

Publication No. 91-e05AppA-B

**Diagnostic Study of Lake Sawyer
March 1991**

APPENDIX A

**Lake Sawyer
Lake and Watershed
Databases**

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APPENDIX A.1. Lake Sawyer lake database key and explanation of field names, data units and data qualifiers.

FIELD NAME	PARAMETER	UNITS
DATE	Date	--
STN	Station	--
DEP	Depth	meters
TIME	Time of Sampling	military time
SECCHI	Secchi Disk Depth	feet
EXTINCT	Light Extinction Coefficient	m ⁻¹ (base 10)
LIGHT	Light Intensity	% incident
TEMP	Temperature	degrees C
DO	Dissolved Oxygen	mg/L
DOSAT	Dissolved Oxygen Saturation	percent
pH	pH	SU
COND	Specific Conductance	μmhos/cm
ORP	Oxidation Reduction Potential	mV
TURB	Turbidity	NTU
ALK	Alkalinity	mg CaCO ₃ /L
SRP	Soluble Reactive Phosphorus	μg/L
TSP	Total Soluble Phosphorus	μg/L
TP	Total Phosphorus	μg/L
NH3N	Ammonia as Nitrogen	μg/L
NO23N	Nitrate + Nitrite as Nitrogen	μg/L
TSN	Total Soluble Nitrogen	μg/L
TPN	Total Persulfate Nitrogen	μg/L
CHLa	Chlorophyll <u>a</u> (Phaeo corrected)	μg/L
FC	Fecal Coliform	#/100mL
FS	Fecal Streptococci	#/100mL
Al	Aluminum	mg/L
Fe	Iron	mg/L
CL	Chloride	mg/L
TOC	Total Organic Carbon	mg/L

Missing Data Code: "--"

Data Qualifiers:

- J = Estimated value: value not accurate.
- B = Analyte is found in the blank as well as the sample, indicating possible/probable blank contamination.
- U = Analyzed but not detected. The value reported is the lower reporting limit (estimated detection limit).
- P = Greater than (>).

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO3N	TSN	TPN	CHLa	FC	FS	Al	Fe	CL	TOC	
27-Feb-89	1	0	1040	12.1		-	4.1	-	-	7.32	-	-	-	-	12.2	-	24.8	15.0	U	560	-	630	4.8	-	-	-	-	-	-
27-Feb-89	1	1				-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	1	2				-	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	1	3				-	3.8	-	-	7.56	-	-	-	-	12.7	-	23.5	15.0	U	670	-	630	4.3	-	-	-	-	-	-
27-Feb-89	1	4				-	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	1	5				-	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	1	6				-	3.9	-	-	7.52	-	-	-	-	13.7	-	23.9	15.0	U	530	-	660	3.8	-	-	-	-	-	-
27-Feb-89	1	7				-	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	2	0	1110	10.7		-	4.1	12.6	98.2%	7.56	-	-	-	-	11.1	-	22.3	15.0	U	510	-	630	3.9	-	-	-	-	-	-
27-Feb-89	2	1				-	4.1	12.4	96.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	2	2				-	4.1	12.3	95.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	2	3				-	4.0	12.2	94.8%	7.56	-	-	-	-	11.1	-	24.8	15.0	U	530	-	620	3.9	-	-	-	-	-	-
27-Feb-89	2	4				-	3.8	12.2	94.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	2	5				-	3.8	12.0	92.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	2	6				-	3.8	11.8	91.2%	7.55	-	-	-	-	16.1	-	26.5	15.0	U	540	-	640	3.7	-	-	-	-	-	-
27-Feb-89	2	7				-	3.8	11.7	90.5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	2	8				-	3.8	11.6	89.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	0	1145	9.9	0.216	-	4.1	12.5	97.4%	7.48	149	-	2.5	46.3	12.7	12.6	21.1	15.0	U	520	620	630	4.5	3	0	-	-	-	-
27-Feb-89	3	1				57.0%	4.1	12.3	95.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	2				36.3%	4.1	12.3	95.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	3				24.4%	4.1	12.2	95.1%	7.56	149	-	1.4	47.0	13.7	-	24.3	15.0	U	505	-	640	3.9	-	-	-	-	-	-
27-Feb-89	3	4				14.7%	4.1	12.2	95.1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	5				8.4%	4.0	12.2	94.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	6				4.7%	4.0	12.2	94.8%	7.58	150	-	1.0	46.8	11.9	-	23.0	15.0	U	500	-	620	3.8	-	-	-	-	-	-
27-Feb-89	3	7				2.6%	3.8	12.0	92.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	8				1.4%	3.7	11.8	91.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	9				0.7%	3.6	11.8	90.7%	7.52	152	-	-	46.8	15.5	-	24.0	15.0	U	520	-	600	-	-	-	-	-	-	-
27-Feb-89	3	10				0.4%	3.6	11.4	87.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	11				0.2%	3.6	11.0	84.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	12				0.1%	3.4	10.6	81.1%	7.48	155	-	-	46.8	18.8	-	29.4	15.0	U	560	-	680	-	-	-	-	-	-	-
27-Feb-89	3	13				0.0%	3.4	9.7	74.2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	14				0.0%	3.4	9.4	71.9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	15				-	3.2	-	-	7.37	174	-	-	-	57.9	33.6	-	50.2	30.2	-	635	-	780	-	-	-	-	-	-
27-Feb-89	3	16				-	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	17				-	3.1	-	-	-	-	-	-	-	5.0	U	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	18				-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	3	19				-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	0	1300	10		-	3.9	12.7	98.4%	7.47	-	-	-	-	13.9	12.6	25.2	15.0	U	480	610	630	7.7	0	1	-	-	-	-
27-Feb-89	4	1				-	3.9	12.5	96.9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	2				-	3.8	12.4	95.9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	3				-	3.8	12.3	95.1%	7.43	-	-	-	-	11.1	-	23.5	15.0	U	490	-	600	5.3	-	-	-	-	-	-
27-Feb-89	4	4				-	3.7	12.2	94.1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	5				-	3.6	12.0	92.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	6				-	3.6	11.9	91.5%	7.49	-	-	-	-	17.8	-	22.1	15.0	U	500	-	630	4.2	-	-	-	-	-	-
27-Feb-89	4	7				-	3.6	11.8	90.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	8				-	3.6	11.8	90.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	9				-	3.5	11.8	90.5%	7.49	-	-	-	-	12.4	-	22.8	15.0	U	520	-	640	-	-	-	-	-	-	-
27-Feb-89	4	10				-	3.5	11.8	90.5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	11				-	3.5	11.6	89.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Feb-89	4	12				-	3.5	11.6	89.0%	7.45	-	-	-	-	14.5	-	24.6	15.0	U	510	-	720	-	-	-	-	-	-	-

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO23N	TSN	TPN	CHLa	FC	FS	AI	Fe	CL	TOC			
20-Mar-89	3	18				-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	0	1210	8.3		-	7.0	-	-	7.54	-	-	1.1	46.2	8.1	11.0	26.0	15.0	U	350	-	610	23.8	0	0	-	-	-			
20-Mar-89	4	1				-	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	2				-	6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	3				-	5.7	-	-	7.78	-	-	1.0	46.0	8.2	9.0	30.7	18.7	-	385	-	600	17.3	-	-	-	-	-			
20-Mar-89	4	4				-	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	5				-	5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	6				-	5.1	-	-	7.19	-	-	0.9	46.8	8.1	5.8	17.3	16.6	-	430	-	580	10.5	-	-	40	53	-	5.4		
20-Mar-89	4	7				-	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	8				-	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	9				-	4.7	-	-	6.55	-	-	-	47.0	10.5	-	15.7	21.8	-	440	-	620	-	-	-	-	-	-			
20-Mar-89	4	10				-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	11				-	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	12				-	4.6	-	-	6.66	-	-	-	47.9	9.4	-	16.0	24.9	-	440	-	610	-	-	-	-	-	-			
20-Mar-89	4	13				-	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	14				-	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	4	15				-	4.4	-	-	6.64	-	-	-	47.9	10.7	-	28.2	40.5	-	445	-	690	-	-	-	40	84	-	4		
20-Mar-89	4	16				-	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	5	0	1255	8.6		-	6.4	-	-	7.64	-	-	-	-	-	-	23.1	-	-	-	-	565	21.7	-	-	-	-	-			
20-Mar-89	5	1				-	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	5	2				-	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	5	3				-	5.6	-	-	7.46	-	-	-	-	-	-	19.8	-	-	-	-	590	18.1	-	-	-	-	-			
20-Mar-89	5	4				-	5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	5	5				-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	5	6				-	5.0	-	-	7.09	-	-	-	-	-	-	18.3	-	-	-	-	550	9.2	-	-	-	-	-			
20-Mar-89	5	7				-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20-Mar-89	5	8				-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	1	0	1117	10.5		-	11.0	9.0	82.7%	7.01	147	-	-	-	-	-	25.8	-	-	-	646	7.6	-	-	-	-	-	-			
10-Apr-89	1	1				-	8.1	10.1	87.1%	7.09	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	1	2				-	7.5	10.4	88.2%	7.16	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	1	3				-	7.3	10.4	87.7%	7.13	141	-	-	-	-	-	21.9	-	-	-	-	556	10.3	-	-	-	-	-			
10-Apr-89	1	4				-	7.2	10.2	86.4%	7.18	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	1	5				-	7.1	10.1	84.8%	7.16	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	1	6				-	7.0	10.1	84.3%	7.15	141	-	-	-	-	-	19.9	-	-	-	-	656	10.9	-	-	-	-	-			
10-Apr-89	2	0	1138	7.5		-	10.1	12.1	109.4%	7.69	137	-	-	-	-	-	16.7	-	-	-	-	556	9.5	-	-	-	-	-			
10-Apr-89	2	1				-	9.0	12.4	108.8%	7.68	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	2	2				-	8.8	12.4	108.5%	7.68	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	2	3				-	8.6	12.1	105.9%	7.62	138	-	-	-	-	-	16.4	-	-	-	-	596	11.2	-	-	-	-	-			
10-Apr-89	2	4				-	7.8	10.5	89.6%	7.27	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	2	5				-	7.2	10.5	88.8%	7.22	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	2	6				-	7.0	10.3	86.4%	7.20	142	-	-	-	-	-	19.2	-	-	-	-	616	8.6	-	-	-	-	-			
10-Apr-89	2	7				-	7.0	10.2	85.1%	7.17	143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	3	0	1201	8	0.361	-	10.7	12.4	114.0%	7.86	138	-	1.4	44.0	5.8	8.0	16.9	15.0	U	431	486	563	8.6	2	0	-	-	-			
10-Apr-89	3	1				46.6%	9.7	12.4	111.2%	7.90	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	3	2				21.1%	9.5	12.5	111.4%	7.83	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	3	3				6.8%	9.2	12.4	109.4%	7.75	137	-	1.4	44.1	7.0	6.8	19.3	15.0	U	464	340	604	10.5	-	-	-	-	-			
10-Apr-89	3	4				3.3%	9.1	12.3	108.4%	7.69	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	3	5				1.6%	8.6	11.7	101.8%	7.61	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10-Apr-89	3	6				0.8%	7.6	11.2	95.4%	7.43	140	-	1.2	44.3	7.2	9.5	17.7	15.0	U	490	506	596	11.2	-	-	45	B	82	B	-	6.55

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO23N	TSN	TPN	CHLa	FC	FS	Al	Fe	CL	TOC
21-Aug-89	2	6				-	14.7	2.9	28.9%	6.46	140	-	-	-	-	28.3	-	-	-	288	16.5	-	-	-	-	-	-	
21-Aug-89	2	7				-	11.4	0.1	0.8%	6.34	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	2	8	1111			-	8.7	0.1	0.6%	6.27	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	0	1120	12	0.249	-	20.2	9.3	104.2%	7.36	133	-	0.7	50.2	5.0 U	5.0 U	11.4	15.0 U	5 U	143	253	3.1	3	2	-	-	-	
21-Aug-89	3	1				46.1%	20.3	9.2	103.7%	7.45	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	2				31.5%	20.4	9.1	103.2%	7.47	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	3				20.4%	20.4	9.1	102.9%	7.48	133	-	0.7	51.2	5.0 U	5.0 U	12.0	15.0 U	5 U	186	233	2.6	-	-	-	-	-	
21-Aug-89	3	4				13.0%	20.4	9.1	102.9%	6.96	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	5				6.2%	17.8	9.4	100.7%	6.50	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	6				2.4%	14.1	2.3	22.8%	6.32	139	-	1.1	51.4	5.0 U	5.4	24.4	15.0 U	5 U	158	313	23.0	-	-	29 B	45	-	7.18
21-Aug-89	3	7				0.8%	11.0	0.1	0.8%	6.27	138	0.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	8	1137			0.4%	9.1	0.1	0.6%	6.23	137	0.127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	9				0.2%	8.2	0.1	0.4%	6.23	139	0.127	-	49.1	8.9	-	18.2	15.0 U	219	-	413	-	-	-	-	-	-	
21-Aug-89	3	10				0.1%	7.6	0.1	0.4%	6.22	139	0.113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	11				-	7.3	0.1	0.4%	6.22	139	0.103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	12				-	7.1	0.1	0.4%	6.22	139	0.099	-	49.9	23.2	-	39.5	35.1	255	-	463	-	-	-	-	-	-	
21-Aug-89	3	13				-	7.0	0.1	0.4%	6.22	140	0.099	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	14				-	7.0	0.1	0.4%	6.22	140	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	15				-	6.9	0.1	0.4%	6.23	141	0.1	-	51.0	38.7	-	66.7	60.1	262	-	494	-	-	-	28 B	519	-	7.39
21-Aug-89	3	16				-	6.7	0.1	0.5%	6.24	144	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	3	17	1210			-	6.6	0.1	0.5%	6.25	156	-0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	0	1235	12.5		-	20.6	9.2	103.9%	7.50	132	-	0.8	51.4	5.0 U	5.0 U	11.0	15.0 U	5 U	161	233	2.0 U	2	1	-	-	-	
21-Aug-89	4	1				-	20.7	9.1	103.5%	7.53	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	2				-	20.6	9.1	103.3%	7.54	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	3				-	20.5	9.1	103.3%	7.53	133	-	0.7	50.3	5.0 U	5.0 U	11.5	15.0 U	5 U	163	220	2.8	-	-	-	-	-	
21-Aug-89	4	4				-	20.5	9.1	102.5%	7.51	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	5				-	17.5	9.6	102.1%	7.18	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	6				-	13.5	2.6	25.1%	6.50	138	-	1.2	49.8	5.0 U	5.0 U	21.2	15.0 U	5 U	168	318	11.1	-	-	27 B	55.	-	7.51
21-Aug-89	4	7	1250			-	10.7	0.1	0.8%	6.33	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	8				-	8.7	0.1	0.4%	6.25	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	9				-	7.9	0.1	0.4%	6.24	138	-	-	48.3	7.4	-	17.4	15.0 U	234	-	432	-	-	-	-	-	-	
21-Aug-89	4	10				-	7.4	0.1	0.4%	6.23	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	11				-	7.3	0.1	0.4%	6.22	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	12				-	7.1	0.1	0.4%	6.22	138	-	-	49.1	11.7	-	20.7	15.0 U	323	-	472	-	-	-	-	-	-	
21-Aug-89	4	13				-	7.0	0.1	0.4%	6.22	139	0.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	14				-	6.9	0.1	0.4%	6.22	144	0.113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	4	14.	1319			-	6.8	0.1	0.4%	6.28	157	-0.08	-	48.8	18.9	-	28.3	28.9	320	-	482	-	-	-	25 B	271	-	6.76
21-Aug-89	5	0	1331	13		-	20.5	9.2	104.4%	7.39	132	-	-	-	-	-	13.0	-	-	-	250	3.4	-	-	-	-	-	
21-Aug-89	5	1				-	20.6	9.2	104.2%	7.50	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	5	2				-	20.5	9.2	103.9%	7.52	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	5	3				-	20.5	9.2	103.6%	7.52	134	-	-	-	-	-	13.8	-	-	-	242	2.3	-	-	-	-	-	
21-Aug-89	5	4				-	20.4	9.0	101.8%	7.49	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	5	5				-	17.7	9.6	103.1%	7.08	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21-Aug-89	5	6				-	13.6	1.5	14.9%	6.53	140	-	-	-	-	-	-	-	-	-	331	19.6	-	-	-	-	-	
21-Aug-89	5	7	1347			-	10.9	0.1	0.8%	6.36	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11-Sep-89	1	0	1025	14.5		-	19.7	9.5	105.7%	7.52	139	-	-	-	-	-	13.3	-	-	-	218	2.1	-	-	-	-	-	
11-Sep-89	1	1				-	19.7	9.5	105.6%	7.52	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11-Sep-89	1	2				-	19.6	9.5	105.6%	7.52	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11-Sep-89	1	3				-	19.5	9.3	102.9%	7.44	139	-	-	-	-	-	12.0	-	-	-	230	2.2	-	-	-	-	-	

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO3N	TSN	TPN	CHLa	FC	FS	Al	Fe	CL	TOC			
11-Sep-89	1	4				-	19.0	9.1	99.9%	7.32	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	1	5				-	18.4	7.9	85.2%	7.11	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	1	6	1035			-	16.2	4.5	47.1%	6.76	143	-	-	-	-	-	26.9	-	-	-	259	7.7	-	-	-	-	-	-			
11-Sep-89	2	0	1048	16		-	19.8	9.5	105.5%	7.54	139	-	-	-	-	-	12.8	-	-	-	218	2.4	-	-	-	-	-	-			
11-Sep-89	2	1				-	19.7	9.5	105.7%	7.54	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	2	2				-	19.7	9.5	105.5%	7.54	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	2	3				-	19.6	9.4	104.6%	7.54	139	-	-	-	-	-	12.0	-	-	-	229	2.4	-	-	-	-	-	-			
11-Sep-89	2	4				-	19.1	9.2	100.6%	7.40	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	2	5				-	18.1	8.2	88.6%	7.10	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	2	6				-	16.4	5.8	60.4%	6.89	142	-	-	-	-	-	16.5	-	-	-	226	4.6	-	-	-	-	-	-			
11-Sep-89	2	7	1057			-	12.7	0.2	1.6%	6.51	146	0.139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	2	8				-	9.9	0.1	0.9%	6.42	144	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	0	1115	16.5	0.226	-	19.7	9.5	105.7%	7.55	138	-	0.6	51.0	5.5	5.0	U	9.6	15.0	U	5	U	145	216	2.0	U	0	1	-		
11-Sep-89	3	1				51.5%	19.7	9.5	105.5%	7.58	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	2				35.7%	19.6	9.5	105.4%	7.58	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	3				23.8%	19.6	9.5	105.2%	7.58	138	-	0.6	50.8	5.7	5.0	U	13.8	15.0	U	5	U	151	245	2.1	-	-	-	-		
11-Sep-89	3	4				13.9%	19.5	9.4	103.9%	7.58	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	5				8.0%	18.1	8.4	90.4%	7.12	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	6				3.7%	15.8	5.2	53.9%	6.80	142	-	-	50.6	6.7	6.8	19.7	15.0	U	5	U	-	226	4.2	-	-	21	B	81	B	9.13
11-Sep-89	3	7				1.2%	12.2	0.4	4.2%	6.44	143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	8				0.5%	9.7	0.1	0.9%	6.39	142	0.139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	9				0.3%	8.4	0.1	0.4%	6.38	142	0.136	-	50.4	10.5	-	29.7	15.0	U	8	-	229	-	-	-	-	-	-			
11-Sep-89	3	10				0.1%	7.8	0.1	0.4%	6.37	142	0.129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	11				-	7.6	0.1	0.4%	6.36	143	0.125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	12				-	7.5	0.1	0.4%	6.35	143	0.121	-	51.8	30.6	-	59.9	80.9	117	-	374	-	-	-	-	-	-	-			
11-Sep-89	3	13				-	7.3	0.1	0.4%	6.35	142	0.121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	14				-	7.1	0.1	0.5%	6.34	144	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	15				-	7.0	0.1	0.5%	6.34	144	0.10	-	52.6	45.3	-	86.8	121.0	138	-	-	-	-	-	-	-	29	B	620	-	7.54
11-Sep-89	3	16				-	7.0	0.1	0.5%	6.32	151	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	17				-	6.9	0.1	0.5%	6.31	155	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	3	1140			-	19.1	9.6	106.0%	7.32	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	3	0	1143			-	19.7	9.6	107.0%	7.53	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	0	1225	15.5		-	20.0	9.4	105.8%	7.59	137	-	0.6	50.1	5.7	5.0	U	8.7	15.0	U	5	U	-	205	2.0	U	1	0	-	-	
11-Sep-89	4	1				-	19.9	9.3	103.9%	7.59	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	2				-	19.4	9.4	103.6%	7.60	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	3				-	19.3	9.4	104.1%	7.59	137	-	0.8	-	5.8	5.0	U	10.8	15.0	U	5	U	-	212	2.0	U	-	-	-	-	
11-Sep-89	4	4				-	19.2	9.4	103.6%	7.58	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	5				-	17.7	7.9	84.7%	7.12	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	6				-	15.2	7.3	73.7%	6.83	141	-	0.8	-	6.7	5.0	U	15.5	15.0	U	5	U	144	217	3.5	-	-	-	-	9.45	
11-Sep-89	4	7				-	11.9	0.8	7.6%	6.55	142	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	8				-	10.0	0.2	1.4%	6.42	141	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	9				-	8.6	0.1	0.4%	6.38	141	0.13	-	-	9.0	-	30.5	15.0	U	5	U	-	256	-	-	-	-	-	-		
11-Sep-89	4	10				-	7.9	0.1	0.4%	6.36	142	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	11				-	7.6	0.1	0.4%	6.34	142	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	12				-	7.3	0.1	0.4%	6.31	141	0.09	-	-	13.0	-	25.1	20.7	198	-	384	-	-	-	-	-	-	-			
11-Sep-89	4	13				-	7.2	0.1	0.5%	6.31	143	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	14				-	7.0	0.1	0.5%	6.34	153	0.00	-	-	38.3	-	72.2	146.4	89	-	411	-	-	-	-	-	24	B	544	-	6.42
11-Sep-89	4	3	1255			-	18.8	9.7	105.7%	7.34	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	4	0	1257			-	19.5	9.7	107.4%	7.54	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11-Sep-89	5	0		14.5		-	19.9	9.5	106.0%	7.66	137	-	-	-	-	-	10.5	-	-	-	-	206	2.0	U	-	-	-	-	-		

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO23N	TSN	TPN	CHLa	FC	FS	AI	Fe	CL	TOC				
23-Oct-89	4	6				-	13.8	8.7	85.4%	7.33	-	0.014	0.4	50.7	5.0	U	-	12.7	15.0	U	5	U	156	212	2.9	-	-	95	62.	-	4.98	
23-Oct-89	4	7				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23-Oct-89	4	8				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23-Oct-89	4	9				-	10.1	0.4	3.6%	6.94	-	0.067	-	51.6	33.4	-	46.3	20.0	-	5	U	-	221	-	-	-	-	-	-	-	-	
23-Oct-89	4	10				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23-Oct-89	4	11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23-Oct-89	4	12				-	8.3	0.2	1.8%	6.82	-	0.03	-	52.0	43.1	-	54.9	62.7	-	5	U	-	231	-	-	-	-	-	-	-	-	
23-Oct-89	4	13				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23-Oct-89	4	14				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23-Oct-89	4	15				-	7.5	0.0	0.0%	6.83	-	-0.07	-	61.3	364	-	383	733	-	5	U	-	876	-	-	-	27	B	***	-	8.86	
23-Oct-89	5	0	1256		13	-	13.6	-	-	-	-	-	-	-	-	-	14.3	-	-	-	-	226	3.0	-	-	-	-	-	-	-	-	
23-Oct-89	5	3				-	-	-	-	-	-	-	-	-	-	-	16.8	-	-	-	-	214	3.3	-	-	-	-	-	-	-	-	
23-Oct-89	5	6				-	-	-	-	-	-	-	-	-	-	-	15.3	-	-	-	-	213	2.6	-	-	-	-	-	-	-	-	
13-Nov-89	1	0				-	-	-	-	-	-	-	-	-	-	-	19.4	-	-	-	-	228	5.7	-	-	-	-	-	-	-	-	
13-Nov-89	1	1	1005		12.2	-	10.3	9.3	84.9%	6.71	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	1	2				-	10.3	9.3	84.1%	6.75	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	1	3				-	10.3	9.3	84.5%	6.84	137	-	-	-	-	-	19.2	-	-	-	-	221	7.1	-	-	-	-	-	-	-	-	
13-Nov-89	1	4				-	10.3	9.3	84.5%	6.87	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	1	5				-	10.3	9.3	84.5%	6.89	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	1	6	1028			-	9.1	7.1	62.6%	5.87	174	-	-	-	-	-	20.2	-	-	-	-	228	3.0	-	-	-	-	-	-	-	-	
13-Nov-89	2	0				-	-	-	-	-	-	-	-	-	-	-	17.9	-	-	-	-	227	3.6	-	-	-	-	-	-	-	-	
13-Nov-89	2	1	1031		11	-	10.2	9.3	84.7%	6.77	136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	2	2				-	10.3	9.3	84.2%	6.81	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	2	3				-	10.3	9.3	84.2%	6.83	137	-	-	-	-	-	17.9	-	-	-	-	212	4.4	-	-	-	-	-	-	-	-	
13-Nov-89	2	4				-	10.3	9.3	84.2%	6.85	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	2	5				-	10.3	9.3	84.2%	6.87	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	2	6				-	10.3	9.3	84.2%	6.88	138	-	-	-	-	-	19.6	-	-	-	-	212	7.4	-	-	-	-	-	-	-	-	
13-Nov-89	2	7				-	10.3	9.2	83.7%	6.89	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	2	8				-	10.0	6.7	60.6%	6.67	152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	2	9	1050			-	9.8	4.4	39.0%	6.55	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	0	1054		10.5	0.329	-	10.2	9.0	82.0%	6.87	136	-	0.6	50.1	5.4	8.2	16.3	15.0	U	5	U	146	191	6.1	4	7	-	-	2.7	-	
13-Nov-89	3	1				-	58.0%	10.2	9.0	82.0%	6.88	136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	2				-	18.6%	10.2	9.0	82.0%	6.90	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	3				-	9.3%	10.3	9.1	82.4%	6.91	138	-	0.6	50.5	5.0	U	8.0	19.4	15.0	U	5	U	148	205	4.5	-	-	-	-	-	
13-Nov-89	3	4				-	4.7%	10.3	9.1	82.6%	6.91	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	5				-	2.3%	10.3	9.1	82.3%	6.91	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	6	1124			-	1.2%	10.3	9.0	81.3%	6.80	139	-	0.6	50.0	5.6	8.0	19.0	15.0	U	5	U	155	196	4.9	-	-	7	B	56	-	5.97
13-Nov-89	3	7				-	0.6%	10.3	9.0	81.4%	6.80	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	8	1140			-	0.3%	10.2	9.0	81.5%	6.82	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	9				-	0.2%	10.2	8.9	80.2%	6.84	139	-	-	50.1	5.4	-	19.9	15.0	U	5	U	-	218	-	-	-	-	-	-	-	-
13-Nov-89	3	10				-	0.1%	10.2	8.9	80.6%	6.84	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	11				-	9.4	0.3	2.4%	6.54	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	12				-	7.6	0.1	0.9%	6.33	148	-	-	53.3	24.5	-	53.7	59.3	-	5	U	-	311	-	-	-	-	-	-	-	-	
13-Nov-89	3	13				-	7.5	0.1	0.4%	6.28	149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	3	14				-	7.0	0.1	0.4%	6.28	150	-	-	55.6	127	-	147	200	-	5	U	-	451	-	-	-	8	B	808	-	8.37	
13-Nov-89	4	0	1248		10.5	-	10.2	9.1	82.6%	6.94	138	-	0.6	50.3	5.1	6.5	17.0	15.0	U	5	U	155	190	6.1	0	9	-	-	2.4	-	-	
13-Nov-89	4	1				-	10.2	9.0	81.6%	6.93	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	4	2				-	10.2	9.0	81.2%	6.92	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-89	4	3				-	10.2	9.0	81.2%	6.92	138	-	0.7	50.6	5.0	U	7.7	19.7	15.0	U	5	U	151	214	6.0	-	-	-	-	-	-	

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO23N	TSN	TPN	CHLa	FC	FS	AI	Fe	CL	TOC	
08-Jan-90	3	0			0.362	-	-	-	-	-	-	-	0.9	48.2	29.4	27.2	37.8	49.4	218	411	441	4.8	6	5	-	-	2.4	-	
08-Jan-90	3	1	1040			39.7%	6.3	9.4	77.3%	6.83	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	2				20.6%	6.3	9.3	76.9%	6.81	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	3				8.3%	6.2	9.3	76.9%	6.81	130	-	1.0	49.4	25.3	27.7	38.4	49.0	219	423	456	4.6	-	-	-	-	-	-	
08-Jan-90	3	4				3.5%	6.2	9.3	76.5%	6.81	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	5				1.7%	6.2	9.3	76.5%	6.80	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	6				0.6%	6.2	9.3	76.5%	6.80	131	-	1.2	49.1	30.2	27.5	36.4	42.4	215	400	420	4.8	-	-	35	J	143	-	9.21
08-Jan-90	3	7				0.3%	6.2	9.2	76.0%	6.80	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	8				0.2%	6.2	9.2	76.0%	6.80	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	9				0.1%	6.2	9.2	76.0%	6.80	131	-	-	48.7	23.5	-	36.7	49.7	217	-	433	-	-	-	-	-	-	-	
08-Jan-90	3	10				0.0%	6.2	8.9	72.9%	6.77	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	11				0.0%	6.2	8.7	71.5%	6.76	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	12				0.0%	6.2	8.5	69.7%	6.72	135	-	-	50.2	29.1	-	43.0	50.6	235	-	474	-	-	-	-	-	-	-	
08-Jan-90	3	13				0.0%	6.1	7.1	57.8%	6.65	143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	14				0.0%	6.0	6.7	54.5%	6.61	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	15				-	6.0	6.0	49.0%	6.24	149	-	-	53.4	46.9	-	71.1	97.6	273	-	234	-	-	-	43	J	266	-	10.9
08-Jan-90	3	16				-	5.9	5.4	44.3%	6.37	151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	3	17	1110			-	5.9	3.7	30.2%	6.39	159	0.128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	0				-	-	-	-	-	-	-	1.0	48.5	21.4	26.7	42.2	46.1	184	350	446	6.6	2	7	-	-	2.4	-	
08-Jan-90	4	1	1140	10.9		-	6.5	9.7	80.3%	7.01	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	2				-	6.4	9.6	79.1%	6.98	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	3				-	6.4	9.5	78.8%	6.95	129	-	1.0	47.9	24.1	28.0	41.2	43.5	193	384	412	7.1	-	-	-	-	-	-	
08-Jan-90	4	4				-	6.4	9.5	78.7%	6.94	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	5				-	6.4	9.5	78.4%	6.92	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	6				-	6.4	9.4	78.0%	6.90	130	-	0.9	48.6	24.3	27.2	37.9	43.1	194	387	440	7.3	-	-	31	J	136	-	7.12
08-Jan-90	4	7				-	6.3	9.4	77.6%	6.89	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	8				-	6.3	9.3	76.3%	6.86	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	9				-	6.2	9.0	74.1%	6.84	130	-	-	48.0	25.0	-	35.4	44.8	201	-	421	-	-	-	-	-	-	-	
08-Jan-90	4	10				-	6.2	9.0	73.6%	6.82	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	11				-	6.2	9.0	73.7%	6.81	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	12				-	6.2	8.9	72.9%	6.81	131	-	-	48.8	23.7	-	37.9	45.8	198	-	429	-	-	-	-	-	-	-	
08-Jan-90	4	13				-	6.2	8.8	72.4%	6.80	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	14				-	6.1	8.7	71.5%	6.79	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	4	15	1200			-	6.1	7.5	61.4%	6.74	134	-	-	48.8	25.8	-	38.2	47.2	194	-	427	-	-	-	32	J	139	-	6.12
08-Jan-90	5	0				-	-	-	-	-	-	-	-	-	-	-	38.4	-	-	-	411	7.0	-	-	-	-	-	-	
08-Jan-90	5	1	1230	13.8		-	6.5	9.6	79.9%	7.04	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	5	2				-	6.4	9.4	77.4%	6.97	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	5	3				-	6.3	9.2	76.2%	6.93	128	-	-	-	-	-	37.9	-	-	-	412	4.8	-	-	-	-	-	-	
08-Jan-90	5	4				-	6.3	9.1	74.8%	6.90	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	5	5				-	6.3	9.0	74.4%	6.87	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
08-Jan-90	5	6				-	6.3	9.0	74.0%	6.85	129	-	-	-	-	-	38.2	-	-	-	425	4.0	-	-	-	-	-	-	
08-Jan-90	5	7				-	6.3	9.0	74.0%	6.84	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
05-Feb-90	1	0				-	-	-	-	-	-	-	-	-	-	-	38.9	-	-	-	706	2.9	-	-	-	-	-	-	
05-Feb-90	1	1	1000	9.5		-	5.5	11.0	88.6%	7.07	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
05-Feb-90	1	2				-	5.4	10.8	86.7%	7.04	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
05-Feb-90	1	3				-	5.3	10.7	86.4%	6.99	125	-	-	-	-	-	-	-	-	-	690	3.2	-	-	-	-	-	-	
05-Feb-90	1	4				-	5.3	10.7	86.1%	6.96	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
05-Feb-90	1	5				-	5.3	10.7	85.7%	6.93	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
05-Feb-90	1	6				-	5.2	10.4	83.4%	6.91	127	-	-	-	-	-	41.6	-	-	-	680	3.1	-	-	-	-	-	-	

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO23N	TSN	TPN	CHLa	FC	FS	Al	Fe	CL	TOC			
05-Feb-90	5	3				-	5.1	10.8	86.7%	6.93	123	-	-	-	-	-	35.6	-	-	-	640	3.6	-	-	-	-	-	-			
05-Feb-90	5	4				-	5.1	10.8	86.6%	6.91	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
05-Feb-90	5	5				-	5.1	10.8	86.7%	6.90	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
05-Feb-90	5	6				-	5.1	10.8	86.7%	6.89	124	-	-	-	-	-	37.1	-	-	-	-	622	4.5	-	-	-	-	-	-		
05-Mar-90	1	0		10.7		-	7.8	12.1	103.9%	7.18	116	-	-	-	-	-	34.7	-	-	-	-	643	14.7	-	-	-	-	-	-		
05-Mar-90	1	1				-	7.9	12.5	107.1%	7.09	121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	1	2				-	7.2	11.8	99.5%	6.99	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	1	3				-	6.5	11.1	91.9%	6.89	137	-	-	-	-	-	41.3	-	-	-	-	685	6.6	-	-	-	-	-	-		
05-Mar-90	1	4				-	6.0	11.2	91.3%	6.83	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	1	5				-	5.7	11.3	91.8%	6.81	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	1	6				-	5.8	10.2	83.2%	6.75	135	-	-	-	-	-	-	31.8	-	-	-	-	639	3.8	-	-	-	-	-		
05-Mar-90	2	0		10.1		-	7.8	13.3	113.4%	7.14	118	-	-	-	-	-	-	32.5	-	-	-	-	635	16.4	-	-	-	-	-		
05-Mar-90	2	1				-	7.7	13.3	113.2%	7.13	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	2				-	7.1	13.3	111.6%	7.12	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	3				-	6.2	12.4	101.7%	7.02	124	-	-	-	-	-	25.0	-	-	-	-	631	3.1	-	-	-	-	-	-		
05-Mar-90	2	4				-	5.6	11.6	94.0%	6.96	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	5				-	5.5	11.1	89.9%	6.90	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	6				-	5.4	10.9	87.8%	6.84	129	-	-	-	-	-	28.1	-	-	-	-	624	3.1	-	-	-	-	-	-		
05-Mar-90	2	7				-	4.8	10.7	84.7%	6.80	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	8				-	4.8	10.5	83.6%	6.73	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	9				-	4.8	10.5	83.5%	6.68	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	2	10				-	4.7	9.9	78.4%	6.65	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	0	1100	9.6	0.351	-	7.6	13.2	112.0%	7.04	122	-	1.0	40.0	5.0	U	10.5	26.2	15.0	U	445	540	473	11.0	4	0	-	-	2.2	-	
05-Mar-90	3	1				38.1%	7.6	13.2	112.1%	7.04	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	2				18.4%	7.4	13.2	111.5%	7.05	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	3				12.3%	6.3	12.5	103.5%	7.00	125	-	0.8	40.9	5.8	-	11.0	27.9	15.0	U	458	562	634	7.9	-	-	-	-	-	-	
05-Mar-90	3	4				5.3%	5.8	12.2	99.2%	6.97	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	5				1.0%	5.4	11.8	95.3%	6.93	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	6				0.9%	5.3	11.3	91.1%	6.86	128	-	0.9	40.8	5.0	U	18.7	28.1	15.0	U	505	599	532	5.0	-	-	47	B	123	-	6.89
05-Mar-90	3	7				0.4%	5.2	11.2	89.8%	6.83	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	8				0.2%	5.1	11.1	88.7%	6.81	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	9				0.1%	5.0	11.0	87.8%	6.76	129	-	-	41.5	16.3	-	30.1	15.0	U	523	-	347	-	-	-	-	-	-	-		
05-Mar-90	3	10				0.0%	4.9	10.9	87.0%	6.73	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	11				0.0%	4.8	10.7	84.7%	6.70	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	12				0.0%	4.7	10.5	83.2%	6.69	129	-	-	41.9	21.7	-	35.4	15.0	U	540	-	675	-	-	-	-	-	-	-		
05-Mar-90	3	13				0.0%	4.6	10.3	81.6%	6.66	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	14				0.0%	4.5	9.9	78.3%	6.62	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	15				-	4.5	8.9	70.2%	6.56	135	-	-	42.9	21.7	-	38.8	15.0	U	580	-	614	-	-	-	67	B	133	-	8.15	
05-Mar-90	3	16				-	4.5	8.9	70.2%	6.53	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	3	17				-	4.5	8.4	66.5%	6.48	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	0	1210	10.2		-	7.5	13.4	113.6%	7.21	123	-	0.9	40.8	15.3	-	11.7	25.9	15.0	U	433	551	469	11.5	1	0	-	-	2.9	-	
05-Mar-90	4	1				-	7.5	13.4	114.0%	7.21	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	2				-	7.4	13.4	114.0%	7.20	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	3				-	7.0	13.2	111.1%	7.19	124	-	0.7	40.9	12.3	-	11.3	32.7	15.0	U	447	561	638	11.2	-	-	-	-	-	-	
05-Mar-90	4	4				-	6.4	12.8	106.1%	7.14	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	5				-	5.8	12.2	99.8%	7.06	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	6				-	5.5	11.7	94.7%	7.00	126	-	0.9	40.7	16.6	-	12.2	27.4	15.0	U	486	584	612	5.0	-	-	52	B	89	B	6.36
05-Mar-90	4	7				-	5.3	11.7	93.8%	6.96	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	8				-	5.3	11.5	92.5%	6.92	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	9				-	5.1	11.4	90.8%	6.85	127	-	-	40.5	17.6	-	28.6	15.0	U	507	-	460	-	-	-	-	-	-	-		
05-Mar-90	4	10				-	5.0	11.1	88.8%	6.82	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	11				-	4.9	11.0	87.7%	6.81	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
05-Mar-90	4	12				-	4.9	10.9	86.8%	6.78	128	-	-	40.8	20.9	-	28.4	15.0	U	532	-	630	-	-	-	-	-	-	-		

DATE	STN	DEP	TIME	SECCHI	EXTINCT	LIGHT	TEMP	DO	DOSAT	pH	COND	ORP	TURB	ALK	SRP	TSP	TP	NH3N	NO23N	TSN	TPN	CHLa	FC	FS	Al	Fe	CL	TOC	
02-Apr-90	4	14				-	5.5	7.3	59.0%	6.19	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02-Apr-90	4	15				-	5.5	5.5	44.6%	6.12	133	-	-	42.2	6.4	-	18.3	15.0	U	511	-	682	-	-	-	26	102	-	7.28
02-Apr-90	5	0	1204			-	10.7	12.7	116.2%	7.25	125	-	-	-	-	-	16.0	-	-	-	514	4.4	-	-	-	-	-	-	
02-Apr-90	5	1				-	10.6	12.7	116.5%	7.24	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02-Apr-90	5	2				-	10.3	12.6	114.7%	7.23	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02-Apr-90	5	3				-	8.9	13.6	119.9%	7.33	125	-	-	-	-	-	17.0	-	-	-	511	7.6	-	-	-	-	-	-	
02-Apr-90	5	4				-	8.2	12.8	110.3%	7.22	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02-Apr-90	5	5				-	7.5	11.4	96.5%	7.05	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02-Apr-90	5	6				-	6.7	9.1	76.0%	6.80	129	-	-	-	-	-	17.3	-	-	-	567	8.4	-	-	-	-	-	-	

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APPENDIX A.2. Lake Sawyer watershed database key and explanation of field names, data units and data qualifiers.

FIELD NAME	PARAMETER	UNITS
STN	Station	--
DATE	Date	--
REPL	Replicate	--
TIME	Time of Sampling	military time
FLOW	Discharge	cfs
TEMP	Temperature	degrees C
pH	pH	SU
DO	Dissolved Oxygen	mg/L
DOSAT	Dissolved Oxygen Saturation	percent
TURB	Turbidity	NTU
COND	Specific Conductance	μ mhos/cm
SRP	Soluble Reactive Phosphorus	μ g/L
TP	Total Phosphorus	μ g/L
TSP	Total Soluble Phosphorus	μ g/L
NH3N	Ammonia as Nitrogen	μ g/L
NO23N	Nitrate + Nitrite as Nitrogen	μ g/L
TSN	Total Soluble Nitrogen	μ g/L
TPN	Total Persulfate Nitrogen	μ g/L
FC	Fecal Coliform	#/100mL
FS	Fecal Streptococci	#/100mL
CL	Chloride	mg/L
TOC	Total Organic Carbon	mg/L

Missing Data Code: "--"

Data Qualifiers:

- J = Estimated value: value not accurate.
- B = Analyte is found in the blank as well as the sample, indicating possible/probable blank contamination.
- U = Analyzed but not detected. The value reported is the lower reporting limit (estimated detection limit).
- P = Greater than (>).
- TMTC = Too many to count.

KEY FOR WATERSHED STATION NAMES:

- | | |
|-----------------------------------|--|
| BDLC = BLACK DIAMOND LAKE CREEK | RCA = ROCK CREEK AT ABRAMS ROAD |
| COV = COVINGTON CREEK | RCLS= ROCK CREEK AT LAKE SAWYER |
| GINDN= GINDER CREEK AT ROCK CREEK | RCMB= ROCK CREEK AT MORGANVILLE BRIDGE |
| GINUP= GINDER CREEK UPSTREAM | WTP DRAIN = TREATMENT PLANT DRAIN TILE |
| MM = MORGANVILLE MARSH DRAINAGE | WTP SPRING= TREATMENT PLANT SPRING |
| PS = PALMER SPRING | WTPEFF = TREATMENT PLANT EFFLUENT |
| RAV = RAVENSDALE CREEK | WTPIN = TREATMENT PLANT INFLUENT |

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
BDLC	27-Feb-89	A	800	0.9	-	-	-	-	-	-	-	22.2	-	-	-	-	810	-	-	-	-
BDLC	27-Feb-89	B	1535	-	4.9	7.10	11.3	89.9%	-	-	10.6	23.6	-	15.0 U	490	-	890	-	-	-	-
COV	27-Feb-89	A	915	-	-	-	-	-	-	-	-	20.5	-	-	-	-	630	-	-	-	-
COV	27-Feb-89	B	1505	-	-	-	13.2	92.0%	1.0	151	13.9	21.2	-	15.0 U	470	-	630	-	-	-	-
MM	27-Feb-89	A	835	0.3	-	-	-	-	-	-	-	13.9	-	-	-	-	900	-	-	-	-
MM	27-Feb-89	B	1605	-	4.0	7.56	7.7	59.8%	-	-	10.4	14.3	-	15.0 U	560	-	885	-	-	-	-
PS	27-Feb-89	A	810	0.2	-	-	-	-	-	-	-	33.2	-	-	-	-	1040	-	-	-	-
PS	27-Feb-89	B	1545	-	10.6	7.61	2.4	22.0%	-	-	24.9	51.8	-	708	5 U	-	970	-	-	-	-
RAV	27-Feb-89	A	905	-	-	-	-	-	-	-	-	5.5	-	-	-	-	590	-	-	-	-
RAV	27-Feb-89	B	1635	-	6.7	8.40	12.1	100.8%	0.6	125	5.0 U	6.0	-	15.0 U	560	-	570	-	-	-	-
RCA	27-Feb-89	A	830	-	-	-	-	-	-	-	-	25.4	-	-	-	-	1630	-	-	-	-
RCA	27-Feb-89	B	1555	14.4	4.9	8.50	11.6	92.3%	3.7	164	8.6	21.4	-	15.0 U	980	-	1920	-	-	-	-
RCLS	27-Feb-89	A	855	-	-	-	-	-	-	-	-	81.4	-	-	-	-	1030	-	-	-	-
RCLS	27-Feb-89	B	1625	-	3.4	8.63	11.1	84.9%	2.2	182	61.2	81.4	-	20.1	740	-	1010	-	-	-	-
RCMB	27-Feb-89	A	845	-	-	-	-	-	-	-	-	91.9	-	-	-	-	1320	-	-	-	-
RCMB	27-Feb-89	B	1615	14.2	3.2	7.92	11.1	84.5%	2.6	179	76.3	94.1	-	25.5	920	-	1970	-	-	-	-
WTPEFF	27-Feb-89	A	820	-	-	-	-	-	-	-	-	4927	-	-	-	-	19690	-	-	-	-
WTPEFF	27-Feb-89	B	-	-	-	-	-	-	16	380	4311	4621	-	4172	60	-	20560	2910	-	-	-
BDLC	21-Mar-89	A	875	-	-	-	-	-	-	-	-	22.9	-	-	-	-	770	-	-	-	-
BDLC	21-Mar-89	B	1140	2.4	8.7	6.90	10.4	91.0%	1.0	-	8.5	40.3	9.3	21.1	490	-	840	9	3	1.88	10.2
BDLC	21-Mar-89	C	1445	-	-	-	-	-	-	-	-	30.0	-	-	-	-	890	25	24	-	-
COV	21-Mar-89	A	1110	-	-	-	-	-	-	-	-	21.2	-	-	-	-	575	-	-	-	-
COV	21-Mar-89	B	1425	52.5	6.7	7.41	13.0	108.1%	1.0	-	5.0 U	20.9	5.1	23.1	360	-	520	-	-	2.50	6.4
COV	21-Mar-89	C	1545	-	-	-	-	-	-	-	-	22.7	-	-	-	-	560	-	-	-	-
GINDDN	21-Mar-89	A	835	-	-	-	-	-	-	-	-	16.2	-	-	-	-	810	-	-	-	-
GINDDN	21-Mar-89	B	1225	7.3	8.4	7.47	8.2	71.2%	5.1	-	8.0	18.4	6.1	15.0 U	840	-	920	6	6	2.25	8.1
GINDDN	21-Mar-89	C	1455	-	-	-	-	-	-	-	-	21.4	-	-	-	-	920	101	15	-	-
GINDUP	21-Mar-89	A	1025	6.6	-	-	-	-	-	-	-	25.2	-	-	-	-	880	-	-	-	-
GINDUP	21-Mar-89	B	1245	-	7.7	7.01	11.2	95.6%	5.1	-	6.5	21.7	5.0 U	28.0	970	-	1060	108	38	2.10	8.2
GINDUP	21-Mar-89	C	1505	-	-	-	-	-	-	-	-	38.9	-	-	-	-	1010	151	72	-	-
MM	21-Mar-89	A	1035	-	-	-	-	-	-	-	-	13.9	-	-	-	-	740	-	-	-	-
MM	21-Mar-89	B	1305	0.3	7.4	6.20	5.7	48.3%	3.7	-	8.8	13.6	10.5	18.1	320	-	770	1	0	2.00	14
MM	21-Mar-89	C	1513	-	-	-	-	-	-	-	-	17.4	-	-	-	-	700	5	0	-	-
PS	21-Mar-89	A	1020	-	-	-	-	-	-	-	-	33.0	-	-	-	-	1090	-	-	-	-
PS	21-Mar-89	B	1155	0.3	15.9	6.82	1.3	12.9%	1.4	-	28.4	33.5	29.4	965	5 U	-	1010	0	0	0.30 U	37
PS	21-Mar-89	C	1450	-	-	-	-	-	-	-	-	34.2	-	-	-	-	1090	-	0	-	-
RAV	21-Mar-89	A	1055	-	-	-	-	-	-	-	-	7.1	-	-	-	-	535	-	-	-	-
RAV	21-Mar-89	B	1410	24.8	7.7	6.71	11.8	100.8%	0.9	-	5.0 U	5.0 U	5.0 U	15.0 U	540	-	590	0	1	2.10	3.2
RAV	21-Mar-89	C	1535	-	-	-	-	-	-	-	-	6.3	-	-	-	-	560	1	2	-	-
RCA	21-Mar-89	A	820	-	-	-	-	-	-	-	-	20.7	-	-	-	-	1100	-	-	-	-
RCA	21-Mar-89	B	1220	20.2	8.4	7.47	10.8	93.8%	2.8	-	6.4	19.7	8.1	16.1	970	-	940	4	3	2.49	7.35
RCA	21-Mar-89	C	1455	-	-	-	-	-	4.4	-	5.0 U	21.4	-	15.0 U	960	-	1000	-	11	2.23	10
RCLS	21-Mar-89	A	1045	-	-	-	-	-	-	-	-	67.7	-	-	-	-	1220	-	-	-	-
RCLS	21-Mar-89	B	1400	22.8	7.6	6.67	10.5	89.4%	1.8	-	47.5	69.2	50.2	15.0 U	775	-	1100	9	7	2.90	8.8
RCLS	21-Mar-89	C	1530	-	-	-	-	-	-	-	-	65.2	-	-	-	-	1030	12	12	-	-
RCMB	21-Mar-89	A	1040	-	-	-	-	-	-	-	-	75.5	-	-	-	-	1300	-	-	-	-
RCMB	21-Mar-89	B	1320	19.1	8.2	6.39	12.2	105.5%	1.8	-	56.7	77.7	59.1	15.0 U	760	-	980	7	9	2.75	7.8
RCMB	21-Mar-89	C	1520	-	-	-	-	-	1.8	-	61.8	74.0	59.9	15.0 U	780	-	970	22	10	2.50	12.6
SCUA	21-Mar-89	-	827	-	-	-	-	-	-	-	-	15.4	-	-	-	-	900	-	-	-	-

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
WTPDRAIN	21-Mar-89		1000	-	-	-	-	-	0.8	-	131	70.7	120	856	1340	-	2310	400	100	2.05	-
WTPSPRING	21-Mar-89		1000	.5gpm	-	-	-	-	4.0	-	6.9	24.4	11.3	53.8	5 U	-	380	0	0	1.35	-
WTPEFF	21-Mar-89	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.4
WTPEFF	21-Mar-89	B	850	-	-	-	-	-	-	-	-	3886	-	-	-	-	12700	1400	1380	-	-
WTPEFF	21-Mar-89	OM	850	-	-	-	-	-	18	-	3474	4125	3800	11962	9	-	15040	-	-	15.50	-
WTPIN	21-Mar-89	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
WTPIN	21-Mar-89	B	915	-	-	-	-	-	-	-	-	6425	-	-	-	-	28140	-	-	-	-
WTPIN	21-Mar-89	OM	915	-	-	-	-	-	26	-	2963	4314	3527	12836	600	-	17270	-	-	13.80	-
BDLC	11-Apr-89	A	730	-	-	-	-	-	-	-	-	26.6	-	-	-	-	-	-	-	-	-
BDLC	11-Apr-89	B	1229	2.5	13.2	6.63	11.1	107.6%	1.5	47	6.8	34.0	8.5	15.0 U	349	665	782	3	2	1.85	10.2
BDLC	11-Apr-89	C	1740	-	-	-	-	-	-	-	-	30.8	-	-	-	-	744	6	5	-	-
COV	11-Apr-89	A	1151	-	-	-	-	-	-	-	-	17.0	-	-	-	-	546	-	-	-	-
COV	11-Apr-89	B	1648	56.0	12.4	8.31	12.8	122.5%	1.4	136	5.0 U	20.9	5.0 U	15.0 U	329	476	498	0	1	2.25	6.4
COV	11-Apr-89	C	1856	-	-	-	-	-	-	-	-	20.2	-	-	-	-	563	0	1	-	-
GINDDN	11-Apr-89	A	757	-	-	-	-	-	-	-	-	15.7	-	-	-	-	899	-	-	-	-
GINDDN	11-Apr-89	B	1343	4.8	14.8	7.53	9.8	98.1%	3.5	65	6.0	17.2	5.3	25.4	638	440	700	5	2	1.85	8.1
GINDDN	11-Apr-89	C	1756	-	-	-	-	-	-	-	-	17.2	-	-	-	-	670	2	2	-	-
GINDUP	11-Apr-89	A	835	-	-	-	-	-	-	-	-	21.9	-	-	-	-	893	-	-	-	-
GINDUP	11-Apr-89	B	1502	4.9	13.4	7.45	10.5	102.3%	6.5	182	7.1	23.4	5.0 U	22.5	805	1100	929	26	2	1.75	8.2
GINDUP	11-Apr-89	C	1810	-	-	-	-	-	-	-	-	24.3	-	-	-	-	862	3	5	-	-
MM	11-Apr-89	A	847	-	-	-	-	-	-	-	-	21.7	-	-	-	-	571	-	-	-	-
MM	11-Apr-89	B	1515	0.2	16.5	6.65	5.6	58.8%	1.1	50	10.7	18.7	12.2	27.6	177	686	603	1	2	2.10	14
MM	11-Apr-89	C	1814	-	-	-	-	-	-	-	-	20.2	-	-	-	-	633	0	1	-	-
PS	11-Apr-89	A	807	-	-	-	-	-	-	-	-	31.3	-	-	-	-	1050	-	-	-	-
PS	11-Apr-89	B	1416	0.3	17.2	7.42	0.8	8.7%	1.0	525	22.1	32.8	21.9	1122	5 U	1250	1090	0	0	0.30 U	37
PS	11-Apr-89	C	1745	-	-	-	-	-	-	-	-	31.8	-	-	-	-	1010	0	0	-	-
RAV	11-Apr-89	A	1124	-	-	-	-	-	-	-	-	7.3	-	-	-	-	510	-	-	-	-
RAV	11-Apr-89	B	1626	36.9	11.9	7.27	10.9	102.4%	0.7	130	5.0 U	5.1	5.0 U	15.0 U	487	424	498	0	0	1.90	3.2
RAV	11-Apr-89	C	1842	-	-	-	-	-	-	-	-	5.6	-	-	-	-	460	0	2	-	-
RCA	11-Apr-89	A	751	-	-	-	-	-	-	-	-	21.9	-	-	-	-	1040	-	-	-	-
RCA	11-Apr-89	B	1310	15.5	12.5	7.25	10.8	103.4%	3.1	170	5.0 U	26.4	10.5	15.0 U	839	1020	901	11	9	2.03	8.4
RCA	11-Apr-89	C	1803	-	-	-	-	-	3.0	-	5.0 U	20.9	8.5	15.0 U	770	965	944	12	10	2.10	10
RCLS	11-Apr-89	A	1110	-	-	-	-	-	-	-	-	47.4	-	-	-	-	802	-	-	-	-
RCLS	11-Apr-89	B	1614	17.8	11.5	6.90	8.9	83.3%	1.7	163	34.0	52.3	38.6	15.5	411	801	775	3	9	2.40	8.8
RCLS	11-Apr-89	C	1838	-	-	-	-	-	-	-	-	47.4	-	-	-	-	705	4	14	-	-
RCMB	11-Apr-89	A	852	-	-	-	-	-	-	-	-	77.8	-	-	-	-	838	-	-	-	-
RCMB	11-Apr-89	B	1528	15.9	13.8	7.32	10.3	101.0%	2.3	158	59.7	85.0	65.4	17.9	469	676	853	7	11	2.40	10.7
RCMB	11-Apr-89	C	1828	-	-	-	-	-	2.5	-	61.8	87.2	67.6	15.0 U	517	912	822	8	8	2.45	12.6
SCUA	11-Apr-89			1.8	-	-	-	-	-	-	-	16.0	-	-	-	-	660	-	-	-	-
WTPDRAIN	11-Apr-89		810	-	-	-	-	-	2.2	-	225	308	358	1005	1240	2140	2450	870	60	2.20	6.4
WTPEFF	11-Apr-89	A		-	-	-	-	-	-	-	-	-	-	-	-	-	12600	-	-	-	-
WTPEFF	11-Apr-89	B	925	-	-	-	-	-	-	-	-	3630	-	-	-	-	13100	10	50	-	-
WTPEFF	11-Apr-89	OM	925	-	-	-	-	-	17	-	3361	3693	-	10195	13	-	13500	-	-	15.10	28.4
WTPIN	11-Apr-89	A		-	-	-	-	-	-	-	-	-	-	-	-	-	30000	-	-	-	-
WTPIN	11-Apr-89	B	1017	-	-	-	-	-	-	-	-	5277	-	-	-	-	27000	-	-	-	-
WTPIN	11-Apr-89	OM	1017	-	-	-	-	-	36	-	3711	5003	4820	12980	5 U	14400	15300	-	-	19.15	60
BDLC	02-May-89	A	935	-	-	-	-	-	-	-	-	34.8	-	-	-	-	525	-	-	-	-
BDLC	02-May-89	B	1125	0.4	15.4	6.80	8.4	85.9%	1.1	55	21.2	35.7	23.6	65.5	20	434	471	9	37	2.20	12.5

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
COV	02-May-89	A	1100	-	-	-	-	-	-	-	-	16.0	-	-	-	-	363.5	-	-	-	-
COV	02-May-89	B	1515	23.3	16.2	8.25	11.6	120.3%	1.1	139	5.0 U	16.8	5.0 U	17.8	200	394	364	9	1	2.35	4.85
GINDDN	02-May-89	A	1005	-	-	-	-	-	-	-	-	19.4	-	-	-	-	481	-	-	-	-
GINDDN	02-May-89	B	1210	1.1	12.0	7.36	9.5	89.7%	3.9	290	9.2	26.4	9.9	41.1	210	219	366	107	16	2.45	11.4
GINDUP	02-May-89	A	1010	-	-	-	-	-	-	-	-	19.4	-	-	-	-	-	-	-	-	-
GINDUP	02-May-89	B	1330	0.5	16.4	7.55	11.4	118.6%	1.6	239	5.8	14.5	6.9	19.4	260	285	410	37	28	2.00	8.57
MM	02-May-89	A	1017	-	-	-	-	-	-	-	-	45.9	-	-	-	-	1070	-	-	-	-
MM	02-May-89	B	1340	0.1	15.6	6.02	10.6	108.2%	1.6	137	25.9	54.5	28.1	43.0	10	678	1020	31	37	2.45	33.8
PS	02-May-89	A	945	-	-	-	-	-	-	-	-	34.5	-	-	-	-	1140	-	-	-	-
PS	02-May-89	B	1140	0.1	16.7	7.05	0.6	6.3%	1.3	155	20.4	34.9	21.6	967	10	1550	1110	0	0	0.30 U	48.4
RAV	02-May-89	A	1043	-	-	-	-	-	-	-	-	7.9	-	-	-	-	390	-	-	-	-
RAV	02-May-89	B	1450	24.5	11.8	7.42	10.7	100.5%	0.8	121	5.0 U	6.4	5.0 U	15.8	380	404	436	0	39	2.00	4.48
RCA	02-May-89	A	1000	-	-	-	-	-	-	-	-	32.3	-	-	-	-	562	-	-	-	-
RCA	02-May-89	B	1202	-	14.2	7.29	9.3	92.1%	3.2	200	7.6	24.7	10.6	42.1	220	326	527	37	146	2.30	11.4
RCLS	02-May-89	A	1040	-	-	-	-	-	-	-	-	141	-	-	-	-	445	-	-	-	-
RCLS	02-May-89	B	1420	4.5	14.0	6.90	4.6	45.7%	1.9	242	119	159	123	45.4	150	535	534	22	41.5	3.18	16.4
RCMB	02-May-89	A	1020	-	-	-	-	-	-	-	-	214	-	-	-	-	700	-	-	-	-
RCMB	02-May-89	B	1350	-	14.0	7.27	7.8	77.0%	2.6	284	159	220	164	71.1	270	384	641	32	45	3.65	20.2
WTPDRAIN	02-May-89	A	950	-	-	-	-	-	2.1	-	291	333	283	1819	1440	3300	3540	3140	340	3.05	8.04
WTPEFF	02-May-89	A	-	-	-	-	-	-	-	-	-	4843	-	-	-	-	-	-	-	-	-
WTPEFF	02-May-89	B	830	-	-	-	-	-	-	-	-	5994	-	-	-	-	20000	-	-	-	-
WTPEFF	02-May-89	OM	830	-	-	-	-	-	14	-	4218	5550	-	11560	40	-	13070	TNTC	2380	20.15	46.1
WTPIN	02-May-89	A	-	-	-	-	-	-	-	-	-	6956	-	-	-	-	-	-	-	-	-
WTPIN	02-May-89	B	850	-	-	-	-	-	-	-	-	9324	-	-	-	-	41620	-	-	-	-
WTPIN	02-May-89	OM	850	-	-	-	-	-	48	-	4362	6684	4918	15497	120	19370	26490	-	-	24.60	125
BDLC	23-May-89	A	820	-	-	-	-	-	-	-	-	40.3	-	-	-	339	380	-	35	-	-
BDLC	23-May-89	B	950	0.3	14.3	6.17	7.7	76.8%	1.0	61	18.7	39.3	27.2	25.9	5 U	-	307	-	-	1.75	12.3
COV	23-May-89	A	925	-	-	-	-	-	-	-	-	18.3	-	-	-	-	308	16	11	-	-
COV	23-May-89	B	1320	17.6	16.2	7.09	11.3	117.6%	1.7	137	5.0 U	18.8	5.0 U	15.0 U	47	189	287	-	-	2.18	6.9
GINDDN	23-May-89	A	840	-	-	-	-	-	-	-	-	39.0	-	-	-	-	486	163	124	-	-
GINDDN	23-May-89	B	1035	-	11.4	6.65	9.5	88.2%	3.7	241	9.1	32.3	11.5	15.0 U	201	497	541	-	-	1.55	8
GINDUP	23-May-89	A	848	-	-	-	-	-	-	-	-	34.9	-	-	-	-	629	112	244	-	-
GINDUP	23-May-89	B	1145	-	12.7	6.95	10.2	98.1%	3.4	244	7.2	28.3	10.8	15.0 U	251	610	700	-	-	1.50	9.45
MM	23-May-89	A	852	0.0	-	-	-	-	-	-	-	172	-	-	-	-	1580	36	118	-	-
MM	23-May-89	B	1340	-	16.0	4.00	10.9	112.0%	1.3	128	28.9	52.8	28.2	31.2	5 U	1220	1440	-	-	2.10	40.2
PS	23-May-89	A	830	-	-	-	-	-	-	-	-	47.9	-	-	-	-	1106	0	0	-	-
PS	23-May-89	B	1010	0.2	16.5	6.39	1.2	12.5%	1.4	1670	20.8	47.5	19.7	1116	5 U	1151	1190	-	-	0.30 U	78.7
RAV	23-May-89	A	913	-	-	-	-	-	-	-	-	13.0	-	-	-	-	477	7	41	-	-
RAV	23-May-89	B	1230	14.9	10.8	6.49	11.3	104.3%	0.9	100	5.0 U	11.2	5.3	15.0 U	363	437	452	-	-	2.03	4.4
RCA	23-May-89	A	835	-	-	-	-	-	-	-	9.3	34.9	-	-	-	-	472	222	172	-	15.6
RCA	23-May-89	B	1130	5.5	12.1	6.71	9.2	87.2%	3.8	208	8.1	31.5	14.0	22.1	143	490	411	178	143	1.85	12.7
RCLS	23-May-89	A	910	-	-	-	-	-	-	-	-	129	-	-	-	-	436	28	135	-	-
RCLS	23-May-89	B	1255	5.5	13.2	6.51	9.1	88.6%	1.9	248	94.7	137	101	26.6	87	389	441	-	-	2.90	17.8
RCMB	23-May-89	A	857	-	-	-	-	-	-	-	158	212	-	-	-	-	594	93	108	-	21
RCMB	23-May-89	B	1355	6.5	13.0	6.58	7.3	71.0%	2.7	273	167	225	169	72.7	169	660	632	83	96	3.35	18.3
SCUA	23-May-89	A	1125	0.1	-	-	-	-	-	-	-	49.5	-	-	-	-	550	-	-	-	-
WTPDRAIN	23-May-89	A	1435	-	-	-	-	-	3.6	-	675	678	554	3260	1741	5398	9740	2900	400	4.40	4.68
WTPEFF	23-May-89	A	-	-	-	-	-	-	-	-	-	5495	-	-	-	-	21140	-	-	-	-
WTPEFF	23-May-89	B	1500	-	-	-	-	-	-	-	-	6105	-	-	-	-	17560	0	190	-	-

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
WTPEFF	23-May-89	OM	1500	-	-	-	-	-	16	-	5506	6080	6122	14428	38	16105	20820	-	-	23.05	51.7
WTPIN	23-May-89	A		-	-	-	-	-	-	-	-	6630	-	-	-	-	28350	-	-	-	-
WTPIN	23-May-89	B	1510	-	-	-	-	-	-	-	4827	8445	-	-	-	-	31090	-	-	-	-
WTPIN	23-May-89	OM	1510	-	-	-	-	-	57	-	4318	6443	4947	18101	108	21473	27090	-	-	27.95	92.9
BDLC	13-Jun-89	A	855	-	-	-	-	-	-	-	-	92.7	-	-	-	-	754	-	-	-	-
BDLC	13-Jun-89	B	1045	0.0	15.1	6.34	5.2	52.5%	2.2	81	59.2	94.0	72.5	86.9	30	639	701	610	95	1.55	-
COV	13-Jun-89	A	1010	-	-	-	-	-	-	-	-	17.5	-	-	-	-	222	-	-	-	-
COV	13-Jun-89	B	1515	6.6	22.0	7.19	9.4	109.9%	1.3	138	-	19.2	6.8	-	-	119	274	31	30	2.25	-
PS	13-Jun-89	A	900	-	-	-	-	-	-	-	-	37.2	-	-	-	-	1162	-	-	-	-
PS	13-Jun-89	B	1050	0.1	16.9	6.55	0.8	8.3%	2.3	1630	33.7	35.7	33.4	105	5 U	1315	867	0	0	0.30 U	-
RAV	13-Jun-89	A	955	-	-	-	-	-	-	-	-	15.1	-	-	-	-	364	-	-	-	-
RAV	13-Jun-89	B	1323	10.7	14.9	6.81	10.2	103.0%	1.9	112	-	12.0	9.1	-	-	306	397	3	5	2.15	1.59
RCA	13-Jun-89	A	902	-	-	-	-	-	2.6	-	19.1	34.0	23.9	48.8	55	512	575	1815	99	1.90	-
RCA	13-Jun-89	B	1130	-	14.7	6.76	8.2	82.1%	2.4	282	18.9	32.8	23.2	50.5	60	500	492	316	83	1.85	-
RCLS	13-Jun-89	A	940	-	-	-	-	-	-	-	-	175	-	-	-	-	358	-	-	-	-
RCLS	13-Jun-89	B	1340	1.4	17.7	6.61	4.3	45.7%	1.8	346	119	178	128	58.2	15	442	491	104	53	3.10	17.6
RCMB	13-Jun-89	A	920	-	-	-	-	-	2.6	-	199	269	198	70.7	230	592	725	85	108	4.20	16.8
RCMB	13-Jun-89	B	1415	1.5	17.4	6.73	4.9	52.1%	3.4	369	197	282	199	63.1	290	655	691	57	87	4.05	20.1
WTPEFF	13-Jun-89	A		-	-	-	-	-	-	-	-	6500	-	-	-	-	25326	-	-	-	-
WTPEFF	13-Jun-89	B	830	-	-	-	-	-	-	-	-	6051	-	-	-	-	24954	0	20	-	-
WTPEFF	13-Jun-89	OM	830	-	-	-	-	-	11	-	6224	6370	6748	20929	180	48228	14102	-	-	23.20	37
BDLC	11-Jul-89	A	815	-	-	-	-	-	-	-	-	32.6	-	-	-	-	493	-	-	-	-
BDLC	11-Jul-89	B	958	0.0	16.1	7.16	5.3	54.5%	1.0	72	18.2	35.4	25.8	29.1	6	433	115	14	20	1.70	-
WTPEFF	11-Jul-89	A		-	-	-	-	-	-	-	-	6474	-	-	-	-	24220	-	-	-	-
WTPEFF	11-Jul-89	B	830	-	-	-	-	-	-	-	-	7156	-	-	-	-	20880	0	20	-	-
WTPEFF	11-Jul-89	OM	830	-	-	-	-	-	7.1	231	6527	7076	7140	13611	5693	21400	21650	-	-	27.40	-
PS	11-Jul-89	A	845	-	-	-	-	-	-	-	-	34.1	-	-	-	-	1220	-	-	-	-
PS	11-Jul-89	B	1020	0.1	17.0	7.33	2.4	25.5%	1.3	1680	19.5	36.6	23.0	1050	5 U	1240	1210	0	0	0.30 U	-
RCA	11-Jul-89	A	847	-	-	-	-	-	3.2	-	12.0	32.0	18.5	48.7	29	465	298	110	202	2.15	-
RCA	11-Jul-89	B	1025	2.8	17.0	7.67	5.8	61.1%	3.1	143	13.0	33.0	20.3	48.0	19	464	481	266	198	1.65	-
RCMB	11-Jul-89	A	900	-	-	-	-	-	2.3	-	182	248	188	33.2	131	501	284	62	34	4.00	11.5
RCMB	11-Jul-89	B	1125	1.0	15.0	7.63	5.2	52.4%	2.3	346	176	249	184	28.7	124	549	503	58	33	4.15	10.9
RCLS	11-Jul-89	A	922	-	-	-	-	-	-	-	-	216	-	-	-	-	425	-	-	-	-
RCLS	11-Jul-89	B	1235	1.8	15.1	7.36	2.8	28.4%	2.7	342	141	232	151	47.2	5 U	480	483	59	128	3.65	12.3
RAV	11-Jul-89	A	925	-	-	-	-	-	-	-	-	12.5	-	-	-	-	404	-	-	-	-
RAV	11-Jul-89	B	1215	6.5	14.0	7.79	9.6	95.2%	0.8	111	8.4	13.0	8.2	15.0 U	309	382	388	8	13	2.10	2.05
COV	11-Jul-89	A	935	-	-	-	-	-	-	-	-	18.8	-	-	-	-	262	-	-	-	-
COV	11-Jul-89	B	1300	1.7	19.5	7.71	8.1	90.4%	1.0	142	5.0 U	17.8	5.4	15.0 U	5 U	182	272	66	277	2.45	-
BDLC	01-Aug-89	A	850	-	-	-	-	-	-	-	-	38.9	-	-	-	-	478	-	-	-	-
BDLC	01-Aug-89	B	1013	0.1	15.0	6.59	5.3	53.2%	2.4	70	21.6	42.9	-	40.2	11	-	545	27	201	1.35	-
WTPEFF	01-Aug-89	A		-	-	-	-	-	-	-	-	7223	-	-	-	-	13950	-	-	-	-
WTPEFF	01-Aug-89	B	846	-	-	-	-	-	-	-	-	7588	-	-	-	-	16390	-	-	-	-
WTPEFF	01-Aug-89	OM	846	-	-	-	-	-	-	365	6941	7889	-	15.0 U	11440	-	14790	5136	5100	29.90	-
PS	01-Aug-89	A	855	-	-	-	-	-	-	-	-	37.6	-	-	-	-	1136	-	-	-	-
PS	01-Aug-89	B	1028	0.1	16.8	6.89	1.6	17.0%	1.1	1600	24.4	36.9	-	1018	5 U	-	1085	0	1	0.30 U	-
RCA	01-Aug-89	A	905	-	-	-	-	-	4.9	-	19.6	42.5	-	42.4	24	-	385	244	131	1.85	-
RCA	01-Aug-89	B	1035	-	16.8	6.96	4.8	50.7%	-	134	16.3	44.2	-	39.6	25	-	563	190	155	1.90	-

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
RCMB	01-Aug-89	A	918	-	-	-	-	-	2.2	-	190	270	-	29.4	36	-	481	47	50	4.70	12.22
RCMB	01-Aug-89	B	1045	0.8	14.6	7.04	5.0	50.5%	2.1	340	183	273	-	30.3	46	-	463	100	64	4.65	13.3
RCLS	01-Aug-89	A	938	-	-	-	-	-	-	-	-	253	-	-	-	-	572	-	-	-	-
RCLS	01-Aug-89	B	1230	0.6	15.8	6.69	0.6	6.6%	2.6	346	166	264	-	38.2	5 U	-	520	69	428	4.10	25
RAV	01-Aug-89	A	933	-	-	-	-	-	-	-	-	15.5	-	-	-	-	379	-	-	-	-
RAV	01-Aug-89	B	1207	4.3	14.4	7.15	10.1	100.2%	0.7	101	14.1	12.2	-	15.0 U	253	-	262	10	13	2.45	2.85
COV	01-Aug-89	A	950	-	-	-	-	-	-	-	-	23.6	-	-	-	-	311	-	-	-	-
COV	01-Aug-89	B	1300	1.0	19.4	6.93	7.1	78.5%	0.9	136	7.8	25.3	-	18.7	5 U	-	284	-	-	2.45	-
BDLC	22-Aug-89	A	830	-	-	-	-	-	-	-	-	36.4	-	-	-	-	512	-	-	-	-
BDLC	22-Aug-89	B	1115	0.0	16.2	6.70	6.6	68.1%	1.1	68	-	38.6	-	-	-	-	495	-	-	-	-
WTPEFF	22-Aug-89	A	-	-	-	-	-	-	-	-	-	7921	-	-	-	-	16170	-	-	-	-
WTPEFF	22-Aug-89	B	840	-	-	-	-	-	-	-	-	7619	-	-	-	-	15950	80	572	-	-
WTPEFF	22-Aug-89	OM	840	-	-	-	-	-	17	-	7400	7781	-	98.6	13990	-	18000	-	-	-	-
PS	22-Aug-89	A	835	-	-	-	-	-	-	-	-	37.9	-	-	-	-	1253	-	-	-	-
PS	22-Aug-89	B	1140	0.1	16.9	6.74	0.9	9.7%	1.3	1580	-	38.3	-	-	-	-	1242	-	-	-	-
RCIPS	22-Aug-89	A	850	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCA	22-Aug-89	A	930	-	-	-	-	-	-	-	14.2	35.7	-	33.5	48	-	604	-	-	-	-
RCA	22-Aug-89	B	1145	-	17.0	6.56	4.4	46.1%	2.3	124	14.2	39.4	-	38.6	32	-	616	338	658	-	-
GINUP	22-Aug-89	A	950	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCMB	22-Aug-89	A	1000	-	-	-	-	-	-	-	272	392	-	15.0 U	15	-	652	-	-	-	23.8
RCMB	22-Aug-89	B	1215	1.3	14.9	6.94	4.7	46.9%	2.7	394	208	391	-	17.5	11	-	637	590	692	-	23.7
RCLS	22-Aug-89	A	1025	-	-	-	-	-	-	-	-	418	-	-	-	-	626	-	-	-	-
RCLS	22-Aug-89	B	1300	0.5	16.0	6.90	2.6	26.4%	2.6	401	263	390	-	18.2	7	-	600	649	691	-	23.5
RAV	22-Aug-89	A	1015	-	-	-	-	-	-	-	-	13.3	-	-	-	-	368	-	-	-	-
RAV	22-Aug-89	B	-	2.7	14.5	7.16	9.6	96.3%	0.5	99	10.9	10.1	-	15.0 U	241	-	373	24	27	-	3.58
COV	22-Aug-89	A	1040	-	-	-	-	-	-	-	-	21.8	-	-	-	-	290	-	-	-	-
COV	22-Aug-89	B	1330	0.4	19.3	6.92	7.1	78.5%	0.7	130	8.1	20.8	-	15.9	13	-	280	-	-	-	-
BDLC	12-Sep-89	A	930	-	-	-	-	-	-	-	-	33.6	-	-	-	-	484	-	-	-	-
BDLC	12-Sep-89	B	1110	0.0	12.2	6.76	6.3	59.7%	1.3	67	-	35.1	-	-	-	-	465	-	-	-	-
WTPEFF	12-Sep-89	A	-	-	-	-	-	-	-	-	-	7248	-	-	-	-	15440	-	-	-	-
WTPEFF	12-Sep-89	B	845	-	-	-	-	-	-	-	-	7123	-	-	-	-	16253	900	520	-	-
WTPEFF	12-Sep-89	OM	845	-	-	-	-	-	16	-	6240	7423	-	37.4	13090	-	17995	-	-	-	5.77
PS	12-Sep-89	A	940	-	-	-	-	-	-	-	-	46.6	-	-	-	-	1219	-	-	-	-
PS	12-Sep-89	B	1130	0.1	16.9	6.92	1.3	13.9%	1.1	1384	-	43.9	-	-	-	-	1268	-	-	-	-
RCIPS	12-Sep-89	A	912	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCA	12-Sep-89	A	950	-	-	-	-	-	-	-	12.3	38.4	-	15.0 U	16	-	456	-	-	-	-
RCA	12-Sep-89	B	1145	-	14.4	7.07	4.8	47.9%	2.7	137	11.6	39.9	-	15.0 U	11	-	453	106	146	-	7.1
GINUP	12-Sep-89	A	1000	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCMB	12-Sep-89	A	1010	-	-	-	-	-	-	-	110	259	-	17.5	10	-	479	-	-	-	26
RCMB	12-Sep-89	B	1155	0.3	11.9	7.12	5.1	48.3%	3.5	395	120	253	-	18.9	9	-	460	284	245	-	21.8
RCLS	12-Sep-89	A	1035	-	-	-	-	-	-	-	-	136	-	-	-	-	546	-	-	-	-
RCLS	12-Sep-89	B	1255	0.0	15.9	7.04	4.4	45.7%	1.7	384	153	138	-	15.0 U	5 U	-	538	11	163	-	25.5
RAV	12-Sep-89	A	1023	-	-	-	-	-	-	-	-	16.6	-	-	-	-	363	-	-	-	-
RAV	12-Sep-89	B	1240	2.1	12.5	7.29	10.2	97.7%	0.5	103	9.4	15.0	-	15.0 U	245	-	361	3	39	-	4.3
COV	12-Sep-89	A	1100	-	-	-	-	-	-	-	-	31.4	-	-	-	-	355	-	-	-	-
COV	12-Sep-89	B	1315	0.3	18.3	7.24	8.4	90.8%	0.8	137	9.3	25.9	-	15.3	5 U	-	319	-	-	-	-
BDLC	03-Oct-89	A	945	0.0	-	-	-	-	-	-	-	23.4	-	-	-	-	457	-	-	-	-

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
BDLC	03-Oct-89	B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WTPEFF	03-Oct-89	A		-	-	-	-	-	-	-	-	7498	-	-	-	-	16130	-	-	-	-
WTPEFF	03-Oct-89	B	920	-	-	-	-	-	-	-	-	10491	-	-	-	-	16130	12	16	-	-
WTPEFF	03-Oct-89	OM	920	-	-	-	-	-	14	-	7110	7549	-	58.8	15300	-	16980	-	-	31.70	28.5 D
PS	03-Oct-89	A		-	-	-	-	-	-	-	-	38.6	-	-	-	-	1204	-	-	-	-
PS	03-Oct-89	B	1110	0.1	16.3	6.73	0.9	9.0%	2.4	1680	-	37.1	-	-	-	-	1173	-	-	0.30 U	46.4 D
RCIPS	03-Oct-89	A	930	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCA	03-Oct-89	A	1000	-	-	-	-	-	-	-	13.9	34.0	-	24.4	15	-	424	-	-	-	-
RCA	03-Oct-89	B		-	11.2	6.86	5.6	51.6%	6.0	158	14.5	34.8	-	22.9	6	-	427	76	168	2.55	10.5
GINUP	03-Oct-89	A	1005	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCMB	03-Oct-89	A	1025	-	-	-	-	-	-	-	137	189	-	16.1	5 U	-	519	-	-	-	-
RCMB	03-Oct-89	B	1130	0.3	7.8	7.02	6.8	58.0%	1.8	435	136	196	-	15.0 U	5 U	-	519	127	446	11.10	16.3
RCLS	03-Oct-89	A	1040	0.0	-	-	-	-	-	-	-	299	-	-	-	-	652	-	-	-	-
RCLS	03-Oct-89	B	1215	0.0	11.0	6.57	2.6	23.9%	5.8	426	-	303	-	-	-	-	600	-	-	9.90	22.1 D
RAV	03-Oct-89	A	1035	-	-	-	-	-	-	-	-	8.8	-	-	-	-	356	-	-	-	-
RAV	03-Oct-89	B	1155	1.3	8.4	7.12	11.2	96.8%	1.3	106	9.9	8.0	-	15.0 U	257	-	345	2	45	2.70	2.64
COV	03-Oct-89	A	1050	-	-	-	-	-	-	-	-	29.7	-	-	-	-	337	-	-	-	-
COV	03-Oct-89	B	1235	0.0	13.9	6.58	6.4	63.1%	1.8	143	-	30.0	-	-	-	-	334	-	-	-	-
BDLC	24-Oct-89	A	935	-	-	-	-	-	-	-	-	26.0	-	-	-	-	448	-	-	-	-
BDLC	24-Oct-89	B	1100	0.0	9.2	6.74	-	-	0.9	94	-	24.7	-	-	-	-	474	-	-	-	-
WTPEFF	24-Oct-89	A	1325	-	-	-	-	-	-	-	-	7366	-	-	-	-	16175	-	-	-	-
PS	24-Oct-89	A	940	-	-	-	-	-	-	-	-	39.2	-	-	-	-	1183	-	-	-	-
PS	24-Oct-89	B	1110	0.1	16.8	7.13	-	-	1.2	1712	-	38.4	-	-	-	-	1175	-	-	0.30 U	61.2
RCIPS	24-Oct-89	A	1415	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCA	24-Oct-89	A	945	-	-	-	-	-	-	-	8.1	29.1	-	26.7	66	-	448	-	-	-	-
RCA	24-Oct-89	B	1120	-	10.2	7.04	-	-	1.6	160	6.5	24.7	-	25.6	51	-	487	36	95	2.45	11.9
GINUP	24-Oct-89	A	1140	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RCMB	24-Oct-89	A	950	-	-	-	-	-	-	-	149	194	-	15.0 U	5 U	-	609	-	-	-	20.7
RCMB	24-Oct-89	B	1145	1.1	8.7	7.19	-	-	1.4	393	148	197	-	15.0 U	5 U	-	585	101	38	11.75	27.5
RCLS	24-Oct-89	A	1105	-	-	-	-	-	-	-	-	198	-	-	-	-	604	-	-	-	-
RCLS	24-Oct-89	B	1240	0.0	9.5	7.17	-	-	0.9	358	165	210	-	-	-	-	610	42	184	11.35	25.3
RAV	24-Oct-89	A	1000	-	-	-	-	-	-	-	-	6.9	-	-	-	-	369	-	-	-	-
RAV	24-Oct-89	B	1210	1.3	9.3	7.21	-	-	0.4	109	7.6	6.3	-	15.0 U	265	-	384	16	7	2.58	5.05
COV	24-Oct-89	A	1020	-	-	-	-	-	-	-	-	35.4	-	-	-	-	379	-	-	-	-
COV	24-Oct-89	B	1440	0.0	-	7.00	-	-	1.6	-	-	35.6	-	-	-	-	384	-	-	-	-
BDLC	25-Oct-89	A	1135	-	10.4	6.50	7.5	68.0%	-	70	-	-	-	-	-	-	-	-	-	-	-
WTPEFF	25-Oct-89	B	1445	-	-	-	-	-	-	-	-	8261	-	-	-	-	16706	1776	356	-	-
WTPEFF	25-Oct-89	OM	1445	-	-	-	-	-	-	1750	7136	7982	-	584	13140	-	16940	-	-	29.55	26.6
PS	25-Oct-89	A	1145	-	16.5	6.78	1.0	10.7%	6.6	-	-	-	-	-	-	-	-	-	-	-	-
RCA	25-Oct-89	A	1150	-	11.2	6.77	6.5	60.5%	-	167	-	-	-	-	-	-	-	-	-	-	-
RCMB	25-Oct-89	A	1200	-	9.4	6.91	6.9	61.2%	-	410	-	-	-	-	-	-	-	-	-	-	-
RCLS	25-Oct-89	A	1220	-	9.9	6.88	4.3	38.5%	-	392	-	-	-	-	-	-	-	-	-	-	-
RAV	25-Oct-89	A	1210	-	9.6	6.97	10.5	93.6%	-	114	-	-	-	-	-	-	-	-	-	-	-
COV	25-Oct-89	A	1240	-	11.6	6.42	5.6	52.2%	-	149	-	-	-	-	-	-	-	-	-	-	-
BDLC	14-Nov-89	A	920	-	-	-	-	-	-	-	-	22.3	-	-	-	-	885	-	-	-	-
BDLC	14-Nov-89	B	1223	0.5	8.6	6.36	8.5	74.3%	0.7	74	-	20.5	-	-	-	-	823	-	-	-	-
WTPEFF	14-Nov-89	A		-	-	-	-	-	-	-	-	7355	-	-	-	-	17538	-	-	-	-

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
WTPEFF	14-Nov-89	B	940	-	-	-	-	-	-	-	-	6692	-	-	-	-	17883	300	876	-	-
WTPEFF	14-Nov-89	OM	940	-	-	-	-	-	8.9	-	6111	7255	-	13325	3010	-	17705	-	-	26.35	30.2
PS	14-Nov-89	A	-	-	-	-	-	-	-	-	-	33.4	-	-	-	-	1206	-	-	-	-
PS	14-Nov-89	B	1235	0.2	15.7	6.74	2.2	22.5%	1.3	1378	-	35.4	-	-	-	-	1238	-	-	0.30	U 44.5
RCIPS	14-Nov-89	A	955	5.4	-	-	-	-	-	-	-	40.2	-	-	-	-	1692	-	-	-	-
SCUA	14-Nov-89	A	1015	2.1	-	-	-	-	-	-	-	40.4	-	-	-	-	1568	-	-	-	-
GINDN	14-Nov-89	A	1025	3.2	-	-	-	-	-	-	-	34.4	-	-	-	-	1477	-	-	-	-
RCA	14-Nov-89	A	950	-	-	-	-	-	-	-	14.0	41.5	-	20.6	1019	-	1456	-	-	-	-
RCA	14-Nov-89	B	1245	-	8.3	6.44	8.0	69.3%	4.9	191	13.9	30.1	-	18.0	1000	-	1555	160	142	3.10	12.1
GINUP	14-Nov-89	A	1040	5.0	-	-	-	-	-	-	-	30.4	-	-	-	-	1711	-	-	-	-
MM	14-Nov-89	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MM	14-Nov-89	B	1055	0.2	-	-	-	-	-	-	-	37.4	-	-	-	-	2263	-	-	-	-
RCMB	14-Nov-89	A	1110	-	-	-	-	-	-	-	63.7	89.4	-	15.0	U 814	-	1445	-	-	-	15.2
RCMB	14-Nov-89	B	1255	12.9	7.9	6.64	7.8	67.0%	3.0	202	63.2	86.6	-	15.0	U 794	-	1325	144	82	4.50	15.4
RCLS	14-Nov-89	A	1140	-	-	-	-	-	-	-	-	129	-	-	-	-	1325	-	-	-	-
RCLS	14-Nov-89	B	1350	7.5	7.7	6.63	6.0	51.3%	3.7	196	89.8	124	-	-	716	-	1345	78	121	5.48	16.5
RAV	14-Nov-89	A	1120	-	-	-	-	-	-	-	-	9.0	-	-	-	-	444	-	-	-	-
RAV	14-Nov-89	B	1330	4.3	8.4	7.00	11.2	97.2%	0.6	105	5.4	5.9	-	15.0	U 337	-	409	3	21	2.40	3.54
COV	14-Nov-89	A	1145	-	-	-	-	-	-	-	-	22.1	-	-	-	-	445	-	-	-	-
COV	14-Nov-89	B	1417	0.0	8.2	6.67	7.3	62.9%	1.8	142	9.5	22.6	-	37.6	194	-	441	-	-	-	-
BDLC	12-Dec-89	A	840	-	-	-	-	-	-	-	-	28.7	-	-	-	-	930	-	-	-	-
BDLC	12-Dec-89	B	1045	1.1	4.3	6.08	7.7	60.2%	0.7	64	-	29.3	-	-	-	-	1237	-	-	-	-
WTPEFF	12-Dec-89	A	-	-	-	-	-	-	-	-	-	3613	-	-	-	-	12779	-	-	-	-
WTPEFF	12-Dec-89	B	950	-	-	-	-	-	-	-	-	3618	-	-	-	-	17609	278	794	-	-
WTPEFF	12-Dec-89	OM	950	-	-	-	-	-	8.3	-	3168	3481	-	9404	827	-	13007	-	-	15.85	20.8
PS	12-Dec-89	A	850	-	-	-	-	-	-	-	-	28.6	-	-	-	-	905	-	-	-	-
PS	12-Dec-89	B	1100	0.2	14.8	6.69	2.4	24.3%	0.6	1045	-	28.1	-	-	-	-	447	-	-	0.30	U 18.3
RCIPS	12-Dec-89	A	1000	5.3	-	-	-	-	-	-	-	26.7	-	-	-	-	1706	-	-	-	-
WTPIN	12-Dec-89	A	1010	-	-	-	-	-	-	-	-	4203	-	-	-	-	17788	-	-	16.85	-
SCUA	12-Dec-89	A	1115	1.3	-	-	-	-	-	-	-	20.6	-	-	-	-	1000	-	-	-	-
GINDN	12-Dec-89	A	1130	4.2	-	-	-	-	-	-	-	20.9	-	-	-	-	1164	-	-	-	-
RCA	12-Dec-89	A	855	-	-	-	-	-	-	-	12.6	27.1	-	30.1	959	-	1378	-	-	-	-
RCA	12-Dec-89	B	1105	-	3.6	6.56	9.6	73.4%	3.7	163	11.8	25.3	-	30.6	965	-	1261	20	18	2.70	10.4
GINUP	12-Dec-89	A	1145	6.1	-	-	-	-	-	-	-	19.1	-	-	-	-	1474	-	-	-	-
MM	12-Dec-89	B	1255	0.3	-	-	-	-	-	-	-	18.1	-	-	-	-	686	-	-	-	-
RCMB	12-Dec-89	A	900	-	-	-	-	-	-	-	69.0	87.8	-	35.6	861	-	1248	-	-	-	11.1
RCMB	12-Dec-89	B	1305	15.3	3.0	6.59	9.9	74.7%	3.1	168	67.4	86.1	-	40.6	867	-	1163	18	13	3.23	13.4
RCLS	12-Dec-89	A	920	-	-	-	-	-	-	-	-	77.6	-	-	-	-	1211	-	-	-	-
RCLS	12-Dec-89	B	1350	10.9	4.3	6.44	8.0	62.4%	3.1	167	59.6	76.6	-	-	-	-	1191	18	1	3.35	11.1
RAV	12-Dec-89	A	915	-	-	-	-	-	-	-	-	5.5	-	-	-	-	620	-	-	-	-
RAV	12-Dec-89	B	1335	25.9	5.8	6.74	11.5	93.9%	0.5	130	6.4	6.3	-	15.0	U 573	-	605	5	2	2.48	2.01
COV	12-Dec-89	A	935	-	-	-	-	-	-	-	-	30.3	-	-	-	-	360	-	-	-	-
COV	12-Dec-89	B	1420	37.3	7.4	6.81	9.7	82.3%	1.4	141	16.0	29.8	-	20.3	97	-	323	-	-	-	-
BDLC	09-Jan-90	A	1020	8.2	7.6	6.07	9.8	83.1%	-	40	-	46.5	-	-	-	-	1469	-	-	-	-
WTPEFF	09-Jan-90	A	-	-	-	-	-	-	-	-	-	3003	-	-	-	-	19239	-	-	-	-
WTPEFF	09-Jan-90	B	945	-	-	-	-	-	-	-	-	4617	-	-	-	-	16859	27000	13350	-	-
WTPEFF	09-Jan-90	OM	945	-	-	-	-	-	13	-	4410	4720	-	16004	23	-	17843	-	-	15.00	44.3
PS	09-Jan-90	A	1030	0.2	15.8	6.79	0.7	7.2%	1.2	1154	-	10.3	-	-	-	-	963	-	-	0.30	U 59.2

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
RCIPS	09-Jan-90	A	1045	30.4	-	-	-	-	-	-	-	68.5	-	-	-	-	1410	-	-	-	-
GINDN	09-Jan-90	A	1125	-	8.2	6.76	10.2	88.0%	-	75	-	-	-	-	-	-	-	-	-	-	-
RCA	09-Jan-90	A	-	-	-	-	-	-	-	-	18.2	120	-	17.2	982	-	1318	-	-	-	-
RCA	09-Jan-90	B	1435	-	-	-	-	-	38	81	13.9	109	-	15.0 U	1143	-	1523	485	TNTC	1.75	9.24
GINUP	09-Jan-90	A	1115	>100	-	-	-	-	-	-	-	64.6	-	-	-	-	1405	-	-	-	-
MM	09-Jan-90	A	1140	4.2	-	-	-	-	-	-	-	83.1	-	-	-	-	853	-	-	-	-
RCMB	09-Jan-90	A	1150	-	7.8	6.45	9.5	81.6%	-	75	23.5	30.6	-	15.0 U	798	-	1057	-	-	-	9.66
RCMB	09-Jan-90	B	1500	250	-	-	-	-	19	-	47.6	42.6	-	15.0 U	635	-	1126	473	875	1.40	10.7
RCLS	09-Jan-90	A	1250	80.5	7.5	6.53	9.8	83.2%	-	95	-	36.2	-	-	-	-	1154	-	-	-	-
RCLS	09-Jan-90	B	1530	-	-	-	-	-	4.8	-	-	106	-	-	-	-	1117	334	624	2.15	9.53
RAV	09-Jan-90	A	1215	41.5	8.5	6.68	10.5	91.7%	35	91	-	12.3	-	-	-	-	710	-	-	1.85	-
RAV	09-Jan-90	B	1520	-	-	-	-	-	58	-	11.9	39.9	-	15.0 U	599	-	731	42	86	1.98	6.1
COV	09-Jan-90	A	1345	-	6.7	6.77	9.7	80.6%	-	126	-	-	-	-	-	-	-	-	-	-	-
COV	09-Jan-90	B	1630	121	-	-	-	-	1.6	-	28.0	41.9	-	48.5	251	-	504	-	-	-	-
BDLC	06-Feb-90	A	845	1.9	4.1	6.22	9.9	76.9%	-	46	-	24.6	-	-	-	-	698	-	-	-	-
WTPEFF	06-Feb-90	A	-	-	-	-	-	-	-	-	-	3621	-	-	-	-	15183	-	-	-	-
WTPEFF	06-Feb-90	B	940	-	-	-	-	-	-	-	-	3742	-	-	-	-	14440	2500	6400	-	-
WTPEFF	06-Feb-90	OM	940	-	-	-	-	-	13	-	3382	3694	-	13187	32	-	14793	-	-	15.30	33.6
PS	06-Feb-90	A	900	0.2	15.8	6.62	1.1	11.7%	1.0	1300	-	30.2	-	-	-	-	1016	-	-	0.30 U	-
PS	06-Feb-90	B	1220	-	-	-	-	-	-	-	-	32.4	-	-	-	-	1091	-	-	-	51.8
RCIPS	06-Feb-90	A	1437	8.9	-	-	-	-	-	-	-	22.7	-	-	-	-	1408	-	-	-	-
SCUA	06-Feb-90	A	930	6.4	-	-	-	-	-	-	-	19.0	-	-	-	-	1125	-	-	-	-
GINDN	06-Feb-90	A	915	6.6	-	-	-	-	-	-	-	22.8	-	-	-	-	1309	-	-	-	-
RCA	06-Feb-90	A	910	-	-	-	-	-	-	-	10.9	25.3	-	15.0 U	934	-	1208	-	-	-	7.52
RCA	06-Feb-90	B	1225	-	4.0	6.36	11.7	90.7%	5.7	131	9.8	23.4	-	15.4	1029	-	1275	12	0	2.10	-
GINUP	06-Feb-90	A	1000	14.2	-	-	-	-	-	-	-	24.1	-	-	-	-	1246	-	-	-	-
MM	06-Feb-90	B	1030	0.8	-	-	-	-	-	-	-	12.9	-	-	-	-	699	-	-	-	-
RCMB	06-Feb-90	A	1045	-	-	-	-	-	-	-	57.1	68.5	-	22.6	912	-	1188	-	-	-	7.54
RCMB	06-Feb-90	B	1245	27.5	3.7	6.83	11.4	87.6%	3.9	131	49.6	64.7	-	27.3	900	-	1189	8	0	2.50	7.92
RCLS	06-Feb-90	A	1100	-	-	-	-	-	-	-	-	74.1	-	-	-	-	1163	-	-	-	-
RCLS	06-Feb-90	B	1330	20.1	4.2	6.66	10.1	79.1%	3.7	128	-	71.0	-	-	-	-	1146	56	12	2.40	10.1
RAV	06-Feb-90	A	1055	-	-	-	-	-	-	-	-	9.5	-	-	-	-	565	-	-	-	-
RAV	06-Feb-90	B	1300	36.9	6.1	6.82	11.9	97.3%	0.7	121	5.5	8.1	-	15.0 U	567	-	569	3	2	1.95	3.34
COV	06-Feb-90	A	1130	-	-	-	-	-	-	-	-	32.2	-	-	-	-	645	-	-	-	-
COV	06-Feb-90	B	1350	68.3	5.1	6.96	11.4	91.2%	1.5	122	22.4	34.1	-	15.0 U	509	-	650	-	-	-	-
BDLC	06-Mar-90	A	820	0.6	8.1	6.30	10.5	90.4%	-	51	-	31.9	-	-	-	-	1032	-	-	-	-
WTPEFF	06-Mar-90	A	-	-	-	-	-	-	-	-	-	4376	-	-	-	-	17188	-	-	-	-
WTPEFF	06-Mar-90	B	945	-	-	-	-	-	-	-	-	4449	-	-	-	-	16240	3080	1040	-	-
WTPEFF	06-Mar-90	OM	945	-	-	-	-	-	17	-	3934	3832	-	12580	75	-	16519	-	-	17.54	37.1
WTPDRAIN	06-Mar-90	A	-	0.0	-	-	-	-	-	-	-	200	-	-	-	-	2879	660	270	-	-
PS	06-Mar-90	A	825	-	-	-	-	-	-	-	-	60.5	-	-	-	-	1152	-	-	-	-
PS	06-Mar-90	B	950	0.2	16.5	6.55	1.1	11.0%	1.3	1490	-	55.2	-	-	-	-	1109	-	-	0.30 U	65.3
RCIPS	06-Mar-90	A	910	3.1	-	-	-	-	-	-	-	23.9	-	-	-	-	1144	-	-	-	-
SCUA	06-Mar-90	A	1005	0.6	-	-	-	-	-	-	-	47.3	-	-	-	-	763	-	-	-	-
GINDN	06-Mar-90	A	1010	3.1	-	-	-	-	-	-	-	26.1	-	-	-	-	749	-	-	-	-
RCA	06-Mar-90	A	830	-	-	-	-	-	-	-	10.1	34.9	-	15.0 U	602	-	842	-	-	-	-
RCA	06-Mar-90	B	1000	-	8.1	6.77	10.5	90.5%	3.4	187	9.5	31.3	-	15.0 U	612	-	841	12	3	2.10	9.6
GINUP	06-Mar-90	A	1025	3.2	-	-	-	-	-	-	-	21.3	-	-	-	-	942	-	-	-	-

STN	DATE	REPL	TIME	FLOW	TEMP	pH	DO	DOSAT	TURB	COND	SRP	TP	TSP	NH3N	NO23N	TSN	TPN	FC	FS	CL	TOC
MM	06-Mar-90	B	1035	0.1	-	-	-	-	-	-	-	24.8	-	-	-	-	-	-	-	-	-
RCMB	06-Mar-90	A	835	-	-	-	-	-	-	-	85.2	117	-	24.0	587	-	925	-	-	-	13
RCMB	06-Mar-90	B	1045	11.4	8.1	6.75	9.7	83.9%	3.1	187	84.8	90.4	-	31.9	605	-	892	29	6	3.00	10
RCLS	06-Mar-90	A	840	-	-	-	-	-	-	-	-	83.9	-	-	-	-	767	-	-	-	-
RCLS	06-Mar-90	B	1155	8.7	8.2	6.46	8.2	70.8%	2.6	185	-	85.0	-	15.0 U	520	-	510	12	6	3.05	10.5
RAV	06-Mar-90	A	845	-	-	-	-	-	-	-	-	10.6	-	-	-	-	536	-	-	-	-
RAV	06-Mar-90	B	1140	22.0	8.4	6.81	11.5	99.8%	0.7	109	6.3	7.7	-	15.0 U	487	-	522	0	1	2.00	2.68
COV	06-Mar-90	A	855	-	-	-	-	-	-	-	-	22.0	-	-	-	-	-	-	-	-	-
COV	06-Mar-90	B	1220	34.1	8.0	7.31	13.3	114.2%	1.1	111	8.7	21.7	-	15.0 U	414	-	-	-	-	-	-
BDLC	03-Apr-90	A	840	0.4	9.2	6.29	9.9	87.3%	-	54	-	31.0	-	-	-	-	698	-	-	-	-
WTPEFF	03-Apr-90	A	-	-	-	-	-	-	-	-	-	4881	-	-	-	-	16386	-	-	-	-
WTPEFF	03-Apr-90	B	950	-	-	-	-	-	-	-	-	5028	-	-	-	-	17617	20	30	-	-
WTPEFF	03-Apr-90	OM	950	-	-	-	-	-	5.3	-	4096	5253	-	13194	124	-	15387	-	-	18.45	29.7
PS	03-Apr-90	A	902	0.1	15.8	6.25	2.0	20.0%	1.1	1520	-	37.3	-	-	-	-	1167	-	-	0.30 U	-
RCIPS	03-Apr-90	A	923	2.0	-	-	-	-	-	-	-	29.6	-	-	-	-	769	-	-	-	-
WTPIN	03-Apr-90	A	945	-	-	-	-	-	-	-	-	7159	-	-	-	-	36216	-	-	23.75	-
GINDN	03-Apr-90	A	1215	-	-	-	-	-	-	-	-	22.3	-	-	-	-	470	-	-	-	-
RCA	03-Apr-90	A	930	-	-	-	-	-	-	-	10.0	26.2	-	30.0	400	-	684	-	-	-	-
RCA	03-Apr-90	B	1215	-	-	-	-	-	2.0	160	9.3	28.5	-	15.0 U	377	-	708	11	7	1.80	9.79
GINUP	03-Apr-90	A	1027	0.7	-	-	-	-	-	-	-	17.1	-	-	-	-	531	-	-	-	-
MM	03-Apr-90	B	1040	0.0	-	-	-	-	-	-	-	26.3	-	-	-	-	825	-	-	-	-
RCMB	03-Apr-90	A	1050	-	-	-	-	-	-	-	91.1	142	-	15.0 U	330	-	699	-	-	-	12.7
RCMB	03-Apr-90	B	1230	5.4	10.4	6.60	9.5	86.7%	2.6	200	93.4	5.0 U	-	15.0 U	345	-	708	26	7	2.88	13.8
RCLS	03-Apr-90	A	1108	-	-	-	-	-	-	-	-	91.6	-	-	-	-	552	-	-	-	-
RCLS	03-Apr-90	B	1315	4.8	10.8	6.68	8.4	76.9%	1.4	200	49.5	78.3	-	15.0 U	122	-	457	4	2	2.65	10.4
RAV	03-Apr-90	A	1130	-	-	-	-	-	-	-	-	5.9	-	-	-	-	489	-	-	-	-
RAV	03-Apr-90	B	1256	20.3	8.8	6.59	11.0	96.5%	0.5	105	7.2	5.4	-	15.0 U	442	-	485	0	0	1.73	3.57
COV	03-Apr-90	A	1147	-	-	-	-	-	-	-	-	19.1	-	-	-	-	478	-	-	-	-
COV	03-Apr-90	B	1345	24.8	12.8	7.24	12.3	118.2%	1.5	123	5.0 U	23.3	-	15.0 U	288	-	464	-	-	-	-

APPENDIX B

**Lake Sawyer
Phytoplankton**

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Lake Sawyer Phytoplankton Species List (1989-1990).

GROUP	Species	Authority
D	<i>Achnanthes exigua</i>	Grun.
D	<i>Achnanthes lanceolata</i>	(Breb.) Grun.
D	<i>Achnanthes linearis</i>	(W.Sm.) Grun.
D	<i>Achnanthes minutissima</i>	Kutz.
B	<i>Anabaena flos-aquae</i>	(Lyngb.) DeBreb.
B	<i>Anabaena planctonica</i>	Brunn.
B	<i>Anabaena</i> sp.	Bory
B	<i>Anacystis marina</i>	(Hansg.) Dr.&Daily
B	<i>Anacystis</i> sp.	Menegh.
G	<i>Ankistrodesmus falcatus</i>	(Corda) Ralfs
B	<i>Aphanizomenon flos-aquae</i>	(Linn.) Ralfs.
D	<i>Asterionella formosa</i>	Hass.
G	<i>Botryococcus braunii</i>	Kuetzing
F	<i>Ceratium hirundinella</i>	(O.F. Muell.)Dujard.
G	<i>Characium</i> sp.	A. Braun
G	<i>Chlamydomonas</i> sp.	Ehr.
K	<i>Chromulina</i> sp.	Cienkowski
B	<i>Chroococcus minimus</i>	(Keissl.) Lemm.
K	<i>Chrysochromulina</i> sp.	Lackey
K	<i>Chrysococcus rufescens</i>	Klebs.
G	<i>Closteriopsis longissima</i>	Lemm.
D	<i>Cocconeis placentula</i>	Ehr.
G	<i>Cosmarium</i> sp.	Corda
G	<i>Crucigenia quadrata</i>	Morren
Y	<i>Cryptomonas erosa</i>	Ehr.
Y	<i>Cryptomonas ovata</i>	Ehr.
Y	<i>Cryptomonas</i> sp.	
D	<i>Cyclotella atomus</i>	Hust.
D	<i>Cyclotella comta</i>	(Ehr.) Kutz.
D	<i>Cyclotella meneghiniana</i>	Kutz.
D	<i>Cyclotella stelligera</i>	Cl. u. Grun.
D	<i>Cymbella microcephala</i>	Grun.
D	<i>Cymbella minuta</i>	Hilse ex Rabh.
D	<i>Cymbella sinuata</i>	Greg.
D	<i>Diatoma tenue elongatum</i>	Lyngb.
K	<i>Dinobryon bavaricum</i>	Imhoff
K	<i>Dinobryon sertularia</i>	Ehr.
G	<i>Elakatothrix gelatinosa</i>	Wille
D	<i>Fragilaria construens</i>	(Ehr.) Grun.
D	<i>Fragilaria construens venter</i>	(Ehr.) Grun.
D	<i>Fragilaria crotonensis</i>	Kitton
D	<i>Fragilaria pinnata</i>	Ehr.
D	<i>Fragilaria vaucheriae</i>	(Kutz.) Peters.
F	<i>Glenodinium</i> sp.	(Ehr.) Stein
D	<i>Gomphonema angustatum</i>	(Kutz.) Rabh.
D	<i>Gomphonema</i> sp.	Ehr.
F	<i>Gymnodinium</i> sp.	(Stein) Kof. & Swezy
K	<i>Kephyrion</i> -like	
K	<i>Mallomonas</i> sp.	Perty
D	<i>Melosira ambigua</i>	(Grun.) O. Mull.
D	<i>Melosira distans</i>	(Ehr.) Kutz.
D	<i>Melosira granulata</i>	(Ehr.) Ralfs.

Lake Sawyer Phytoplankton Species List (1989-1990).

GROUP	Species	Authority
D	<i>Melosira italica</i>	(Ehr.) Kutz.
D	<i>Melosira varians</i>	C. A. Agardh.
B	<i>Microcystis aeruginosa</i>	Kuetzing
D	<i>Navicula cryptocephala</i>	Kutz.
D	<i>Navicula gregaria</i>	Donk.
D	<i>Navicula minima</i>	Grun.
D	<i>Navicula pupula</i>	Kutz.
D	<i>Navicula radiosa</i>	Kutz.
D	<i>Navicula</i> sp.	Bory
D	<i>Navicula tripunctata</i>	(O.Mull.) Bory
D	<i>Nitzschia acicularis</i>	W. Sm.
D	<i>Nitzschia amphibia</i>	Grun.
D	<i>Nitzschia frustulum</i>	(Kutz.) Grun.
D	<i>Nitzschia palea</i>	(Kutz.) W. Sm.
D	<i>Nitzschia</i> sp.	Hassall
K	<i>Ochromonas</i> sp.	Wystozki
G	<i>Oocystis lacustris</i>	Chodat
G	<i>Oocystis pusilla</i>	Hansg.
G	<i>Pediastrum duplex</i>	Meyen.
F	<i>Peridinium cinctum</i>	(Muell.) Ehr.
G	<i>Quadrigula closterioides</i>	(Bohlin) Printz
D	<i>Rhizosolenia eriensis</i>	H.L. Smith
Y	<i>Rhodomonas minuta</i>	Skuja
D	<i>Rhoicosphenia curvata</i>	(Kutz.)Grun. ex Rabh.
G	<i>Selenastrum minutum</i>	(Naeg.) Collins
G	<i>Sphaerocystis schroeteri</i>	Chodat.
D	<i>Stephanodiscus astraeta</i>	(Ehr.) Grun.
D	<i>Stephanodiscus astraeta minutula</i>	(Kutz.) Grun.
D	<i>Stephanodiscus hantzschii</i>	Grun.
D	<i>Synedra radians</i>	Kutz.
D	<i>Synedra rumpens</i>	Kutz.
D	<i>Synedra ulna</i>	(Nitz.) Ehr.
D	<i>Tabellaria fenestrata</i>	(Lyngb.) Kutz.
E	<i>Trachelomonas hispida</i>	(Perty) Stein
E	<i>Trachelomonas</i> sp.	Kutz.
E	<i>Trachelomonas volvocina</i>	Ehr.
K	Unident. chrysophyte	

Division Codes:

- B = Bluegreen algae
- D = Diatoms
- E = Euglenophytes
- F = Dinoflagellates
- G = Green algae
- K = Chrysophytes
- Y = Cryptophytes

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-02-27

TOTAL DENSITY (#/ml): 1724

TOTAL BIOVOLUME (cu.um/ml): 851833

TROPHIC STATE INDEX: 48.7

DIVERSITY INDEX: 2.85

SPECIES	DENSITY	PCT	BIOVOL	PCT
1 Rhodomonas minuta	822	47.7	16448	1.9
2 Achnanthes minutissima	199	11.5	9949	1.2
3 Chrysococcus rufescens	159	9.2	13530	1.6
4 Stephanodiscus hantzschii	106	6.2	12734	1.5
5 Cryptomonas erosa	80	4.6	41386	4.9
6 Stephanodiscus astraea	53	3.1	426699	50.1
7 Aphanizomenon flos-aquae	53	3.1	31835	3.7
8 Melosira ambigua	53	3.1	85942	10.1
9 Nitzschia frustulum	27	1.5	3184	0.4
10 Melosira italica	27	1.5	149944	17.6
11 Melosira granulata	27	1.5	29182	3.4
12 Navicula gregaria	27	1.5	4643	0.5
13 Synedra radians	13	0.8	4775	0.6
14 Dinobryon sertularia	13	0.8	3184	0.4
15 Achnanthes linearis	13	0.8	1751	0.2
16 Navicula sp.	13	0.8	1990	0.2
17 Fragilaria pinnata	13	0.8	796	0.1
18 Diatoma tenue elongatum	13	0.8	9551	1.1
19 Navicula radiosa	13	0.8	4311	0.5

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-02-27

TOTAL DENSITY (#/ml): 1478

TOTAL BIOVOLUME (cu.um/ml): 592541

TROPHIC STATE INDEX: 46.1

DIVERSITY INDEX: 2.02

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	952	64.4	19042	3.2
2	Chrysococcus rufescens	138	9.3	11713	2.0
3	Cryptomonas erosa	100	6.8	52116	8.8
4	Stephanodiscus hantzschii	75	5.1	9020	1.5
5	Melosira italica	75	5.1	271191	45.8
6	Asterionella formosa	25	1.7	44098	7.4
7	Achnanthes minutissima	25	1.7	1253	0.2
8	Cyclotella comta	25	1.7	56876	9.6
9	Melosira ambigua	13	0.8	14758	2.5
10	Fragilaria construens venter	13	0.8	601	0.1
11	Fragilaria vaucheria	13	0.8	3608	0.6
12	Aphanizomenon flos-aquae	13	0.8	7517	1.3
13	Stephanodiscus astraea	13	0.8	100748	17.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-03-20

TOTAL DENSITY (#/ml): 2819

TOTAL BIOVOLUME (cu.uM/ml): 1787398

DIVERSITY INDEX: 3.21

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	846	30.0	16913	0.9
2	Stephanodiscus astraesa minutula	677	24.0	246246	13.8
3	Stephanodiscus hantzschii	282	10.0	33825	1.9
4	Cryptomonas erosa	169	6.0	87945	4.9
5	Ochromonas sp.	141	5.0	11980	0.7
6	Melosira granulata	113	4.0	310063	17.3
7	Stephanodiscus astraesa	85	3.0	680052	38.0
8	Asterionella formosa	85	3.0	130226	7.3
9	Melosira ambigua	56	2.0	99615	5.6
10	Chromulina sp.	56	2.0	1128	0.1
11	Cyclotella comta	56	2.0	127971	7.2
12	Chrysococcus rufescens	56	2.0	4792	0.3
13	Chlamydomonas sp.	28	1.0	9161	0.5
14	Kephyrion-like	28	1.0	1973	0.1
15	Navicula gregaria	28	1.0	4933	0.3
16	Mallomonas sp.	28	1.0	10711	0.6
17	Dinobryon sertularia	28	1.0	3383	0.2
18	Achnanthes minutissima	28	1.0	1409	0.1
19	Gomphonema angustatum	28	1.0	5074	0.3

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-03-20

TOTAL DENSITY (#/ml): 3508

TOTAL BIOVOLUME (cu.um/ml): 2370456

DIVERSITY INDEX: 2.81

	SPECIES	DENSITY	PCT	BIOVOL	PCT
--	-----	-----	-----	-----	-----
1	Rhodomonas minuta	1470	41.9	29399	1.2
2	Stephanodiscus astraea minutula	802	22.9	280622	11.8
3	Cryptomonas erosa	267	7.6	138975	5.9
4	Stephanodiscus hantzschii	167	4.8	20044	0.8
5	Ochromonas sp.	167	4.8	14198	0.6
6	Stephanodiscus astraea	134	3.8	1074649	45.3
7	Melosira granulata	67	1.9	220489	9.3
8	Cyclotella comta	67	1.9	151670	6.4
9	Aphanizomenon flos-aquae	33	1.0	20044	0.8
10	Mallomonas sp.	33	1.0	12695	0.5
11	Melosira italica	33	1.0	251758	10.6
12	Unident. chrysophyte	33	1.0	3341	0.1
13	Chrysococcus rufescens	33	1.0	2840	0.1
14	Melosira ambigua	33	1.0	98385	4.2
15	Ankistrodesmus falcatus	33	1.0	835	0.0
16	Dinobryon sertularia	33	1.0	4009	0.2
17	Asterionella formosa	33	1.0	29399	1.2
18	Cyclotella meneghiniana	33	1.0	12695	0.5
19	Achnanthes linearis	33	1.0	4410	0.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-04-10

TOTAL DENSITY (#/ml): 1155

TOTAL BIOVOLUME (cu.uM/ml): 1347311

DIVERSITY INDEX: 3.73

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	313	27.1	6254	0.5
2	Cryptomonas erosa	120	10.4	62539	4.6
3	Melosira italica	120	10.4	566456	42.0
4	Stephanodiscus astraea minutula	84	7.3	29465	2.2
5	Cyclotella comta	72	6.3	163803	12.2
6	Asterionella formosa	72	6.3	31750	2.4
7	Ankistrodesmus falcatus	60	5.2	1804	0.1
8	Ochromonas sp.	48	4.2	4089	0.3
9	Stephanodiscus astraea	48	4.2	386874	28.7
10	Dinobryon sertularia	36	3.1	4330	0.3
11	Achnanthes minutissima	24	2.1	1203	0.1
12	Melosira distans	12	1.0	19050	1.4
13	Sphaerocystis schroeteri	12	1.0	3367	0.2
14	Melosira granulata	12	1.0	19844	1.5
15	Chromulina sp.	12	1.0	241	0.0
16	Synedra radians	12	1.0	4330	0.3
17	Cymbella microcephala	12	1.0	637	0.0
18	Nitzschia sp.	12	1.0	1443	0.1
19	Rhizosolenia eriensis	12	1.0	1143	0.1
20	Aphanizomenon flos-aquae	12	1.0	7216	0.5
21	Melosira ambigua	12	1.0	21251	1.6
22	Cyclotella meneghiniana	12	1.0	4570	0.3
23	Cymbella minuta	12	1.0	4450	0.3
24	Unident. chrysophyte	12	1.0	1203	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-04-10

TOTAL DENSITY (#/ml): 1283

TOTAL BIOVOLUME (cu.um/ml): 1648018

DIVERSITY INDEX: 3.66

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	381	29.7	7623	0.5
2	Melosira italica	165	12.9	752988	45.7
3	Cryptomonas erosa	102	7.9	52850	3.2
4	Dinobryon sertularia	76	5.9	10702	0.6
5	Stephanodiscus astraes minutula	76	5.9	35483	2.2
6	Ankistrodesmus falcatus	76	5.9	1906	0.1
7	Cyclotella comta	64	5.0	144193	8.7
8	Stephanodiscus astraes	64	5.0	510837	31.0
9	Asterionella formosa	51	4.0	39129	2.4
10	Synedra rumpens	25	2.0	3557	0.2
11	Aphanizomenon flos-aquae	25	2.0	22868	1.4
12	Achnanthes minutissima	25	2.0	1270	0.1
13	Melosira varians	13	1.0	8258	0.5
14	Closteriopsis longissima	13	1.0	4523	0.3
15	Sphaerocystis schroeteri	13	1.0	1779	0.1
16	Nitzschia palea	13	1.0	4574	0.3
17	Stephanodiscus hantzschii	13	1.0	1525	0.1
18	Synedra ulna	13	1.0	25281	1.5
19	Navicula cryptocephala	13	1.0	2350	0.1
20	Unident. chrysophyte	13	1.0	1270	0.1
21	Nitzschia acicularis	13	1.0	3557	0.2
22	Gomphonema angustatum	13	1.0	2287	0.1
23	Cryptomonas sp.	13	1.0	5082	0.3
24	Chlamydomonas-like	13	1.0	4129	0.3

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-05-01

TOTAL DENSITY (#/ml): 1480

TOTAL BIOVOLUME (cu.µm/ml): 1315525

DIVERSITY INDEX: 2.75

	SPECIES	DENSITY	PCT	BIOVOL	PCT
--	-----	-----	-----	-----	-----
1	Rhodomonas minuta	437	29.5	8738	0.7
2	Dinobryon sertularia	352	23.8	59194	4.5
3	Cryptomonas erosa	211	14.3	109931	8.4
4	Cyclotella comta	169	11.4	383914	29.2
5	Ankistrodesmus falcatus	169	11.4	4228	0.3
6	Aphanizomenon flos-aquae	28	1.9	16913	1.3
7	Synedra ulna	14	1.0	28047	2.1
8	Anabaena flos-aquae	14	1.0	28188	2.1
9	Fragilaria crotonensis	14	1.0	426195	32.4
10	Ochromonas sp.	14	1.0	1198	0.1
11	Tabellaria fenestrata	14	1.0	135300	10.3
12	Melosira italica	14	1.0	106211	8.1
13	Stephanodiscus astraea minutula	14	1.0	4933	0.4
14	Achnanthes lanceolata	14	1.0	2537	0.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-05-01

TOTAL DENSITY (#/ml): 1938

TOTAL BIOVOLUME (cu.um/ml): 721980

DIVERSITY INDEX: 2.51

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	787	40.6	15737	2.2
2	Dinobryon sertularia	403	20.8	59970	8.3
3	Cryptomonas erosa	326	16.8	169653	23.5
4	Ankistrodesmus falcatus	134	6.9	3359	0.5
5	Cyclotella comta	115	5.9	261388	36.2
6	Sphaerocystis schroeteri	38	2.0	13434	1.9
7	Fragilaria crotonensis	19	1.0	112846	15.6
8	Synedra rumpens	19	1.0	10747	1.5
9	Aphanizomenon flos-aquae	19	1.0	11515	1.6
10	Cryptomonas sp.	19	1.0	7677	1.1
11	Synedra radians	19	1.0	6909	1.0
12	Trachelomonas hispida	19	1.0	40302	5.6
13	Asterionella formosa	19	1.0	8444	1.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-05-22

TOTAL DENSITY (#/ml): 1837

TOTAL BIOVOLUME (cu.um/ml): 5769999

TROPHIC STATE INDEX: 62.5

DIVERSITY INDEX: 1.91

	SPECIES	DENSITY	PCT	BIOVOL	PCT
--	-----	-----	-----	-----	-----
1	Cyclotella comta	984	53.6	2233680	38.7
2	Rhodomonas minuta	394	21.4	7872	0.1
3	Fragilaria crotonensis	295	16.1	3402121	59.0
4	Asterionella formosa	49	2.7	57692	1.0
5	Anabaena flos-aquae	33	1.8	32800	0.6
6	Cryptomonas erosa	33	1.8	17056	0.3
7	Dinobryon sertularia	16	0.9	5904	0.1
8	Cocconeis placentula	16	0.9	7544	0.1
9	Chlamydomonas sp.	16	0.9	5330	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-05-22

TOTAL DENSITY (#/ml): 2021

TOTAL BIOVOLUME (cu.um/ml): 5587639

TROPHIC STATE INDEX: 62.3

DIVERSITY INDEX: 1.76

	SPECIES	DENSITY	PCT	BIOVOL	PCT
--	-----	-----	-----	-----	-----
1	Cyclotella comta	1269	62.8	2881723	51.6
2	Fragilaria crotonensis	284	14.0	2540333	45.5
3	Cryptomonas erosa	200	9.9	104231	1.9
4	Rhodomonas minuta	167	8.3	3341	0.1
5	Oocystis lacustris	33	1.7	30868	0.6
6	Asterionella formosa	33	1.7	22049	0.4
7	Ankistrodesmus falcatus	17	0.8	418	0.0
8	Sphaerocystis schroeteri	17	0.8	4677	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-06-12

TOTAL DENSITY (#/ml): 1663

TOTAL BIOVOLUME (cu.um/ml): 2365073

TROPHIC STATE INDEX: 56.1

DIVERSITY INDEX: 1.77

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Cyclotella comta	930	55.9	2111526	89.3
2	Rhodomonas minuta	507	30.5	10148	0.4
3	Anabaena flos-aquae	56	3.4	56375	2.4
4	Cryptomonas erosa	42	2.5	21986	0.9
5	Ankistrodesmus falcatus	28	1.7	705	0.0
6	Sphaerocystis schroeteri	28	1.7	7893	0.3
7	Aphanizomenon flos-aquae	28	1.7	16913	0.7
8	Navicula minima	14	0.8	620	0.0
9	Fragilaria crotonensis	14	0.8	130226	5.5
10	Oocystis lacustris	14	0.8	8682	0.4

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-06-12

TOTAL DENSITY (#/ml): 1862

TOTAL BIOVOLUME (cu.um/ml): 2263569

TROPHIC STATE INDEX: 55.7

DIVERSITY INDEX: 2.03

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Cyclotella comta	902	48.4	2047540	90.5
2	Rhodomonas minuta	582	31.3	11639	0.5
3	Aphanizomenon flos-aquae	116	6.3	69832	3.1
4	Cryptomonas erosa	116	6.3	60521	2.7
5	Ankistrodesmus falcatus	44	2.3	1091	0.0
6	Asterionella formosa	29	1.6	19204	0.8
7	Sphaerocystis schroeteri	15	0.8	8147	0.4
8	Chroococcus minimus	15	0.8	204	0.0
9	Anabaena sp.	15	0.8	29097	1.3
10	Anabaena flos-aquae	15	0.8	14548	0.6
11	Nitzschia sp.	15	0.8	1746	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 3

SAMPLE DATE: 89-07-10

TOTAL DENSITY (#/ml): 1135

TOTAL BIOVOLUME (cu.um/ml): 1172299

TROPHIC STATE INDEX: 51

DIVERSITY INDEX: 3.07

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Cyclotella comta	398	35.0	902679	77.0
2	Rhodomonas minuta	204	17.9	4074	0.3
3	Cryptomonas erosa	155	13.7	80695	6.9
4	Ankistrodesmus falcatus	58	5.1	1455	0.1
5	Aphanizomenon flos-aquae	58	5.1	52374	4.5
6	Chroococcus minimus	48	4.3	2716	0.2
7	Anacystis marina	48	4.3	14548	1.2
8	Chrysochromulina sp.	39	3.4	776	0.1
9	Sphaerocystis Schroeteri	29	2.6	8147	0.7
10	Asterionella formosa	19	1.7	17070	1.5
11	Pseudopedinella sp.	10	0.9	1455	0.1
12	Chlamydomonas sp.	10	0.9	3152	0.3
13	Oocystis pusilla	10	0.9	2095	0.2
14	Quadrigula closterioides	10	0.9	1862	0.2
15	Dinobryon sertularia	10	0.9	1164	0.1
16	Unidentified flagellate	10	0.9	194	0.0
17	Anabaena planctonica	10	0.9	48747	4.2
18	Anabaena flos-aquae	10	0.9	29097	2.5

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 4

SAMPLE DATE: 89-07-10

TOTAL DENSITY (#/ml): 1049

TOTAL BIOVOLUME (cu.um/ml): 991077

TROPHIC STATE INDEX: 49.8

DIVERSITY INDEX: 2.90

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Cyclotella comta	350	33.3	793944	80.1
2	Rhodomonas minuta	276	26.3	5522	0.6
3	Ankistrodesmus falcatus	92	8.8	2301	0.2
4	Aphanizomenon flos-aquae	74	7.0	55224	5.6
5	Cryptomonas erosa	74	7.0	38289	3.9
6	Anacystis marina	37	3.5	11045	1.1
7	Chroococcus minimus	37	3.5	2577	0.3
8	Chlamydomonas sp.	18	1.8	5983	0.6
9	Sphaerocystis schroeteri	18	1.8	5154	0.5
10	Cosmarium sp.	9	0.9	1933	0.2
11	Gymnodinium sp.	9	0.9	24851	2.5
12	Cryptomonas ovata	9	0.9	15895	1.6
13	Ochromonas sp.	9	0.9	782	0.1
14	Chrysochromulina sp.	9	0.9	184	0.0
15	Asterionella formosa	9	0.9	16199	1.6
16	Oocystis pusilla	9	0.9	1988	0.2
17	Anabaena flos-aquae	9	0.9	9204	0.9

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-07-31

TOTAL DENSITY (#/ml): 1273

TOTAL BIOVOLUME (cu.um/ml): 1079295

TROPHIC STATE INDEX: 50.4

DIVERSITY INDEX: 3.10

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Cyclotella comta	281	22.0	637012	59.0
2	Ochromonas sp.	271	21.3	23001	2.1
3	Anacystis marina	231	18.1	69153	6.4
4	Rhodomonas minuta	130	10.2	2606	0.2
5	Chroococcus minimus	130	10.2	7862	0.7
6	Ankistrodesmus falcatus	60	4.7	1759	0.2
7	Chrysochromulina sp.	40	3.1	802	0.1
8	Cryptomonas erosa	30	2.4	15635	1.4
9	Anabaena planctonica	20	1.6	201487	18.7
10	Oocystis pusilla	10	0.8	1082	0.1
11	Dinobryon sertularia	10	0.8	1203	0.1
12	Chlamydomonas sp.	10	0.8	3257	0.3
13	Nitzschia sp.	10	0.8	1203	0.1
14	Asterionella formosa	10	0.8	2205	0.2
15	Achnanthes lanceolata	10	0.8	1804	0.2
16	Ceratium hirundinella	10	0.8	98000	9.1
17	Navicula tripunctata	10	0.8	11225	1.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-07-31

TOTAL DENSITY (#/ml): 946

TOTAL BIOVOLUME (cu.um/ml): 659054

TROPHIC STATE INDEX: 46.8

DIVERSITY INDEX: 3.61

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	177	18.7	3537	0.5
2	Cyclotella comta	141	15.0	321183	48.7
3	Ankistrodesmus falcatus	115	12.1	2874	0.4
4	Anacystis marina	88	9.3	26529	4.0
5	Chrysochromulina sp.	80	8.4	1592	0.2
6	Cryptomonas erosa	71	7.5	36787	5.6
7	Quadrigula closterioides	62	6.5	4888	0.7
8	Ochromonas sp.	53	5.6	4510	0.7
9	Aphanizomenon flos-aquae	27	2.8	15918	2.4
10	Chroococcus minimus	27	2.8	1486	0.2
11	Oocystis pusilla	18	1.9	5730	0.9
12	Chromulina sp.	18	1.9	354	0.1
13	Dinobryon sertularia	18	1.9	4245	0.6
14	Anabaena planctonica	9	0.9	44446	6.7
15	Tabellaria fenestrata	9	0.9	148565	22.5
16	Anabaena flos-aquae	9	0.9	26529	4.0
17	Melosira varians	9	0.9	5748	0.9
18	Synedra rumpens	9	1.0	1260	0.2
19	Chlamydomonas sp.	9	0.9	2874	0.4

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 3

SAMPLE DATE: 89-08-21

TOTAL DENSITY (#/ml): 1582

TOTAL BIOVOLUME (cu.uM/ml): 748451

TROPHIC STATE INDEX: 47.8

DIVERSITY INDEX: 2.71

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Ochromonas sp.	641	40.5	54447	7.3
2	Rhodomonas minuta	288	18.2	5752	0.8
3	Cyclotella comta	209	13.2	474792	63.4
4	Anacystis marina	170	10.7	50983	6.8
5	Chrysochromulina sp.	65	4.1	1307	0.2
6	Cryptomonas erosa	52	3.3	27191	3.6
7	Ankistrodesmus falcatus	26	1.7	654	0.1
8	Chroococcus minimus	26	1.7	1464	0.2
9	Chlamydomonas sp.	13	0.8	4249	0.6
10	Chromulina sp.	13	0.8	261	0.0
11	Fragilaria crotonensis	13	0.8	87847	11.7
12	Aphanizomenon flos-aquae	13	0.8	7843	1.0
13	Sphaerocystis schroeteri	13	0.8	5490	0.7
14	Asterionella formosa	13	0.8	23008	3.1
15	Quadrigula closterioides	13	0.8	2510	0.3
16	Achnanthes minutissima	13	0.8	654	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 4

SAMPLE DATE: 89-08-21

TOTAL DENSITY (#/ml): 1068

TOTAL BIOVOLUME (cu.um/ml): 1643247

TROPHIC STATE INDEX: 53.4

DIVERSITY INDEX: 3.48

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Anacystis marina	290	27.2	87090	5.3
2	Cyclotella comta	187	17.5	423629	25.8
3	Ochromonas sp.	124	11.7	10575	0.6
4	Rhodomonas minuta	93	8.7	1866	0.1
5	Chrysochromulina sp.	52	4.9	1037	0.1
6	Ankistrodesmus falcatus	41	3.9	1296	0.1
7	Anabaena planctonica	41	3.9	729521	44.4
8	Mallomonas sp.	41	3.9	15759	1.0
9	Cryptomonas erosa	31	2.9	16174	1.0
10	Anabaena sp.	31	2.9	31103	1.9
11	Sphaerocystis schroeteri	21	1.9	2903	0.2
12	Tabellaria fenestrata	21	1.9	199062	12.1
13	Achnanthes minutissima	10	1.0	518	0.0
14	Oocystis pusilla	10	1.0	1120	0.1
15	Microcystis aeruginosa	10	1.0	1037	0.1
16	Aphanizomenon flos-aquae	10	1.0	6221	0.4
17	Fragilaria construens venter	10	1.0	1991	0.1
18	Fragilaria crotonensis	10	1.0	69672	4.2
19	Anabaena flos-aquae	10	1.0	41471	2.5
20	Unidentified flagellate	10	1.0	207	0.0
21	Quadrigula closterioides	10	1.0	995	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 3

SAMPLE DATE: 89-09-11

TOTAL DENSITY (#/ml): 445

TOTAL BIOVOLUME (cu.um/ml): 354355

TROPHIC STATE INDEX: 42.4

DIVERSITY INDEX: 3.92

SPECIES	DENSITY	PCT	BIOVOL	PCT
1 Cyclotella comta	75	17.0	171380	48.4
2 Rhodomonas minuta	48	10.7	954	0.3
3 Chrysochromulina sp.	44	9.8	874	0.2
4 Ochromonas sp.	36	8.0	3040	0.9
5 Aphanizomenon flos-aquae	36	8.0	21457	6.1
6 Ankistrodesmus falcatus	32	7.1	795	0.2
7 Pseudopedinella sp.	28	6.2	4172	1.2
8 Navicula minima	24	5.4	1049	0.3
9 Anabaena planctonica	20	4.5	119827	33.8
10 Anacystis marina	16	3.6	4768	1.3
11 Dinobryon sertularia	16	3.6	6199	1.7
12 Cryptomonas erosa	12	2.7	6199	1.7
13 Mallomonas sp.	12	2.7	4530	1.3
14 Unidentified flagellate	12	2.7	238	0.1
15 Chromulina sp.	8	1.8	159	0.0
16 Nitzschia amphibia	8	1.8	763	0.2
17 Oocystis pusilla	4	0.9	858	0.2
18 Selenastrum minutum	4	0.9	238	0.1
19 Cryptomonas sp.	4	0.9	1589	0.4
20 Chlamydomonas sp.	4	0.9	1291	0.4
21 Anabaena flos-aquae	4	0.9	3974	1.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 4

SAMPLE DATE: 89-09-11

TOTAL DENSITY (#/ml): 335

TOTAL BIOVOLUME (cu.um/ml): 343961

TROPHIC STATE INDEX: 42.2

DIVERSITY INDEX: 4.18

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Cyclotella comta	54	16.0	122134	35.5
2	Rhodomonas minuta	28	8.5	570	0.2
3	Ankistrodesmus falcatus	28	8.5	790	0.2
4	Anabaena planctonica	22	6.6	143639	41.8
5	Anacystis marina	22	6.6	6646	1.9
6	Unidentified flagellate	19	5.7	380	0.1
7	Aphanizomenon flos-aquae	19	5.7	13331	3.9
8	Ochromonas sp.	16	4.7	3497	1.0
9	Chrysochromulina sp.	16	4.7	316	0.1
10	Anabaena flos-aquae	16	4.7	25319	7.4
11	Dinobryon sertularia	16	4.7	6456	1.9
12	Chlamydomonas sp.	13	3.8	4114	1.2
13	Pseudopedinella sp.	13	3.8	1899	0.6
14	Achnanthes minutissima	9	2.8	475	0.1
15	Cocconeis placentula	6	1.9	2912	0.8
16	Mallomonas sp.	6	1.9	2405	0.7
17	Cryptomonas erosa	6	1.9	3292	1.0
18	Synedra radians	3	0.9	1139	0.3
19	Nitzschia sp.	3	0.9	380	0.1
20	Asterionella formosa	3	0.9	2785	0.8
21	Nitzschia amphibia	3	0.9	304	0.1
22	Chromulina sp.	3	0.9	63	0.0
23	Dinobryon bavaricum	3	0.9	760	0.2
24	Chroococcus minimus	3	0.9	89	0.0
25	Elakatothrix gelatinosa	3	0.9	266	0.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 3

SAMPLE DATE: 89-10-02

TOTAL DENSITY (#/ml): 759

TOTAL BIOVOLUME (cu.uM/ml): 248294

TROPHIC STATE INDEX: 39.8

DIVERSITY INDEX: 3.10

SPECIES	DENSITY	PCT	BIOVOL	PCT
1 Rhodomonas minuta	261	34.4	5225	2.1
2 Ankistrodesmus falcatus	87	11.5	2177	0.9
3 Aphanizomenon flos-aquae	81	10.7	63563	25.6
4 Asterionella formosa	81	10.7	105324	42.4
5 Ochromonas sp.	68	9.0	5816	2.3
6 Unidentified flagellate	50	6.6	995	0.4
7 Navicula minima	25	3.3	1095	0.4
8 Cryptomonas erosa	25	3.3	12939	5.2
9 Mallomonas sp.	25	3.3	9455	3.8
10 Cryptomonas sp.	19	2.5	7465	3.0
11 Pseudopedinella sp.	6	0.8	933	0.4
12 Glenodinium sp.	6	0.8	18973	7.6
13 Dinobryon sertularia	6	0.8	746	0.3
14 Elakatothrix gelatinosa	6	0.8	523	0.2
15 Unident. chrysophyte	6	0.8	622	0.3
16 Anabaena flos-aquae	6	0.8	12441	5.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 4

SAMPLE DATE: 89-10-02

TOTAL DENSITY (#/ml): 714

TOTAL BIOVOLUME (cu.um/ml): 401356

TROPHIC STATE INDEX: 43.3

DIVERSITY INDEX: 2.83

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	377	52.8	7536	1.9
2	Ankistrodesmus falcatus	63	8.8	1570	0.4
3	Ochromonas sp.	57	8.0	4853	1.2
4	Asterionella formosa	29	4.0	35167	8.8
5	Chrysochromulina sp.	23	3.2	457	0.1
6	Cryptomonas erosa	23	3.2	11874	3.0
7	Mallomonas sp.	23	3.2	8677	2.2
8	Aphanizomenon flos-aquae	17	2.4	13667	3.4
9	Unidentified flagellate	11	1.6	228	0.1
10	Fragilaria crotonensis	11	1.6	292522	72.9
11	Achnanthes lanceolata	11	1.6	2055	0.5
12	Chromulina sp.	6	0.8	114	0.0
13	Dinobryon sertularia	6	0.8	2055	0.5
14	Gomphonema sp.	6	0.8	1142	0.3
15	Unident. chrysophyte	6	0.8	571	0.1
16	Navicula minima	6	0.8	251	0.1
17	Pseudopedinella sp.	6	0.8	856	0.2
18	Cyclotella comta	6	0.8	12959	3.2
19	Chlamydomonas sp.	6	0.8	1855	0.5
20	Pediastrum duplex	6	0.8	1165	0.3
21	Rhoicosphenia curvata	6	0.8	668	0.2
22	Cyclotella stelligera	6	0.8	314	0.1
23	Sphaerocystis schroeteri	6	0.8	799	0.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Saywer, Sta 3

SAMPLE DATE: 89-10-23

TOTAL DENSITY (#/ml): 805

TOTAL BIOVOLUME (cu.um/ml): 589886

TROPHIC STATE INDEX: 46

DIVERSITY INDEX: 2.51

	SPECIES	DENSITY	PCT	BIOVOL	PCT
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1	Rhodomonas minuta	438	54.4	8762	1.5
2	Cryptomonas erosa	90	11.2	46904	8.0
3	Mallomonas sp.	64	8.0	24483	4.2
4	Ankistrodesmus falcatus	58	7.2	1450	0.2
5	Melosira granulata	26	3.2	77959	13.2
6	Aphanizomenon flos-aquae	19	2.4	11597	2.0
7	Fragilaria crotonensis	19	2.4	346314	58.7
8	Stephanodiscus astraea minutula	13	1.6	4510	0.8
9	Chrysochromulina sp.	13	1.6	258	0.0
10	Chlamydomonas sp.	13	1.6	4188	0.7
11	Asterionella formosa	13	1.6	22679	3.8
12	Dinobryon sertularia	13	1.6	2319	0.4
13	Melosira ambigua	6	0.8	18974	3.2
14	Trachelomonas volvocina	6	0.8	12145	2.1
15	Synedra rumpens	6	0.8	902	0.2
16	Anabaena flos-aquae	6	0.8	6443	1.1

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-10-23

TOTAL DENSITY (#/ml): 741

TOTAL BIOVOLUME (cu.um/ml): 599348

TROPHIC STATE INDEX: 46.2

DIVERSITY INDEX: 2.82

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	354	47.8	7087	1.2
2	Aphanizomenon flos-aquae	71	9.6	50177	8.4
3	Cryptomonas erosa	64	8.7	33503	5.6
4	Ankistrodesmus falcatus	58	7.8	1450	0.2
5	Chrysochromulina sp.	32	4.3	644	0.1
6	Mallomonas sp.	32	4.3	12241	2.0
7	Anabaena flos-aquae	26	3.5	51543	8.6
8	Fragilaria crotonensis	19	2.6	319362	53.3
9	Dinobryon sertularia	19	2.6	3085	0.5
10	Chlamydomonas sp.	13	1.7	4188	0.7
11	Asterionella formosa	13	1.7	12757	2.1
12	Tabellaria fenestrata	6	0.9	77314	12.9
13	Stephanodiscus astraea minutula	6	0.9	2255	0.4
14	Ochromonas sp.	6	0.9	548	0.1
15	Melosira granulata	6	0.9	21261	3.5
16	Navicula sp.	6	0.9	966	0.2
17	Pseudopedinella sp.	6	0.9	966	0.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-11-13

TOTAL DENSITY (#/ml): 717

TOTAL BIOVOLUME (cu.um/ml): 1405946

TROPHIC STATE INDEX: 52.3

DIVERSITY INDEX: 2.97

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Asterionella formosa	260	36.3	297660	21.2
2	Rhodomonas minuta	139	19.4	2775	0.2
3	Tabellaria fenestrata	93	12.9	803751	57.2
4	Ankistrodesmus falcatus	52	7.3	1301	0.1
5	Mallomonas sp.	40	5.6	15380	1.1
6	Cryptomonas erosa	35	4.8	18040	1.3
7	Aphanizomenon flos-aquae	17	2.4	10408	0.7
8	Fragilaria crotonensis	12	1.6	131137	9.3
9	Stephanodiscus astraea	12	1.6	92999	6.6
10	Crucigenia quadrata	6	0.8	491	0.0
11	Melosira granulata	6	0.8	3180	0.2
12	Oocystis pusilla	6	0.8	1249	0.1
13	Navicula pupula	6	0.8	1561	0.1
14	Cyclotella comta	6	0.8	13125	0.9
15	Melosira italica	6	0.8	10893	0.8
16	Ochromonas sp.	6	0.8	491	0.0
17	Chromulina sp.	6	0.8	116	0.0
18	Characium sp.	6	0.8	1099	0.1
19	Achnanthes minutissima	6	0.8	289	0.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-11-13

TOTAL DENSITY (#/ml): 894

TOTAL BIOVOLUME (cu.um/ml): 2388764

TROPHIC STATE INDEX: 56.1

DIVERSITY INDEX: 2.85

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Asterionella formosa	355	39.7	420523	17.6
2	Rhodomonas minuta	146	16.4	2930	0.1
3	Tabellaria fenestrata	93	10.3	1387692	58.1
4	Mallomonas sp.	85	9.5	32225	1.3
5	Ankistrodesmus falcatus	69	7.8	1735	0.1
6	Aphanizomenon flos-aquae	23	2.6	13877	0.6
7	Cryptomonas erosa	23	2.6	12027	0.5
8	Stephanodiscus astraea	23	2.6	185997	7.8
9	Cyclotella comta	15	1.7	35001	1.5
10	Fragilaria crotonensis	15	1.7	271988	11.4
11	Stephanodiscus astraea minutula	15	1.7	5397	0.2
12	Melosira granulata	8	0.9	12721	0.5
13	Fragilaria construens	8	0.9	3454	0.1
14	Chlamydomonas sp.	8	0.9	2506	0.1
15	Botryococcus braunii	8	0.9	694	0.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 89-12-11

TOTAL DENSITY (#/ml): 902

TOTAL BIOVOLUME (cu.um/ml): 858543

TROPHIC STATE INDEX: 48.7

DIVERSITY INDEX: 2.52

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	333	36.9	6654	0.8
2	Cryptomonas erosa	288	32.0	149939	17.5
3	Ankistrodesmus falcatus	74	8.2	1848	0.2
4	Tabellaria fenestrata	67	7.4	372097	43.3
5	Mallomonas sp.	37	4.1	14048	1.6
6	Asterionella formosa	22	2.5	52066	6.1
7	Stephanodiscus astraea	22	2.5	178374	20.8
8	Chlamydomonas sp.	15	1.6	4806	0.6
9	Achnanthes linearis	7	0.8	976	0.1
10	Cyclotella atomus	7	0.8	148	0.0
11	Cocconeis placentula	7	0.8	3401	0.4
12	Fragilaria crotonensis	7	0.8	43473	5.1
13	Cyclotella comta	7	0.8	16783	2.0
14	Melosira italica	7	0.8	13929	1.6

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 89-12-11

TOTAL DENSITY (#/ml): 880

TOTAL BIOVOLUME (cu.um/ml): 589413

TROPHIC STATE INDEX: 46

DIVERSITY INDEX: 2.49

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	421	47.9	8429	1.4
2	Cryptomonas erosa	177	20.2	92270	15.7
3	Ankistrodesmus falcatus	67	7.6	1664	0.3
4	Mallomonas sp.	59	6.7	22476	3.8
5	Tabellaria fenestrata	52	5.9	336609	57.1
6	Asterionella formosa	30	3.4	22772	3.9
7	Melosira ambigua	15	1.7	74031	12.6
8	Stephanodiscus astraea minutula	7	0.8	2588	0.4
9	Anacystis sp.	7	0.8	2218	0.4
10	Aphanizomenon flos-aquae	7	0.8	4436	0.8
11	Chlamydomonas sp.	7	0.8	2403	0.4
12	Unident. chrysophyte	7	0.8	739	0.1
13	Cyclotella comta	7	0.8	16783	2.8
14	Stephanodiscus hantzschii	7	0.8	887	0.2
15	Pseudopedinella sp.	7	0.8	1109	0.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 90-01-08

TOTAL DENSITY (#/ml): 669

TOTAL BIOVOLUME (cu.um/ml): 805935

TROPHIC STATE INDEX: 48.3

DIVERSITY INDEX: 2.87

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	233	34.9	4663	0.6
2	Cryptomonas erosa	123	18.3	63815	7.9
3	Asterionella formosa	104	15.6	118875	14.7
4	Cyclotella comta	49	7.3	111431	13.8
5	Ankistrodesmus falcatus	43	6.4	1074	0.1
6	Tabellaria fenestrata	37	5.5	382595	47.5
7	Cocconeis placentula	18	2.8	8468	1.1
8	Mallomonas sp.	12	1.8	4663	0.6
9	Trachelomonas volvocina	12	1.8	23133	2.9
10	Stephanodiscus astraea minutula	12	1.8	4295	0.5
11	Stephanodiscus astraea	6	0.9	49346	6.1
12	Fragilaria construens	6	0.9	4123	0.5
13	Gymnodinium sp.	6	0.9	16567	2.1
14	Trachelomonas hispida	6	0.9	12886	1.6

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 90-01-08

TOTAL DENSITY (#/ml): 1238

TOTAL BIOVOLUME (cu.um/ml): 594154

TROPHIC STATE INDEX: 46.1

DIVERSITY INDEX: 2.08

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	503	40.7	10069	1.7
2	Cryptomonas erosa	472	38.1	245428	41.3
3	Asterionella formosa	126	10.2	156998	26.4
4	Mallomonas sp.	31	2.5	11957	2.0
5	Cyclotella comta	21	1.7	47617	8.0
6	Ankistrodesmus falcatus	21	1.7	524	0.1
7	Trachelomonas hispida	10	0.8	22026	3.7
8	Aphanizomenon flos-aquae	10	0.8	6293	1.1
9	Trachelomonas sp.	10	0.8	20977	3.5
10	Chrysochromulina sp.	10	0.8	210	0.0
11	Pseudopedinella sp.	10	0.8	1573	0.3
12	Fragilaria crotonensis	10	0.8	70482	11.9

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 90-02-05

TOTAL DENSITY (#/ml): 472

TOTAL BIOVOLUME (cu.um/ml): 455479

TROPHIC STATE INDEX: 44.2

DIVERSITY INDEX: 2.67

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	197	41.7	3936	0.9
2	Asterionella formosa	107	22.6	84896	18.6
3	Cryptomonas erosa	53	11.3	27716	6.1
4	Tabellaria fenestrata	25	5.2	187157	41.1
5	Mallomonas sp.	21	4.3	7790	1.7
6	Stephanodiscus astraes	12	2.6	98917	21.7
7	Stephanodiscus astraes minutula	12	2.6	4305	0.9
8	Ankistrodesmus falcatus	12	2.6	308	0.1
9	Cyclotella comta	4	0.9	9307	2.0
10	Navicula cryptocephala	4	0.9	759	0.2
11	Unident. chrysophyte	4	0.9	410	0.1
12	Achnanthes minutissima	4	0.9	205	0.0
13	Chlamydomonas sp.	4	0.9	1333	0.3
14	Ochromonas sp.	4	0.9	349	0.1
15	Achnanthes linearis	4	0.9	541	0.1
16	Fragilaria crotonensis	4	0.9	27552	6.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 90-02-05

TOTAL DENSITY (#/ml): 578

TOTAL BIOVOLUME (cu.um/ml): 546956

TROPHIC STATE INDEX: 45.5

DIVERSITY INDEX: 3.01

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	171	29.6	3419	0.6
2	Cryptomonas erosa	147	25.5	76641	14.0
3	Asterionella formosa	106	18.4	103656	19.0
4	Cyclotella comta	24	4.1	53530	9.8
5	Chlamydomonas sp.	18	3.1	5748	1.1
6	Tabellaria fenestrata	18	3.1	141349	25.8
7	Melosira italica	12	2.0	16660	3.0
8	Stephanodiscus astraesa	12	2.0	94822	17.3
9	Achnanthes exigua	6	1.0	660	0.1
10	Closteriopsis longissima	6	1.0	2099	0.4
11	Melosira ambigua	6	1.0	17362	3.2
12	Gomphonema angustatum	6	1.0	1061	0.2
13	Ochromonas sp.	6	1.0	501	0.1
14	Ankistrodesmus falcatus	6	1.0	147	0.0
15	Stephanodiscus astraesa minutula	6	1.0	2063	0.4
16	Synedra rumpens	6	1.0	825	0.2
17	Cymbella sinuata	6	1.0	825	0.2
18	Mallomonas sp.	6	1.0	2240	0.4
19	Fragilaria crotonensis	6	1.0	19809	3.6
20	Aphanizomenon flos-aquae	6	1.0	3537	0.6

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 90-03-05

TOTAL DENSITY (#/ml): 2998

TOTAL BIOVOLUME (cu.um/ml): 1126969

TROPHIC STATE INDEX: 50.7

DIVERSITY INDEX: 2.27

	SPECIES	DENSITY	PCT	BIOVOL	PCT
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1	Rhodomonas minuta	1380	46.0	27591	2.4
2	Cryptomonas erosa	531	17.7	275906	24.5
3	Stephanodiscus astraesa minutula	424	14.2	148565	13.2
4	Mallomonas sp.	371	12.4	141136	12.5
5	Ankistrodesmus falcatus	133	4.4	3316	0.3
6	Melosira italica	53	1.8	224916	20.0
7	Chlamydomonas sp.	27	0.9	8622	0.8
8	Asterionella formosa	27	0.9	23346	2.1
9	Cyclotella comta	27	0.9	60222	5.3
10	Stephanodiscus astraesa	27	0.9	213350	18.9

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 90-03-05

TOTAL DENSITY (#/ml): 3969

TOTAL BIOVOLUME (cu.um/ml): 1843941

TROPHIC STATE INDEX: 54.3

DIVERSITY INDEX: 2.56

	SPECIES	DENSITY	PCT	BIOVOL	PCT
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1	Rhodomonas minuta	1624	40.9	32472	1.8
2	Mallomonas sp.	902	22.7	342760	18.6
3	Achnanthes minutissima	433	10.9	21648	1.2
4	Stephanodiscus hantzschii	289	7.3	34637	1.9
5	Cryptomonas erosa	253	6.4	131331	7.1
6	Ankistrodesmus falcatus	144	3.6	3608	0.2
7	Stephanodiscus astraes minutula	108	2.7	37884	2.1
8	Stephanodiscus astraes	72	1.8	580311	31.5
9	Cyclotella atomus	36	0.9	722	0.0
10	Melosira italica	36	0.9	135949	7.4
11	Tabellaria fenestrata	36	0.9	519552	28.2
12	Ochromonas sp.	36	0.9	3067	0.2

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 3

SAMPLE DATE: 90-04-02

TOTAL DENSITY (#/ml): 851

TOTAL BIOVOLUME (cu.um/ml): 1021916

TROPHIC STATE INDEX: 50

DIVERSITY INDEX: 2.38

	SPECIES	DENSITY	PCT	BIOVOL	PCT
1	Rhodomonas minuta	411	48.3	8226	0.8
2	Cryptomonas erosa	166	19.5	86303	8.4
3	Tabellaria fenestrata	65	7.6	572027	56.0
4	Cyclotella comta	65	7.6	147423	14.4
5	Ankistrodesmus falcatus	58	6.8	1443	0.1
6	Mallomonas sp.	36	4.2	13710	1.3
7	Sphaerocystis schroeteri	14	1.7	6061	0.6
8	Stephanodiscus astraea minutula	7	0.8	2526	0.2
9	Melosira italica	7	0.8	20392	2.0
10	Chrysochromulina sp.	7	0.8	144	0.0
11	Peridinium cinctum	7	0.8	30307	3.0
12	Fragilaria crotonensis	7	0.8	133352	13.0

PHYTOPLANKTON SAMPLE ANALYSIS

SAMPLE: Lake Sawyer, Sta 4

SAMPLE DATE: 90-04-02

TOTAL DENSITY (#/ml): 1275

TOTAL BIOVOLUME (cu.um/ml): 1465074

TROPHIC STATE INDEX: 52.6

DIVERSITY INDEX: 2.35

	SPECIES	DENSITY	PCT	BIOVOL	PCT
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1	Rhodomonas minuta	618	48.5	12353	0.8
2	Cryptomonas erosa	284	22.3	147850	10.1
3	Tabellaria fenestrata	108	8.5	1012044	69.1
4	Ankistrodesmus falcatus	88	6.9	2206	0.2
5	Cyclotella comta	69	5.4	155791	10.6
6	Oocystis pusilla	20	1.5	8471	0.6
7	Mallomonas sp.	20	1.5	7451	0.5
8	Melosira italica	10	0.8	27707	1.9
9	Ochromonas sp.	10	0.8	833	0.1
10	Stephanodiscus astraea	10	0.8	78847	5.4
11	Achnanthes minutissima	10	0.8	490	0.0
12	Chlamydomonas sp.	10	0.8	3186	0.2
13	Sphaerocystis schroeteri	10	0.8	5490	0.4
14	Nitzschia frustulum	10	0.8	2353	0.2

SIMILARITY INDICES FOR ALGAE SAMPLES.

	CB40	CB41	BS39	BS40	BS41	BS42	BS43	BS44	CB42	CB43	CB44	CB45
CB40	.....	9	10	11	10	8	5	5	3	2	3	3
CB41	72	.....	9	10	9	9	5	5	4	4	4	5
BS39	52	49	.....	13	12	10	6	5	6	4	3	4
BS40	61	61	80	.....	15	12	9	7	5	5	5	6
BS41	43	47	58	61	.....	13	9	9	5	6	6	8
BS42	45	49	54	56	78	.....	9	10	5	6	6	7
BS43	38	40	40	45	56	59	.....	7	6	5	7	6
BS44	48	51	40	54	56	59	79	.....	6	7	7	7
CB42	24	27	30	27	33	32	37	32	.....	5	5	5
CB43	13	18	18	20	28	24	31	28	79	.....	7	6
CB44	35	36	35	37	40	42	49	44	79	70	.....	7
CB45	39	42	40	42	46	48	52	49	74	66	86	.....

CODE SAMPLE

CB40	Lake Sawyer, Sta 3, 89-02-27
CB41	Lake Sawyer, Sta 4, 89-02-27
BS39	Lake Sawyer, Sta 3, 89-03-20
BS40	Lake Sawyer, Sta 4, 89-03-20
BS41	Lake Sawyer, Sta 3, 89-04-10
BS42	Lake Sawyer, Sta 4, 89-04-10
BS43	Lake Sawyer, Sta 3, 89-05-01
BS44	Lake Sawyer, Sta 4, 89-05-01
CB42	Lake Sawyer, Sta 3, 89-05-22
CB43	Lake Sawyer, Sta 4, 89-05-22
CB44	Lake Sawyer, Sta 3, 89-06-12
CB45	Lake Sawyer, Sta 4, 89-06-12

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	BS59	BS60	BS57	BS58	BS61	BS62	BS63	BS64	BS65	BS66	BS67	BS68
BS59	....	13	12	14	12	13	14	15	9	12	9	10
BS60	82	....	11	12	12	11	11	12	7	10	8	9
BS57	55	51	....	12	10	9	11	13	6	10	7	8
BS58	64	63	56	....	12	13	14	14	7	10	9	10
BS61	50	47	66	60	....	12	10	13	6	12	8	9
BS62	48	43	68	56	57	....	13	13	8	11	8	10
BS63	54	52	53	63	46	59	....	17	12	14	9	11
BS64	51	50	51	59	46	56	72	....	12	14	10	12
BS65	37	48	28	43	34	31	49	41	....	12	8	10
BS66	38	46	32	45	40	34	43	38	69	....	10	12
BS67	42	47	21	41	28	24	31	28	54	75	....	13
BS68	45	53	24	47	31	28	42	41	63	74	82	....

CODE SAMPLE

BS59	Lake Sawyer, Sta 3, 89-07-10
BS60	Lake Sawyer, Sta 4, 89-07-10
BS57	Lake Sawyer, Sta 3, 89-07-31
BS58	Lake Sawyer, Sta 4, 89-07-31
BS61	Lake Sawyer, Sta 3, 89-08-21
BS62	Lake Sawyer, Sta 4, 89-08-21
BS63	Lake Sawyer, Sta 3, 89-09-11
BS64	Lake Sawyer, Sta 4, 89-09-11
BS65	Lake Sawyer, Sta 3, 89-10-02
BS66	Lake Sawyer, Sta 4, 89-10-02
BS67	Lake Sawyer, Sta 3, 89-10-23
BS68	Lake Sawyer, Sta 4, 89-10-23

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	BS69	BS70	BS75	BS76	BS77	BS78	BS79	BS80	BS81	BS82	BS83	BS84
BS69	.....	11	10	8	8	8	11	12	8	9	8	11
BS70	86	.....	10	10	10	8	11	12	9	7	8	8
BS75	49	46	.....	8	9	7	11	11	9	8	8	9
BS76	48	46	79	.....	8	8	10	11	8	7	7	7
BS77	55	54	72	72	.....	7	9	9	8	7	7	7
BS78	41	37	77	71	69	.....	7	8	6	4	7	5
BS79	64	61	68	72	75	68	.....	12	9	9	8	10
BS80	54	50	69	63	75	71	71	.....	10	9	9	10
BS81	38	38	67	78	63	64	66	56	.....	7	7	8
BS82	38	37	55	60	50	51	61	44	68	.....	7	9
BS83	45	41	77	86	75	68	68	61	75	58	.....	8
BS84	46	39	78	84	73	68	66	64	73	56	91	.....

CODE SAMPLE

BS69	Lake Sawyer, Sta 3, 89-11-13
BS70	Lake Sawyer, Sta 4, 89-11-13
BS75	Lake Sawyer, Sta 3, 89-12-11
BS76	Lake Sawyer, Sta 4, 89-12-11
BS77	Lake Sawyer, Sta 3, 90-01-08
BS78	Lake Sawyer, Sta 4, 90-01-08
BS79	Lake Sawyer, Sta 3, 90-02-05
BS80	Lake Sawyer, Sta 4, 90-02-05
BS81	Lake Sawyer, Sta 3, 90-03-05
BS82	Lake Sawyer, Sta 4, 90-03-05
BS83	Lake Sawyer, Sta 3, 90-04-02
BS84	Lake Sawyer, Sta 4, 90-04-02

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	CB40	BS39	BS41	BS43	CB42	CB44	BS59	BS57	BS61	BS63	BS65	BS67
CB40	.....	10	10	5	3	3	4	3	4	4	4	6
BS39	52	.....	12	6	6	3	6	7	8	8	6	9
BS41	43	58	.....	9	5	6	8	8	10	8	8	9
BS43	38	40	56	.....	6	7	7	7	7	8	7	8
CB42	24	30	33	37	.....	5	7	6	6	6	5	7
CB44	35	35	40	49	79	.....	7	4	7	7	6	6
BS59	26	29	44	52	59	61	.....	12	12	14	9	9
BS57	13	22	30	31	36	36	55	.....	10	11	6	7
BS61	23	32	38	37	36	38	50	66	.....	10	6	8
BS63	17	25	34	39	32	35	54	53	46	.....	12	9
BS65	42	43	49	49	28	38	37	28	34	49	.....	8
BS67	58	46	50	54	30	38	42	21	28	31	54	.....

CODE SAMPLE

CB40	Lake Sawyer, Sta 3, 89-02-27
BS39	Lake Sawyer, Sta 3, 89-03-20
BS41	Lake Sawyer, Sta 3, 89-04-10
BS43	Lake Sawyer, Sta 3, 89-05-01
CB42	Lake Sawyer, Sta 3, 89-05-22
CB44	Lake Sawyer, Sta 3, 89-06-12
BS59	Lake Sawyer, Sta 3, 89-07-10
BS57	Lake Sawyer, Sta 3, 89-07-31
BS61	Lake Sawyer, Sta 3, 89-08-21
BS63	Lake Sawyer, Sta 3, 89-09-11
BS65	Lake Sawyer, Sta 3, 89-10-02
BS67	Lake Sawyer, Sta 3, 89-10-23

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	BS59	BS57	BS61	BS63	BS65	BS67	BS69	BS75	BS77	BS79	BS81	BS83
BS59	.....	12	12	14	9	9	7	6	5	6	6	6
BS57	55	.....	10	11	6	7	7	6	5	7	6	5
BS61	50	66	.....	10	6	8	10	7	5	9	6	7
BS63	54	53	46	.....	12	9	9	6	5	7	6	6
BS65	37	28	34	49	.....	8	7	5	5	7	5	4
BS67	42	21	28	31	54	.....	8	7	7	8	7	7
BS69	34	21	29	29	47	43	.....	10	8	11	8	8
BS75	40	20	26	25	52	63	49	.....	9	11	9	8
BS77	46	25	31	29	57	58	55	72	.....	9	8	7
BS79	35	19	28	21	56	65	64	68	75	.....	9	8
BS81	39	19	26	22	46	73	38	67	63	66	.....	7
BS83	47	26	33	31	48	73	45	77	75	68	75	.....

CODE SAMPLE

BS59	Lake Sawyer, Sta 3, 89-07-10
BS57	Lake Sawyer, Sta 3, 89-07-31
BS61	Lake Sawyer, Sta 3, 89-08-21
BS63	Lake Sawyer, Sta 3, 89-09-11
BS65	Lake Sawyer, Sta 3, 89-10-02
BS67	Lake Sawyer, Sta 3, 89-10-23
BS69	Lake Sawyer, Sta 3, 89-11-13
BS75	Lake Sawyer, Sta 3, 89-12-11
BS77	Lake Sawyer, Sta 3, 90-01-08
BS79	Lake Sawyer, Sta 3, 90-02-05
BS81	Lake Sawyer, Sta 3, 90-03-05
BS83	Lake Sawyer, Sta 3, 90-04-02

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	CB41	BS40	BS42	BS44	CB43	CB45	BS60	BS58	BS62	BS64	BS66	BS68
CB41	.....	10	9	5	4	5	5	4	6	6	5	4
BS40	61	.....	12	7	5	6	7	7	7	9	10	10
BS42	49	56	.....	10	6	7	7	8	7	8	9	7
BS44	51	54	59	.....	7	7	7	7	7	8	9	7
CB43	18	20	24	28	.....	6	6	4	6	5	7	5
CB45	42	42	48	49	66	.....	9	7	8	9	7	6
BS60	37	39	48	50	51	78	.....	12	11	12	10	9
BS58	28	36	43	43	32	47	63	.....	13	14	10	10
BS62	16	21	23	25	31	35	43	56	.....	13	11	10
BS64	16	22	31	31	28	38	50	59	56	.....	14	12
BS66	59	56	48	56	17	42	46	45	34	38	.....	12
BS68	57	57	51	62	22	48	53	47	28	41	74	.....

CODE SAMPLE

CB41	Lake Sawyer, Sta 4, 89-02-27
BS40	Lake Sawyer, Sta 4, 89-03-20
BS42	Lake Sawyer, Sta 4, 89-04-10
BS44	Lake Sawyer, Sta 4, 89-05-01
CB43	Lake Sawyer, Sta 4, 89-05-22
CB45	Lake Sawyer, Sta 4, 89-06-12
BS60	Lake Sawyer, Sta 4, 89-07-10
BS58	Lake Sawyer, Sta 4, 89-07-31
BS62	Lake Sawyer, Sta 4, 89-08-21
BS64	Lake Sawyer, Sta 4, 89-09-11
BS66	Lake Sawyer, Sta 4, 89-10-02
BS68	Lake Sawyer, Sta 4, 89-10-23

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	BS60	BS58	BS62	BS64	BS66	BS68	BS70	BS76	BS78	BS80	BS82	BS84
BS60	.....	12	11	12	10	9	7	7	7	8	4	8
BS58	63	.....	13	14	10	10	7	7	6	9	5	8
BS62	43	56	.....	13	11	10	8	7	8	9	7	10
BS64	50	59	56	.....	14	12	8	9	9	9	6	8
BS66	46	45	34	38	.....	12	9	10	10	10	5	8
BS68	53	47	28	41	74	.....	11	10	9	11	7	7
BS70	33	33	25	26	40	41	.....	10	8	12	7	8
BS76	44	37	23	24	69	74	46	.....	8	11	7	7
BS78	39	31	20	19	56	59	37	71	.....	8	4	5
BS80	43	36	23	23	43	48	50	63	71	.....	9	10
BS82	37	31	22	20	52	58	37	60	51	44	.....	9
BS84	49	42	28	27	63	67	39	84	68	64	56	.....

CODE SAMPLE

BS60	Lake Sawyer, Sta 4, 89-07-10
BS58	Lake Sawyer, Sta 4, 89-07-31
BS62	Lake Sawyer, Sta 4, 89-08-21
BS64	Lake Sawyer, Sta 4, 89-09-11
BS66	Lake Sawyer, Sta 4, 89-10-02
BS68	Lake Sawyer, Sta 4, 89-10-23
BS70	Lake Sawyer, Sta 4, 89-11-13
BS76	Lake Sawyer, Sta 4, 89-12-11
BS78	Lake Sawyer, Sta 4, 90-01-08
BS80	Lake Sawyer, Sta 4, 90-02-05
BS82	Lake Sawyer, Sta 4, 90-03-05
BS84	Lake Sawyer, Sta 4, 90-04-02

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.

SIMILARITY INDICES FOR ALGAE SAMPLES.

	CB40	CB41	BS79	BS80	BS39	BS40	BS81	BS82	BS41	BS42	BS83	BS84
CB40	.....	9	5	6	10	11	4	6	10	8	3	6
CB41	72	.....	6	8	9	10	6	6	9	9	4	6
BS79	51	53	.....	12	10	11	9	9	10	10	8	10
BS80	40	44	71	.....	11	12	10	9	11	12	9	10
BS39	52	49	49	49	.....	13	8	8	12	10	5	8
BS40	61	61	61	49	80	.....	9	9	15	12	7	8
BS81	53	57	66	56	55	69	.....	7	8	8	7	8
BS82	65	56	61	44	51	60	68	.....	8	8	7	9
BS41	43	47	55	57	58	61	54	46	.....	13	7	9
BS42	45	49	53	56	54	56	52	48	78	.....	7	8
BS83	53	58	68	61	40	55	75	58	52	51	.....	8
BS84	55	59	66	64	42	56	73	56	52	52	91	.....

CODE SAMPLE

CB40	Lake Sawyer, Sta 3, 89-02-27
CB41	Lake Sawyer, Sta 4, 89-02-27
BS79	Lake Sawyer, Sta 3, 90-02-05
BS80	Lake Sawyer, Sta 4, 90-02-05
BS39	Lake Sawyer, Sta 3, 89-03-20
BS40	Lake Sawyer, Sta 4, 89-03-20
BS81	Lake Sawyer, Sta 3, 90-03-05
BS82	Lake Sawyer, Sta 4, 90-03-05
BS41	Lake Sawyer, Sta 3, 89-04-10
BS42	Lake Sawyer, Sta 4, 89-04-10
BS83	Lake Sawyer, Sta 3, 90-04-02
BS84	Lake Sawyer, Sta 4, 90-04-02

Similarity indices are given at the lower left.
 Number of species common between samples are at upper right.