO. 4476		
W-1A	11	5.0
W-1C	11	5.0
W-2A	11	5.0
W-2C	12	5.6

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CONAM INSPECTION A UNIT OF Dynalectron
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LAB NO. 4476, CONT.	REPORTED VALUE	ACTUAL VALUE
W-3A	12	5.9
W-3C	12	5.9
W-4A	11	5.4
W-4C	11	5.3
W-5	0	0
W-6	7.9	3.6
W-7	11	5.3
LP-1A	11	4.9
LP-1C	9.8	4.5
LP-2	11	5.2
LP-3	10	4.8
B-1A	11	5.5
B-1C	11	5.5
LAB NO. 4477		
SH-1	<1.0	<1.0
SH-2	<1.0	<1.0
SH-3	<1.0	<1.0
LAB NO. 4570		
W-1A	13	5.9
W-1C	13	5.9
W-2A	13	6.1
W-2C	13	6.1

LAB NO. 4570, CONT.	REPORTED VALUE	ACTUAL VALUE
W-3A	13	5.8
W-3C	14	6.5
W-4A	12	5.4
W-4C	12	5.4
W-5	0	0
W-6	4.5	1.6
W-7	12	5.6
W-8	13	5.7
LP-1A	14	6.5
LP-1C	13	6.2
LP-2	12	5.4
LP-3	13	6.2
B-1A	15	7.8
B-1C	14	6.8
LAB NO. 4571		
SH-1	1.2	<1.0
SH-2	1.4	<1.0
SH-3	1.6	<1.0
LAB NO. 4656		
W-1A	12	5.8
W-1C	11	5.1
W-2A	11	5.1

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CONAM INSPECTION A unit of Dynalectron
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LOW LEVEL T-ALK.

LAB NO. 4656, CONT.	REPORTED VALUE	ACTUAL VALUE
W-2C	12	5.2
W-3A	12	5.2
W-3C	12	5.5
W-4A	12	5.9
W-4C	12	5.6
W-5	--	<1.0
W-6	11	5.2
W-7	11	5.4
LP-1A	15	7.1
LP-1C	12	5.9
LP-2	13	6.3
LP-3	13	6.3
B-1A	13	6.2
B-1C	13	6.2
LAB NO. 4657		
SH-1	2.1	<1.0
SH-2	0.8	<1.0
SH-3	1.6	<1.0
LAB NO. 4732		
W-1A	12	5.6
W-1C	11	5.1
W-2A	11	5.3

LAB NO. 4732, CONT.	REPORTED VALUE	ACTUAL VALUE
W-2C	12	5.3
W-3A	12	5.5
W-3C	12	5.3
W-4A	12	5.4
W-4C	11	5.5
W-5	0	0
W-6	7.6	3.2
W-7	12	5.5
W-8	17	7.7
LP-1A	11	5.5
LP-1C	12	5.9
LP-3	12	6.8
B-1A	11	5.3
B-1C	12	5.4
LAB NO. 4733		
SH-1	1.6	<1.0
SH-2	0.77	<1.0
SH-3	0.82	<1.0

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– from K-Y A
8 April 1986.

results as ug/l (ppb)

WEQUAQUET POND

		W-1a	W-2a	W-3a	W-4
Oct. 24, 1985	chlorophyll a	.28 ppb	1.67	1	.5
	Phaeophyton	.33	-	.89	.44
Nov. 25, 1985	Chlorophyll a	1.44	1.42	.62	.37
	Phaeophyton	1.51	1.21	.63	.38
Dec. 30, 1985	Chlorophyll a	.51	NS	NS	.28
	Phaeophyton	.6	-	-	.31
Jan. 29, 1986	Chlorophyll a	1.28	1.18	1.05	.97
	Phaeophyton	1.38	1.21	1.2	1.24
Feb. 24, 1986	Chlorophyll a	2.9	2.6	1.9	1.3
	Phaeophyton	2.0	-	1.4	1.3
Mar. 10, 1986	Chlorophyll a	2.18	1.62	.59	1.64
	Phaeophyton	2.37	1.78	.62	1.64

SHALLOW POND

		SH-1	SH-2	SH-3	LP-1A	B-1a
Oct. 24, 1985	Chlorophyll a	.39	.44	1.3	.83	.86
	Phaeophyton	.39	.39	1.4	.77	.58
Nov. 25, 1985	Chlorophyll a	.24	.29	.41	.50	.57
	Phaeophyton	.31	.29	.41	.66	.55
Dec. 30, 1985	Chlorophyll a	3.8	.55	.4	.5	.65
	Phaeophyton	4.2	.65	.5	.55	.8
Jan. 29, 1986	Chlorophyll a	2.49	3.62	.49	1.12	2.53
	Phaeophyton	3.07	4.22	.67	1.4	2.81
Feb. 24, 1986	Chlorophyll a	2.8	1.2	1.06	1.2	2.6
	Phaeophyton	2.0	1.2	-	1.4	2.2
Mar. 10, 1986	Chlorophyll a	2.65	1.16	.32	.45	2.43
	Phaeophyton	3.08	1.46	.45	.57	2.43

result after acidification of sample used to determine chloro. "a"

$$\frac{OD_{663\ (664)}\ \text{pure chloro. "a"}}{OD_{663\ (665)}\ \text{after acid treatment}\ (40\%\ \text{reduction in } OD_{663})} = 1.7$$

DEC 1 1986

K-V ASSOCIATES, INC.
ANALYTICAL SYSTEMS

281 MAIN STREET • P.O. BOX 574 • FALMOUTH, MASSACHUSETTS 02541 • 617-540-0561

November 26, 1986

IEP
Box 434
Barnstable, Ma. 02630
ATT: Dave Worden

Dear Dave:

Enclosed are the second set of chlorophyll a data for the Barnstable ponds. I have given you results for total chlorophyll a, uncorrected for phaeophyton, and the acidified result, which is a phaeophyton measure. Phaeophyton is the product degraded chlorophyll and is frequently subtract-racted from the total chl a to yield an "active" chl a value.

When the phaephyton quantity approaches the total chl a quantity, the "active" chl a is reduced to very low levels which is probably not representative of field conditions. Several factors can account for such high phaeophyton levels: one is grazing by zooplankton, especially in sample bottles, which in our case often sat for a day before filtering and preservation. Another likely factor is changes is species composition of the phytoplankton community. Different species contain different ratios of chl a , b and c which may affect the interpretation of high phaepohyton levels. Poor water quality can also yield a low level chl a/phaeophyton ratio. The American Public Health Standard Methods from 1971 states that a healthy ratio is 1.7, which is about what pure spinach chl a (our standard) provides.

If you have any questions please call.

Sincerely,

Sarah Allen

Sarah Allen

SA/lf
encl.

Chlorophyll a data for Wequaquet, Shallow, Bearse, and Long Pond (values are mg/l)

		W-1	W-2	W-3	W-4	S-1	S-2	S-3	LP	B
3-26-86	chla	3.46	3.88	7.66	8.51	2.12	3.40	3.40	3.35	4.68
	acid	3.19	4.68	6.80	8.51	2.66	4.47	4.47	3.24	4.47
4-8-86	chla	4.79	3.94	3.45	3.90	0.94	0.64	0.67	1.21	7.57
	acid	2.79	3.15	2.40	3.39	0.82	0.59	0.61	0.88	3.30
4-22-86	chla	6.60	7.10	7.30	5.10	2.80	2.10	0.70	3.30	9.40
	acid	5.00	3.60	5.10	3.20	2.70	1.80	0.60	2.20	5.80
5-5-86	chla	3.60	3.20	6.0	1.50	0.93	0.93	0.53	4.60	2.50
	acid	1.93	10.50	3.30	1.00	0.83	0.70	0.43	3.0	1.70
5-20-86	chla	3.52	2.10	1.70	1.30	1.55	1.42	1.29	2.45	1.16
	acid	2.64	1.55	1.35	0.90	1.32	1.29	1.26	1.70	0.80
6-10-86	chla	4.56	4.75	6.32	4.75	6.19	6.67	8.89	2.75	5.12
	acid	2.94	2.87	4.04	3.87	5.50	6.60	8.26	2.00	3.37
6-24-86	chla	1.78	2.35	1.50	2.63	1.78	2.35	4.18	4.36	1.21
	acid	1.50	2.18	1.25	1.41	1.50	2.18	3.93	2.93	0.93
7-8-96	chla	4.30	1.75	2.06	1.48	6.48	3.45	5.6	1.54	2.10
	acid	4.33	1.75	1.97	1.33	6.06	3.24	5.03	1.26	1.74
7-21-86	chla	1.12	1.12	1.51	1.85	6.36	0.57	4.44	2.54	2.20
	acid	1.12	1.14	1.42	1.97	6.67	0.48	5.18	2.50	1.51
8-4-86	chla	3.63	1.74	2.03	2.45	5.75	2.60	5.45	4.35	3.94
	acid	3.63	1.63	2.06	2.48	5.75	2.54	5.60	4.70	1.79
8-19-86	chla	4.42	3.86	1.95	4.84	6.18	7.62	5.46	2.92	3.29
	acid	2.68	2.41	1.61	2.65	4.33	5.46	3.84	2.58	3.58
9-9-86	chla	4.75	4.90	2.97	3.19	3.40	4.74	2.59	5.67	3.01
	acid	2.42	2.54	1.37	1.86	2.42	4.33	1.47	3.30	1.64
9-30-86	chla	4.21	3.73	1.68	1.6	0.65	1.84	0.50	4.84	5.75
	acid	2.23	1.88	0.94	0.85	0.46	1.06	0.33	2.26	2.94

APPENDIX B - Storm Runoff Analyses

Arnold Greene Testing Laboratories

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CONAM INSPECTION A UNIT OF Quincy
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 9/9 /86

Job No. 84564-1

Lab No. 5018

Order No. BARNC-1 (storm runoff)

Material: WATER

Book No. 239-26-AP

Specifications: None

Sample ID: 6 Water Samples @ Barnc-1 Date received: 8/27/86

	WS-1	WS-2	WS-4	W-6	LP-1	LP-2
Total Colifora Bacteria (colonies/100ml)	1000	7000	4000	3000	2000	2000
Fecal Colifora Bacteria (colonies/100ml)	<10	<10	<10	<10	<10	40
Total Suspended Solids (mg/l)	284	84	67	34	46	20
Total Dissolved Solids (mg/l)	90	42	95	69	111	59
Ammonia (mg/l) as N	0.68	0.48	0.48	0.24	1.0	0.48
Nitrate (mg/l) as N	0.86	1.2	1.4	1.0	2.2	0.80
Chloride (mg/l)	17	13	32	31	18	16
Phosphate, Total (mg/l) as P	0.17	0.02	0.16	0.07	0.16	0.08
Total Kjeldahl-Nitrogen (mg/l) as N	3.8	2.1	4.1	0.91	5.0	1.6
Oil & Grease (mg/l)	--	--	<1.0	5.2	8.0	6.1
TOTAL METALS (mg/l)						
Cadmium	0.08	0.04	0.08	0.02	0.05	<0.02
Chromium	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	0.07	0.02	0.02	<0.02	0.05	0.03
Iron	5.2	1.3	0.69	0.33	2.6	1.4
Lead	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Manganese	0.16	0.12	0.19	0.09	0.08	0.06
Zinc	0.55	0.14	0.12	0.03	0.28	0.11

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
9TH DAY OF SEPTEMBER 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Manager

RECEIVED 12 1986

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780
NORTHBORO, MA 01532
Att

Date 11/21/86
Job No. 87815-1
Lab No. 5420
NOVO.NO5, P.1
Order No. BARNC-1

Material: WATER
Book No. 255 39 AP

NOV 26 1986

(Storm runoff)

Sample ID: 15 Water Samples @ Wequaquet Lake Date received: 11/11/86

	LP-1	LP-2	LP-3	LP-4	LP-5	LP-6	LP-7	LP-8
Total Coliform Bacteria (colonies/100ml)	>6000	>6000	>6000	>6000	>6000	>6000	>6000	>6000
Fecal Coliform Bacteria (colonies/100ml)	>6000	>6000	>6000	>6000	>6000	>6000	>6000	>6000
Oil & Grease (mg/l)	1.4	4.4	8.0	9.4	4.2	2.8	3.6	4.0
Total Suspended Solids (mg/l)	111	35	79	92	67	48	44	51
Total Dissolved Solids (mg/l)	280	139	73	96	59	57	52	69
Ammonia (mg/l) as N	0.230	0.250	0.130	0.067	0.250	0.067	0.066	0.067
Nitrate (mg/l) as N	0.40	0.32	0.35	0.30	0.38	0.30	0.24	0.24
Chloride (mg/l)	2.8	2.4	2.4	5.3	1.1	<0.5	<0.5	.28
Phosphate, Total (mg/l) as P_3	0.28	0.16	0.13	0.14	0.60	0.11	0.13	0.20
Total Kjeldahl-Nitrogen (mg/l) as N	2.2	1.3	0.83	1.4	1.7	0.56	0.43	0.76

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California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Date 11/21/86

Job No. 87815-1

Lab No. 5420
NOVO.W05, P.3

Order No. BARNC-1

Material: WATER

Book No. 255 41 AP

Specifications: None

PAGE 2

	LP-9	LP-10	W-1A	W-1B	W-1C
Total Coliform Bacteria (colonies/100ml)	>6000	>6000	>6000	>6000	>6000
Fecal Coliform Bacteria (colonies/100ml)	>6000	>6000	>6000	>6000	>5500
Oil & Grease (mg/l)	6.2	5.6	2.4	1.6	1.8
Total Suspended Solids (mg/l)	76	116	31	9.3	52
Total Dissolved Solids (mg/l)	57	51	45	39	24
Ammonia (mg/l) as N	0.064	0.07	0.09	<0.01	<0.01
Nitrate (mg/l) as N	0.21	0.23	0.12	0.08	0.10
Chloride (mg/l)	<0.5	1.1	1.1	<0.5	2.0
Phosphate, Total (mg/l) as P_3	0.22	0.30	0.25	0.06	0.13
Total Kjeldahl-Nitrogen (mg/l) as N	0.67	0.93	1.1	0.34	0.43

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Arnold Greene Testing Laboratories

East Natick Industrial Park
6 Huron Drive • Natick, MA 01760
(617) 235-7330, 653-5950
Telex 948459 GREENELAB NTIK

CONAM INSPECTION

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Auburn, Mass. 01501 (617) 832-5500

CONAM INSPECTION A UNIT OF QUALCORP
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

o: IEP INC.
4 MAPLE STREET
OX 780

NORTHBORO, MA 01532

AG 3

Date 11/21/86

Job No. 87815-1

Lab No. 5420
NOVO.W05, P.4

Order No. BARNC-1

Material: WATER

Book No. 255 41 AP

Specifications: None

	LP COMPOSITE	W COMPOSITE
Total mg/l		
Cadmium	<0.02	<0.02
Chromium	<0.02	<0.02
Copper	0.04	0.02
Iron	3.8	0.80
Lead	<0.10	<0.10
Manganese	0.06	0.03
Zinc	0.09	0.03

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
21ST DAY OF NOVEMBER 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey A. Coelho, Manager

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GHR ANALYTICAL, INC.
26 MAIN STREET
LAKEVILLE, MA 02347
(617) 947-5077

JAN 29 1987

REPORT OF ANALYSIS

Client: IEP, Inc.
Project: BARNC-1

Job No: 32-349
Date: January 22, 1987

Date Collected: January 2, 1987
Collected by: M. Nelson

Sample Location:	W-6 Storm Run Off	Detection Limit
GHR Lab ID:	63119	
Parameter	Test Results in mg/l (unless noted otherwise)	
pH (pH Units)	4.4	
Alkalinity	BDL (2)	5
Specific Conductance (1)	62	
Nitrate as N	0.09	
Ammonia as N	0.11	
Total Kjeldahl Nitrogen	0.92	
Chloride	10.9	
Oil & Grease	BDL	5
Total Phosphate as P	0.02	
Solids:		
Total Dissolved	22	
Total Suspended	8	

(1) Specific Conductance in umhos/cm.
(2) BDL = Below Detection Limit.

Approved by: Stephen O'Neil
Stephen O'Neil, Assistant Laboratory Director
GHR Analytical, Inc.

GHR ANALYTICAL, INC.
26 MAIN STREET
LAKEVILLE, MA 02347
(617) 947-5077

REPORT OF ANALYSIS

Client: IEP, Inc.
Project: BARNC-1

Job No: 32-349
Date: January 22, 1987

Date Collected: January 2, 1987
Collected by: M. Nelson

Sample Location:	W-6 Storm Run Off	Detection Limit
GHR Lab ID:	63119	

Parameter	Test Results in mg/l (unless noted otherwise)	
Cadmium	BDL (1)	0.010
Chromium	BDL	0.05
Copper	BDL	0.02
Iron	0.68	
Lead	0.004	
Manganese	0.06	
Zinc	BDL	0.02
Total Coliform (2)	1,300	
Fecal Coliform (2)	20	

(1) BDL = Below Detection Limit.
(2) Total and Fecal Coliform/100 ml MPN.

Approved by: Stephen O'Neil
Stephen O'Neil, Assistant Laboratory Director
GHR Analytical, Inc.

APPENDIX C - Sediment Analyses and the Sediment Pollution Index

Arnold Greene Testing Laboratories

East Natick Industrial Park
6 Huron Drive • Natick, MA 01760
(617) 235-7330, 653-5950
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Auburn, Mass. 01501 (617) 832-5500

CONAM INSPECTION A UNIT OF Dillcorp
California, Texas, Illinois, Pennsylvania, Minnesota, Ohio

To: IEP INC.
6 MAPLE STREET
BOX 780

NORTHBORO, MA 01532

Attn:

Date 3/6 /86

Job No. 76761-1

Lab No. 4017A

Order No. BARNC-1

Material: SEDIMENT

Book No. 201-6 RH

Specifications: None

Sample ID: 6 ~~Water~~ Sediment Samples @ Nequaquet, Bearse & Long Pond Date received: 2/27/86

	N-1	N-2	N-3	N-4	BP-1	LP-1
Total Volatile Solids (%)	10.1	4.25	11.5	12.7	21.2	11.1
Nitrate (mg/kg) as N	14	2.60	9.4	21	15	17
Phosphate, Total (mg/kg) as P	32	21	88	4.97	943	45
Total Kjeldahl-Nitrogen (mg/kg) as N	6620	115	6760	8340	11700	10600
TOTAL (mg/kg):						
Cadmium	<10	<4.7	<9.1	<9.4	<13	<18
Chromium	20	<4.7	9.1	<9.4	25	26
Copper	36	17	23	19	25	61
Iron	15100	6390	11800	9340	12500	14800
Lead	102	47	91	47	64	220
Manganese	137	66	87	75	147	79
Zinc	117	47	82	71	76	184

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS
6TH DAY OF MARCH 1986
ARNOLD GREENE TESTING LABORATORIES
DIVISION OF CONAM INSPECTION

Geoffrey Coelho, Lead Chemist

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FORMULA AND CALCULATION OF THE SEDIMENT POLLUTION INDEX (SPI)

The SPI is given by the following formula (McGinn, 1981):

$$SPI = 1/N \sum \bar{C}_i / CN_i$$

where N = total number of metals included in calculating the SPI

$\bar{C}_i$ = average concentration of metal i

CN_i = Clarke Number of metal i

In calculating the SPI for the Wequaquet Lakes, the metal concentration from a single sample at each station was sustituted for the average concentration ($\bar{C}_i$) specified in the above formula. Cadmium was not included in the SPI for the Wequaquet Lakes because only maximum levels and not absolute concentrations were measurable in laboratory analysis. Chromium was left out of the SPI calculations for stations W-2 and W-4 for the same reason. Below is the SPI formula with the appropriate values inserted for each station:

W-1 SPI = 1/4 (20/100 + 36/55 + 102/12.5 + 117/70)
= 2.67

W-2 SPI = 1/3 (17/55 + 47/12.5 + 47/70)
= 1.56

W-3 SPI = 1/4 (9.1/100 + 23/55 + 91/12.5 + 82/70)
= 2.24

W-4 SPI = 1/3 (19/55 + 47/12.5 + 71/70)
= 1.69

Bearse SPI = 1/4 (25/100 + 25/55 + 64/12.5 + 76/70)
= 1.73

Long SPI = 1/4 (26/100 + 61/55 + 220/12.5 + 184/70)
= 5.40

APPENDIX D - Hydrologic and Nutrient Budgets

IEP inc.
6 Maple Street
Northborough, MA 01532
393-8558

Client _____ Job No. BARNC-1 Sheet 1 of 2

Subject Hydrologic Budget By _____ Date _____

Wequaquet/Bearse system Ckd. _____ Rev. _____

INPUTS (annual)

a.) direct precipitation

amount of precipitation during year of study = 41.31 inches (NOAA)
= 1.05 m

Surface area of Wequaquet/Bearse = 258.4 ha

(1.05 m)(258.4 ha) = 2,713,200 m^3

b.) ground water inflow

amount of recharge per year = 18 inches (LeBlanc et al, 1986)
= 0.46 m

Surface area of recharge area = 323.0 ha

(0.46 m)(323.0 ha) = 1,485,800 m^3

c.) surface runoff/storm drains

calculated as a residual assuming no change in storage = 273,342 m^3

Total Inputs = 4,492,342 m^3/year

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Northborough, MA 01532
393-8558

Client _____ Job No. 3ARNC-1 Sheet 2 of 2

Subject Hydrologic Budget By _____ Date _____

Wequoquet / Bearse System Ckd. _____ Rev. _____

LOSSES (annual)

a.) herring run outlet

average discharge rate on a year-round basis = 6,159.87 m^3/day (K-V)

(6,159.87 m^3/day)(365 days) = 2,248,354 m^3

b.) evaporation

amount of evaporation per year = 25 inches (Dunne and Leopold, 1978)
= 0.635 m

surface area of Wequaquet/Bearse = 258.4 ha

(0.635 m)(258.4 ha) = 1,640,840 m^3

c.) ground water outflow

amount of ground water outflow = 603,148 m^3 (K-V)

Total Losses = 4,492,342 m^3/year

IEP inc
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Northborough, MA 01532
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Client _____ Job No. BARNC-1 Sheet 1 of 2

Subject Hydrologic Budget Long Pond By _____ Date _____

Ckd. _____ Rev. _____

INPUTS (annual)

a.) herring run inlet

identical to discharge from Wequaquet/Bearse = 2,248,354 m^3

b.) direct precipitation

amount of precipitation during year of study = 41.31 inches (NOAA)
= 1.05 m

surface area of Long Pond = 19.8 ha

(1.05 m)(19.8 ha) = 207,900 m^3

c.) ground water inflow

amount of ground water inflow = 354,719 m^3 (K-V)

d.) surface runoff/storm drains

assumed to be negligable

Total Inputs = 2,810,973 m^3/year

IEP inc.
6 Maple Street
Northborough, MA 01532
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Client _____ Job No. BARNC-1 Sheet 2 of 2

Subject Hydrologic Budget Long Pond By _____ Date _____

Ckd. _____ Rev. _____

LOSSES (annual)

a.) herring run outlet

calculated as a residual assuming no change in storage = 2,288,755 m^3

b.) evaporation

amount of evaporation per year = 25 inches (Dunne and Leopold, 1978)

= 0.635 m

surface area of Long Pond = 19.8 ha

(0.635 m)(19.8 ha) = 125,730 m^3

c.) ground water outflow

amount of ground water outflow = 396,488 m^3 (K-V)

Total Losses = 2,810,973 m^3/year

IEP inc.
6 Maple Street
Northborough, MA 01532
393-8558

Client Barnstable Job No. BARNC-1 Sheet 1 of 6

Subject Nutrient budget — Sources By DW Date

Wequaquet / Bearse system Ckd. Rev.

1.) Surface Inputs

a.) direct precipitation

areal loading rate = 0.35 kg P/ha/yr

(median value for annual bulk deposition of phosphorus documented in Scheider, Snyder, and Clark, 1979)

area of Wequaquet / Bearse = 258.4 ha

$(0.35\ kg\ P/ha/yr)(258.4\ ha) = \underline{\underline{90.4\ kg\ P/yr}}$

b.) station 5 cranberry bog

volume of water use per year = 2 acre-ft per unit area of bog
(Dr. Karl Deubert, Cranberry Expt. Station)

area of cranberry bog = 7.7 acres

median P concentration observed during study = 0.22 mg/L

$(2\ acre\text{-}ft)(7.7\ acres) = 15.4\ acre\text{-}ft$

$(15.4\ acre\text{-}ft)(1{,}233.5\ m^3/acre\text{-}ft) = 18{,}995.9\ m^3$

$(18{,}995.9\ m^3)(0.00022\ kg\ P/m^3) = \underline{\underline{4.2\ kg\ P}}$ (annual load)

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Client Barnstable Job No. BARNC-1 Sheet 2 of 6
Subject Nutrient budget – Sources By DW Date
Wequaquet/Bearse system Ckd. Rev.

c.) waterfowl/gulls

loading = 90 g P/animal/yr (data for domestic ducks; Shannon and Brezonik, 1972)

waterfowl/gull population = 100 (estimated from observations during year of study)

(90 g P/animal/yr)(100 animals) = 9000 g P/yr

= 9 kg P/yr

d.) shoreline lawns

loading = 0.5 lb P per 3,000 square feet of lawn area annually (K-V Associates)

total shoreline lawn area = 106,800 ft² (K-V Associates)

(106,800 ft²)(0.5 lb P/3,000 ft²) = 17.8 lb P

= 8.1 kg P (annual load)

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Client Barnstable | Job No. BARNC-1 | Sheet 3 of 6
Subject Nutrient budget – sources | By DW | Date
Wequaquet/Bearse system | Ckd. | Rev.

e.) Storm drains (1.05 meters of precipitation during year of study)

Station WS-1 median phosphorus value = 0.17 mg/L

$(3{,}680\ m^2)(1.05\ m)(0.17\ g/m^3) = 657\ g = 0.66\ kg$

Station WS-2 median phosphorus value = 0.02 mg/L

$(583\ m^2)(1.05\ m)(0.02\ g/m^3) = 12\ g = 0.01\ kg$

Station WS-4 median phosphorus value = 0.16 mg/L

$(584\ m^2)(1.05\ m)(0.16\ g/m^3) = 98.1\ g = 0.10\ kg$

total = 0.77 ≅ 0.8 kg P/yr

f.) Oak Street culvert system

storm sampled 2-January, 1987

amount of precipitation received after system had reached maximum capacity = 2.45 inches

area of culvert system drainage basin = 466 acres

$(2.45\ inches)(1\ ft/12\ inches)(466\ ac) = 95.14$ acre-ft of runoff

$= 117{,}355\ m^3$ total volume of discharge

phosphorus concentration of discharge = 0.02 mg/L

load of phosphorus from the above storm discharge $= (117{,}355\ m^3)(0.02\ g/m^3)$

$= 2347\ g$

$\cong 2.3\ kg$

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Client Barnstable Job No. BARNC-1 Sheet 4 of 6
Subject Nutrient budget – Sources By DW Date
Wequaquet/Bearse system Ckd. Rev.

2.) Ground Water Inputs

a.) background flow into Main, Bearse, Gooseberry, and South basins:

volume of inflow = 1,456,518 m^3/yr (K-V)

background level of P in ground water = 0.05 mg/L

(Frimpter and Gay, 1979)

$(1{,}456{,}518\ m^3/yr)(0.00005\ kg/m^3) = \underline{72.8\ kg/yr}$

b.) inflow from Bearse Pond cranberry bog

volume of inflow = 29,282 m^3/yr (K-V)

concentration of P in ground water = 0.092 mg/L (K-V)

$(29{,}282\ m^3/yr)(0.000092\ kg/m^3) = \underline{2.7\ kg/yr}$

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Client Barnstable Job No. BARNC-1 Sheet 5 of 6
Subject Nutrient budget — sources By DW Date
Wequaquet/Bearse system Ckd. Rev.

c.) projected input from "near field" septic systems at "equilibrium" conditions (K-V, see Section 4.0)

number of developed lots within 300 feet of shoreline = 231
phosphorus loading per dwelling within 300 feet of shoreline = 0.75 lb/yr
(231 dwellings)(0.75 lb P/yr) = 173.3 lb P/yr = 78.8 kg P/yr

d.) projected input from "far field" septic systems at "equilibrium" conditions (K-V, see Section 4.0)

number of developed lots beyond 300 feet of shoreline = 445
phosphorus load = 6.0 kg/yr

Total P Inputs (existing conditions) = 190.3 kg/yr

Total P Inputs ("equilibrium" conditions) = 275.1 kg/yr

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393-8558

Client Barnstable Job No. BARNC-1 Sheet 6 of 6
Subject Nutrient budget — losses By DW Date
Wequaquet / Bearse system Ckd. Rev.

Losses

a.) herring run outlet (station W-7)

volume of discharge = 2,248,354 m^3/yr (K-V Associates)

median P concentration observed during study = 0.025 mg/L

(2,248,354 m^3/yr)(0.000025 kg/m^3) = 56.2 kg/yr

b.) ground water outflow

volume of outflow = 603,148 m^3/yr (K-V Associates)

background level of P in ground water = 0.05 mg/L
(Frimpter and Gay, 1979)

(603,148 m^3/yr)(0.00005 kg/m^3) = 30.2 kg/yr

c.) sedimentation

P lost to sediments = (surface inputs + ground water inputs) − (surface losses + ground water losses)

= (114.8 kg + 75.5 kg) − (56.2 kg + 30.2 kg)

= 190.3 kg − 86.4 kg

= 103.9 kg (retained in system annually)

IEP inc.
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Client Barnstable Job No. BARNC-1 Sheet 1 of 4
Subject Nutrient budget — Sources By DW Date
Long Pond Ckd. Rev.

1.) Surface Inputs

a.) herring run (from Wequaquet)

volume of discharge = 2,248,354 m^3/yr (K-V Associates)

median P concentration observed during study = 0.025 mg/L

(2,248,354 m^3/yr)(0.000025 kg/m^3) = 56.2 kg/yr

b.) direct precipitation

aeral loading rate = 0.35 kg P/ha/yr

(median value for annual bulk deposition of phosphorus documented in Scheider, Snyder, and Clark, 1979)

area of Long Pond = 19.8 ha

(0.35 kg P/ha/yr)(19.8 ha) = 6.9 kg P/yr

c.) waterfowl/gulls

loading = 90 g P/animal/yr (data for domestic ducks; Shannon and Brezonik, 1972)

waterfowl/gull population = 20 (estimated from observations during year of study)

(90 g P/animal/yr)(20 animals) = 1.8 kg/yr

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Client Barnstable Job No. BARNC-1 Sheet 2 of 4
Subject Nutrient Budget – sources By DW Date
Long Pond Ckd. Rev.

d.) shoreline lawns

loading = 0.5 lb P per 3,000 sq. feet of lawn area annually (K-V Associates)

total shoreline lawn area = 39,400 ft^2 (K-V Associates)

$(39{,}400\ ft^2)(0.5\ lb\ P / 3{,}000\ ft^2) = 6.6\ lb\ P$

$= 3.0\ kg\ P$ (annual load)

e.) storm drains (1.05 meters of precipitation during year of study)

station LPS-1 median phosphorus value = 0.20 mg/L

$(5{,}145\ m^2)(1.05\ m)(0.20\ g/m^3) = 1{,}080\ g = 1.1\ kg$

station LP-2 median phosphorus value = 0.08 mg/L

$(5{,}542\ m^2)(1.05\ m)(0.08\ g/m^3) = 466\ g = 0.47\ kg$

total = $1.57 \cong 1.6\ kg\ P/yr$

2.) Ground Water Inputs

a) background flow

volume of inflow = 354,719 m^3/yr (K-V Associates)

background level of P in ground water = 0.05 mg/L (Frimpter and Gay, 1979)

$(354{,}719\ m^3/yr)(0.00005\ kg/m^3) = 17.7\ kg/yr$

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Client Barnstable Job No. BARNC-1 Sheet 3 of 4
Subject Nutrient Budget – Sources By DW Date
Long Pond Ckd. Rev.

b.) projected input from "near field" septic systems at "equilibrium" conditions (K-V, see Section 4.0)

number of developed lots within 300 feet of shoreline = 40

phosphorus loading per dwelling within 300 feet of shoreline = 0.75 lb P/yr

(40 dwellings)(0.75 lb P/yr) = 30.0 lb P/yr

= 13.6 kg P/yr

c.) projected input from "far field" septic systems at "equilibrium" conditions (K-V)

number of developed lots beyond 300 feet of shoreline = 188

phosphorus load (see Section 4.0) = 3.1 kg P/yr

Total P Inputs (existing conditions) = 87.2 kg/year

Total P Inputs ("equilibrium" conditions) = 103.9 kg/year

IEP inc.
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Northborough, MA 01532
393-8558

Client Barnstable Job No. BARNC-1 Sheet 4 of 4
Subject Nutrient Budget – losses By DW Date
Long Pond Ckd. Rev.

Losses

a.) herring run outlet (station LP-3)

volume of discharge = 2,288,755 m^3/yr

median P concentration observed during study = 0.02 mg/L

(2,288,755 m^3/yr)(0.00002 kg/m^3) = 45.8 kg/yr

b.) ground water outflow

volume of outflow = 396,488 m^3/yr (K-V Associates)

background level of P in ground water = 0.05 mg/L
(Frimpter and Gay, 1979)

(396,488 m^3/yr)(0.00005 kg/m^3) = 19.8 kg/yr

c.) sedimentation

P lost to sediments = (surface inputs + ground water inputs) – (surface losses + ground water losses)

= (69.5 kg + 17.7 kg) – (45.8 kg + 19.8 kg)

= 87.2 kg – 65.6 kg

= 21.6 kg (retained in system annually)

APPENDIX E - Groundwater Measurements and Septic System Inventory

GROUNDWATER FLOW WORKSHEET WEQUAQUET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-2D-123

Operator: CES Date: 1-6-85

Station: W-86-1 Time: 3:30 PM

Location: Lewis Point west Wequaquet

Soil Conditions: m-c. sand

Depth to Measurement: 20' 1.9 Amps

Table of LCD Readout

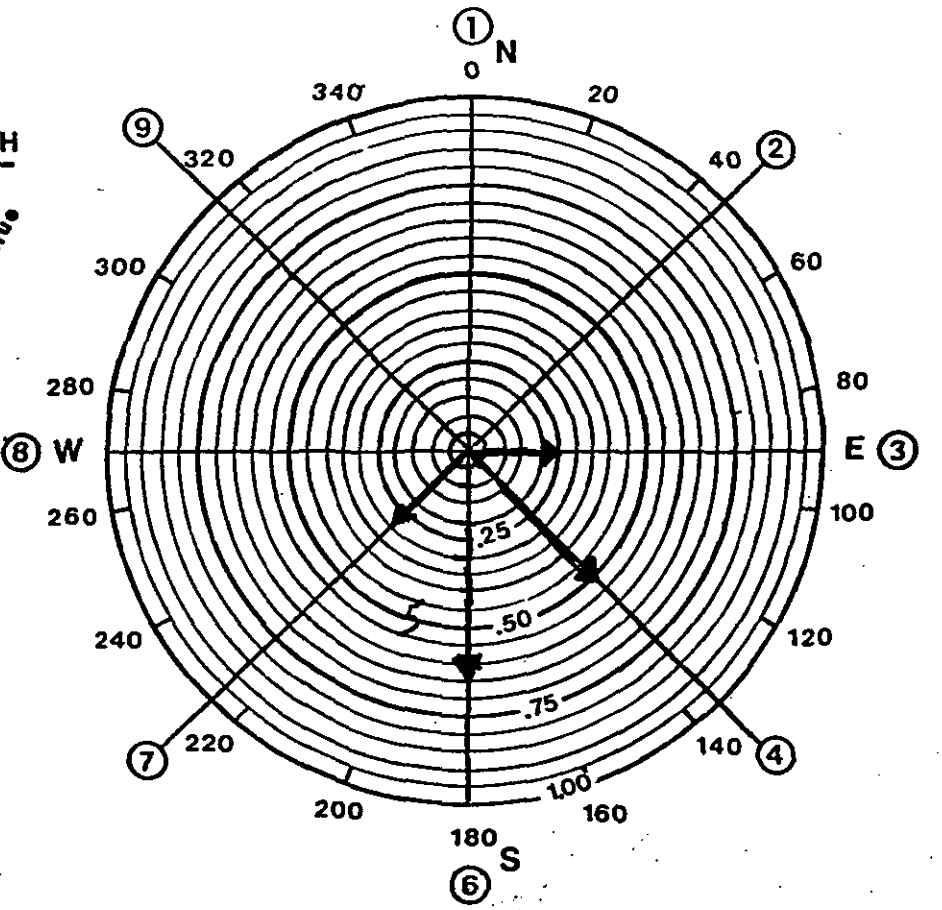
→N

Probe pair	A start	B end	C B-A
+1/-6	-75	-155	-80
+2/-7	+5	-82	-87
+3/-8	-6	+10	+16
+4/-9	-8	+96	+104

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S / 2	G F / max. value
+1/-6	-76	-143	-67	-65	
+2/-7	+25	-56	-81	-3	
+3/-8	+22	+33	+11	+2.5	
+4/-9	+10	+104	+94	+5	

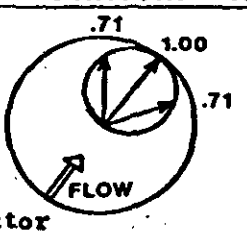


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.38 FT/DAY

Direction: 162° Velocity: 6

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-2D - 123 - 4X - End Cap Rigid

Operator: [illegible] Date: 1-6-85 1.9 Amps

Station: W-86-1 Time: 3:00 PM

Location: Point on West Shore of Wequaquet Lake

Soil Conditions: m-coarse sand over lam. to sandy gravel w/ cobbles

Depth to Measurement: 2.0'

Table of LCD Readout

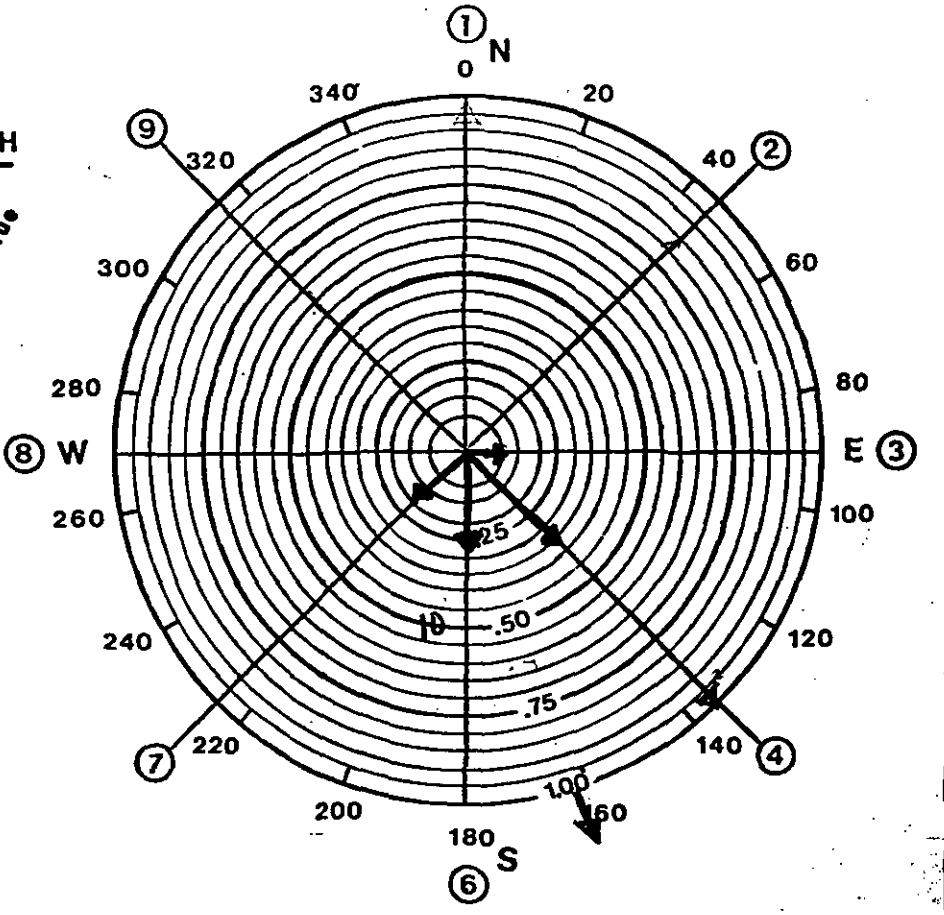
1→N

Probe pair	A start	B end	C B-A
+1/-6	-85	165	80
+2/-7	0	-88	-88
+3/-8	-7	+8	+15
+4/-9	-5	+98	+103

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-79	144	-69	-5.5	
+2/-7	+27	-54	-81	-4	
+3/-8	+24	+35	+11	+2	
+4/-9	+10	-98	-88	+7.5	1.0

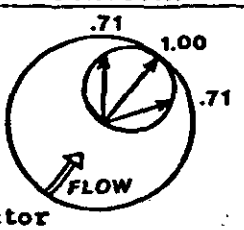


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.44 FT/DAY

Direction: 162° Velocity: 7

average of two measurements = 161.5° .41 FT/DAY

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET Wequaquet Lake

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Table of LCD Readout

→N Probe pair	A start	B end	C B-A
+1/-6	-67	-142	-75
+2/-7	+14	-83	-97
+3/-8	0	-8	-8
+4/-9	-9	+78	87

Operator: CES Date: 1-7-86

Station: W-86-2 Time: 10.20 AM

Location: south of Lewis Point (Wequaquet)

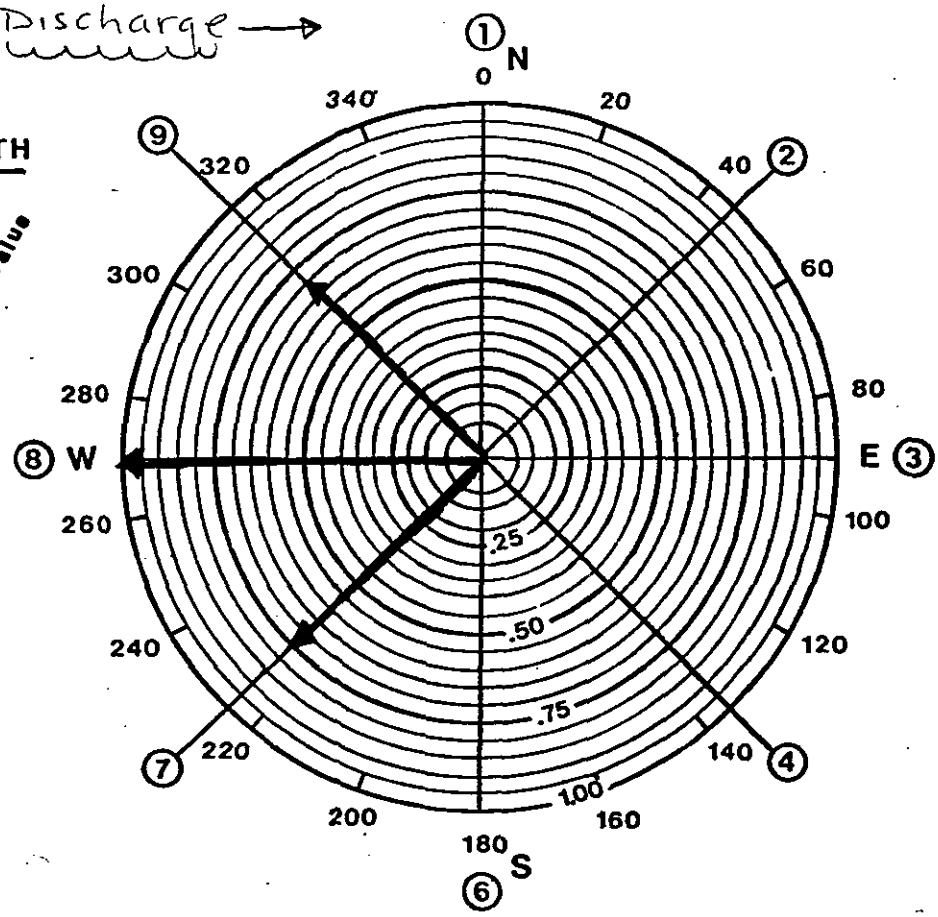
Soil Conditions: coarse sand 1.9 amps

Depth to Measurement: 12'

Discharge →

ROTATE PROBE 180° AT SAME DEPTH

→S Probe pair	D start	E end	S E-D	F N-S / 2	G F max. value
+1/-6	-80	-155	-75	0	0
+2/-7	+25	-50	-75	-11	.75
+3/-8	+27	+46	+21	-14.5	1.0
+4/-9	+19	+126	+107	-10	.69

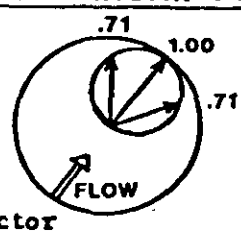


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

Direction: 269° Velocity: 15

bottom clear
owner talked about considerable algae growth on her shorelin

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123 · END CAP RIGID

Operator: CES Date: 1-7-86

Station: W-86-2 Time: 9:50 AM

Location: south of Lewis Point

Soil Conditions: Coarse sand

Depth to Measurement: 1.2'

1.9 Amps
28 sec.

Discharge

Table of LCD Readout

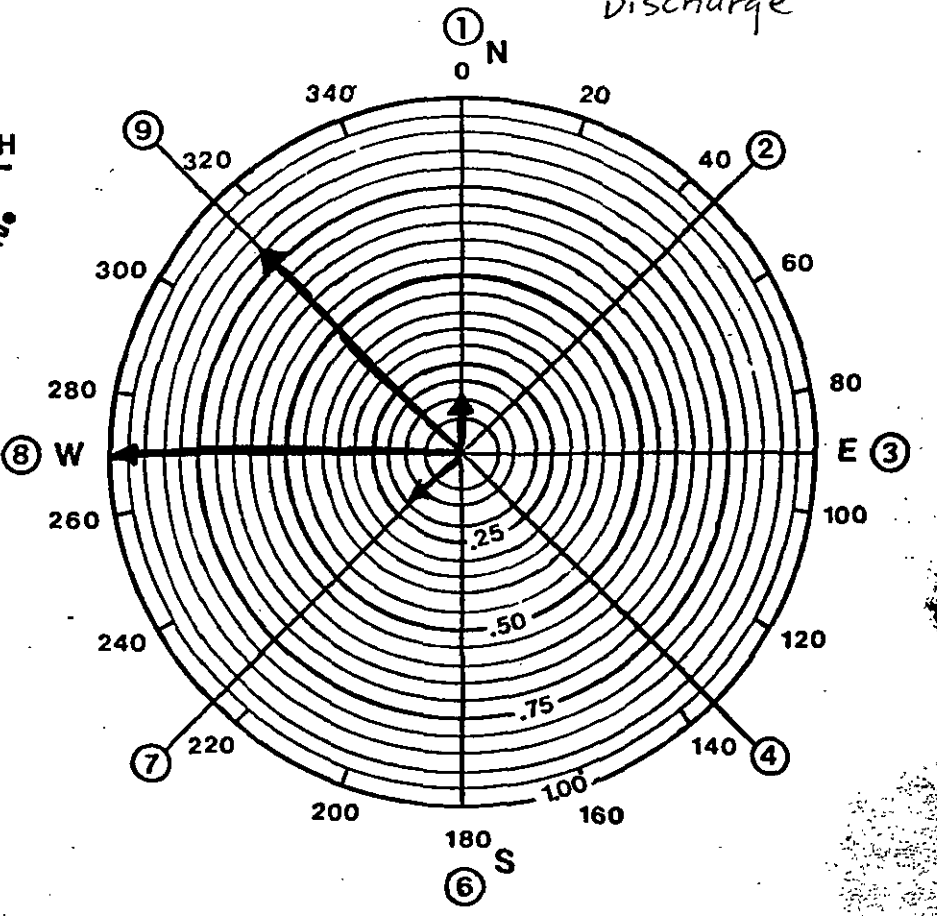
1→N

Probe pair	A start	B end	C B-A
+1/-6	-83	-152	-67
+2/-7	+9	-93	-84
+3/-8	0	-11	-11
+4/-9	0	+80	+80

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S/2	G F/max. value
+1/-6	-80	-152	-72	+25	12
+2/-7	+23	-44	-77	-3.5	.18
+3/-8	+21	+50	+29	-20	1.0
+4/-9	+14	+126	+112	-16	.80

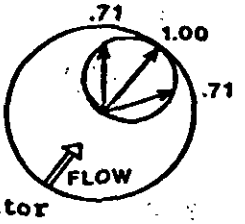


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

Direction: 289° Velocity: 18

Form 104 available from your local K-V Associates, Inc. dealer.

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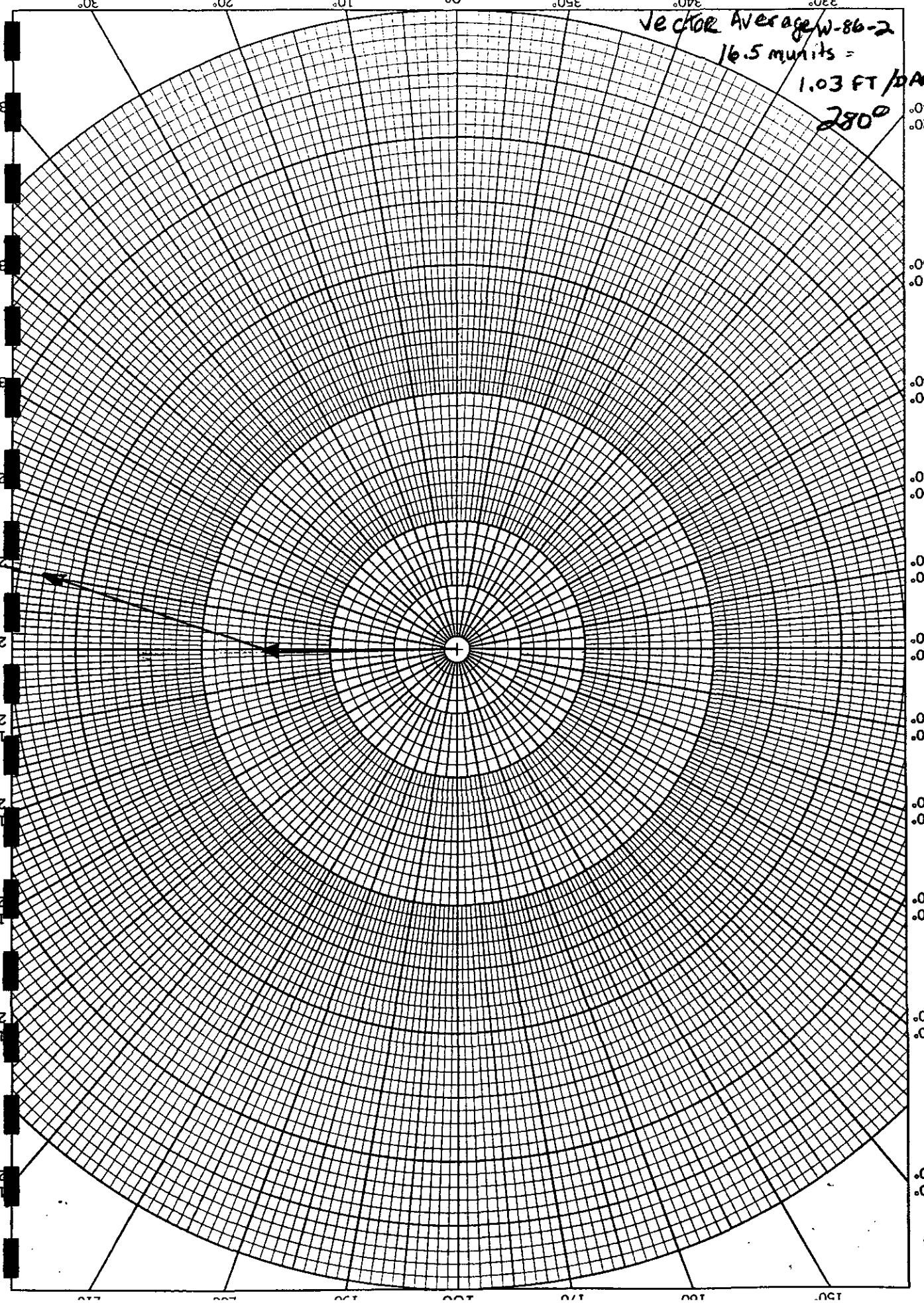
WEQ/



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GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Table of LCD Readout

1→N

Probe pair	A start	B end	C B-A
+1/-6	-69	-162	-93
+2/-7	+20	-78	-58
+3/-8	+12	+25	+13
+4/-9	+1	+115	+114

Operator: CES Date: 1-7-86

Station: W-86-3 Time: 12:00 pm

Location: southwest of town beach

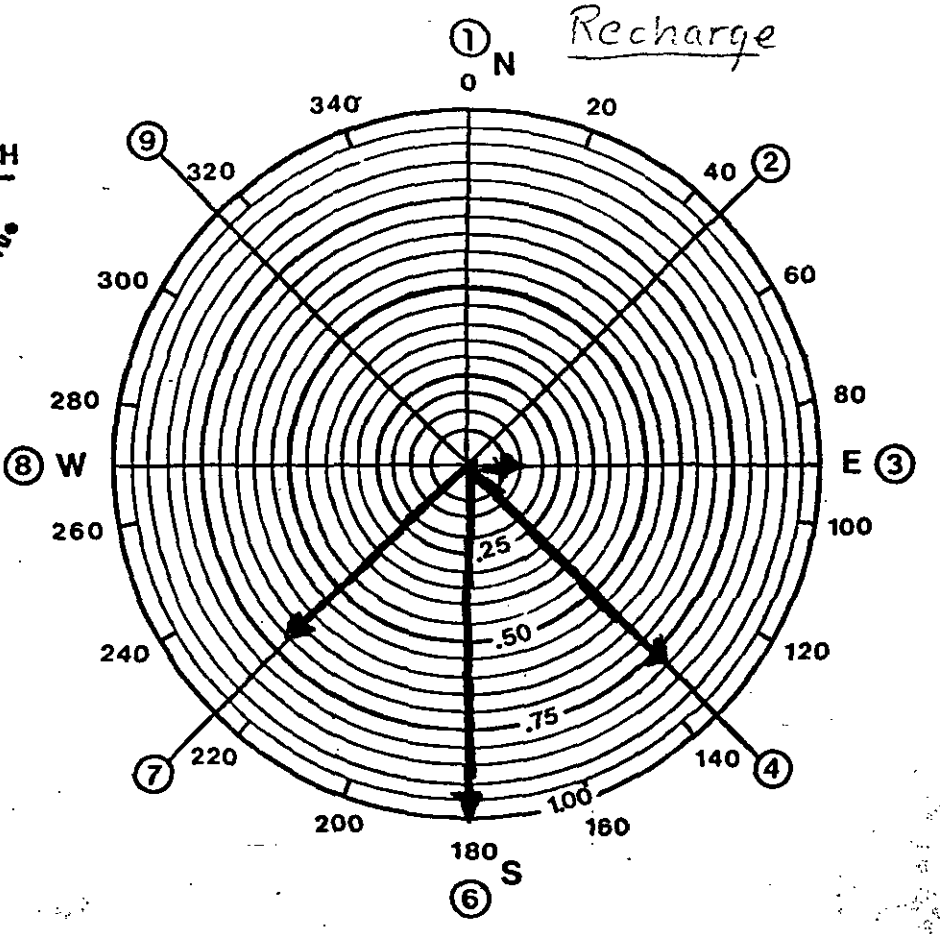
Soil Conditions: c. sand & gravel

Depth to Measurement: 12' 1.9 amps

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S / 2	G F / max. value
+1/-6	-72	-139	-67	-13	1.0
+2/-7	+18	-58	-40	-9	.70
+3/-8	+12	+21	+9	+2	.15
+4/-9	+4	+98	+94	+10	.77



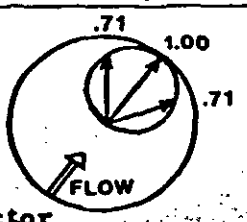
Recharge

Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.81 FT/DAY

Direction: 174° Velocity: 13

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, **4 channel probe**

IND02D-123 END CAP RIGID

Operator: CES Date: 1-7-86

Station: W-26-3 Time: 11:15 AM

Location: S of town landing

Soil Conditions: Coarse sand & gravel

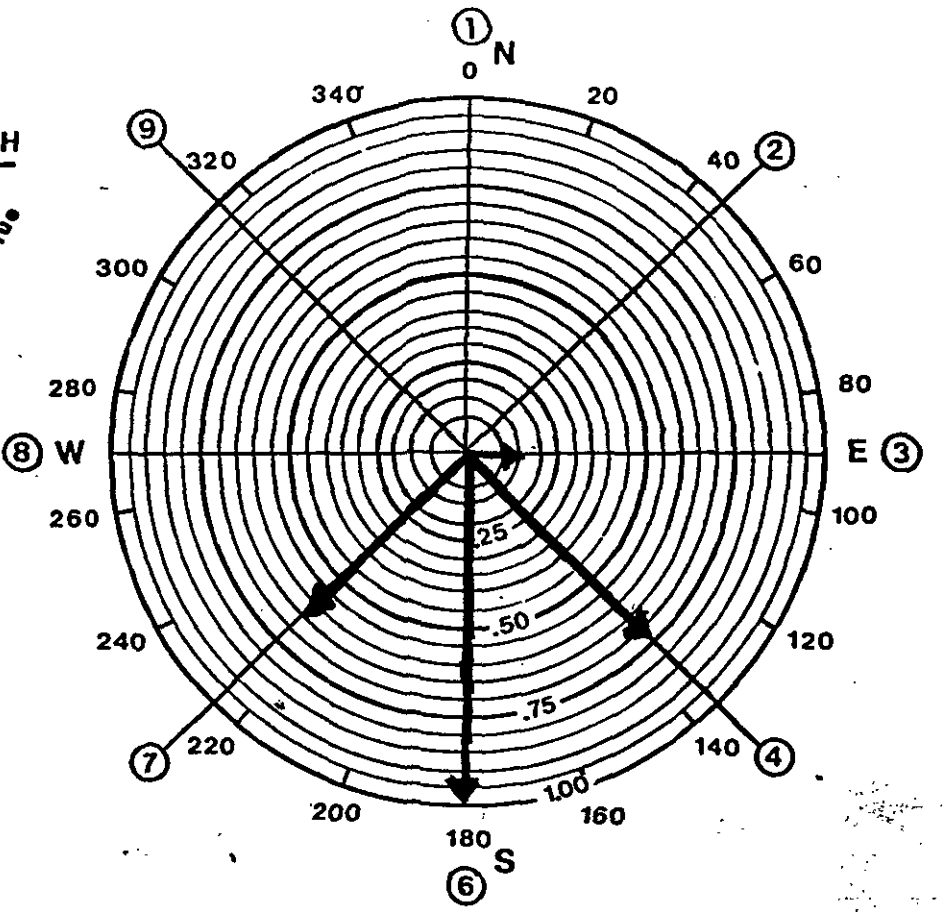
Depth to Measurement: 1.2

Table of LCD Readout

→N Probe pair	A start	B end	C B-A
+1/-6	-87	184	97
+2/-7	0	-98	-98
+3/-8	0	+14	+14
+4/-9	+4	+120	+116

ROTATE PROBE 180° AT SAME DEPTH

→S Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-72	-138	-66	-155	1.0
+2/-7	+18	-60	-78	-10	.65
+3/-8	+12	+21	+9	+2.5	.16
+4/-9	+4	+98	+94	+11	.71

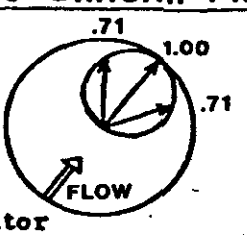


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.94 FT/DAY

Direction: 174 Velocity: 15

Average Flow .88 FT/DAY

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

MW03D-123 - END CAP RIGID

Operator: CES Date: 1-7-86

Station: W-86-4 Time: 12:40 Pm

Location: near pump house north shore

Soil Conditions: c sand & gravel 1.9 amps

Depth to Measurement: 2.2

Table of LCD Readout

1→N

Probe pair	A start	B end	C B-A
+1/-6	-89	-148	-59
+2/-7	+10	-54	-64
+3/-8	+18	+39	+21
+4/-9	+20	+116	+96

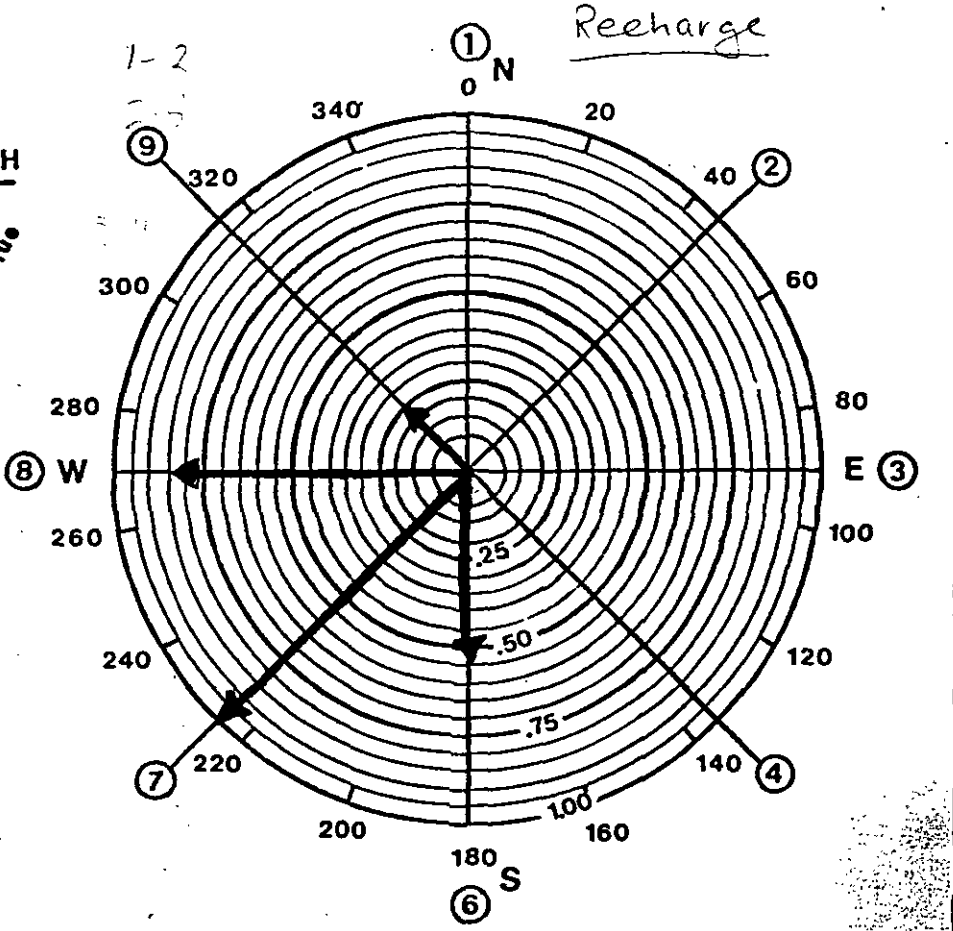
Recharge

1-2

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-72	-116	-44	-7.5	.59
+2/-7	+10	-25	-35	-14.5	1.0
+3/-8	+1	+46	+45	-12	.83
+4/-9	0	+103	+103	-3.5	.24

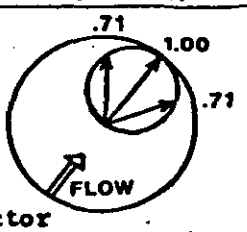


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day). .94 ft/day

Direction: 238° Velocity: 15

Form 104 available from your local K-V Associates, Inc. dealer.

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GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Table of LCD Readout

↑→N Probe pair	A start	B end	C B-A
+1/-6	-68	-74	-46
+2/-7	+36	-59	91
+3/-8	+35	+44	+9
+4/-9	+18	+119	101

Operator: CES Date: 1-7-86

Station: W-86-4 (2) Time: 1:25Pm

Location: Pump House Road north

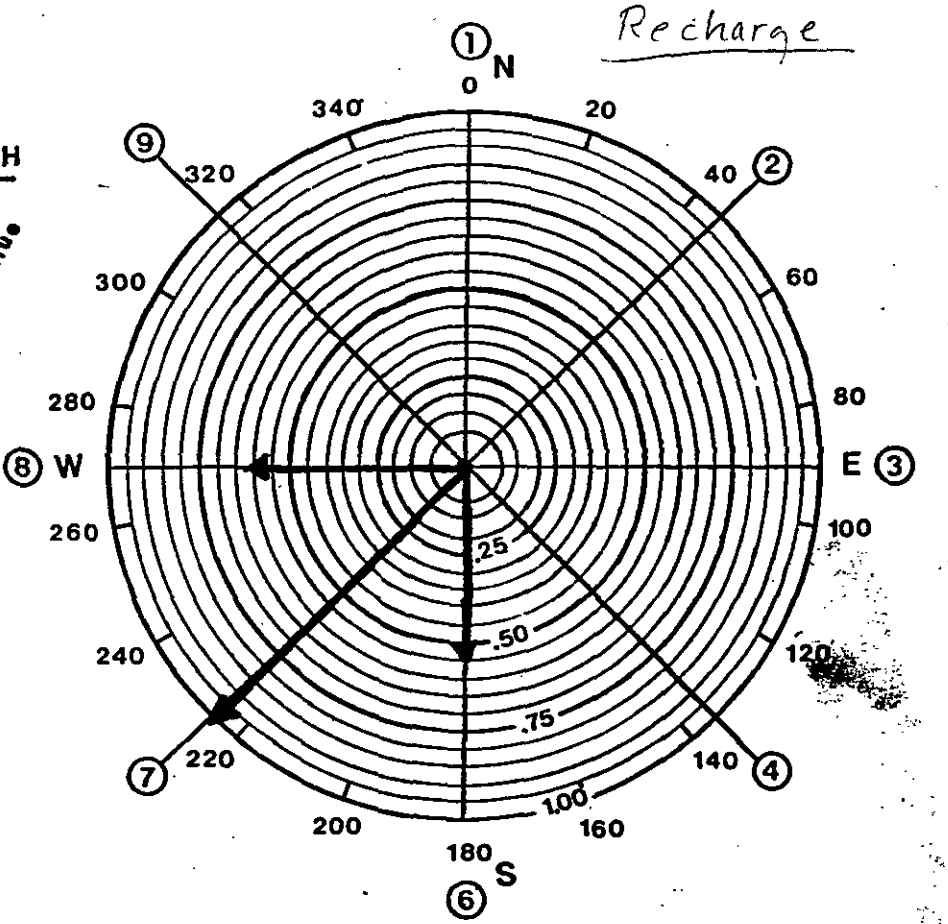
Soil Conditions: Sand & gravel 1.9 amps

Depth to Measurement: 2.2

Recharge

ROTATE PROBE 180° AT SAME DEPTH

1→S Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-70	-117	-47	-14.5	.55
+2/-7	+13	26	-39	-26	1.0
+3/-8	+2	+43	+41	-16	.61
+4/-9	0	+103	+103	-1	.03

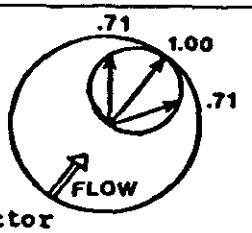


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

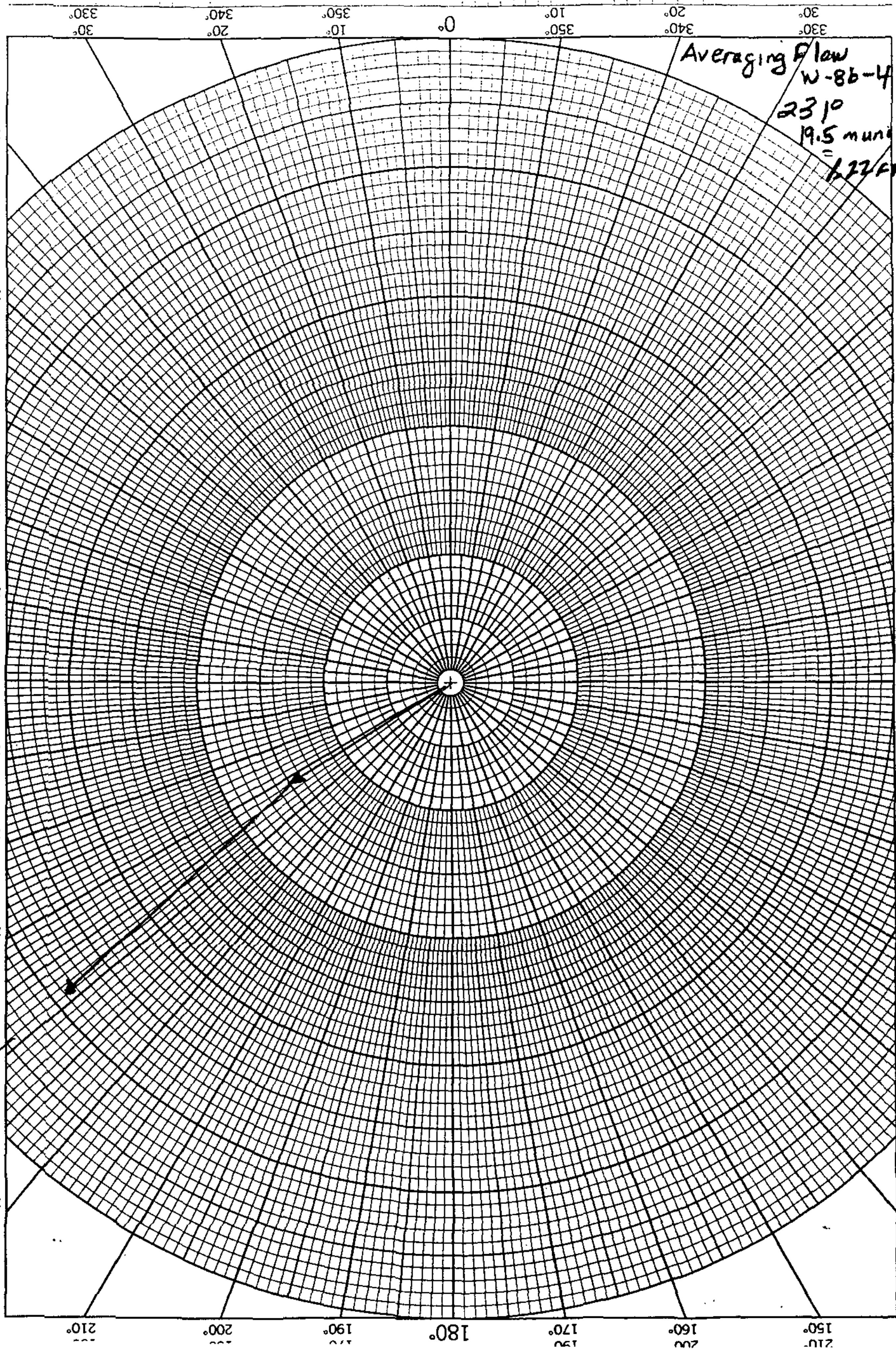
Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

Direction: 227° Velocity: 24

Form 104 available from your local K-V Associates, Inc. dealer.

WEG



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GROUNDWATER FLOW WORKSHEET WEQ

For use with K-V Associates, Inc. Groundwater Flowmeters, **4 channel probe**

start numbers?

MA02D - 23 END CAD RIGID

Table of LCD Readout

→N

Probe pair	A start	B end	C B-A
+1/-6	205	292	-87
+2/-7	-81	174	+255
+3/-8	+17	+23	+6
+4/-9	+110	228	+118

Operator: CES Date: 1-7-85

Station: W-86-5 Time: 2:10 Pm

Location: Western shore

Soil Conditions: sandy peat! 1.9amp

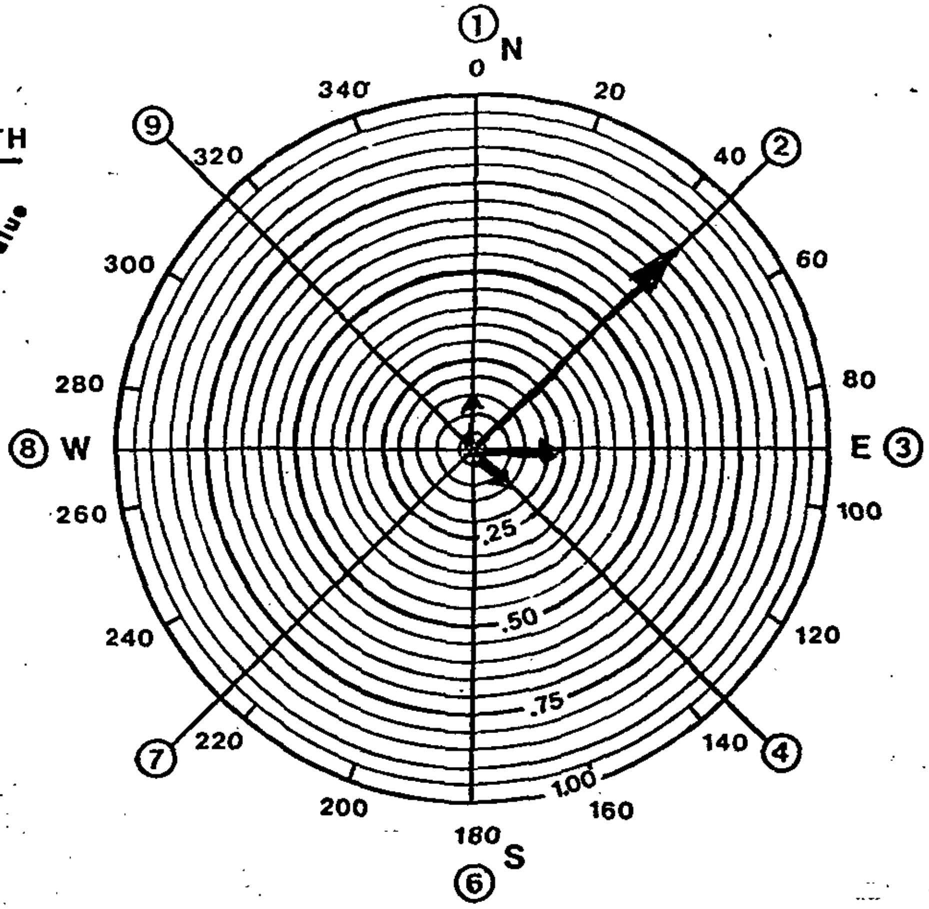
Depth to Measurement: 2.5'

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F $\frac{N-S}{2}$	G F/max. value
+1/-6	+93	+13	-80	-3.5	
+2/-7	146	+64	82	+16.6	
+3/-8	+38	+53	+15	-4.5	
+4/-9	93	+206	+113	+3	

-87+80, +255+82

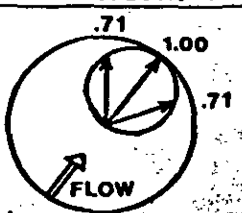


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day). .38 FT/DAY

Direction: 213 Velocity: 6

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET WEQ

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123 EKK

Operator: CES Date: 1-7-86

Station: W-86-6 Time: 3:00 pm

Location: bay NW

Soil Conditions: Coarse Sand

Depth to Measurement: 1.8'

1.9 amps

Table of LCD Readout

1→N

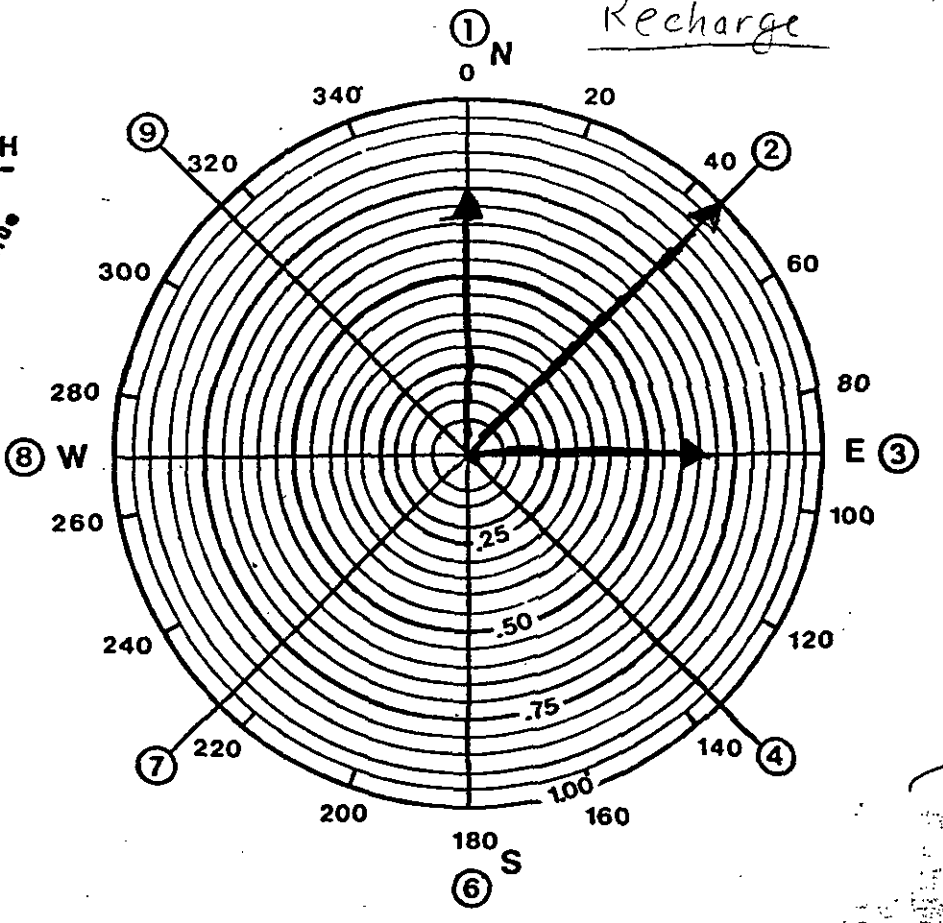
Probe pair	A start	B end	C B-A
+1/-6	-88	-83	+5
+2/-7	0	+20	+20
+3/-8	0	+30	+30
+4/-9	+5	+82	+77

Recharge

OTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S / 2	G F / max. value
+1/-6	-65	-198	-133	+69	.75
+2/-7	-17	-182	-165	+92.5	1.0
+3/-8	+8	-83	-91	+60.5	.65
+4/-9	0	+74	+74	+1.5	.02

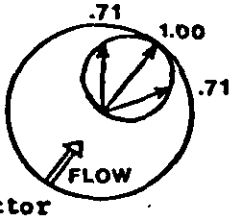


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

5.75 FT/DAY

Direction: 44° Velocity: 92

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GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Operator: CES Date: 1-7-85

Station: W-86-6 Time: 3:30 PM

Location: bay northwest

Soil Conditions: coarse Sand

Depth to Measurement: 1.0'

1.9 amps

Table of LCD Readout

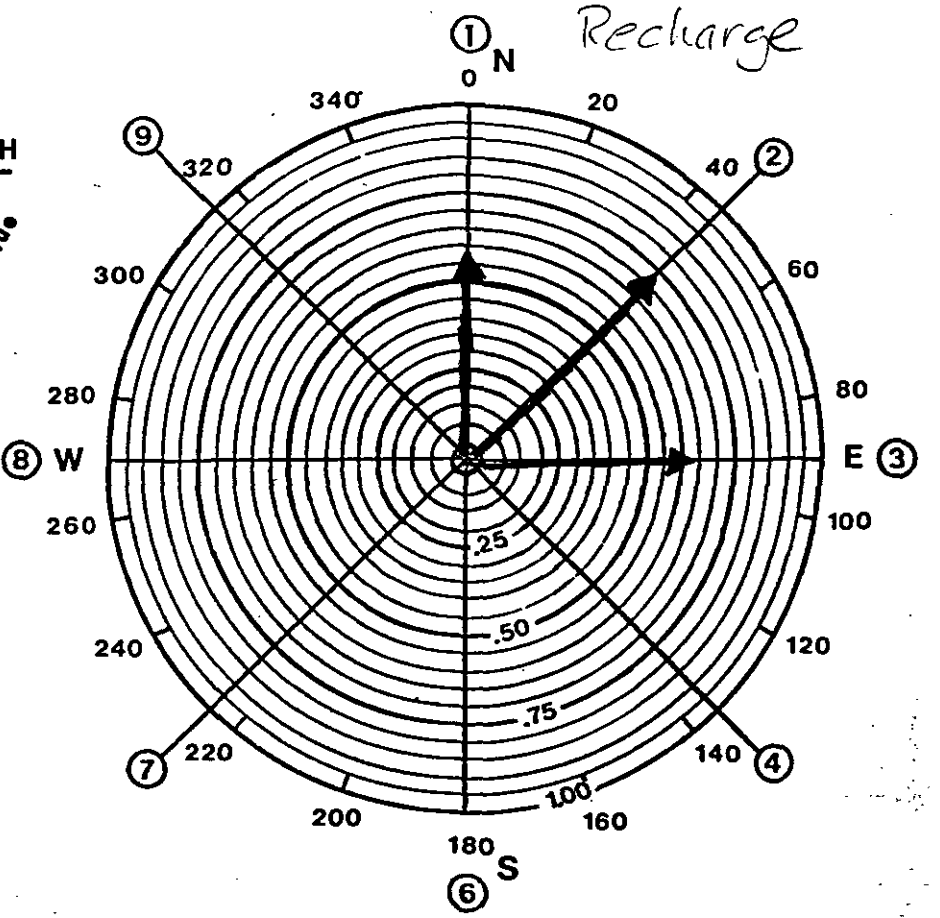
→N

Probe pair	A (start)	B (end)	C (B-A)
+1/-6	-48	-67	-20
+2/-7	+46	+2	-44
+3/-8	+26	+52	+26
+4/-9	0	+80	+80

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D (start)	E (end)	S (E-D)	F (N-S/2)	G (F/max. value)
+1/-6	-68	-206	-138	+59	
+2/-7	+13	-199	-186	+71	
+3/-8	+8	-88	-96	+61	
+4/-9	+4	+86	+82	-1	



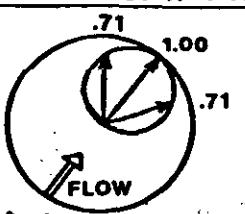
Recharge

Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day) 4.88 FT/DAY

Direction: 45° Velocity: 78

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Table of LCD Readout

1→N

Probe pair	A start	B end	C B-A
+1/-6	-100	-56	+44
+2/-7	-11	+27	+38
+3/-8	-8	+80	+88
+4/-9	+7	+100	+93

Operator: CES Date: 1-13-86 1.9 amps

Station: W-86-7 Time: 9:50AM

Location: northern shore east of town beach

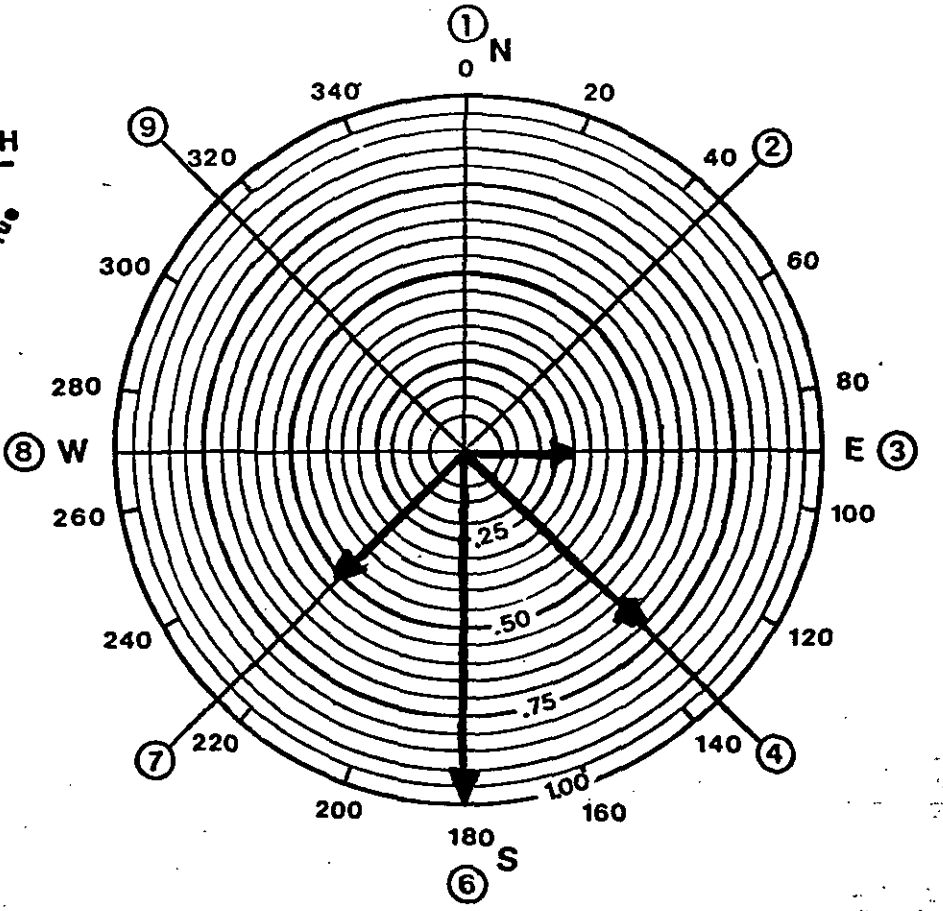
Soil Conditions: m - coarse sand overlays gravel meas. in sand

Depth to Measurement: 8'

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S / 2	G F max. value
+1/-6	-104	-32	+72	-14	1.0
+2/-7	-73	+43	+56	-9	
+3/-8	-9	+73	+82	+3	
+4/-9	+10	+89	+79	+7	.50

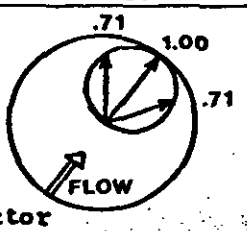


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day). .81 FT/DAY

Direction: 176° Velocity: 13

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET WEQ

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123 - Right End Bay

Operator: CES Date: 1-13-86

Station: W-86-7 Time: 10:20 AM

Location: north shore east of bar beach

Soil Conditions: m-c quartz sand

Depth to Measurement: 8'

1.9 amp

Table of LCD Readout

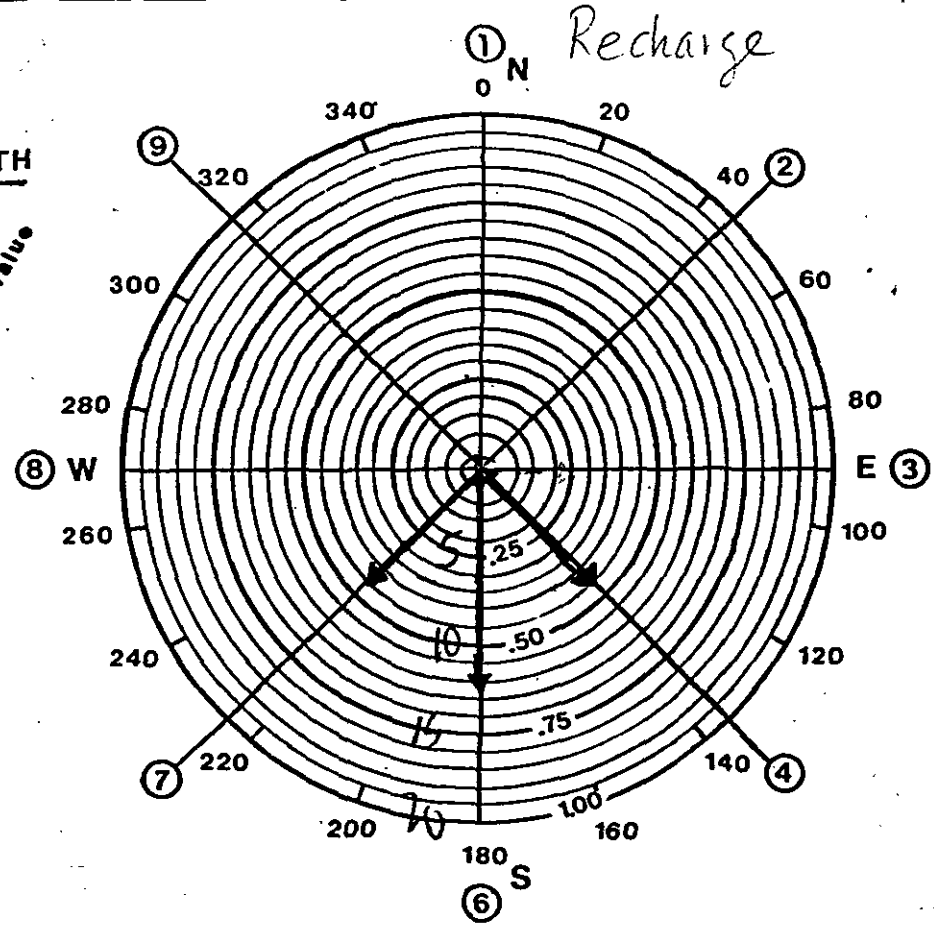
→N

Probe pair	A start	B end	C B-A
+1/-6	-104	-62	+42
+2/-7	74	+21	+35
+3/-8	-71	+71	+82
+4/-9	+10	+99	+89

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S / 2	G F max. value
+1/-6	-102	-35	+67	-125	
+2/-7	-9	+44	+53	-9	
+3/-8	-6	+75	+81	+.5	
+4/-9	+11	+82	+71	+9	



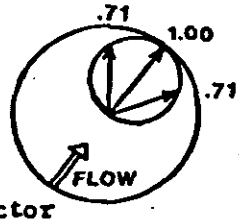
Recharge

Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.81 FT/DAY

Direction: 179° Velocity: 13

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET WEQ

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Table of LCD Readout

1→N

Probe pair	A start	B end	C B-A
+1/-6	-95	+4	+99
+2/-7	-33	+87	+120
+3/-8	-41	+138	+179
+4/-9	-10	+113	+123

Operator: C&S Date: 1-13-86

Station: W-86-8 Time: 11:05Am

Location: west shore north of Louis pt.

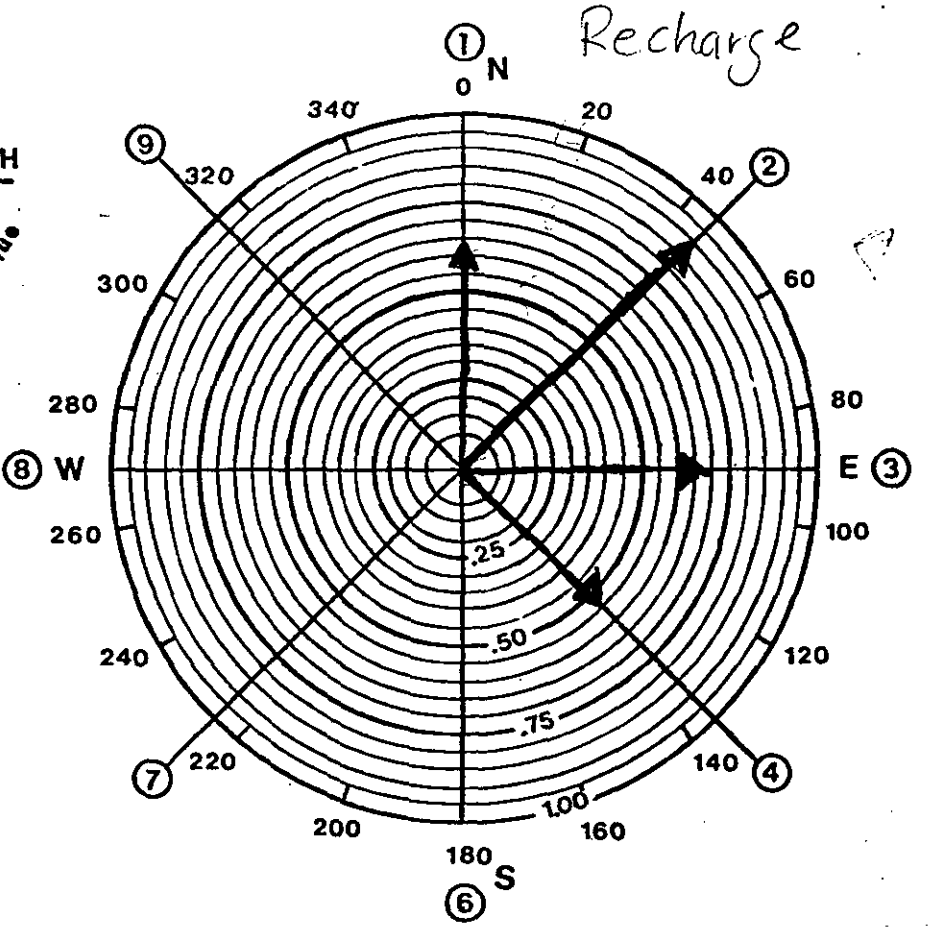
Soil Conditions: coarse sand & gravel 1.9amps

Depth to Measurement: 1.2'

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-84	0	+84	-7.5	
+2/-7	+2	+96	+94	+13	
+3/-8	+4	+166	+162	+0.5	
+4/-9	+12	+123	+111	+6	



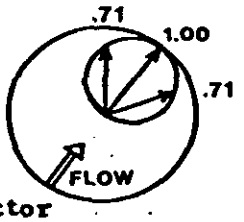
Recharge

Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day). .81 FT/DAY

Direction: 60° Velocity: 13

Form 104 available from your local K-V Associates, Inc. dealer.

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GROUNDWATER FLOW WORKSHEET WEQ

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123

Operator: CRS Date: 1-13-86

Station: W-86-9 Time: 12:00

Location: west shore 19amps

Soil Conditions: C coarse sm 1 s grave

Depth to Measurement: 1.0'

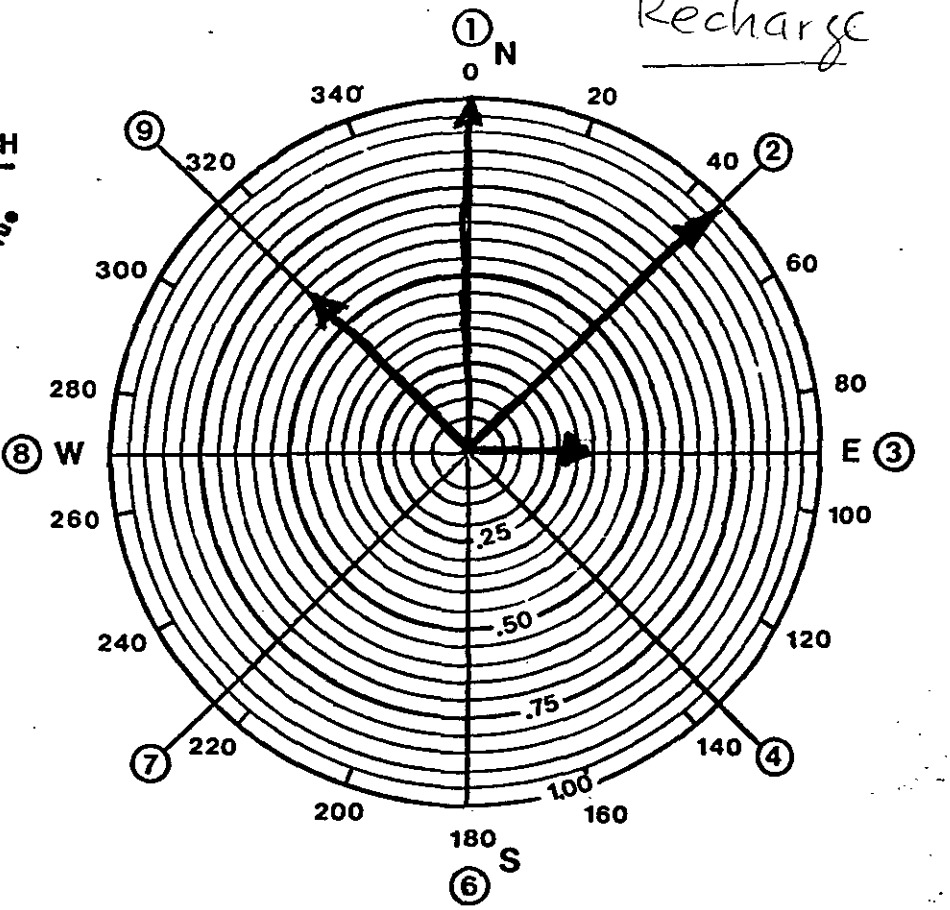
Recharge

Table of LCD Readout

→N Probe pair	A start	B end	C B-A
+1/-6	-66	+58	+124
+2/-7	-23	+108	+85
+3/-8	+8	+146	+138
+4/-9	0	+70	+70

ROTATE PROBE 180° AT SAME DEPTH

1→S Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-105	-46	+59	+39.5	
+1/-7	-19	+6	+25	+30	
+3/-8	-11	+102	+113	+125	
+1/-9	+14	+120	+106	-18	

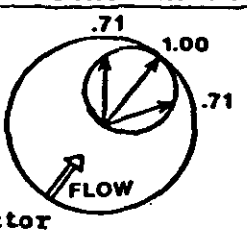


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

2.19 FT/DAY

Direction: 190° Velocity: 35

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123

Operator: [illegible] Date: 1-13-86

Station: W-86-9 Time: 12:30 PM

Location: West Shore

Soil Conditions: Sand & Silt

Depth to Measurement: 10'

17 amps

Table of LCD Readout

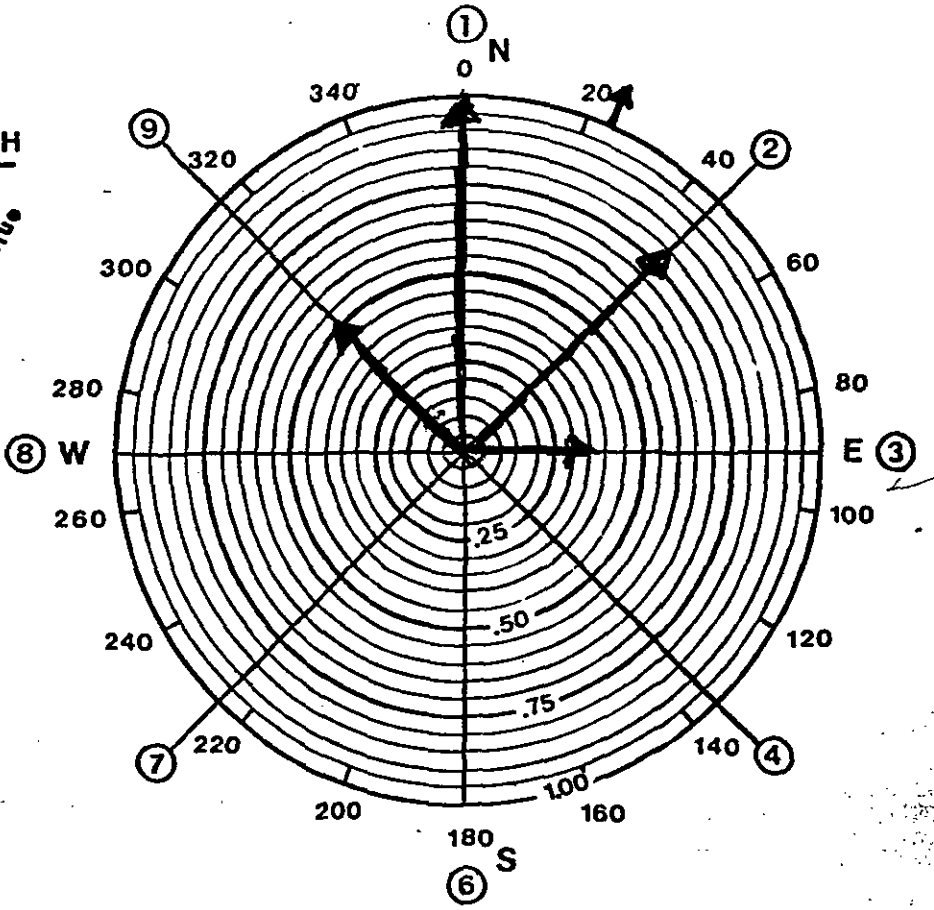
1→N

Probe pair	A start	B end	C B-A
+1/-6	-86	+38	+124
+2/-7	0	+79	+87
+3/-8	0	+133	+133
+4/-9	+7	+78	+69

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-111	-48	+63	+31.5	1.0
+2/-7	-28	+9	+37	+26	.79
+3/-8	-15	+98	+113	+10	.31
+4/-9	+17	+120	+103	+17	.53

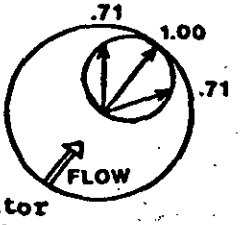


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

1.87 FT/DAY

Direction: 23° Velocity: 29

Form 104 available from your local K-V Associates, Inc. dealer. Average 21°

© 1981 K-V ASSOCIATES, INC. Falmouth, MA 02540 2.00 FT/DAY 9/82

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123

Operator: [illegible] Date: 1-13-86

Station: W-86-10 Time: _____

Location: W. Shore 1.9 amps

Soil Conditions: _____

Depth to Measurement: 1.0

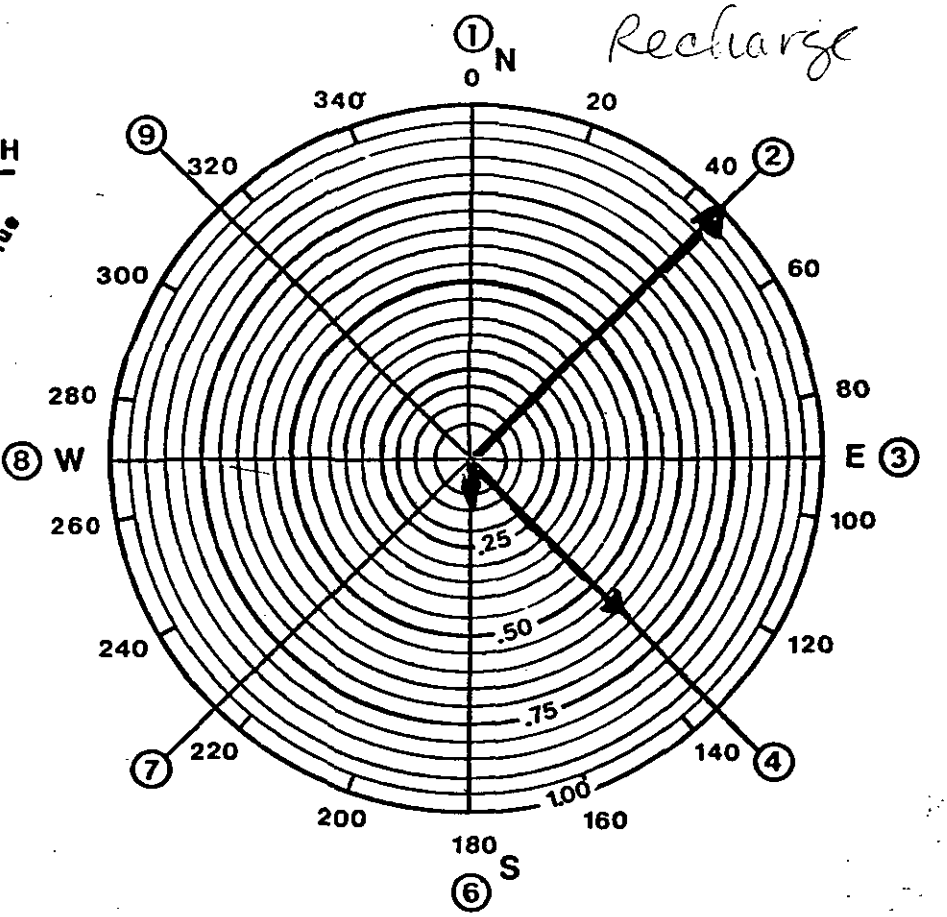
Table of LCD Readout

→N Probe pair	A start	B end	C B-A
+1/-6	-100	-26	+74
+2/-7	-76	+44	+60
+3/-8	-9	+91	+100
+4/-9	+13	+83	+70

ROTATE PROBE 180° AT SAME DEPTH

1→S Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-111	-36	+75	-.5	
+2/-7	-25	+22	+47	+6.5	1.0
+3/-8	-12	+80	+102	-3.1	.15
+4/-9	+17	+89	62	+4	.61

Recharge

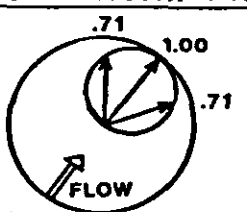


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59-HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.19 FT/DAY

Direction: 79° Velocity: .3

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

M40-123

Operator: CGS Date: 1-13-86

Station: W-86-10 Time: 1:45 PM

Location: W. shore

Soil Conditions: red sand

Depth to Measurement: 1.0

1.9 amps

Table of LCD Readout

1→N

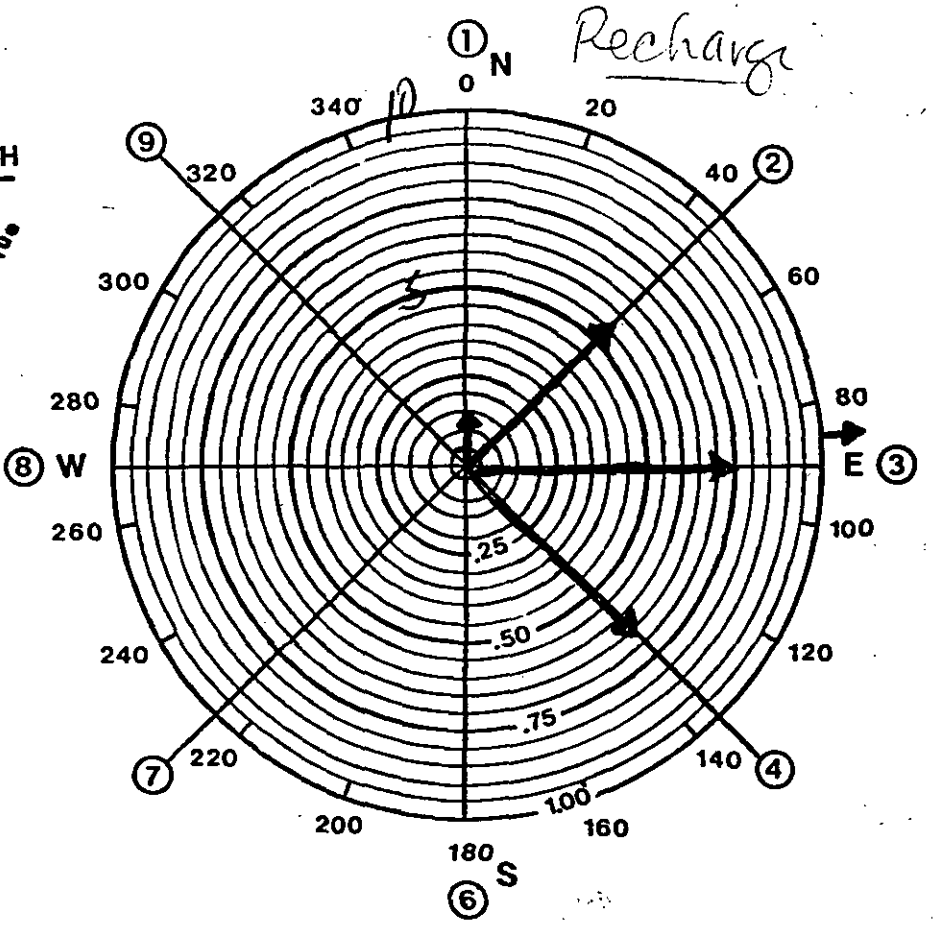
Probe pair	A start	B end	C B-A
+1/-6	-102	-24	+78
+2/-7	-17	+30	+47
+3/-8	-10	+97	+107
+4/-9	+10	+88	+78

Recharge

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F N-S/2	G F max. value
+1/-6	-106	-31	+75	+1.5	
+2/-7	-20	-16	+36	+5.5	
+3/-8	-10	+82	+92	+7.5	
+4/-9	+15	+80	+65	+6.5	

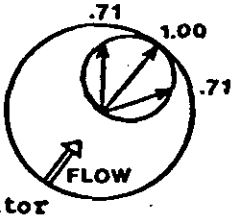


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

.31 FT/DAY

Direction: 85° Velocity: 5

average 85° .25 FT/DAY

Form 104 available from your local K-V Associates, Inc. dealer.

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GROUNDWATER FLOW WORKSHEET

WEG / [illegible]

For use with K-V Associates, Inc. Groundwater Flowmeters, **4 channel probe**

MWC-123

Table of LCD Readout

→N

Probe pair	A start	B end	C B-A
+1/-6	-111	52	+59
+2/-7	0	+68	+68
+3/-8	+12	+146	+134
+4/-9	-28	+112	+84

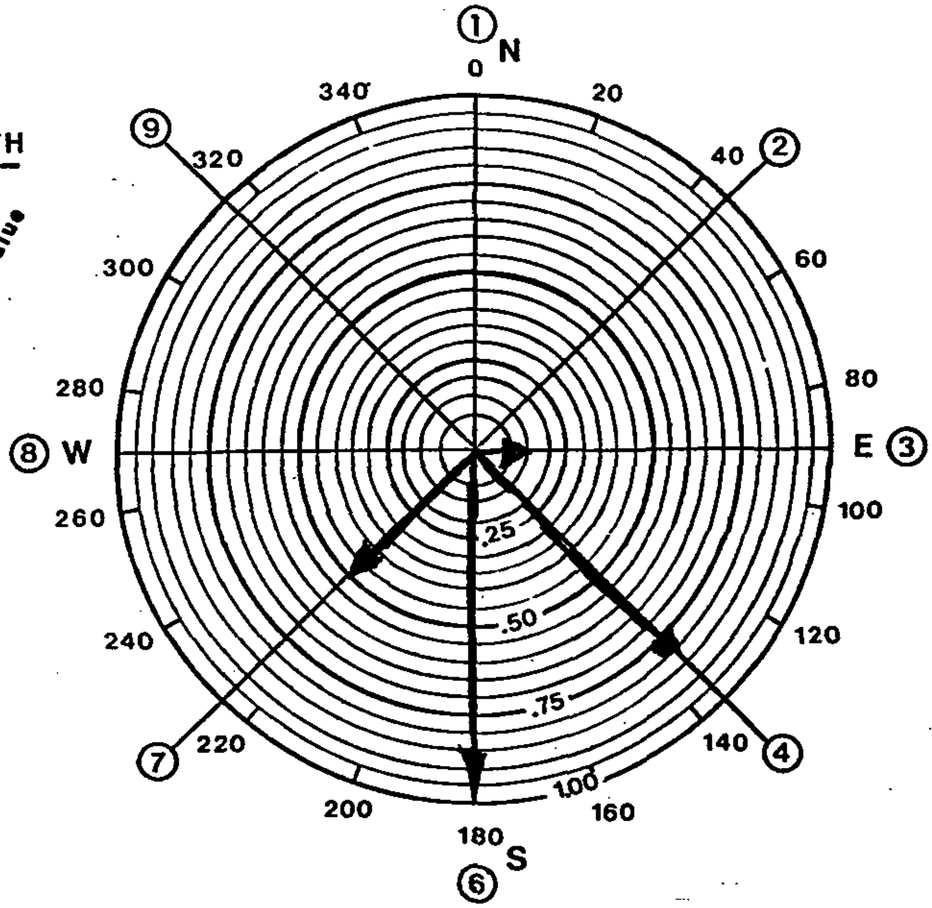
Operator:	
Date:	1-5-86
Station:	W-86-11
Time:	2:15 PM
Location:	m C west shore
Soil Conditions:	m - Coarse Sand
Depth to Measurement:	1.2

19 amp

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D start	E end	S E-D	F $\frac{N-S}{2}$	G F / max. value
+1/-6	-87	-14	+73	-7	1.
+2/-7	0	+75	+75	-35	.5
+3/-8	-8	+125	+133	+.5	.07
+4/-9	0	+73	+73	+5.5	.81

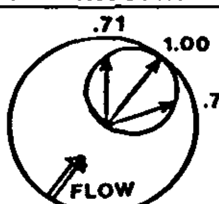


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

Direction: 172° **Velocity:** 7

Form 104 available from your local K-V Associates, Inc. dealer.

GROUNDWATER FLOW WORKSHEET

For use with K-V Associates, Inc. Groundwater Flowmeters, 4 channel probe

Table of LCD Readout

1→N

Probe pair	A (start)	B (end)	C (B-A)
+1/-6	-128	-69	-59
+2/-7	-22	+55	+77
+3/-8	+7	+147	+140
+4/-9	-39	+122	+83

Operator: [illegible] Date: 1-13-86

Station: W-86-11 Time: 2:45 PM

Location: W shore 1.9 amps

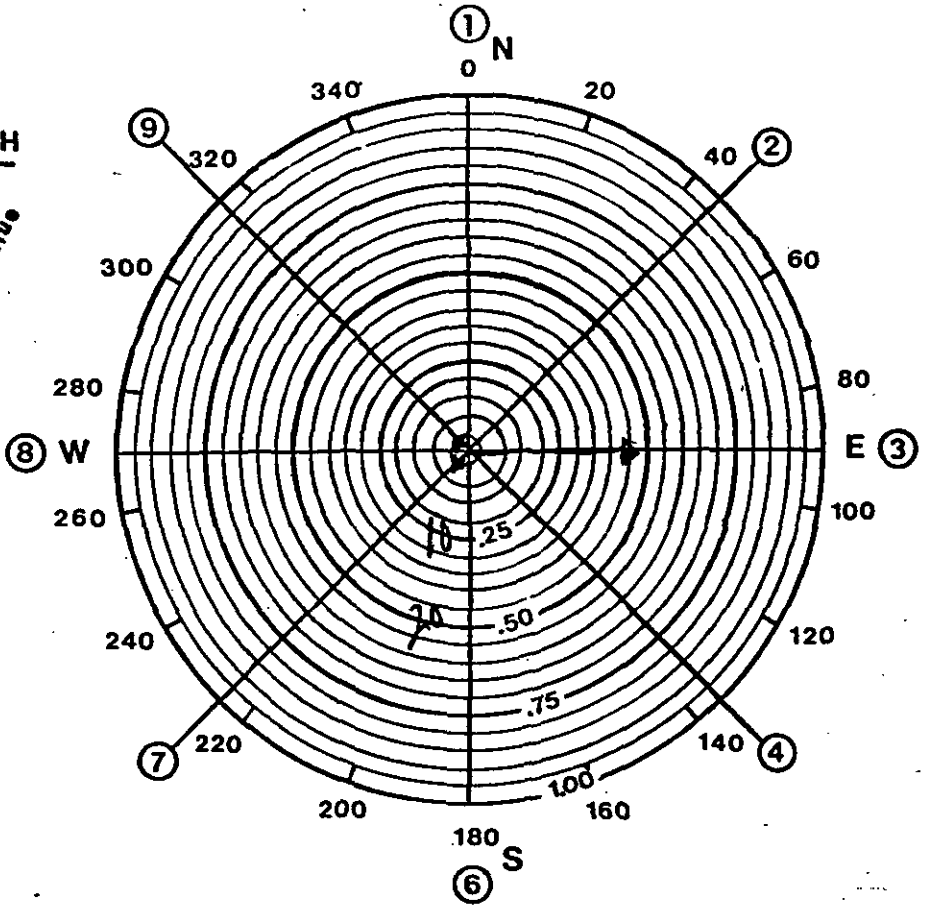
Soil Conditions: M. Sand

Depth to Measurement: 1.2

ROTATE PROBE 180° AT SAME DEPTH

1→S

Probe pair	D (start)	E (end)	F (E-D)	G (N-S/2)	F max. value
+1/-6	-83	-24	+59	0	
+2/-7	0	+65	+65	-3.5	
+3/-8	-14	+116	+102	+19	
+4/-9	-9	+70	+79	+2	

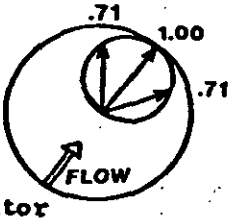


Use of Table

COLUMN G - Divide each reading in column F by the largest absolute value. Draw these 4 vectors on the circle chart according to the scale provided (i.e. strongest vector = 1.00).

Cosine Test Shows Uniform Flow

Vector end points will closely fit a circle inscribed about the longest vector. Values in column G will approximate vector lengths shown at right.



Vector Resolution to Determine Direction

1. Use KVA Vector Addition Program (TI-58/59+HP41C) calculators

OR

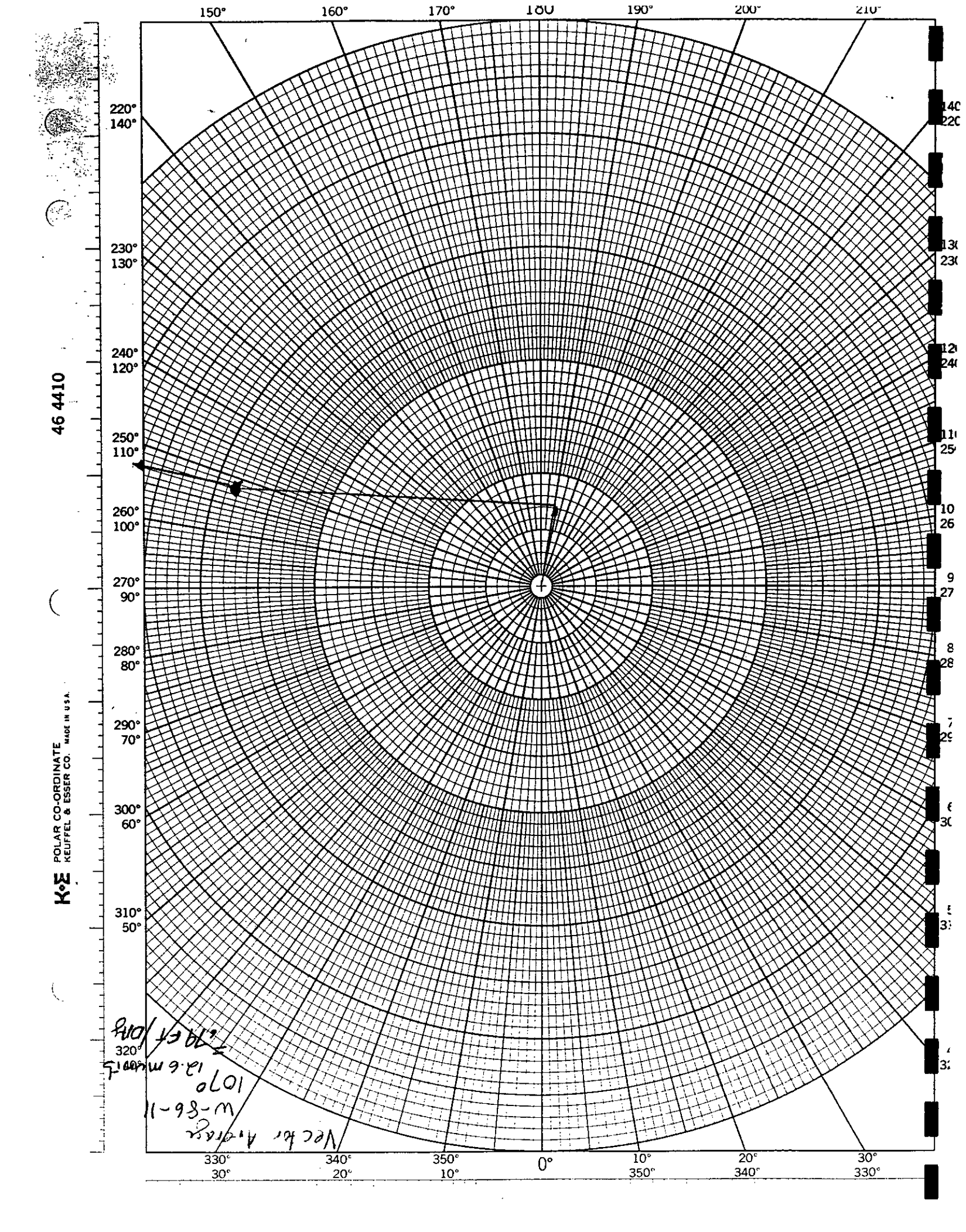
2. Solve graphically by placing 4 individual vector segments sequentially head to tail. (See manual for detailed instructions).

Velocity Determination

Refer to your calibration curve of readout versus preferred units of flow (e.g. feet per day).

Direction: 102° Velocity: 9

Form 104 available from your local K-V Associates, Inc. dealer.


150°
160°
170°
180
190°
200°
210°
220°
140°
230°
130°
240°
120°
250°
110°
260°
100°
270°
90°
280°
80°
290°
70°
300°
60°
310°
50°
320°
330°
30°
340°
20°
350°
10°
0°
10°
350°
20°
340°
30°
330°
46 4410
K&E POLAR CO-ORDINATE
KEUFFEL & ESSER CO. MADE IN U.S.A.

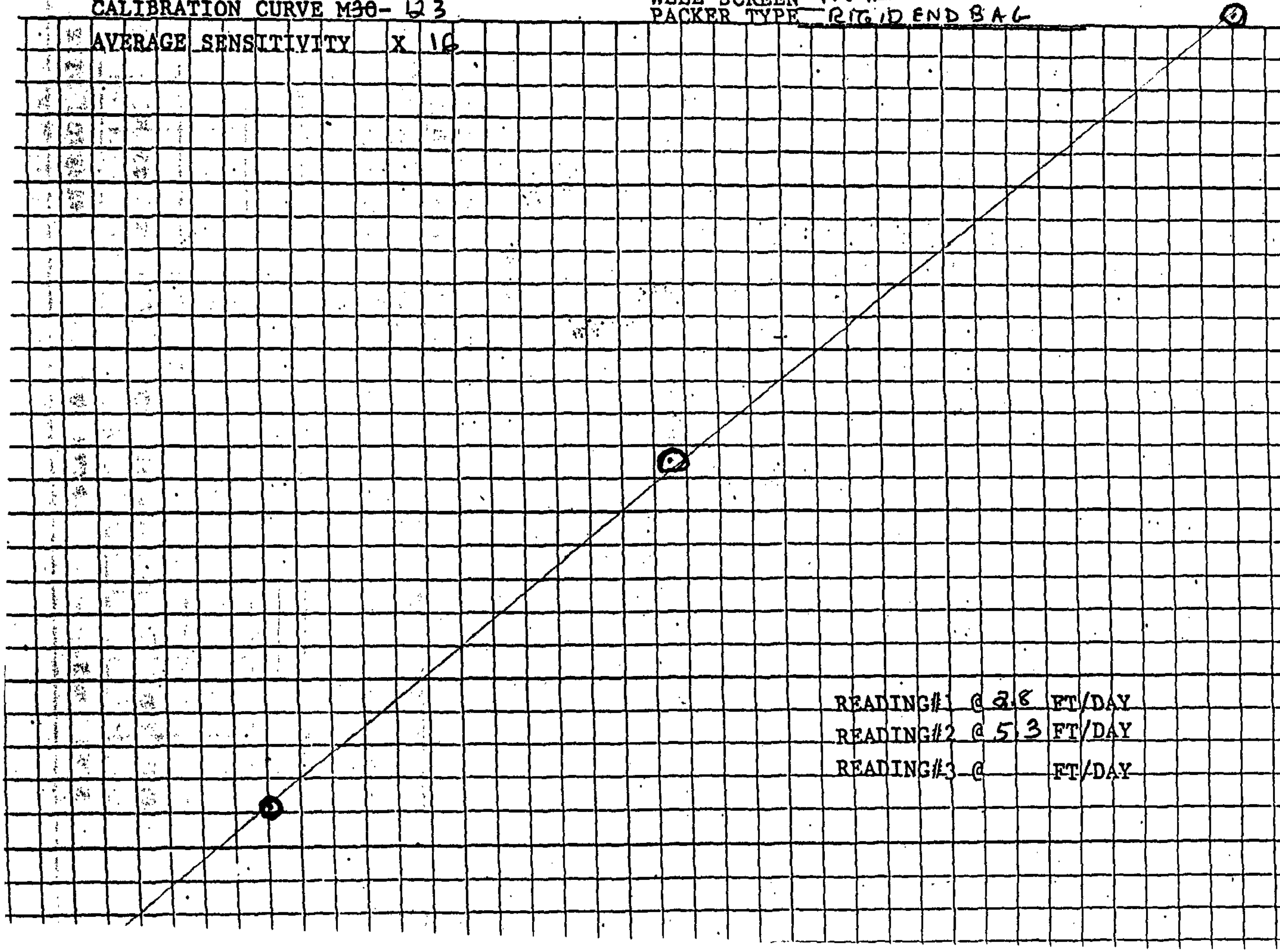
[redacted]AN [redacted] IT [redacted] @ [redacted] REA [redacted] @ [redacted]5

CALIBRATION CURVE M~~30~~ 40 - 123

WELL SCREEN NONE

PACKER TYPE RIGID END BAG

AVERAGE SENSITIVITY X 16



SCREEN none in sand / PACKER TYPE Rigid end cap

1.9 Amps

BIAS Δ2

	START	END	Δ
5	-64	-109	-45
15	-4	-53	-49
17	-8	+7	+15
29	-8	+59	+67
~	~	~	~

BIAS Δ3

	START	END	Δ
	-63	-109	-46
	0	-54	-54
	-6	+7	+13
	-8	+58	+66
	~	~	~

AVERAGE BIAS

Δ1	Δ2	Δ3	AVERAGE
			-45
			-49
			+15
			+67
~	~	~	~

#2

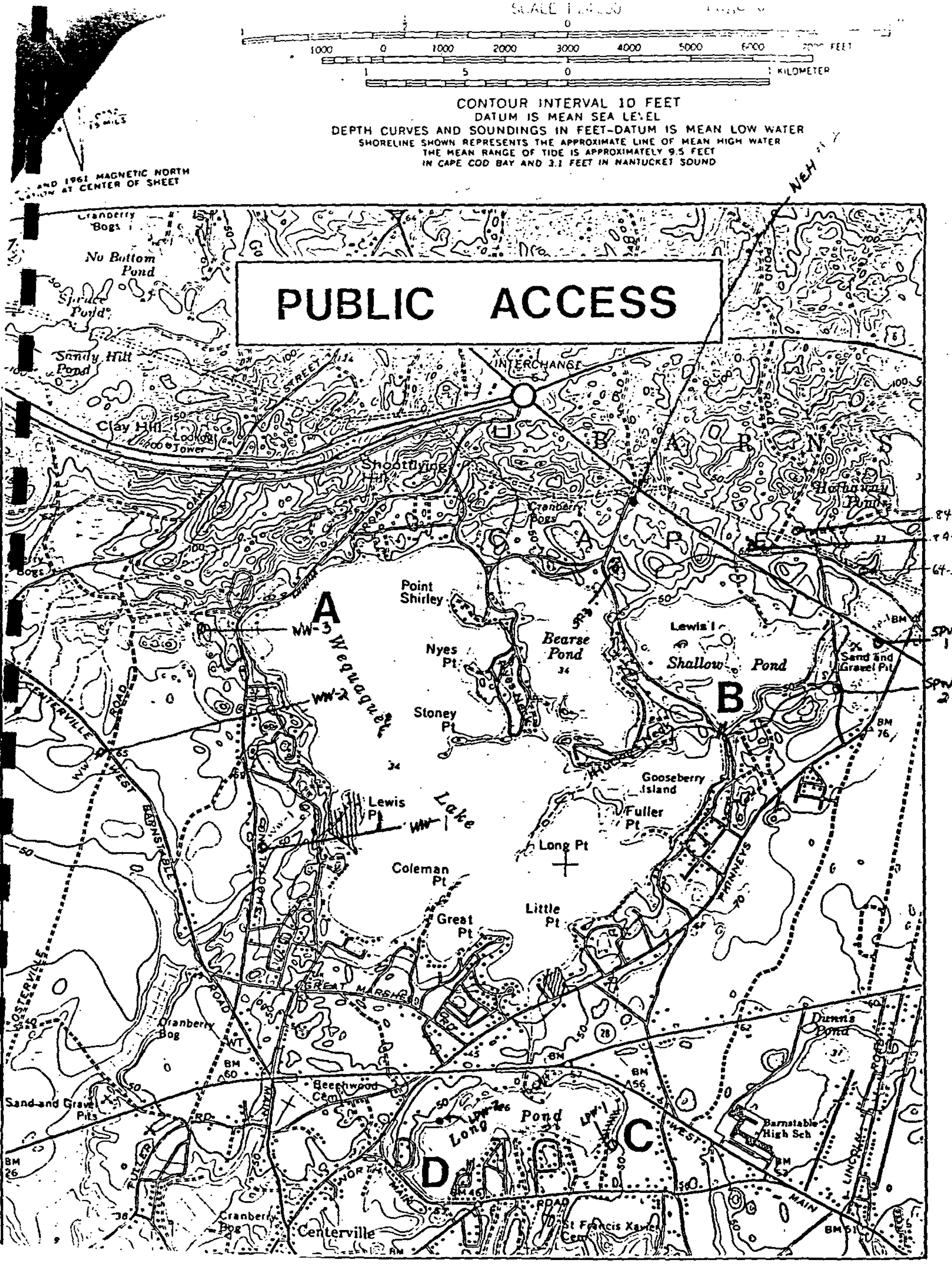
	START	END	Δ
0	-68	-28	+40
15	-4	+19	+23
17	-6	+12	+18
31	-7	+7	+14
~	~	~	~

#3

START	END	Δ
-67	+27	+94
0	+64	+64
-5	+13	+18
-6	-28	-22
~	~	~

=2.8 FT/DAY PUMP RATE 7.8 ml/min = 5.3 FT/DAY PUMP RATE 13 ml/min = 8.8 FT/DAY

LA	#2	BIAS	#2-BIAS	#3	BIAS	#3-BIAS
5	+40	-45	+85	+94	-45	+139
6	+23	-49	+72	+64	-49	+113
2	+18	+15	-3	+18	+15	-3
8	+14	+67	-53	-22	+67	-89



1000 0 1000 2000 3000 4000 5000 6000 FEET
KILOMETER
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET–DATUM IS MEAN LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 9.5 FEET
IN CAPE COD BAY AND 3.1 FEET IN NANTUCKET SOUND
AND 1961 MAGNETIC NORTH
AT CENTER OF SHEET
PUBLIC ACCESS
Cranberry Bogs
No Bottom Pond
Spruce Pond
Sandy Hill Pond
Clay Hill
Lookout Tower
Shootflying Hill
INTERCHANGE
STREET
B A R N S
Hathaway Ponds
C A P E
Cranberry Bogs
Point Shirley
Nyes Pt
Stoney Pt
Wequaquet Lake
Lewis Pt
Coleman Pt
Great Pt
Little Pt
Long Pt
Fuller Pt
Gooseberry Island
Bearse Pond
Lewis I
Shallow Pond
Sand and Gravel Pit
A
B
C
D
WW-3
WW-2
WW-1
SPW 1
SPW 2
LPW-1
NEH
CENTERVILLE ROAD
WEST BARNSTABLE
OSTERVILLE
GREAT MARSHES RD
PHINNEYS
Cranberry Bog
Dunns Pond
Beechwood Cem
Long Pond
Sand and Gravel Pits
Barnstable High Sch
MAIN
ROAD
LINCOLN ROAD
Cranberry Bog
Centerville
St Francis Xavier Cem

K-V ASSOCIATES

MONITORING WELL LOG

BORING NUMBER LPW-1 TOC ELEVATION 45' DATE

TYPE LOCATION Long Pond East Access NAME CSJ

DRILL METHOD Auger Blue Rock Drilling PAGE 1 OF 1

WATER LEVEL encountered while drilling

DEPTH IN FEET	LITH COL	SAMPLE	LITHOLOGIC DESCRIPTION	OBSERVATIONS	WELL SCHEMATIC	WELL DESIGN
5			Sand, yellow brown, SP fine grain, well sorted, minor gravel		2" Schedule 40 PVC	
10			Sand as above and SP gravel < 1"			
15			Sand, medium-coarse SP grain, reddish brn, w/ gravel + cobbles	52" .010" slot Diedrick		16'
20			TD = 18'			
21						

K-V ASSOCIATES

MONITORING WELL LOG

BORING NUMBER LP-2 TOC ELEVATION ≈50' DATE 12-26-85

TYPE _____ LOCATION Long Pond Rd NAME CES

DRILL METHOD Augers PAGE 1 OF 1

WATER LEVEL encountered 17' while drilling

DEPTH IN FEET	LITH COL	SAMPLE	LITHOLOGIC DESCRIPTION	OBSERVATIONS	WELL SCHEMATIC	WELL DESIGN
5			sm silty sand, fine grain - coarse gr. poorly sorted moist yellow. brn		2" Sched. 40	13.0
10			sc clayey sand, med. gray. wet		13.	52" .010" 2" Pied.
15			sm silty sand, very fine grain, gry.	no return past 15'.		
20			TD = 23.0'			

Drill to 23'

K-V ASSOCIATES

MONITORING WELL LOG

BORING NUMBER WW-1 TOC ELEVATION 50' DATE 12-24-87

TYPE Hydro LOCATION Shoot Flying Hill Rd NAME CES

DRILL METHOD Auger PAGE 1 OF 1

WATER LEVEL encountered 16.0' while drilling

DEPTH IN FEET	LITH COL	SAMPLE	LITHOLOGIC DESCRIPTION	OBSERVATIONS	WELL SCHEMATIC	WELL DESIGN
			Clayey-Silty-Sand Reddish brown		PVC Sched. 40 2" Casing to surface	
5			sand, red-brown, sp fine-coarse grain, moderately sorted			
10			sand, yellow-brown, sp fine grain, well sorted			
15			< wet	52" Diedrich .010" 2" Screen		
20			sand, as above, sp medium grained, some coarse sand.			

TD 35.0

20.8' overall

K-V ASSOCIATES

MONITORING WELL LOG

BORING NUMBER WW-2 TOC ELEVATION 65 DATE 12-24-85

TYPE LOCATION Pine Forest juncti[illegible] NAME CGS

DRILL METHOD Auger Patriot & W. Barnstable K- PAGE 1 OF 2

WATER LEVEL encountered while drilling

DEPTH IN FEET	LITH COL	SAMPLE	LITHOLOGIC DESCRIPTION	OBSERVATIONS	WELL SCHEMATIC	WELL DESIGN
			clayey sand, med brown gc			
5			sand, yellow brow, fine grained sp well sorted minor gravel			
			sand, brown-tan, medium grained w/ gravel <1" well sorted sp			
10						
15			sand, tan, fine-grained, well-sorted. minor gravel			
20						
25						

K-V ASSOCIATES

MONITORING WELL LOG

BORING NUMBER WW-2 TOC ELEVATION 65' DATE 12-24-FF

TYPE _____ LOCATION _____ NAME _____

DRILL METHOD _____ PAGE 2 OF 2

WATER LEVEL encountered _____ while drilling

DEPTH IN FEET	LITH COL	SAMPLE	LITHOLOGIC DESCRIPTION	OBSERVATIONS	WELL SCHEMATIC	WELL DESIGN
30			Sand, tan, med-coarse-grained, moderately sorted.	52' of .010" Diedrich Screen	Sch 40 Casing 2"	
35						
40			TD @ 48.0'			

K-V ASSOCIATES

MONITORING WELL LOG

BORING NUMBER WW-3 TOC ELEVATION 40' DATE 12-26-85

TYPE _____ LOCATION undeveloped Cobble Sne NAME CES

DRILL METHOD auger PAGE 1 OF 1

WATER LEVEL encountered ~9'0 while drilling

DEPTH IN FEET	LITH COL	SAMPLE	LITHOLOGIC DESCRIPTION	OBSERVATIONS	WELL SCHEMATIC	WELL DESIGN
			Sandy loam			
			Sm silty sand, fine grain gray,			
5						
			Sm sand, fine grain, gray-tan, well sorted.		▽	
10						
15						
			TD. 18.0'			
20						

SEPTIC SYSTEM INVENTORY
WEQUAQUET LAKE

LOT NUMBER	ADDRESS	SEPTIC/CESSPOOL	PROBLEM	AGE (YRS)	DIST (FT)	OCCUPIED	PUMPED	ADDITIVES	FLOODING	RESIDENTS	DISHWASHER	WASHING MACHINE	GARBAGE DISPOSAL	LAWN AREA	FERTILIZER
1	Lakeside Dr. West	S	-	8	70	YR	3-5	-	-	3	X	X	X	5000	-
2	"	S	-	15	150	J-Aug	3-5	-	-	2	X	X	X	0	-
3	"	Dis	-	15	40	wkend	3-5	-	-	2	X	X	-	0	-
4	"	Dis	-	18	200	YR	once	-	-	2	X	X	-	4000	Lawn Co.
5	"	S	-	20	70	YR	3-5	-	-	2	X	X	X	0	-
6	Lakeside Dr. East	DK	-	20	300	YR	DK	DK	-	3	X	X	X	4000	DK
7	"	C	-	12	80	YR	once	-	-	2	X	X	-	6000	Lawn Co.
8	"	DK	-	11	200	YR	3-5	X	-	2	X	X	-	0	-
9	"	S	-	15	70	YR	1-2	-	-	3	X	X	X	1000	Scotts (2)
10	"	S	-	13	80	YR	once	X	-	2	X	X	X	4000	Organic (3)
11	"	C	-	16	110	YR	once	-	-	2	X	X	-	2500	Scotts (3)
12	"	S	-	5	75	YR	-	-	-	2	X	X	-	2000	Scotts (2)
13	"	S	-	8	200	YR	-	-	-	3	X	X	X	300	Scotts (2)
14	Holly Pt. Rd.	S	over use	23	65	YR	1-2	-	-	2	X	X	X	1600	Scotts (1/3)
15	"	S	-	14	250	May-Oct	-	X	-	2	X	X	X	0	-
16	"	C	-	17	160	YR	3-5	DK	Heavy Rain	6	X	X	X	3200	Manure (1)
17	"	DK	-	28	170	YR	once	X	-	2	-	X	-	1000	Scotts (1)
18	"	C	DK	18	110	wkend	once	-	-	1	X	X	X	500	-
19	"	S	-	15	150	DK	DK	-	-	6	X	X	X	0	-
20	"	S	-	10	170	YR	-	-	-	4	X	X	X	3200	DK (1)

SEPTIC SYSTEM INVENTORY
WEQUAQUET LAKE

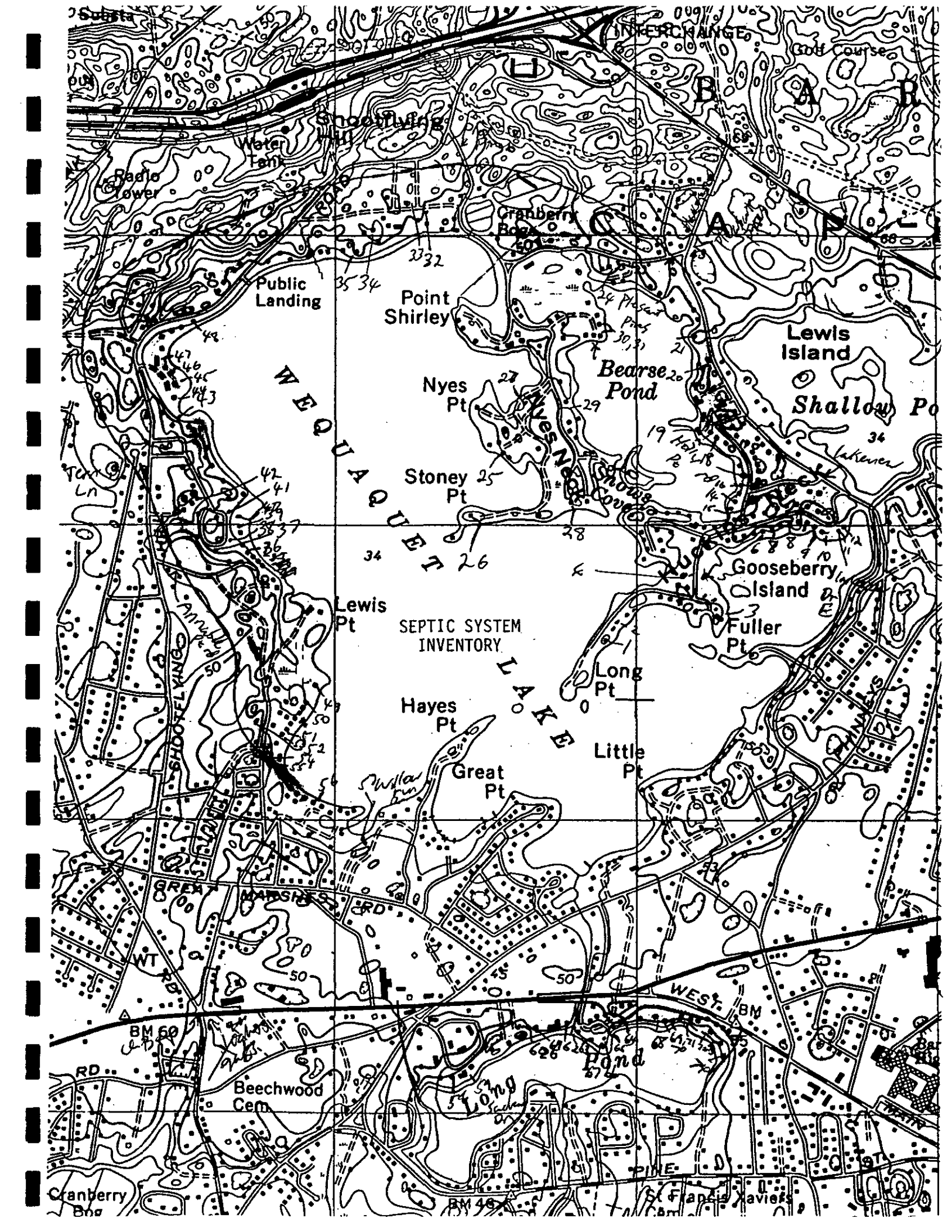
LOT NUMBER	ADDRESS	SEPTIC/CESSPOOL	PROBLEM	AGE (YRS)	DIST (FT)	OCCUPIED	PUMPED	ADDITIVES	FLOODING	RESIDENTS	DISHWASHER	WASHING MACHINE	GARBAGE DISPOSAL	LAWN AREA	FERTILZER
21	Huckins Neck Pleasant Pines	C	over-flowed	22	80	YR	1-2	-	-	4	X	X	-	4800	-
22	"	S	-	1	130	YR	-	-	-	5	X	X	-	0	-
23	"	C	-	25	100	YR	-	-	-	1	X	X	X	3200	-
24	"	S	-	15	75	YR	1-2	X	-	3	-	X	-	1600	Scotts (2)
25	"	C	-	10	40	YR	1-2	-	-	1	X	X	X	4000	Lawn Co. (4)
26	Nyes Neck	S	-	3	85	YR	-	-	-	5	X	X	-	2000	ChemLawn (3)
27	"	DK	-	5	40	YR	3-5	-	-	4	X	X	-	1600	Lawn Co. (4)
28	"	S	-	9	80	YR	-	-	-	2	X	X	-	3500	Lawn Co. (3)
29	"	C	-	15	20	YR	once	-	-	1	-	-	-	0	-
30	"	S	-	12	40	YR	3-5	-	-	2	-	X	-	1100	Scotts (½)
31	"	S	-	1	50	weekend	-	-	-	4	X	X	X	3200	Lawn Co. (2)
32	Pleasant Pines	C		30+	120	May-Oct	3-5	-	-	4	X	X	-	8000	DK (½)
33	"	S	over use	13	220	YR	3-5	X	solved	2	X	X	X	1800	-
34	"	C	-	40	160	June-Sep	10 yr	-	-	2	X	X	X	2000	-
35	Lakeview	S	-	20/35	80	YR	3-5	-	-	3	X	X	X	1600	Lawn Co. (4)
36	Lakewood	C	-	43	30	Mar-Nov	1-2	X	-	4	-	-	-	900	-
37	Tern Ln	DK	over use	20	250	YR	1-2	X	1	5	X	X	-	800	Lawn Co. (4)
38	"	S	-	2	40	May-Oct	-	-	-	2	X	X	X	1600	Lawn Co. (4)
39	"	C	-	37	30	YR	once	X	-	1	-	X	X	900	Lawn Co. (4)
40	"	S	-	1	100	YR	-	X	-	1	X	-	-	1100	Scotts (1)
41	"	DK	-	25+	40	Ju-July	DK	-	-	2	X	X	X	3600	-
42	"	DK	-	30	300	YR	DK	DK	-	5	-	X	-	1200	Scotts (1)
43	"	DK	-	20	30	1/wkend month	-	-	-	7	X	X	-	1800	Scotts (1)

SEPTIC SYSTEM INVENTORY
WEQUAQUET LAKE

LOT NUMBER	ADDRESS	SEPTIC/CESSPOOL	PROBLEM	AGE (YRS)	DIST (FT)	OCCUPIED	PUMPED	ADDITIVES	FLOODING	RESIDENTS	DISHWASHER	WASHING MACHINE	GARBAGE DISPOSAL	LAWN AREA	FERTILZER
44	Johnson	C	-	35+	60	YR	3-5	-	-	1	X	X	-	1800	Lawn Co. (4)
45	"	S	-	22	90	YR	once	X	-	2	X	X	-	4000	Lawn Co. (4)
46	"	S	-	22	90	may-aug	once	-	-	2	X	X	X	3500	Scotts (2)
47	"	S	over use	22	60	YR	3-5	-	-	1	X	X	-	1400	-
48	Shoot Fly-Cing Hill	-		1	80	YR	3-5	-	-	3	X	X	-	1200	Scotts (1)
49	Annabel Pt. Rd.	S	-	11	70	YR	3-5	X	-	3	X	X	X	800	Lawn Co. (4)
50	"	C	-	20	90	YR	3-5	-	-	1	X	X	-	500	-
51	"	S	-	25	70	YR	once	-	-	2	X	X	-	800	Scotts (2)
52	"	S	-	18	130	YR	1-2	-	-	4	-	X	-	3200	DK (1)
53	"	S	-	0	60	YR	-	-	-	3	-	-	-	1600	-
54	"	DK	poor soil	40	160	YR	1-2	X	regular back-up	4	-	-	-	1600	-
55	"	S	-	25	150	YR	1-2	-	-	3	-	X	-	2000	cheap stuff
56	Willow Run Dr.	S	-	15	70	YR	1-2	-	-	3	-	X	-	1200	-
57	"	S	-	6	100	YR	-	-	-	4	X	X	-	1600	Scotts (1)
						LONG POND									
58	Sachem	S	-	10	80	YR	1-2	-	heavy rain	4	X	X	X	2400	Lawn Co. (4)
59	"	C	over use	18/2	70	YR	3-5	-	-	3	X	X	-	400	Scotts (1)
60	28	C	over use	15+	70	YR	3-5	-	-	3	-	-	-	300	-
61	"	C	-	23	70	YR	once	-	-	3	-	X	X	3500	-
62	"	C	-	30	90	YR	1-2	-	-	2	X	X	X	3200	Gr. Machine
63	"	DK	-	17	130	YR	-	-	-	1	X	X	X	700	Scotts (1)
64	"	S	-	15	100	YR	1-2	-	-	2	-	-	-	1000	Organic (1)

SEPTIC SYSTEM INVENTORY
WEQUAQUET LAKE

LOT NUMBER	ADDRESS	SEPTIC/CESSPOOL	PROBLEM	AGE (YRS)	DIST (FT)	OCCUPIED	PUMPED	ADDITIVES	FLOODING	RESIDENTS	DISHWASHER	WASHING MACHINE	GARBAGE DISPOSAL	LAWN AREA	FERTILZER
65	28	S	-	1	90	YR	-	-	-	2	-	X	-	600	-
66	"	C	over use	18	120	YR	1-2	-	-	2	-	-	-	100	-
67	"	C	-	25+	180	YR	twice	-	-	1	-	-	-	0	-
68	"	DK	-	20	40	YR	once	-	-	2	X	X	-	1400	5-10-5 (½)
69	"	C	-	20/35	80	YR	1-2	X	-	3	X	-	-	800	-
70	"	C	-	25	20	YR	1-2	-	-	1	-	-	-	0	-
71	"	S	-	35	80	YR	once	X	-	3	X	X	-	8000	-
72	"	C	-	10	120	YR	1-2	-	-	2	-	X	-	400	-
73	"	C	-	DK	120	YR	-	-	-	1	-	-	-	1600	-
74	"	C	-	20+	100	YR	-	-	-	1	-	X	-	15,000	-


INTERCHANGE
Golf Course
Shoottflying Hill
Water Tank
Radio Tower
Cranberry Bog
Public Landing
Point Shirley
Lewis Island
Bearse Pond
Nyes Pt
Nyes Neck
Stoney Pt
WEQUAQUET LAKE
Gooseberry Island
Lewis Pt
SEPTIC SYSTEM INVENTORY
Fuller Pt
Long Pt
Hayes Pt
Little Pt
Great Pt
SHOOTFLYING HILL RD
GREAT MARSH RD
WEST
BM
Pond
Beechwood Cem
Long
PINE
St Francis Xaviers
Cranberry Bog

APPENDIX F - Phytoplankton Analyses

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
SPHAEROCYSTIS	IIII	53	
GOLENKINIA	II	27	
CLOSTERIOPSIS	II	27	
SCHROEDERIA	IIII	53	
CLOSTERIUM	II	27	
TOTAL		187	
Filamentous green algae			
TOTAL			
Flagellated green algae			
CHLAMYDOMONAS	I	13	
TOTAL		13	
BACILLARIOPHYCEAE			
Centric diatoms			

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 1A

COLLECTION LOCATION: WEQUAQUET

COLLECTED BY: CHARBONNEAU / NELSON

DATE COLLECTED: 10/24/85

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: SURFACE

AREA SCRAPED:

SUBSTRATE:

TOTAL PHYTOPLANKTON Parts A&B (cells/ml): 385 cells/ml

IDENTIFIED BY: CHARBONNEAU

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
NAVICULA	IIII-	66	
FRAGILARIA	I	13	
ANOMOENEIS	I	13	
ASTERIONELLA	II	27	
AMPHORA	I	13	
TOTAL		132	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
MALLOMONAS	III	40	
TOTAL		40	
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TRACHELOMONAS	I	13	
TOTAL		13	
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

REMARKS:

3 STRIPS @ 200X

Rel. little amorphous material

385 cells/ml.

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
SCHROEDERIA	II	27	
CLOSTERIOPSIS	III	40	
CLOSTERIUM	I	13	
ANKISTRODESMUS	IIII	53	
GLOEOCYSTIS	I	13	
OOCYSTIS	I	13	
PROTOCOCCUS	I	13	
TOTAL		172	
Filamentous green algae			
TOTAL			
Flagellated green algae			
CHLAMYDOMONAS	IIII	80	
TOTAL		80	
BACILLARIOPHYCEAE			
Centric diatoms			

STATION NUMBER: 2A

COLLECTION LOCATION: WEQUAQUET

COLLECTED BY: CHARB. / NELSON

DATE COLLECTED: 10/24/85

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: SURFACE

AREA SCRAPED: —

SUBSTRATE: —

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 451 cells/ml.

IDENTIFIED BY: CHARBONNEAU

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
FRAGILARIA	I	13	
NAVICULA	I	13	
SYNEDRA	II	27	
ASTERIONELLA	I	13	
DIATOMELLA	I	13	
TOTAL		79	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
MALLOMONAS	IIII I	80	
Dinobryon	III	90	
TOTAL		120	
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

REMARKS:

3 STRIPS @ 200X

Rel. little amorphous material

451 cells/ml

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
SPHAEROCYSTIS	II	27	
ANKISTRODESMUS	III	40	
GOLENKINIA	I	13	
TOTAL		80	
Filamentous green algae			
TOTAL			
Flagellated green algae			
CHLAMYDOMONAS	IIII	80	
TOTAL		80	
BACILLARIOPHYCEAE			
Centric diatoms			

STATION NUMBER: 3

COLLECTION LOCATION: WEQUAQUET

COLLECTED BY: CHARBONNEAU

DATE COLLECTED: 10/24/85

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: SURFACE

AREA SCRAPED:

SUBSTRATE: —

TOTAL PHYTOPLANKTON Parts A&B (cells/ml): 225 cells/ml

IDENTIFIED BY: CHARBONNEAU

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
FRUSTULIA	1	13	
NAVICULA	1	13	
SYNEDRA	1	13	
TOTAL		39	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
CHRYSOCOCCUS	1	13	
TOTAL		13	
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
EUGLENA	1	13	
TOTAL		13	
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

REMARKS:

3 STRIPS @ 200x

Relatively little amorphous material.

225 cells/ml.

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
ANKISTRODESMUS	1	13	
SCHROEDERIA	1	13	
SPHAEROCYSTIS	1	13	
TOTAL		39	
Filamentous green algae			
ULOTHRIX	1	13	
TOTAL		13	
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			

STATION NUMBER: 4

COLLECTION LOCATION: WEQUAQUET

COLLECTED BY: CHARBONNEAU

DATE COLLECTED: 10/24/85

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: SURFACE

AREA SCRAPED:

SUBSTRATE: —

TOTAL PHYTOPLANKTON Parts A&B (cells/ml): 118 cells/ml

IDENTIFIED BY: CHARBONNEAU

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
NAVICULA	III	40	
FRAGILARIA	I	13	
DIATOMELLA	I	13	
TOTAL		66	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
TOTAL			
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

REMARKS:

3 STRIPS @ 200X

Relatively little amorphous material

118 cells/ml

IEP inc.

Periphyton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Cosmarium	I	13	
Eudorina	III	40	
Aphanocapsa	+++ III	106	
Ankistrodesmus	II	27	
Closteriopsis	I	13	
Chlorella	II	27	
Rhizosolenia (unidentified)	II	27	
TOTAL		253	long spines
Filamentous green algae			
TOTAL			
Flagellated green algae			
Heteronema	II	27	
TOTAL		27	
BACILLARIOPHYCEAE			
Centric diatoms			
Cocconeis	III	40	
TOTAL		40	

STATION NUMBER: #1

COLLECTION LOCATION: Wequaquet

COLLECTED BY: B.C.

DATE COLLECTED: 11/25/85

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 385 cells

IDENTIFIED BY:

N.Q. = not quantitative

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Frustulia	1	13	
Fragilaria	1	13	
Synedra	1	13	
	TOTAL	39	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Mallomonas	1	13	
dinobryon	1	13	
	TOTAL	26	
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

Periphyton Sedgwick-Rafter Count

Part B

REMARKS:

3 strips @ 200×

iEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
	TOTAL		
Filamentous blue-green algae			
Anabena	1	13	
	TOTAL	13	
CHLOROPHYCEAE			
Non-filamentous green algae			
Sphaerocystis	𝍸1	80	
Chlorococcum	111	40	
Chlamydomonas	111	40	
Aphanocasosa	1111	53	
Chlorella	1	13	
Closteriopsis	1	13	
	TOTAL	239	
Filamentous green algae			
	TOTAL		
Flagellated green algae			
	TOTAL		
BACILLARIOPHYCEAE			
Centric diatoms			

Periphyton Sedgwick-Rafter Count

Part A

STATION NUMBER: 2

COLLECTION LOCATION: Wequaquet

COLLECTED BY: B.C.

DATE COLLECTED: 11/25/85

SAMPLE VOLUME: 1ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 317 cells

IDENTIFIED BY: [signature]

N.Q. = not quantitative

IEP inc.

RGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
ACILLARIOPHYCEAE			
Pennate diatoms			
Surirella	1	13	
NAVICULA	1	13	
Frustulia	1	13	
TOTAL		39	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Mallomonas	1	13	
Dinobryon	1	13	
TOTAL		26	
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

Periphyton Sedgwick-Rafter Count

Part B

REMARKS:

3 strips @ 200X

IEP inc.

Periphyton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Aphanocapsa	IIII	53	
Ankistrodesmus	II	27	
Chlamydomonas	II	27	
Chlorella	I	13	
Sphaerocystis	II	27	
Crucigenia	I	13	
TOTAL		160	
Filamentous green algae			
TOTAL			
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			
Cyclotella	I	13	
TOTAL		13	

STATION NUMBER: #3

COLLECTION LOCATION: Wequaquet

COLLECTED BY: B.C.

DATE COLLECTED: 11/25/85

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 240

IDENTIFIED BY: Mark Lam

N.Q. = not quantitative

IEP inc.

Periphyton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Navicula	HH	67	
TOTAL		67	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
TOTAL			
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

REMARKS:

3 strips @ 200×

IEP inc.

Periphyton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
[redacted]			
TOTAL			
Filamentous blue-green algae			
Anabena	I	13	
Aphanocapsa	II	27	
TOTAL		40	
CHLOROPHYCEAE			
Non-filamentous green algae			
Chlamydomonas	I	13	
Closteriopsis	I	13	
Chlorococcum	HHI	80	
Sphaerocystis	II	27	
TOTAL		133	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Euglena	II	27	
TOTAL		27	
BACILLARIOPHYCEAE			
Centric diatoms			
Cocconeis	II	27	
Cyclotella	I	13	
TOTAL		40	

STATION NUMBER: #4

COLLECTION LOCATION: Wequaquet

COLLECTED BY: Bob Chaeb

DATE COLLECTED: 11/25/85

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE: Surface

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 306

IDENTIFIED BY: Mark Thomas

N.Q. = not quantitative

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Frustulia	III	40	
TAbellaria	1	13	
TOTAL		53	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
TOTAL			
DINOPHYCEAE			
Dinoflagellates			
SYNURA	1	13	
TOTAL		13	
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

Periphyton Sedgwick-Rafter Count

Part B

REMARKS:

3 strips @ 200x

Very little material

IEP INC.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
Aphanocapsa	III	40	
TOTAL		40	
CHLOROPHYCEAE			
Non-filamentous green algae			
Cosmarium	I	13	
Closteriopsis	II	27	
TOTAL		40	
Filamentous green algae			
TOTAL			
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			
Cocconeis	II	27	
TOTAL		27	

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 1A

COLLECTION LOCATION: Wequaquet

COLLECTED BY: B.C.

DATE COLLECTED: 12/30

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 254 cells/ml

IDENTIFIED BY: Marla Larson

N.Q. = not quantitative

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Navicula	II	27	
Fragilaria	HH	67	
Asterionella	I	13	
Fragilaria	I	13	
	TOTAL	120	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Dinobryon	II	27	
	TOTAL	27	
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			
	TOTAL		

Phytoplankton Sedgwick-Rafter Count

Part B

REMARKS:

3 strips at 200X

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Sphaerocystis	1	13	
TOTAL		13	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	III	40	
TOTAL		40	
BACILLARIOPHYCEAE			
Centric diatoms			
Cocconeis	III	40	
cyclotella	III	40	
TOTAL		80	

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 4

COLLECTION LOCATION: Wequaquet

COLLECTED BY: B.C.

DATE COLLECTED: 12/30/85

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH:

AREA SCRAPED:

SUBSTRATE: Surface

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 159 cells/ml

IDENTIFIED BY: Mark Farag

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Navicula	1	13	
Frustulia	1	13	
TOTAL		26	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
TOTAL			
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			
TOTAL			

REMARKS:

3 strips @ 200X

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
Anacystis	11	27	
	TOTAL	27	
Filamentous blue-green algae			
	TOTAL		
CHLOROPHYCEAE			
Non-filamentous green algae			
Arthrodesmus	1	13	
Oocystis	1	13	
	TOTAL	26	
Filamentous green algae			
	TOTAL		
Flagellated green algae			
Chlamydomonas	HH HH HH	200	
	TOTAL	200	
BACILLARIOPHYCEAE			
Centric diatoms			
Cocconeis	111	40	
	TOTAL	40	

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 1

COLLECTION LOCATION: Wequaquet

COLLECTED BY: Dave Worden

DATE COLLECTED: 1/29/86

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH: surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 531

IDENTIFIED BY: Mark Faraga

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Navicula	HH HH II	173	
Asterionella	I	13	
Melosira	I	13	
Fragilaria	I	13	
Synedra	I	13	
Frustulia	I	13	
	TOTAL	238	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

REMARKS:

3 strips @ 200X

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Closteriopsis	II	27	
Gloeocystis	I	13	
oocystis	III	40	
TOTAL		80	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	II	27	
TOTAL		27	
BACILLARIOPHYCEAE			
Centric diatoms			
Cyclotella	IIII	67	

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 2

COLLECTION LOCATION: Wequaquet

COLLECTED BY: Dave Worden

DATE COLLECTED: 11/29/86

SAMPLE VOLUME: 1 ml

DILUTION FACTOR:

DEPTH: surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 413

IDENTIFIED BY: Mark Faraco

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Navicula	//////	133	
Synedra	////	80	
Anomoneis	/	13	
	TOTAL	226	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
Unidentified Euglenoid	1	13	
	TOTAL	13	
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

REMARKS:

3 strips @ 200X

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Oocystis	11	27	
TOTAL		27	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	++++ ++++ 1	146	
TOTAL		146	
BACILLARIOPHYCEAE			
Centric diatoms			
TOTAL			

STATION NUMBER: Wequaquet

COLLECTION LOCATION: 3

COLLECTED BY: Dave Warden

DATE COLLECTED: 1/29/86

SAMPLE VOLUME: 1ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 386

IDENTIFIED BY: Mark Faneuf

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Synedra	II	27	
Navicula	III	40	
Asterionella	I	13	
	TOTAL	80	
CHRYSOPHYCEAE			
Other pigmented algae			
Chrysococcus	HH	67	
Synura	I	13	
		80	
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
Perididium	I	13	
	TOTAL	13	
PROTOZOA			
Euglena	III	40	
	TOTAL	40	
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

REMARKS:

3 strips @ 200 X

mostly flagellates!

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Closteriopsis	1	13	
TOTAL		13	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	IIII	93	
TOTAL		93	
BACILLARIOPHYCEAE			
Centric diatoms			
Cyclotella	1	13	

STATION NUMBER: ~~#~~ #4

COLLECTION LOCATION: Wequaquet

COLLECTED BY: Dave Warden

DATE COLLECTED: 1/29/86

SAMPLE VOLUME: 1ml

DILUTION FACTOR:

DEPTH: surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 238

IDENTIFIED BY:

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
navicula	HH	67	
Surirella	1	13	
Synedra	1	13	
	TOTAL	93	
CHRYSOPHYCEAE			
Other pigmented algae			
dinobryon	1	13	
		13	
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
unidentified Euglenoid	1	13	
	TOTAL	13	
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

REMARKS:

3 strips @ 200 x

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Staurastrum	1	13
Tetraedron	1	13
Closteriopsis	1	13
	TOTAL	39
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	11	27
	TOTAL	27
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	1	13
	TOTAL	13

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 1

DATE COLLECTED: 2/27/86

DATE EXAMINED: 3/3/86

COLLECTED BY: MJ & DW

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 425 cells/ml

IDENTIFIED BY: Mark Swanger

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	//// ///	106
Navicula	//// ////	133
Tetracyclus	/	13
Amphora	///	40
Tabellaria	//	27
Centric diatoms		
	TOTAL	319
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	//	27
	TOTAL	27
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Oocystis	/	13
Closteriopsis	/	13
	TOTAL	26
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH II	93
	TOTAL	93
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

COLLECTION LOCATION
Wequaquet

STATION NUMBER
2

DATE COLLECTED
2/27/86

DATE EXAMINED
3/3/86

COLLECTED BY
DW & MJ

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
212 cells/ml

IDENTIFIED BY
Mark Faraco

3 STRIPS @200X

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	////	53
Navicula	///	40
Centric diatoms		
	TOTAL	93
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Staurastrum	I	40
Oocystis	II	20
	TOTAL	60
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	++++ ++++ ++++ ++++	500
	TOTAL	500
EUGLENOPHYCEAE		
Euglena	III	60
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chroococcus	III	60
Mallomonas	II	40
Ochromonas	I	20
	TOTAL	120

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weaverwet

STATION NUMBER
3

DATE COLLECTED
7/27/86

DATE EXAMINED
3/3/86

COLLECTED BY
DW & MF

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
1100 cell/ml

IDENTIFIED BY
Mark Sarvey

2 STRIPS @ 200+

ENUMERATION FACTOR
20

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH HH II	240
Amphora	I	20
Frustulia	II	40
Fragilaria	II	40
Tabellaria	I	20
Centric diatoms		
	TOTAL	360
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
	TOTAL	
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	||||-|||	133
	TOTAL	133
EUGLENOPHYCEAE		
Euglena	1	13
	TOTAL	13
CHRYSOPHYCEAE		
other Pigmented Algae		
Dinobryon	1	13
	TOTAL	13
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
4

DATE COLLECTED
2/27/86

DATE EXAMINED
3/3/86

COLLECTED BY
DW & MJ

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
226 cells/ml

IDENTIFIED BY
Mark Janosy

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH	67
Centric diatoms		
	TOTAL	67
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	1	13
	TOTAL	13
Filamentous Green Algae		
Oedogonium	1	13
	TOTAL	13
Flagellated Green Algae		
Chlamydomonas	HH HH III	186
	TOTAL	186
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Mallomonas	1	13
	TOTAL	13

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 1A

DATE COLLECTED: 3/10/86

DATE EXAMINED: 3/14/86

COLLECTED BY: Dave Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 478 cells/ml

IDENTIFIED BY: Mark Faroog

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	++++ ++++ ++++	200
Tetracyclus	/	13
Amphora	/	13
Centric diatoms		
	TOTAL	226
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocaspsa	//	27
	TOTAL	27
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Closteriopsis	I	13
	TOTAL	13
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH I	67
	TOTAL	67
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Mallomonas	I	13
Dinobryon	III	40
	TOTAL	53

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 2A

DATE COLLECTED: 3/10/86

DATE EXAMINED: 3/14/86

COLLECTED BY: Dave Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ϕ

DEPTH: surface

TOTAL PHYTOPLANKTON (#/ml): 399 cells/ml

IDENTIFIED BY: [signature]

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	++++ ++++ ++++	200
Asterionella	II	27
Amphora	I	13
Synedra	I	13
Centric diatoms		
Cocconeis	I	13
	TOTAL	266
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet
STATION NUMBER: 3A
DATE COLLECTED: 3/10/86
DATE EXAMINED: 3/14/86
COLLECTED BY: Dave Worden
ALIQUOT SAMPLE VOLUME: 1 ml
DILUTION FACTOR: ϕ

DEPTH: Surface
TOTAL PHYTOPLANKTON (#/ml): 386 cells/ml
IDENTIFIED BY: Mark Tarbox
STRIPS @
ENUMERATION FACTOR

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
	TOTAL	
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chromulina	1	13
Chlamydomonas	𝍸 𝍸 𝍸 1	213
	TOTAL	226
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

iEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Amphora	I	13
Synedra	II	27
navicula	IIII	67
Centric diatoms		
	TOTAL	107
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	I	13
	TOTAL	13
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Oocystis	I	13
	TOTAL	13
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH II	93
Chromulina	I	13
	TOTAL	106
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	HH III	106
	TOTAL	106

COLLECTION LOCATION: Weguiaquet

STATION NUMBER: 4A

DATE COLLECTED: 3/10/86

DATE EXAMINED: 3/14/86

COLLECTED BY: Dave Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 305 cells/ml

IDENTIFIED BY: Mark Famoso

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Tabellaria	II	27
Synedra	I	13
Navicula	III	40
Centric diatoms		
	TOTAL	80
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	卌 卌 卌 卌 卌	1303
	卌 卌 卌 卌 卌	
	卌 卌 卌 卌 卌	
	卌 卌 卌 卌 |||	
	TOTAL	1303
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	卌 卌 卌	200
	TOTAL	200
EUGLENOPHYCEAE		
Euglena			13
	TOTAL	13
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Waquoit

STATION NUMBER: 2

DATE COLLECTED: 4/7/86

DATE EXAMINED: 4/10/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 1623 cells/ml

IDENTIFIED BY: [signature]

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	////	53
Frustulia	//	27
Centric diatoms		
Cocconeis	//	27
	TOTAL	107
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
* Volvox	||||| ||||| ||||| ||||| ||||| ||||| |||| ||||| ||||| ||||| ||||| ||||| |||||	1280
Elkatothrix			20
	TOTAL	1300
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	||||| ||||| ||||	280
	TOTAL	280
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Waquoit

STATION NUMBER: 2

DATE COLLECTED: 4/7/86

DATE EXAMINED: 4/10/86

COLLECTED BY: Dave Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: surface

TOTAL PHYTOPLANKTON (#/ml): 1640 cells /ml

IDENTIFIED BY: [illegible signature]

2 STRIPS @ 200X

ENUMERATION FACTOR

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	//	40
Centric diatoms		
Cocconeis	1	20
	TOTAL	60
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

* Volvox visible with eye, very Abundant in all Wequaquet Samples!

IEP inc.

ORGANISM	TALLY	# /ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	1200
	TOTAL	1200
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	𝍸 𝍸 𝍸	300
Cryptomonas	𝍸 𝍸	200
	TOTAL	500
EUGLENOPHYCEAE		
Heteronema	I	20
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chromulina	𝍸	100
Chrysococcus	𝍸	100
	TOTAL	200

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet LAKE

STATION NUMBER
3

DATE COLLECTED
4/7/86

DATE EXAMINED
4/11/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON (#/ml)
1920 cells/ml

IDENTIFIED BY
Farooque

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Centric diatoms		
	TOTAL	
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

Volvox!

IEP inc.

ORGANISM	VALVES	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	~~HHT HHT HHT HHT HHT~~ HH HH HH HH HH ~~HHT HHT HH HH HHT~~ HHT HH	1700
	TOTAL	1700
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	III	60
	TOTAL	60
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	II	40
	TOTAL	40

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaquet

STATION NUMBER
4

DATE COLLECTED
4/7/86

DATE EXAMINED
4/11/86

COLLECTED BY
D Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON (#/ml)
1840 cells/ml

IDENTIFIED BY
Tarozzo

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	11	40
Centric diatoms		
	TOTAL	40
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

Volvox! - Broken down into small colonies and Numerous individual cells.

IEP Inc.

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Weoruquet
STATION NUMBER: 1A
DATE COLLECTED: 4/22/86
DATE EXAMINED: 4/24/86
COLLECTED BY: D. Worden
ALIQUOT SAMPLE VOLUME: 1 ml
DILUTION FACTOR: ∅
DEPTH: Surface
TOTAL PHYTOPLANKTON (#/ml): 700 cells/ml
IDENTIFIED BY: Sarorgue
2 STRIPS @ 200X
ENUMERATION FACTOR: 20

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Voluox	~~||||~~ ~~||||~~	200
Elkatothrix	|	20
	TOTAL	220
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	|||	60
	TOTAL	60
EUGLENOPHYCEAE		
Heteronema	|||	60
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

iEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH HH |	220
Synedra	||	40
Cymbella	|	20
Asterionella	||	60
Centric diatoms		
	TOTAL	340
DINOPHYCEAE		
Peridinium	|	20
	TOTAL	20
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

Volvox Visible!

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	//// //// /	220
	TOTAL	220
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	/	20
	TOTAL	20
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	///	60
	TOTAL	60

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
2A

DATE COLLECTED
4/22/86

DATE EXAMINED
4/24/86

COLLECTED BY
D. Warden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
440 cells/ml

IDENTIFIED BY
Jarocyan

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	COUNT
BACILLARIOPHYCEAE		
Pennate diatoms		
Anomoneis	II	40
Navicula	IIII	80
Frustulia	I	20
Centric diatoms		
	TOTAL	140
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	𝍸 𝍸 III	260
Closteriopsis	I	20
Gleocystis	I	20
	TOTAL	300
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	𝍸 𝍸	200
	TOTAL	200
EUGLENOPHYCEAE		
Heteronema	II	40
Euglena	I	20
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	𝍸	100
	TOTAL	100

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet Lake

STATION NUMBER
3A

DATE COLLECTED
4/22/86

DATE EXAMINED
4/24/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
700 cells/ml

IDENTIFIED BY
Jaroz

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	# / mm.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	1	20
Centric diatoms		
	TOTAL	20
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Lyngbya	1	20
	TOTAL	20
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 49

DATE COLLECTED: 4/22/86

DATE EXAMINED: 4/24/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 460 cells/mL

IDENTIFIED BY: Tarocqua

2 STRIPS @ 200X

ENUMERATION FACTOR: 20

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	HH HH	200
	TOTAL	200
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH HH	200
	TOTAL	200
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

iEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	II	40
Fabellaria	I	20
Centric diatoms		
	TOTAL	60
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Coelocystis	1	20
Volvox	HH HH II	240
Elkatothrix	1	20
	TOTAL	280
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH HH	200
Cryptomonas	1	20
	TOTAL	220
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet Lake

STATION NUMBER
1A

DATE COLLECTED
5/5/86

DATE EXAMINED
5/7/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
820 cells/ml

IDENTIFIED BY
Larocque

2 STRIPS @ 200 X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	++++ ||||	180
Synedra	||||	80
Frustulia	|	20
Centric diatoms		
	TOTAL	≥80
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Anacystis	||	40
	TOTAL	40
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Elakatothrix	HHT	100
Volvox	III	60
Cosmarium	I	20
Centritractus	I	20
Gloeocystis	I	20
Ankistrodesmus	I	20
	TOTAL	240
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HHT II	140
Carteria	IIII	80
	TOTAL	220
EUGLENOPHYCEAE		
Heteronema	III	60
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

COLLECTION LOCATION: Wequaquet Lake

STATION NUMBER: 2A

DATE COLLECTED: 5/5/86

DATE EXAMINED: 5/8/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: Surface

TOTAL PHYTOPLANKTON (Total): 660 cells/ml

IDENTIFIED BY: Farrugia

2 STRIPS @ 200X

ENUMERATION FACTOR: 20

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	II	40
Navicula	III	60
Tabellaria	I	20
Fragilaria	I	20
Centric diatoms		
	TOTAL	140
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Cosmarium	I	20
Ankistrodesmus	II	40
Chlorella	II	40
Gleocystis	IIII	80
Volvox	I	20
Pediastrum	I	20
	TOTAL	220
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH HH I	220
	TOTAL	220
EUGLENOPHYCEAE		
Euglena	III	60
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

COLLECTION LOCATION: Weaugaquet Lake

STATION NUMBER: 3A

DATE COLLECTED: 5/5/86

DATE EXAMINED: 5/8/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1ml

DILUTION FACTOR: Ø

DEPTH: surface

TOTAL PHYTOPLANKTON (Total): 680 cells/ml

IDENTIFIED BY: Farrague

2 STRIPS @ 200x

ENUMERATION FACTOR: 20

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH III	160
Anomoeis	I	20
Fragil		
Centric diatoms		
	TOTAL	180
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
s/katothrix	1	20
oocystis	1	20
Volvox	11	40
Gleocystis	1	20
	TOTAL	100
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Carteriea	11	40
Chlamydomonas	1	20
	TOTAL	60
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaquet

STATION NUMBER
4/4

DATE COLLECTED
5/5/86

DATE EXAMINED
5/8/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 mL

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (Natural)
360 cells/mL

IDENTIFIED BY
Saroger

2 STRIPS @ 200x

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Naviculo	HH 1111	180
Centric diatoms		
	TOTAL	180
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
oscillatoria	1	20
	TOTAL	20
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Sphaerocystis	I	13
Chlorella	HH HH HH I	213
Volvox	HH	67
Cosmarium	I	13
Ankistrodesmus	II	27
Elakatothrix	I	13
Gleocystis	II	27
	TOTAL	373
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	II	27
	TOTAL	27
EUGLENOPHYCEAE		
Euglena	II	27
	TOTAL	27
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	I	13
	TOTAL	13

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaquet

STATION NUMBER
1A

DATE COLLECTED
5/19/86

DATE EXAMINED
5/21/86

COLLECTED BY
Jarocque / Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON (Avg.)
506 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	# / ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	I	13
Navicula	III	40
Centric diatoms		
	TOTAL	53
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	I	13
	TOTAL	13
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
/		
/	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	IIII	53
Chlorella	HH II	93
Ankistrodesmus	HH II	93
Sphaerocystis	I	13
Elkatothrix	III	40
Scenedesmus	I	13
	TOTAL	305
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH I	80
	TOTAL	80
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaquet

STATION NUMBER
2A

DATE COLLECTED
5/19/86

DATE EXAMINED
5/21/86

COLLECTED BY
Jarocque / Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
surface

TOTAL PHYTOPLANKTON (Avg.)
518 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	IIII 1	80
Asterionella	1	13
Centric diatoms		
	TOTAL	93
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	1	13
	TOTAL	13
Filamentous Blue-Green Algae		
Anabaena	11	27
	TOTAL	27
PROTOZOA		
		1
	TOTAL	1
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

IEP inc.

CHLOROPHYCEAE

Non-Filamentous Green Algae

Antistrodesmus	///	40
Chlorella	++++ ++++ //	160
Gleocystis	///	40
Volvox	++++ /	80
Cosmarium	/	13
	TOTAL	333

Filamentous Green Algae

	TOTAL	

Flagellated Green Algae

Chlamydomonas	++++ ++++ /	146
Carteria	/	13
	TOTAL	159

EUGLENOPHYCEAE

	TOTAL	

CHRYSOPHYCEAE

other Pigmented Algae

	TOTAL	

other Pigmented Flagellated Algae

Chrysococcus	//	27
	TOTAL	27

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Ukaruseet

STATION NUMBER
3A

DATE COLLECTED
5/19/86

DATE EXAMINED
5/22/86

COLLECTED BY
Jarocque / Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON (Part.)
612 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	# ORG.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	////	53
Synedra	//	27
Centric diatoms		
	TOTAL	80
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	/	13
	TOTAL	13
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Ankistrodesmus	HH IIII	120
Chlorella	HHHH	133
Protococcus	III	40
Closterium	I	13
Gleocystis	I	13
Elakatothrix	I	13
	TOTAL	332
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonad	HH III	106
	TOTAL	106
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE/ other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguiaquet

STATION NUMBER
4A

DATE COLLECTED
5/19/86

DATE EXAMINED
5/22/86

COLLECTED BY
Farrague / Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON (Final)
477 cells / ml

IDENTIFIED BY
Farrague

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Tabellaria	1	13
Navicula	1	13
Synedra	1	13
Centric diatoms		
	TOTAL	39
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	//// ///	106
Ankistrodesmus	////	53
Gleocystis	/	13
	TOTAL	172
Filamentous Green Algae		
Mougeotia	/	13
	TOTAL	13
Flagellated Green Algae		
Chlamydomonas	//// //// //// ///	239
Carteria	//	27
	TOTAL	266
EUGLENOPHYCEAE		
Euglena	//	27
Phacus	/	13
	TOTAL	40
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
Other Pigmented Flagellated Algae		
Chrysococcus	////	67

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 1A

DATE COLLECTED: 6/9/86

DATE EXAMINED: 6/13/86

COLLECTED BY: Dr. Warden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ∅

DEPTH: Surface

TOTAL PHYTOPLANKTON: 797 cells/ml

IDENTIFIED BY: M. Farrague

STRIPS @

ENUMERATION FACTOR:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS

ACILLARIOPHYCEAE		
Pennate diatoms		
Fragilaria	I	13
Synedra	IIII	67
Frustulia	I	13
NAVICULA	II	27
Centric diatoms		
Cocconeis	I	13
	TOTAL	133
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Aphanocapsa	IIII III	106
	TOTAL	106
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	I	13
Antistrodesmus	HH	67
Chlorella	IIII	53
	TOTAL	133
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH HH HH III	239
	TOTAL	239
EUGLENOPHYCEAE		
Heteronema	I	13
Euglena	I	13
	TOTAL	26
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	III	40

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
2A

DATE COLLECTED
6/9/86

DATE EXAMINED
6/13/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON
664 cells/ml

IDENTIFIED BY
Larocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	COUNT
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HHT HHT	120
Centric diatoms		
Cocconeis	/	13
	TOTAL	133
DINOPHYCEAE		
	TOTAL	
CYANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Aphanocapsa	HHT	80
	TOTAL	80
Filamentous Blue-Green Algae		
Oscillatoria	/	13
	TOTAL	13
PROTOZOA	/	
	TOTAL /	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Closteriopsis	I	13
Chlorella	HHT	67
Sphaerocystis	II	27
	TOTAL	107
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HHT HHT I	146
	TOTAL	146
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
DINOBRYON	I	13

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaqvet

STATION NUMBER
3

DATE COLLECTED
6/9/86

DATE EXAMINED
6/13/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON
443 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200 X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ACILLARIOPHYCEAE		
Pennate diatoms		
Fructulia	I	13
Navicula	III	40
Asterionella	II	27
Synedra	II	27
Centric diatoms		
	TOTAL	97
)INOPHYCEAE		
	TOTAL	
:YNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	IIII	67
	TOTAL	67
Filamentous Blue-Green Algae		
Anabaena	I	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Ankistrodesmus	//	27
Closteriopsis	/	13
Gleocystis	/	13
Desmidium	/	13
Chlorella	///	40
(6) Centritractus	/	13
	TOTAL	119
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	////	53
	TOTAL	53
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
dinobryon	~~////~~ /	80
Chrysococcus	///	40

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Waquoit

STATION NUMBER: 4 A

DATE COLLECTED: 6/9/86

DATE EXAMINED: 6/13/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ø

DEPTH: surface

TOTAL PHYTOPLANKTON (ml): 412 cells/ml

IDENTIFIED BY: Larocque

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

ACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	III	40
Synedra	I	13
Centric diatoms		
	TOTAL	53
)INOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Aphanocapsa	HH	67
	TOTAL	67
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	++++ ++++ |||	173
Gleocystis	++++	67
Elkatothrix	||||	53
Pediastrum			13
Closteriopsis			13
Cosmarium			13
	TOTAL	332
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	||||	53
	TOTAL	53
EUGLENOPHYCEAE		
Euglena			13
	TOTAL	13
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		

COLLECTION LOCATION
Wequaquet

STATION NUMBER
1A

DATE COLLECTED
6/23/86

DATE EXAMINED
6/24/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (Final)
718 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

LARIOPHYCEAE		
nate diatoms		
Navicula	HH	67
Asterionella	I	13
Synedra	II	27
Centric diatoms		
	TOTAL	107
DINOPHYCEAE		
Massartia	III	40
Ceratium	I	13
	TOTAL	53
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Anacystis	HH HH II	160
	TOTAL	160
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	I	13
Closterium	I	13
Ankistrodesmus	II	27
Sphaerocystis	IIII	66
	TOTAL	119
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	III	40
Cryptomonas	II	27
	TOTAL	67
EUGLENOPHYCEAE		
Trachelomonas	II	27
Euglena	I	13
	TOTAL	40
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	II	27
Dinobryon	I	13
	TOTAL	40

COLLECTION LOCATION: WEQUAQUET

STATION NUMBER: 2

DATE COLLECTED: 6/23/86

DATE EXAMINED: 6/25/86

COLLECTED BY: D. WORDEN

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 399 cells/mL

IDENTIFIED BY: R. CHARBONNEAU

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP Inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	IIII 1	80
Synedra	11	27
Navicula	1	13
Centric diatoms		
	TOTAL	(120)
DINOPHYCEAE		
Massartia	1	13
	TOTAL	(13)
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

Rel. little amorphous mat.

Rel. sparse sample

397 cells/ml

Flagellates, mostly.

IEP inc.

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Ankistrodesmus	III	40
Sphaerocystis	IIII	66
Golenkinia	III	40
	TOTAL	146
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	II	27
Cryptomonas	I	13
	TOTAL	40
EUGLENOPHYCEAE		
Trachelomonas	III	40
	TOTAL	40
CHRYSOPHYCEAE		
other Pigmented Algae		
Centritractus	I	13
	TOTAL	13
other Pigmented Flagellated Algae		
Dinobryon	IIII IIII IIII IIII II	393
Chrysococcus	II	27
	TOTAL	420

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: WEQUAQUET

STATION NUMBER: 3

DATE COLLECTED: 6/23/86

DATE EXAMINED: 6/25/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: ?

TOTAL PHYTOPLANKTON (*/ml): 705 cells/ml

IDENTIFIED BY: R. Charbonneau

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	IIII	53
Synedra	II	27
Centric diatoms		
	TOTAL	(80)
DINOPHYCEAE		
Massartia	IIII	66
	TOTAL	(66)
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

Rel. little amorphous mat.

mostly Dinobryon.

705 cells/ml

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Ankistrodesmus	IIII	66
Closterium	II	27
Golenkinia	I	13
	TOTAL	(106)
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	II	27
	TOTAL	(27)
EUGLENOPHYCEAE		
Trachelomonas	II	27
	TOTAL	(27)
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	IIII IIII IIII IIII II	293
Mallomonas	III	40
Chrysococcus	I	13
	TOTAL	(346)

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: WEQUAQUET

STATION NUMBER: 4

DATE COLLECTED: 6/23/86

DATE EXAMINED: 6/25/86

COLLECTED BY: Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 613 cells/ml

IDENTIFIED BY: Charbonneau

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

IEP Inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	II	27
Centric diatoms		
	TOTAL	(27)
DINOPHYCEAE		
Massartia	IIII	53
	TOTAL	(53)
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Oscillatoria	II	27
	TOTAL	(27)
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

Rel. little amorphous mat.

613 cells/ml

Mostly Dinobryon.

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	卌 III	106
Staurastrum	I	13
Gleocystis	III	40
Closterium	III	40
Sphaerocystis	II	27
	TOTAL	226
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	II	27
Chlamydomonas	I	13
	TOTAL	40
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 II	891
	TOTAL	891

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 1A

DATE COLLECTED: 7/7/86

DATE EXAMINED: 7/9/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 1569 cells/ml

IDENTIFIED BY: Jaroszyne

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	𝍸 𝍸 𝍸 |||	239
Fragilaria	I	13
Navicula	II	27
Centric diatoms		
	TOTAL	279
DINOPHYCEAE		
Massartia	𝍸 𝍸	133
	TOTAL	133
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	𝍸	67
Pediastrum	/	13
	TOTAL	80
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	////	53
Cryptomonas	//	27
	TOTAL	80
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 /	811
	TOTAL	811

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 2A

DATE COLLECTED: 7/7/86

DATE EXAMINED: 7/9/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 1398 cells/ml

IDENTIFIED BY: Larocque

STRIPS @

ENUMERATION FACTOR:

IEP Inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	𝍸𝍸𝍸 |||	239
Synedra	𝍸	67
TAbellaria	//	27
NAvicula	//	27
Centric diatoms		
	TOTAL	360
DINOPHYCEAE		
Massartia	𝍸	67
	TOTAL	67
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Dictyosphaerium	IIII	53
Chlorella	HH II	93
Sphaerocystis	I	13
Pediastrum	I	13
	TOTAL	172
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	III	40
	TOTAL	40
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	HH HH	133
	TOTAL	133

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
3A

DATE COLLECTED
7/7/86

DATE EXAMINED
7/9/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
?

TOTAL PHYTOPLANKTON (#/ml)
610 cells/ml

IDENTIFIED BY
Jacque

STRIPS @

ENUMERATION FACTOR

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	HHL III	106
Navicula	HH II	93
Centric diatoms		
	TOTAL	199
DINOPHYCEAE		
Massartia	III	40
Peridinium	I	13
	TOTAL	53
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Agmenellum	I	13
	TOTAL	13
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Closterium	II	27
Sphaerocystis	I	13
Chlorella	II	27
	TOTAL	(67)
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	II	27
Cryptomonas	I	13
	TOTAL	(40)
EUGLENOPHYCEAE		
Trachelomonas	I	13
	TOTAL	(13)
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	IIII I	80
	TOTAL	(80)

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: WEQUAQUET

STATION NUMBER: 4

DATE COLLECTED: 7/7/86

DATE EXAMINED: 7/10/86

COLLECTED BY: Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: COLUMN ?

TOTAL PHYTOPLANKTON (#/ml): 226 cells/ml

IDENTIFIED BY: R Charbonneau

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP Inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	1	13
Centric diatoms		
Cocconeis	1	13
	TOTAL	(26)
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

Reh little amorphous mat.

Very Sparse Sample.

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Crucigenia	I	13
Pediastrum	II	27
Gleocystis	II	27
Kirchneriella	II	27
Dictyosphaerium	I	13
Staurastrum	I	13
Closteriopsis	I	13
	TOTAL	133
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH	67
	TOTAL	67
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
Centritractus	I	13
	TOTAL	13
other Pigmented Flagellated Algae		
Dinobryon	HH HH HH II	226
	TOTAL	226

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 1

DATE COLLECTED: 7/22/86

DATE EXAMINED: 7/24/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 771 cells/ml

IDENTIFIED BY: Sarocque

STRIPS @

ENUMERATION FACTOR

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Amphora	I	13
Asterionella	III	40
Fragilaria	II	27
NAVicula	IIII	53
Synedra	I	13
Centric diatoms		
	TOTAL	146
DINOPHYCEAE		
MASSARTia	HHT HHT III	173
Peridinium	I	13
	TOTAL	186
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Kirchneriella	II	27
Pediastrum	II	27
	TOTAL	54
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH HH HH HH II	293
	TOTAL	293
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	HH HH HH	200
	TOTAL	200

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
2

DATE COLLECTED
7/22/86

DATE EXAMINED
7/24/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
?

TOTAL PHYTOPLANKTON (#/ml)
733 cells/ml

IDENTIFIED BY
Tarozgue

STRIPS @

ENUMERATION FACTOR

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
NAvicula	IIII	53
Synedra	II	27
Asterionella	I	13
Fragilania	I	13
Centric diatoms		
Cocconeis	II	27
	TOTAL	133
DINOPHYCEAE		
Peridinium	I	13
Massartia	III	40
	TOTAL	53
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	𝍸 I	80
Golenkinia	I	13
Scenedesmus	I	13
Oocystis	I	13
Pediastrum	I	13
	TOTAL	132
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	IIII	53
Cryptomonas	I	13
	TOTAL	66
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 II	426
Mallomonas	I	13
	TOTAL	439

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 3

DATE COLLECTED: 7/22/86

DATE EXAMINED: 7/24/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 985 cells/ml

IDENTIFIED BY: [signature]

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Anomoneis	I	13
Asterionella	II	27
Synedra	II	27
Navicula	⧸⧸⧸⧸	67
Centric diatoms		
	TOTAL	134
DINOPHYCEAE		
Peridinium	⧸⧸⧸⧸	67
Massartia	⧸⧸⧸⧸ IIII	120
	TOTAL	187
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Oscillatoria	II	27
	TOTAL	27
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Wequaquet
STATION NUMBER: 4
DATE COLLECTED: 7/22/86
DATE EXAMINED: 7/24/86
COLLECTED BY: D. Worden
ALIQUOT SAMPLE VOLUME: 1 ml
DILUTION FACTOR: Ø

DEPTH: ?
TOTAL PHYTOPLANKTON (*/ml): 518 cells/ml
IDENTIFIED BY: Tarcque
3 STRIPS @ 200x
ENUMERATION FACTOR: 13.3

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
	TOTAL	
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	//// //	93
Chlamydomonas	///	40
	TOTAL	133
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	//// //// ////	200
	TOTAL	200

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	I	13
NAvicula	I	13
Centric diatoms		
Cocconeis	IIII	53
	TOTAL	79
DINOPHYCEAE		
MASSARTia	HH-II	93
Peridinium	I	13
	TOTAL	106
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	1	13
Oocystis	1	13
Gleocystis	###	67
Volvox	II	27
Closteriopsis	II	27
	TOTAL	147
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	1	13
	TOTAL	13
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Mallomonas	1	13
	TOTAL	13

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 1A

DATE COLLECTED: 8/4/86

DATE EXAMINED: 8/7/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1ml

DILUTION FACTOR: 0

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 865 cells/ml

IDENTIFIED BY: Fonseque

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	ll	27
Synedra	~~llll~~ ~~llll~~ ~~llll~~ ~~llll~~ ~~llll~~ ~~llll~~ ~~llll~~	
	~~llll~~ ~~llll~~ llll	652
Centric diatoms		
	TOTAL	679
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Merismopedia	l	13
	TOTAL	13
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

iEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	II	27
Volvox	I	13
Schroederia	I	13
	TOTAL	53
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	II	27
	TOTAL	27
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 2A

DATE COLLECTED: 8/4/86

DATE EXAMINED: 8/7/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (*/ml): 612 cells/ml

IDENTIFIED BY: Faroqua

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	466
NAvicula	I	13
Centric diatoms		
	TOTAL	479
DINOPHYCEAE		
Peridinium	III	40
	TOTAL	40
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Oscillatoria	I	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	I	13
Scenedesmus	I	13
Golenkinia	III	40
Crucigenia	I	13
Closteriopsis	I	13
Pediastrum	I	13
	TOTAL	105
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	I	13
Chlamydomonas	HH III	106
	TOTAL	119
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Uroglenopsis	I	13
	TOTAL	13

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaquet

STATION NUMBER
3A

DATE COLLECTED
8/4/86

DATE EXAMINED
8/7/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
ϕ

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
463 cells/ml

IDENTIFIED BY
Larocque

3 STRIPS @ 200x

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	I	13
Synedra	II	27
Centric diatoms		
	TOTAL	40
DINOPHYCEAE		
Massartia	HH II	93
Peridinium	HH	67
	TOTAL	160
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Anabaena	I	13
Oscillatoria	I	13
	TOTAL	26
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP Inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	II	27
Golenkinia	II	27
Chlorella	II	27
	TOTAL	81
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	IIII	53
Cryptomonas	I	13
	TOTAL	66
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
Other Pigmented Algae		
Centritractus	I	13
	TOTAL	13
Other Pigmented Flagellated Algae		
Uroglenopsis	II	27
Dinobryon	II	27
	TOTAL	54

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
4A

DATE COLLECTED
8/4/86

DATE EXAMINED
8/7/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
587 cells/ml

IDENTIFIED BY
Fonseque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Centric diatoms		
	TOTAL	
DINOPHYCEAE		
Peridinium	𝍸 𝍸 𝍸	200
Massartia	𝍸 𝍸 |||	173
	TOTAL	373
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	HH	67
Gleocystis	I	13
Sphaerocystis	III	40
Scenedesmus	I	13
	TOTAL	133
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
1

DATE COLLECTED
8/18/86

DATE EXAMINED
8/27/86

COLLECTED BY
Jarocque

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
2507 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200x

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	
	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	
(+50)	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	= 2200
Asterionella	III	40
Navicula	III	40
Centric diatoms		
	TOTAL	2280
DINOPHYCEAE		
Massartia	𝍸	67
Ceratium	II	27
	TOTAL	94
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	IIII	53
oocystis	III	40
Cosmarium	II	27
	TOTAL	120
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Mallomonas	I	13
	TOTAL	13

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
2

DATE COLLECTED
8/18/86

DATE EXAMINED
8/27/86

COLLECTED BY
Farrague

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
1556 cells/ml

IDENTIFIED BY
Farrague

3 STRIPS @ 200x

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~	
	~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~	
	~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~	1397
Centric diatoms		
	TOTAL	1397
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Lyngbya	1	13
Anabaena	1	13
	TOTAL	26
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Cosmarium	I	13
Golenkinia	I	13
	TOTAL	26
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	II	40
	TOTAL	40
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	III	40
Urogleneopsis	II	27
	TOTAL	67

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
3A

DATE COLLECTED
8/18/86

DATE EXAMINED
8/27/86

COLLECTED BY
Farocqua

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
ϕ

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
345 cells/ml

IDENTIFIED BY
Farocqua

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	HH HH I	146
Centric diatoms		
	TOTAL	146
DINOPHYCEAE		
Peridinium	I	13
massartia	IIII	53
	TOTAL	66
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	III	40
Netrium	I	13
	TOTAL	53
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	II	27
Dinobryon	IIII	53
	TOTAL	80

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Weguaquet

STATION NUMBER
4a

DATE COLLECTED
8/18/86

DATE EXAMINED
8/29/86

COLLECTED BY
Jarocque

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
ϕ

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
360 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	II	27
Centric diatoms		
	TOTAL	27
DINOPHYCEAE		
Massartia	++++ ++++	133
Peridinium	++++	67
	TOTAL	200
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Sphaerocystis	III	27
Gleocystis	I	13
	TOTAL	40
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	III	40
Cryptomonas	I	13
	TOTAL	53
EUGLENOPHYCEAE		
Trachelomonas	III	40
	TOTAL	40
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chromulina	I	13
	TOTAL	13

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
1

DATE COLLECTED
9/8/86

DATE EXAMINED
9/12/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (*/ml)
837 cells/ml

IDENTIFIED BY
Sprague

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	𝍸 𝍸 𝍸 𝍸 I	279
Asterionella	𝍸	67
Centric diatoms		
	TOTAL	346
DINOPHYCEAE		
Massartia	1	13
Peridinium	1	13
	TOTAL	26
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	1	13
	TOTAL	13
Filamentous Blue-Green Algae		
Lyngbya	𝍸 𝍸 𝍸 𝍸 II	293
Anabaena	1	13
	TOTAL	306
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP Inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	HHT	~~80~~
Schroederia	I	13
Arthrodesmus	I	13
Golenkinia	I	13
Cosmarium	I	13
Dictyosphaerium	I	13
	TOTAL	147
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Carteria	II	27
Cryptomonas	IIII	53
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	80
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Ochromonas	I	13
	TOTAL	13

COLLECTION LOCATION: Wequaquet

STATION NUMBER: 2A

DATE COLLECTED: 9/8/86

DATE EXAMINED: 9/12/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (*/ml): 718 cells/ml

IDENTIFIED BY: Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	𝍸 𝍸 ||	160
Asterionella	|||	40
Centric diatoms		
	TOTAL	200
DINOPHYCEAE		
Peridinium	1	13
	TOTAL	13
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	1	13
	TOTAL	13
Filamentous Blue-Green Algae		
Anabaena	1	13
Lyngbya	𝍸 𝍸 𝍸 |||	239
	TOTAL	252
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
oocystis	////	53
Chlorella	HH	67
Dictyosphaerium	/	13
Sphaerocystis	/	13
Golenkinia	/	13
	TOTAL	159
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	///	40
Chlamydomas	//	27
	TOTAL	67
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Uroglenopsis	/	13
Dinobryon	/	13
	TOTAL	26

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
3

DATE COLLECTED
9/8/86

DATE EXAMINED
9/12/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
1

DEPTH
Surface

TOTAL PHYTOPLANKTON (*/ml)
439 cells/ml

IDENTIFIED BY
Sarocque

3 STRIPS @ 200 X

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	IIII	53
Navicula	I	13
Centric diatoms		
Cyclotella	I	13
	TOTAL	79
DINOPHYCEAE		
Massartia	IIII	67
Gymnodinium	I	13
Peridinium	II	27
	TOTAL	107
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

iEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	II	27
Chlorella	II	27
	TOTAL	54
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	I	13
	TOTAL	13
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	II	27
	TOTAL	27

COLLECTION LOCATION
Wequaquet

STATION NUMBER
4

DATE COLLECTED
9/8/86

DATE EXAMINED
9/12/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
280 cells/ml

IDENTIFIED BY
Jarocyan

3 STRIPS @ 200x

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	II	27
Centric diatoms		
	TOTAL	27
DINOPHYCEAE		
Massartia	///II	93
Gymnodinium	I	13
Peridinium	III	40
	TOTAL	146
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Oscillatoria	I	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Pediastrum	//	27
Oocystis	//	27
Micractinium	//	27
Ankistrodesmus	////	53
Golenkinia	/	13
Closteriopsis	/	13
Staurastrum	/	13
	TOTAL	173
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	~~HH~~ ~~HH~~	133
	TOTAL	133
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
Centritractus	//	27
	TOTAL	27
other Pigmented Flagellated Algae		
Dinobryon	////	53
Uroglenopsis	//	27
	TOTAL	80

COLLECTION LOCATION
Wequaquet

STATION NUMBER
1

DATE COLLECTED
9/29/86

DATE EXAMINED
10/2/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1-ml

DILUTION FACTOR
ϕ

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
1491 cells/ml

IDENTIFIED BY
Faroque

3 STRIPS @ 200x

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	卌 卌 卌 卌 卌	333
Synedra	卌 卌 卌 卌 卌 卌 |	412
Navicula	||||	53
gyrosigma	||	27
Centric diatoms		
[illegible]	||	[illegible]
	TOTAL	825
DINOPHYCEAE		
Gymnodinium		27
	TOTAL	27
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Lyngbya	卌 卌 卌 ||	226
	TOTAL	226
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

iEP inc.

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Pediastrum	I	13
Ankistrodesmus	IIII	67
Golenkinia	I	13
Protococcus	I	13
Gleocystis	III	40
	TOTAL	146
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	IIII II	93
Chlamydomonas	IIII IIII I	146
Carterier	II	27
	TOTAL	266
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
Other Pigmented Algae		
Centritractus	III	40
	TOTAL	40
Other Pigmented Flagellated Algae		
Dinobryon	I	13
	TOTAL	13

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
2

DATE COLLECTED
9/29/86

DATE EXAMINED
10/2/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (*/ml)
1249 cells/ml

IDENTIFIED BY
Sarazque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Tabellaria	1	13
Asterionella	𝍸 𝍸 𝍸 1	213
Synedra	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	333
Navicula	1	13
Centric diatoms		
	TOTAL	572
DINOPHYCEAE		
Massartia	1111	53
Peridinium	1	13
	TOTAL	66
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Aphanocapsa	1	13
Merismopedia	1	13
	TOTAL	26
Filamentous Blue-Green Algae		
Lyngbya	𝍸 1111	120
	TOTAL	120
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Arthrodesmus	1	13
Sphaerocystis	1	13
Gleocystis	1	13
	TOTAL	39
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	11	27
	TOTAL	27
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	11	27
	TOTAL	27

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
3

DATE COLLECTED
9/29/86

DATE EXAMINED
10/2/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
293 cells/ml

IDENTIFIED BY
Jarosque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	HH IIII	120
Asterionella	I	13
Centric diatoms		
	TOTAL	133
DINOPHYCEAE		
Massartia	HH	67
	TOTAL	67
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

IEP Inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
oocystis	II	27
	TOTAL	27
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	~~III~~	67
Chlamydomonas	III	40
	TOTAL	107
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Wequaquet

STATION NUMBER
4

DATE COLLECTED
9/29/86

DATE EXAMINED
10/2/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
255 cells /ml

IDENTIFIED BY
Farrague

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	II	27
Centric diatoms		
	TOTAL	27
DINOPHYCEAE		
Peridinium	II	27
massartia	HH	67
	TOTAL	94
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
SPHAEROCYSTIS	1	20	
CLOSTERIOPSIS	1	20	
TOTAL		40	
Filamentous green algae			
TOTAL			
Flagellated green algae			
CHLAMYDOMONAS	1	20	
TOTAL		20	
BACILLARIOPHYCEAE			
Centric diatoms			

Phytoplankton Sedgwick-Rafter Count

Part A

(2) STRIPS

STATION NUMBER: 7

COLLECTION LOCATION: BEARSE PD.

COLLECTED BY: Nelson / Charbonneau

DATE COLLECTED: 10/24/85

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: SURFACE

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (cells/ml): 7960 cells/ml.

IDENTIFIED BY: CHARBONNEAU

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Synedra	II	40	
	TOTAL	40	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Dinobryon	(39)		
		7800	
Chromulina	II	40	
Mallomonas	I	20	
	~~TOTAL~~		
	TOTAL 7860		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

REMARKS:

(2) STRIPS @ 200X

DINOBRYON !!

Relatively little amorphous material

IEP inc.

Periphyton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Chlamydomonas	////I	80	
Cryptomonas	///	40	
Sphaerocystis	////	53	
Chlorella	//	27	
Closteriopsis	//// ////	133	
TOTAL		333	
Filamentous green algae			
TOTAL			
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			
Cyclotella	1	13	

STATION NUMBER: #1

COLLECTION LOCATION: Bearse Pond

COLLECTED BY: Bob

DATE COLLECTED: 11/25/85

SAMPLE VOLUME: 1ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 1171 cells

IDENTIFIED BY: Mark Sarow

N.Q. = not quantitative

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Frustulia	1	13	
Navicula	11	27	
Asterionella	11	27	
	TOTAL	67	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Dinobryon	////// ///	732	//// /// //// //// //// /// //// ////
Mallomonas	1	13	
Synura	1	13	
	TOTAL	758	
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			

Periphyton Sedgwick-Rafter Count

Part B

REMARKS:

3 strips @ 200X

dinobryon was numerous and scattered no colonies.

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
TOTAL			
Filamentous green algae			
TOTAL			
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			
TOTAL			

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 1

COLLECTION LOCATION: Bears e Pond

COLLECTED BY: B.C.

DATE COLLECTED: 12/30/85

SAMPLE VOLUME: 1ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 638 cells/ml

IDENTIFIED BY: Mark Jr.

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Asterionella	~~HHT HHT HHT~~	532	~~HHT HHT HHT HHT~~
Frustulia	IIII	53	HH↗
Fragilaria	I	13	
Navicula	III	40	
	TOTAL	638	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			
	TOTAL		

REMARKS:

3 strips @ 200x

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Closterium	IIII	66	
TOTAL		66	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	III	40	
TOTAL		40	
BACILLARIOPHYCEAE			
Centric diatoms			
Cocconeis	I	13	
TOTAL		13	

STATION NUMBER: 1A

COLLECTION LOCATION: BEARSE POND

COLLECTED BY: WORDEN

DATE COLLECTED: 1/29/85

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 1362 cells/ml

IDENTIFIED BY: Charbonneau

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Asterionella	85	1130	
Cymbella	I	13	
Synedra	III	40	
Navicula	IIII	53	
	TOTAL	1236	
CHRYSOPHYCEAE			
Other pigmented algae			
	TOTAL		
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
Euglena	II	27	
	TOTAL	27	
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			
	TOTAL		

REMARKS:

3 STRIPS @ 200X

1382 cells/ml

Asterionella sp. dominant

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Closteriopsis	##-1	120
	TOTAL 6	120
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcos	11	40
	TOTAL 2	40

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Bearse's Pond

STATION NUMBER
1

DATE COLLECTED
2/27/86

DATE EXAMINED
3/3/86

COLLECTED BY
DW & ML

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
1360 cells/ml

IDENTIFIED BY
Mark Faroqui

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms	//// //// //// //// //// //	
Asterionella	//// //// //// //// //// //// ////	1040
Navicula	//// ////	160
Centric diatoms		
	TOTAL	1200
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

Lots of Asterionella!

IEP Inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Closteriopsis	ⅠⅠⅠⅠ ⅠⅠⅠⅠ	180
Sphaerocystis	Ⅰ	20
	TOTAL	200
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	ⅠⅠⅠⅠ ⅠⅠⅠⅠ	200
	TOTAL	200
EUGLENOPHYCEAE		
unidentified	ⅠⅠⅠⅠ	80
	TOTAL	80
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	ⅠⅠⅠ	60
Dinobryon	ⅠⅠⅠⅠ	80
	TOTAL	140

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Bearses Pond

STATION NUMBER: 7A

DATE COLLECTED: 3/10/86

DATE EXAMINED: 3/14/86

COLLECTED BY: Dave Worden

ALIQUOT SAMPLE VOLUME: 1ml

DILUTION FACTOR: ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 1140 cells/ml

IDENTIFIED BY: [signature]

2 STRIPS @ 200X

ENUMERATION FACTOR: 20

iEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	++++ ++++ ++++ ++	440
Navicula	++++	80
Centric diatoms		
	TOTAL	520
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	II	40
Sphaerocystis	###	100
Closteriopsis	II	40
Ankistrodesmus	I	20
Elakatothrix	I	20
Tetraedron	I	20
Oocystis	I	20
Closterium	I	20
	TOTAL	280
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	I	20
	TOTAL	20
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	II	40
	TOTAL	40

COLLECTION LOCATION: Bearse Pond

STATION NUMBER: 1

DATE COLLECTED: 4/7/86

DATE EXAMINED: 4/10/86

COLLECTED BY: Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: surface

TOTAL PHYTOPLANKTON (/ml): 500 cells/ml

IDENTIFIED BY: Jarosz

2 STRIPS @200X

ENUMERATION FACTOR: 20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	III	60
Centric diatoms		
	TOTAL	60
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Aphanocapsa	HH	100
	TOTAL	100
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM		
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	++++ ///	260
Gleocystis	//	40
Sphaerocystis	/	20
Centritractus	/	20
Cosmarium	//	40
Elkatothrix	/	20
	TOTAL	400
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	//	40
	TOTAL	40
EUGLENOPHYCEAE		
Heteronema	//	40
	TOTAL	40
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	//	40
	TOTAL	40

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Bearse's Pond

STATION NUMBER: 1A

DATE COLLECTED: 4/22/86

DATE EXAMINED: 4/24/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1ml

DILUTION FACTOR: Ø

DEPTH: surface

TOTAL PHYTOPLANKTON (#/ml): 680 cells/ml

IDENTIFIED BY: Jarocz

2 STRIPS @ 200x

ENUMERATION FACTOR: 20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HHT	100
Asterionella	II	40
~~Centric~~		
Centric diatoms		
	TOTAL	140
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Oscillatonia	1	20
	TOTAL	20
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	III	60
Schroederia	I	20
Closteriopsis	I	20
	TOTAL	100
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH	100
	TOTAL	100
EUGLENOPHYCEAE		
Heteronema	I	20
	TOTAL	20
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	I	20
	TOTAL	20

COLLECTION LOCATION
Bearse's Pond

STATION NUMBER
1M

DATE COLLECTED
5/5/86

DATE EXAMINED
5/6/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
surface

TOTAL PHYTOPLANKTON (#/ml)
360 cells/ml

IDENTIFIED BY
Saracyna

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	11	40
Synedra	1	20
Navicula	11	40
Cymbella	1	20
Centric diatoms		
	TOTAL	120
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	###	67
Gleocystis	II	27
Chlorella	1	13
	TOTAL	107
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	### ### ### ###	266
	TOTAL	266
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chromulina	###II	106
Chrysococcus	IIII	53
	TOTAL	159

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Beasses Pond

STATION NUMBER
1A

DATE COLLECTED
5/19/86

DATE EXAMINED
5/21/86

COLLECTED BY
Larocque / Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (Final)
585 cells / ml

IDENTIFIED BY
Larocque

3 STRIPS @ 200 X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	VALVE	# FIELDS
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	III	40
Asterionella	I	13
Centric diatoms		
	TOTAL	53
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

(Nice Kellicotia!)

IEP inc.

CHLOROPHYCEAE

Non-Filamentous Green Algae

Sphaerocystis	HHT	67
Elakatothrix	HHT HHT	133
Oocystis	III	40
Chlorella	HHT	67
Pediastrum	II	27
Antistrodesmus	II	27
Crucigenia	I	13
	TOTAL	374

Filamentous Green Algae

	TOTAL	

Flagellated Green Algae

Chlamydomonas	II	27
	TOTAL	27

EUGLENOPHYCEAE

Euglena	II	27
Phacus	III	40
	TOTAL	67

CHRYSOPHYCEAE

Other Pigmented Algae

	TOTAL	

Other Pigmented Flagellated Algae

Mallomonas	II	27
Dinobryon	I	13

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Bearse's Pond

STATION NUMBER
1A

DATE COLLECTED
6/9/86

DATE EXAMINED
6/12/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
surface

TOTAL PHYTOPLANKTON
694 cells/ml

IDENTIFIED BY
Yarrington

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

ACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	III	40
Asterionella	IIII	53
Centric diatoms		
	TOTAL	93
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Aphanocapsa	IIII /	80
	TOTAL	80
Filamentous Blue-Green Algae		
Anabaena	/	13
	TOTAL	13
PROTOZOA		
	/	
	TOTAL /	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Sphaerocystis	𝍸 𝍸 ||||	120
Chlorella	𝍸 𝍸 |||	106
Gleocystis	||||	53
Ankistrodesmus	||||	53
Pediastrum	||	27
Elkatothrix	||	27
	TOTAL	386
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	||||	53
	TOTAL	53
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	𝍸 𝍸 𝍸 𝍸 𝍸 ||||	399
	TOTAL	399

COLLECTION LOCATION: Bearses Pond

STATION NUMBER: 1A

DATE COLLECTED: 6/23/86

DATE EXAMINED: 6/24/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1ml

DILUTION FACTOR: Ø

DEPTH: surface

TOTAL PHYTOPLANKTON (Final): 1397 cells/ml

IDENTIFIED BY: Jarocque

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Fragilaria	/	13
Asterionella	IIII	53
Navicula	HH	67
Synedra	II	27
Centric diatoms		
	TOTAL	160
DINOPHYCEAE		
MASSARTia	III	40
	TOTAL	40
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
ANACYSTIS	HH HH HH HH HH II	359
	TOTAL	359
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

Dinobryon ! &
Anacystis !

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	IIII	80
Elakatothrix	I	13
Ankistrodesmus	IIII	53
Sphaerocystis	I	13
Dictyosphaerium	IIII	53
Closteriopsis	II	27
	TOTAL	239
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	III	40
Chlamydomonas	IIII	67
	TOTAL	107
EUGLENOPHYCEAE		
Euglena	I	13
	TOTAL	13
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
Other Pigmented Flagellated Algae		
Dinobryon	IIII IIII IIII IIII IIII IIII	
Chrysococcus	II	27
Mallomonas	I	13
continued →	IIII IIII IIII IIII IIII	1846
	TOTAL	1886

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Bearses Pond

STATION NUMBER
BP-1

DATE COLLECTED
7/7/86

DATE EXAMINED
7/9/86

COLLECTED BY
Tarocque

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
?

TOTAL PHYTOPLANKTON (#/ml)
2565 cells/ml

IDENTIFIED BY
Tarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Asterionella	IIII	67
Navicula	III	40
Synedra	I	13
Centric diatoms		
	TOTAL	120
DINOPHYCEAE		
Peridinium	IIII IIII IIII	200
	TOTAL	200
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

Dinobryon!!

iEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	IIII	53
Closteriopsis	II	27
Pediastrum	IIII	53
Chlorella	III	40
oocystis	III	40
Crucigenia	III	40
Elakatothrix	III	40
Sphaerocystis	I	13
	TOTAL	306
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	~~IIII~~ ~~IIII~~ ~~IIII~~	200
	TOTAL	200
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
Centritractus	~~IIII~~ II	93
	TOTAL	93
other Pigmented Flagellated Algae		
Dinobryon	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ IIII	452
	TOTAL	452

COLLECTION LOCATION: Bearses Pond

STATION NUMBER: 1

DATE COLLECTED: 7/22/86

DATE EXAMINED: 7/24/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: ?

TOTAL PHYTOPLANKTON (#/ml): 1330 cells/ml

IDENTIFIED BY: Jarocque

STRIPS @

ENUMERATION FACTOR

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH I	80
Asterionella	I	13
Synedra	III	40
Centric diatoms		
	TOTAL	133
DINOPHYCEAE		
Massartia	HH III	106
Peridinium	II	27
	TOTAL	133
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Anabaena	I	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorococcum	HH II	93
Golenkinia	I	13
Cosmarium	III	40
Chlorella	HH	67
	TOTAL	213
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	III	46
Chlamydomonas	HH	67
	TOTAL	107
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Synura	I	13
	TOTAL	13

COLLECTION LOCATION: Bearses Pond

STATION NUMBER: BP-1A

DATE COLLECTED: 8/4/86

DATE EXAMINED: 8/5/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ∅

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 572 cells/ml

IDENTIFIED BY: Laroque

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH II	93
Asterionella	I	13
Centric diatoms		
	TOTAL	106
DINOPHYCEAE		
Massartia	HH II	93
Peridinium	II	27
	TOTAL	120
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Calothrix	I	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Scenedesmus	1	13
	TOTAL	13
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
unoglenopsis	1	13
	TOTAL	13

COLLECTION LOCATION: Bearses Pond

STATION NUMBER: 1A

DATE COLLECTED: 8/18/86

DATE EXAMINED: 8/27/86

COLLECTED BY: Lavoque

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 146 cells/ml

IDENTIFIED BY: Lavoque

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	III	40
Asterionella	II	27
Centric diatoms		
	TOTAL	67
DINOPHYCEAE		
Penidinium	IIII	53
	TOTAL	53
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	I	13
Chlorella	II	27
Gleocystis	I	13
Arthrodesmus	I	13
	TOTAL	66
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	I	13
	TOTAL	13
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	I	13
	TOTAL	13

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Bearses Pond

STATION NUMBER
1A

DATE COLLECTED
9/8/86

DATE EXAMINED
9/12/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
239 cells/ml

IDENTIFIED BY
Sarrazque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	HH I	80
Navicula	II	27
Asterionella	I	13
Centric diatoms		
	TOTAL	120
DINOPHYCEAE		
Gymnodinium	II	27
	TOTAL	27
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
ROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Oocystis	III	40
Closterium	I	13
Gloeocystis	I	13
Arthrodesmus	I	13
Cosmarium	I	13
	TOTAL	92
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	IIII	67
Chlamydomonas	III	40
	TOTAL	107
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
Other Pigmented Flagellated Algae		
Uroglenopsis	IIII	53
	TOTAL	53

COLLECTION LOCATION: Bearses Pond

STATION NUMBER: 1

DATE COLLECTED: 9/29/86

DATE EXAMINED: 9/30/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ϕ

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 718 cells/ml

IDENTIFIED BY: Jarocque

2 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	HH HH HH HH	266
Asterionella	HH	67
Pinnularia	I	13
Anomoeoneis	I	13
Centric diatoms		
	TOTAL	359
DINOPHYCEAE		
Massartia	HH	67
Gymnodinium	III	40
	TOTAL	107
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

iEP inc.

Periphyton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae		x 13.3	
Anabena	2	27	
TOTAL		27	
CHLOROPHYCEAE			
Non-filamentous green algae		x 13.3	
Chlorococcum	9	120	
Chorella	5	67	
Golenkinia	1	13	
Scenedesmus	1	13	
TOTAL		213	
Filamentous green algae			
TOTAL			
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			
TOTAL			

STATION NUMBER: 1A

COLLECTION LOCATION: Long Pond

COLLECTED BY: Bob Charbonneau

DATE COLLECTED: 10/24/85

SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: Surface

AREA SCRAPED: 0

SUBSTRATE: 0

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 571 cells

IDENTIFIED BY: Mark Sorrow

N.Q. = not quantitative

IEP inc.

Periphyton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms		X 13.3	
Pinnularia	1	13	
Navicula	1	13	
Tabellaria	1	13	
Frustulia	2	27	
	TOTAL	66	
CHRYSOPHYCEAE			
Other pigmented algae		X 13.3	
Dinobryon	18	239	
		239	
Other pigmented flagellated algae			
	TOTAL		
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
Unidentified	1	13	
	TOTAL	13	
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS Rotifer			
Keratella	1	13	
	TOTAL	13	

REMARKS:

3 strips @ 200X

Dinobryon Dominant

IEP inc.

Periphyton Sedgwick-Rafter Count

Part A

STATION NUMBER: 1

COLLECTION LOCATION: Long Pond

COLLECTED BY: B.C.

DATE COLLECTED: 11/25/85

SAMPLE VOLUME: 1ml

DILUTION FACTOR:

DEPTH: surface.

AREA SCRAPED:

SUBSTRATE:

TOTAL PERIPHYTON: Parts A&B (cells/mm²): 185 cells

IDENTIFIED BY: Mark Elbrecht

N.Q. = not quantitative

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
Prochlorococcus	II	2	
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
Chlamydomonas	III	40	
Chlorella	I	13	
Cryptomonas	I	13	
TOTAL		66	
Filamentous green algae			
TOTAL			
Flagellated green algae			
TOTAL			
BACILLARIOPHYCEAE			
Centric diatoms			
Cyclotella	I	13	

Periphyton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Synedra	1	13	
Frustulia	1	13	
Navicula	1	13	
Amphora	11	27	
TOTAL		66	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Dinobryon	11	27	
Mallomonas	1	13	
TOTAL		40	
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			

REMARKS:

3 strips @ 200X

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part A

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
TOTAL			
CHLOROPHYCEAE			
Non-filamentous green algae			
TOTAL			
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	++++ |||	133	
TOTAL		133	
BACILLARIOPHYCEAE			
Centric diatoms			
Cyclotella	III	40	
TOTAL		40	

STATION NUMBER: 1

COLLECTION LOCATION: Long Pond

COLLECTED BY: B.C.

DATE COLLECTED: 12/30/85

SAMPLE VOLUME: 1-ml

DILUTION FACTOR:

DEPTH: Surface

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 266 cells/ml

IDENTIFIED BY: Mark Sawyer

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Fragilaria	1	13	
TOTAL		66	
CHRYSOPHYCEAE			
Other pigmented algae			
TOTAL			
Other pigmented flagellated algae			
Dinobryon	11	27	
TOTAL		27	
DINOPHYCEAE			
Dinoflagellates			
TOTAL			
PROTOZOA			
TOTAL			
FILAMENTOUS BACTERIA & FUNGI			
TOTAL			
OTHERS			
TOTAL			

REMARKS:

3 strips @ 200X

IEP inc.

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
CYANOPHYCEAE			
Non-filamentous blue-green algae			
TOTAL			
Filamentous blue-green algae			
Lyngbya	1	13	
TOTAL		13	
CHLOROPHYCEAE			
Non-filamentous green algae			
Schroederia	1	13	
TOTAL		13	
Filamentous green algae			
TOTAL			
Flagellated green algae			
Chlamydomonas	11	27	
TOTAL		27	
BACILLARIOPHYCEAE			
Centric diatoms			
TOTAL			

Phytoplankton Sedgwick-Rafter Count

Part A

STATION NUMBER: 1A

COLLECTION LOCATION: LONG POND

COLLECTED BY: D. Worden

DATE COLLECTED: 1/29/86

SAMPLE VOLUME: 1 ml.

DILUTION FACTOR: 0

DEPTH: SURFACE

AREA SCRAPED:

SUBSTRATE:

TOTAL **PHYTOPLANKTON** Parts A&B (**cells/ml**): 227 cells/ml

IDENTIFIED BY: R. Charbonneau

N.Q. = not quantitative

IEP inc.

Phytoplankton Sedgwick-Rafter Count

Part B

ORGANISM	TALLY	c/mm²	RELATIVE ABUNDANCE %
BACILLARIOPHYCEAE			
Pennate diatoms			
Navicula	III	40	
Tabellaria	III	40	
Frustulia	II	27	
Andmoeneis	II	27	
Synedra	I	13	
	TOTAL	147	
CHRYSOPHYCEAE			
Other pigmented algae			
Other pigmented flagellated algae			
Chrysococcus	II	27	
	TOTAL	27	
DINOPHYCEAE			
Dinoflagellates			
	TOTAL		
PROTOZOA			
	TOTAL		
FILAMENTOUS BACTERIA & FUNGI			
	TOTAL		
OTHERS			
	TOTAL		

REMARKS:

3 STRIPS @ 200X

Very spause sample

227 cells/ml

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorococcum	I	13
	TOTAL	13
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	IIII	53
	TOTAL	53
EUGLENOPHYCEAE		
Euglena	II	27
Phacus	II	27
	TOTAL	54
CHRYSOPHYCEAE		
other Pigmented Algae		
Chroococcus	I	13
Dinobryon	IIII	53
	TOTAL	66
other Pigmented Flagellated Algae		
	TOTAL	

COLLECTION LOCATION: Long Pond

STATION NUMBER: 1

DATE COLLECTED: 2/26/86

DATE EXAMINED: 3/3/86

COLLECTED BY: MJF DW

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 346 cells/ml

IDENTIFIED BY: Mark Jones

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Tabellaria	//	27
Synedra	////	53
Navicula	###	67
Anomeneis	/	13
Centric diatoms		
	TOTAL	160
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP Inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
	TOTAL	
Filamentous Green Algae		
Oedogonium	1	13
	TOTAL	13
Flagellated Green Algae		
Chlamydomonas	++++ ++++ 1	146
	TOTAL	146
EUGLENOPHYCEAE		
Euglena	1	13
	TOTAL	13
CHRYSOPHYCEAE		
other Pigmented Algae		
Dinobryon	++++ ++++	133
Mallomonas	1	13
	TOTAL	146
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Long Pond

STATION NUMBER: 1A

DATE COLLECTED: 3/10/86

DATE EXAMINED: 3/14/86

COLLECTED BY: Dave Warden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 412 cells/ml

IDENTIFIED BY: Mark Sarazen

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
TAbellaria	//	27
Navicula	///	40
Centric diatoms		
	TOTAL	67
DINOPHYCEAE		
Peridinium	//	27
	TOTAL	27
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	I	13
Closteriopsis	I	13
Chlorococcum	I	13
Cosmarium	I	13
Volvox	III	40
	TOTAL	91
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	IIII	67
	TOTAL	67
EUGLENOPHYCEAE		
Euglena	I	13
	TOTAL	13
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

COLLECTION LOCATION: Long Pond

STATION NUMBER: 1

DATE COLLECTED: 4/7/86

DATE EXAMINED: 4/10/86

COLLECTED BY: Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ϕ

DEPTH: Surface

TOTAL PHYTOPLANKTON (/ml): 264 cells/ml

IDENTIFIED BY: Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR: 13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
navicula	///	40
Synedra	///	40
Anomonei's	/	13
Centric diatoms		
	TOTAL	93
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	III	60
Gleocystis	II	40
Sphaerocystis	IIII	80
Elkatothrix	I	20
	TOTAL	200
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	~~IIII~~ III	160
	TOTAL	160
EUGLENOPHYCEAE		
Euglena	III	60
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	~~IIII~~ III	160
	TOTAL	160

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Long Pond

STATION NUMBER: 1A

DATE COLLECTED: 4/22/86

DATE EXAMINED: 4/24/86

COLLECTED BY: Dave Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: Ø

DEPTH: surface

TOTAL PHYTOPLANKTON (#/ml): 700 cells/ml

IDENTIFIED BY: [illegible]

2 STRIPS @ 200X

ENUMERATION FACTOR: 20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	# cells
BACILLARIOPHYCEAE		
Pennate diatoms		
navicula	III	60
Anomeneis	I	20
Centric diatoms		
	TOTAL	80
DINOPHYCEAE		
Peridinium	I	20
	TOTAL	20
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
oscillatoria	I	20
	TOTAL	20
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	HH II	140
Oocystis	II	40
	TOTAL	180
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH II	140
	TOTAL	140
EUGLENOPHYCEAE		
Heteronema	III	60
	TOTAL	60
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	I	20
	TOTAL	20

COLLECTION LOCATION
Loud. Pond

STATION NUMBER
1A

DATE COLLECTED
5/5/86

DATE EXAMINED
5/16/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
420 cells/ml

IDENTIFIED BY
Saraguire

2 STRIPS @ 200X

ENUMERATION FACTOR
20

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	1	20
Tabellaria	1	20
Centric diatoms		
	TOTAL	40
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Volvox	HH III	106
Chlorella	III	40
Gleocystis	II	27
Elkatothrix	I	13
Scenedesmus	I	13
	TOTAL	199
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	HH HH	266
	TOTAL	266
EUGLENOPHYCEAE		
Euglena	II	27
Heteronema	I	13
	TOTAL	40
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chromulina	II	27
Dinobryon	I	13
	TOTAL	40

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Long Pond

STATION NUMBER
1A

DATE COLLECTED
5/19/86

DATE EXAMINED
5/21/86

COLLECTED BY
Jarocque / Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
0

DEPTH
surface

TOTAL PHYTOPLANKTON
625 cells/ml

IDENTIFIED BY
Jarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP Inc.

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	II	27
Synedra	IIII	53
Centric diatoms		
	TOTAL	80
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Closteriopsis	I	13
Schroederia	I	13
Ankistrodesmos	III	40
Chlorella	I	13
	TOTAL	79
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	IIII	80
	TOTAL	80
EUGLENOPHYCEAE		
Euglena	IIII	67
	TOTAL	67
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	IIII II	93
	TOTAL	93

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Long. Pond

STATION NUMBER
1A

DATE COLLECTED
6/9/86

DATE EXAMINED
6/13/86

COLLECTED BY
D. Warden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON
346 cells/ml

IDENTIFIED BY
Farrague

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP inc.

ORGANISM		
ACILLARIOPHYCEAE		
Pennate diatoms		
Fragilaria	11	27
Centric diatoms		
	TOTAL	27
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Aphanocapsa	1	
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

REMARKS and CALCULATIONS

Very little of anything!

IEP inc.

CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	IIII	53
	TOTAL	53
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Chlamydomonas	## II	93
Cryptomonas	II	27
	TOTAL	120
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
Other Pigmented Algae		
	TOTAL	
Other Pigmented Flagellated Algae		
Dinobryon	## ## ## ## III	306
	TOTAL	306

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Long Pond

STATION NUMBER
1A

DATE COLLECTED
6/23/86

DATE EXAMINED
6/24/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON COUNT
612 cells/ml

IDENTIFIED BY
Jarocque

STRIPS @

ENUMERATION FACTOR

IEP inc.

PHYTOPLANKTON SEDGWICK-RAFTER COUNT

ACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	III	40
Asterionella	I	13
Centric diatoms		
Cocconeis	IIII	67
	TOTAL	120
DINOPHYCEAE		
	TOTAL	
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Anacystis	I	13
	TOTAL	13
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS

IEP inc.

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Golenkinia	IIII	67
Gomphosphaeria	IIII/	80
Scenedesmus	IIII II	93
Chodatella	I	13
Glenocystis	IIII IIII	133
Sphaerocystis	III	40
Chlorella	IIII I	80
	TOTAL	506
Filamentous Green Algae		
Ulothrix	I	13
	TOTAL	13
Flagellated Green Algae		
Cryptomonas	III	40
	TOTAL	40
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	IIII IIII IIII	200
	TOTAL	200

COLLECTION LOCATION
Long Pond

STATION NUMBER
LP-1

DATE COLLECTED
7/7/86

DATE EXAMINED
7/9/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
?

TOTAL PHYTOPLANKTON (#/ml)
958 cells/ml

IDENTIFIED BY
Sarocque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	HH/	80
Centric diatoms		
	TOTAL	80
DINOPHYCEAE		
Peridinium	HH//	93
	TOTAL	93
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
Anacystis	/	13
	TOTAL	13
Filamentous Blue-Green Algae		
Anabaena	/	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Gleocystis	II	27
Chlorella	III	40
Sphaerocystis	I	13
Closteriopsis	I	13
Selenastrum	I	13
Radiococcus	T	13
Pediastrum	I	13
Golenkinia	I	13
Antistrodesmus	I	13
Scenedesmus	II	27
	TOTAL	185
Filamentous Green Algae		
Ulothrix	I	13
	TOTAL	13
Flagellated Green Algae		
Chlamydomonas	III	40
Cryptomonas	~~HH~~ ~~HH~~ IIII	186
Canteriea	II	27
	TOTAL	253
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
Centritractus	~~HH~~ ~~HH~~ ~~HH~~ ~~HH~~ III	306
	TOTAL	306
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Long Pond

STATION NUMBER
1

DATE COLLECTED
7/22/86

DATE EXAMINED
7/24/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1-ml

DILUTION FACTOR
Ø

DEPTH
?

TOTAL PHYTOPLANKTON (#/ml)
1210 cells / ml

IDENTIFIED BY
Laroque

3 STRIPS @ 200X

ENUMERATION FACTOR
13.3

iEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	HH HH II	160
NAvicula	I	13
Centric diatoms		
	TOTAL	173
DINOPHYCEAE		
Peridinium	HH HH HH	200
MASSartia	II	27
	TOTAL	227
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
Anabaena	IIII	53
	TOTAL	53
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Lang Pond

STATION NUMBER: LP-1A

DATE COLLECTED: 8/4/86

DATE EXAMINED: 8/7/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: 0

DEPTH: Surface

TOTAL PHYTOPLANKTON (#/ml): 1039 cells/ml

IDENTIFIED BY: Tarangue

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Chlorella	HH IIII	120
Gleocystis	II	27
Golenkinia	I	13
Cosmarium	I	13
Closteriopsis	II	27
Scenedesmus	HH I	80
	TOTAL	280
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
	TOTAL	
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
Centritractus	II	27
	TOTAL	27
other Pigmented Flagellated Algae		
Dinobryon	HH HH HH IIII	253
	TOTAL	253

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Synedra	II	27
Centric diatoms		
Cocconeis	II	27
	TOTAL	54
DINOPHYCEAE		
Peridinium	𝍸 𝍸 𝍸 IIII	253
Massartia	𝍸 I	146
	TOTAL	399
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
Merismopedia	I	13
	TOTAL	13
Filamentous Blue-Green Algae		
Oscillatoria	I	13
	TOTAL	13
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Sphaerocystis	I	13
Chlorella	II	27
Scenedesmus	I	13
	TOTAL	53
Filamentous Green Algae		
Mougeotia	I	13
	TOTAL	13
Flagellated Green Algae		
Chlamydomonas	I	13
	TOTAL	13
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
	TOTAL	

PHYTOPLANKTON
SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Long Pond

STATION NUMBER
1A

DATE COLLECTED
8/18/86

DATE EXAMINED
8/27/86

COLLECTED BY
Sprague

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
133 cells/ml

IDENTIFIED BY
Sprague

3 STRIPS @ 200x

ENUMERATION FACTOR
13.3

IEP Inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Centric diatoms		
	TOTAL	
DINOPHYCEAE		
Peridinium	11	27
Massartia	11	27
	TOTAL	54
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.

ORGANISM	TALLY	#/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
Cosmarium	1	13
	TOTAL	13
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	11	27
	TOTAL	27
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Dinobryon	𝍸 𝍸 𝍸 𝍸 𝍸 III	372
Synura	1	13
	TOTAL	385

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION
Long Pond

STATION NUMBER
1A

DATE COLLECTED
9/8/86

DATE EXAMINED
9/12/86

COLLECTED BY
D. Worden

ALIQUOT SAMPLE VOLUME
1 ml

DILUTION FACTOR
Ø

DEPTH
Surface

TOTAL PHYTOPLANKTON (#/ml)
505 cells/ml

IDENTIFIED BY
Laroque

3 STRIPS @ 200×

ENUMERATION FACTOR
13.3

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Navicula	I	13
Centric diatoms		
	TOTAL	13
DINOPHYCEAE		
Peridinium	III	40
Massartia	II	27
	TOTAL	67
CYNANOPHYCEAE		
Non–Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP Inc.

PHYTOPLANKTON

SEDGWICK-RAFTER COUNT

COLLECTION LOCATION: Long Pond

STATION NUMBER: 1

DATE COLLECTED: 9/29/86

DATE EXAMINED: 9/30/86

COLLECTED BY: D. Worden

ALIQUOT SAMPLE VOLUME: 1 ml

DILUTION FACTOR: ϕ

DEPTH: Surface

TOTAL PHYTOPLANKTON (*/ml): 319 cells/ml

IDENTIFIED BY: Laroque

3 STRIPS @ 200x

ENUMERATION FACTOR: 13.3

ORGANISM	TALLY	*/ml
CHLOROPHYCEAE		
Non-Filamentous Green Algae		
	TOTAL	
Filamentous Green Algae		
	TOTAL	
Flagellated Green Algae		
Cryptomonas	HH HH	133
	TOTAL	133
EUGLENOPHYCEAE		
	TOTAL	
CHRYSOPHYCEAE		
other Pigmented Algae		
	TOTAL	
other Pigmented Flagellated Algae		
Chrysococcus	HH //	93
Dinobryon	////	53
	TOTAL	146

IEP inc.

PHYTOPLANKTON
SEDGWICK–RAFTER COUNT

ORGANISM	TALLY	#/ml.
BACILLARIOPHYCEAE		
Pennate diatoms		
Anomoeoneis	1	13
Centric diatoms		
	TOTAL	13
DINOPHYCEAE		
massartia	11	27
	TOTAL	27
CYNANOPHYCEAE		
Non-Filamentous Blue-Green Algae		
	TOTAL	
Filamentous Blue-Green Algae		
	TOTAL	
PROTOZOA		
	TOTAL	
FILAMENTOUS BACTERIA & FUNGI		
	TOTAL	
OTHERS		
	TOTAL	

REMARKS and CALCULATIONS:

IEP inc.