

2/05/02

To: Elaine Stewart, Metro Parks and Greenspaces

From: Paul Vandenberg, Metro REM

Subject: Notes re Lake Water Quality Data

Attached is an Excel file containing monitoring results for selected water quality parameters in Smith and Bybee Lakes, for the years 1999-2001.

Metro-REM attempts to sample 6 times per year at one location in each lake, including once in winter, once in spring, and 4 consecutive monthly samplings during the driest part of the year. The sampling points are centrally located and representative of the areas of greatest water depth.

At the time of each sampling event, field staff make a determination about the feasibility of sampling at each location, based on accessibility (e.g., navigability to the sampling point) or any other practical consideration. Data gaps for 1999-2001 indicate situations where staff were forced to forego scheduled sampling in one or both of the lakes, because of inaccessibility due to low water conditions.

The parameters in the table are coded, as follows:

Parameter Code	Parameter Full Name
DO	Dissolved Oxygen (field-measured)
N-NO2	Nitrogen (as Nitrite)
N-NO3	Nitrogen (as Nitrate)
NO2-NO3	Nitrogen (as Nitrite + Nitrate)
N-TK	Total (Kjeldahl) Nitrogen
O-PO4-P	Ortho-Phosphate
P	Phosphorus (total)
pH	pH (field-measured)

We analyzed Nitrite (N-NO2) and Nitrate (N-NO3) separately up until around Oct. 1999, at which time we switched to NO2 + NO3. Nitrite is generally not detected.

A -9 in the Concentration field means that the parameter was not detected above its MRL (method reporting limit).

Where duplicate samples were taken at a given location (for quality assurance), those data are included in the table, in the "Dup Conc" column.

Smith and Bybee Lakes  
Selected Water Quality Parameters (1999-2001)

Station	Parameter	Date	Time	Conc	Dup Conc	MRL	Unit	Method
Bybee	DO	1/19/99	10:30	11.36			mg/l	Hydrolab
Bybee	DO	6/10/99	9:02	11			mg/l	Hydrolab
Bybee	DO	7/13/99	12:32	9.68			mg/l	Hydrolab
Bybee	DO	8/11/99	9:25	7.58			mg/l	Hydrolab
Bybee	DO	9/16/99	9:34	6.05			mg/l	Hydrolab
Bybee	DO	10/19/99	10:08	9.02			mg/l	Hydrolab
Bybee	DO	2/2/00	13:19	13.02			mg/l	Hydrolab
Bybee	DO	6/15/00	12:50	11.01			mg/l	Hydrolab
Bybee	DO	7/6/00	12:36	5.28			mg/l	Hydrolab
Bybee	DO	8/23/00	12:16	11.46			mg/l	Hydrolab
Bybee	DO	1/14/01	1:01	10.33			mg/l	Hydrolab
Bybee	DO	6/12/01	9:05	1.43			mg/l	Hydrolab
Smith	DO	1/19/99	10:00	11.24			mg/l	Hydrolab
Smith	DO	6/10/99	9:29	9.32			mg/l	Hydrolab
Smith	DO	7/13/99	13:07	11.1			mg/l	Hydrolab
Smith	DO	8/11/99	9:58	6.3			mg/l	Hydrolab
Smith	DO	9/16/99	10:18	7.02			mg/l	Hydrolab
Smith	DO	10/19/99	9:30	8.87			mg/l	Hydrolab
Smith	DO	2/2/00	14:01	12.51			mg/l	Hydrolab
Smith	DO	6/15/00	13:45	8.83			mg/l	Hydrolab
Smith	DO	7/6/00	13:15	6.75			mg/l	Hydrolab
Smith	DO	6/12/01	10:10	7.99			mg/l	Hydrolab
Bybee	N-NO2	1/19/99	10:30	-9		0.1	mg/l	300.0
Bybee	N-NO2	6/10/99	09:00	-9	-9	0.1	mg/l	300.0
Bybee	N-NO2	7/13/99	12:30	-9		0.1	mg/l	300.0
Bybee	N-NO2	10/19/99	10:15	-9		0.1	mg/l	300.0
Smith	N-NO2	1/19/99	10:00	-9		0.1	mg/l	300.0
Smith	N-NO2	6/10/99	09:30	-9		0.1	mg/l	300.0
Smith	N-NO2	7/13/99	13:10	-9		0.1	mg/l	300.0
Smith	N-NO2	10/19/99	09:30	-9		0.1	mg/l	300.0
Bybee	N-NO3	1/19/99	10:30	0.525		0.1	mg/l	300.0
Bybee	N-NO3	6/10/99	09:00	0.104	-9	0.1	mg/l	300.0
Bybee	N-NO3	7/13/99	12:30	-9		0.1	mg/l	300.0
Bybee	N-NO3	10/19/99	10:15	0.17		0.1	mg/l	300.0
Smith	N-NO3	1/19/99	10:00	0.685		0.1	mg/l	300.0
Smith	N-NO3	6/10/99	09:30	-9		0.1	mg/l	300.0
Smith	N-NO3	7/13/99	13:10	-9		0.1	mg/l	300.0
Smith	N-NO3	10/19/99	09:30	0.145		0.1	mg/l	300.0
Bybee	NO2-NO3	8/11/99	09:30	-9		0.1	mg/l	300.0
Bybee	NO2-NO3	9/16/99	09:30	-9		0.1	mg/l	300.0
Bybee	NO2-NO3	2/2/00	13:15	0.052	-9	0.025	mg/l	353.2
Bybee	NO2-NO3	6/15/00	12:50	-9	-9	0.1	mg/l	353.2
Bybee	NO2-NO3	7/6/00	12:45	0.0488		0.005	mg/l	353.2
Bybee	NO2-NO3	8/23/00	12:30	-9		0.005	mg/l	353.2
Bybee	NO2-NO3	1/16/01	10:15	0.0078		0.005	mg/l	353.2
Bybee	NO2-NO3	6/12/01	09:05	0.0075		0.005	mg/l	353.2
Smith	NO2-NO3	8/11/99	10:00	-9		0.1	mg/l	300.0
Smith	NO2-NO3	9/16/99	10:15	-9	-9	0.1	mg/l	300.0
Smith	NO2-NO3	2/2/00	14:00	0.297		0.025	mg/l	353.2
Smith	NO2-NO3	6/15/00	13:45	-9		0.1	mg/l	353.2
Smith	NO2-NO3	7/6/00	13:30	0.0229		0.005	mg/l	353.2
Smith	NO2-NO3	6/12/01	10:10	0.05		0.005	mg/l	353.2
Bybee	N-TK	1/19/99	10:30	-9		1	mg/l	351.3
Bybee	N-TK	6/10/99	09:00	-9	-9	1	mg/l	351.3
Bybee	N-TK	7/13/99	12:30	-9		1	mg/l	351.3
Bybee	N-TK	8/11/99	09:30	1.34		1	mg/l	351.3
Bybee	N-TK	9/16/99	09:30	3.66		1	mg/l	351.3
Bybee	N-TK	10/19/99	10:15	2.16		1	mg/l	351.3
Bybee	N-TK	2/2/00	13:15	1.22	1.21	0.2	mg/l	351.2
Bybee	N-TK	6/15/00	12:50	2.15	1.94	0.2	mg/l	351.2
Bybee	N-TK	7/6/00	12:45	3.52		0.2	mg/l	351.2
Bybee	N-TK	8/23/00	12:30	12.2		1	mg/l	351.2
Bybee	N-TK	1/16/01	10:15	1.7		0.5	mg/l	351.2
Bybee	N-TK	6/12/01	09:05	4.61		0.5	mg/l	351.2
Smith	N-TK	1/19/99	10:00	-9		1	mg/l	351.3
Smith	N-TK	6/10/99	09:30	-9		1	mg/l	351.3

Smith and Bybee Lakes  
Selected Water Quality Parameters (1999-2001)

Smith	N-TK	7/13/99	13:10	-9		1	mg/l	351.3
Smith	N-TK	8/11/99	10:00	1.4		1	mg/l	351.3
Smith	N-TK	9/16/99	10:15	1.92	1.39	1	mg/l	351.3
Smith	N-TK	10/19/99	09:30	2.45		1	mg/l	351.3
Smith	N-TK	2/2/00	14:00	1.27		0.2	mg/l	351.2
Smith	N-TK	6/15/00	13:45	2.04		0.2	mg/l	351.2
Smith	N-TK	7/6/00	13:30	2.41		0.2	mg/l	351.2
Smith	N-TK	6/12/01	10:10	2.57		0.5	mg/l	351.2
Bybee	O-PO4-P	1/19/99	10:30	-9		0.025	mg/l	365.1
Bybee	O-PO4-P	6/10/99	09:00	0.0291	0.0383	0.025	mg/l	365.1
Bybee	O-PO4-P	7/13/99	12:30	-9		0.025	mg/l	365.1
Bybee	O-PO4-P	8/11/99	09:30	-9		0.025	mg/l	365.1
Bybee	O-PO4-P	9/16/99	09:30	-9		0.025	mg/l	365.1
Bybee	O-PO4-P	10/19/99	10:15	-9		0.025	mg/l	365.1
Bybee	O-PO4-P	2/2/00	13:15	0.0055	0.0056	0.003	mg/l	365.1
Bybee	O-PO4-P	6/15/00	12:50	0.0068	0.0059	0.005	mg/l	365.1
Bybee	O-PO4-P	7/6/00	12:45	0.126		0.005	mg/l	365.1
Bybee	O-PO4-P	8/23/00	12:30	0.208		0.01	mg/l	365.1
Bybee	O-PO4-P	1/16/01	10:15	-9		0.005	mg/l	365.1
Bybee	O-PO4-P	6/12/01	09:05	0.0139		0.01	mg/l	365.1
Smith	O-PO4-P	1/19/99	10:00	-9		0.025	mg/l	365.1
Smith	O-PO4-P	6/10/99	09:30	0.0658		0.025	mg/l	365.1
Smith	O-PO4-P	7/13/99	13:10	-9		0.025	mg/l	365.1
Smith	O-PO4-P	8/11/99	10:00	-9		0.025	mg/l	365.1
Smith	O-PO4-P	9/16/99	10:15	-9	-9	0.025	mg/l	365.1
Smith	O-PO4-P	10/19/99	09:30	-9		0.025	mg/l	365.1
Smith	O-PO4-P	2/2/00	14:00	0.0111		0.003	mg/l	365.1
Smith	O-PO4-P	6/15/00	13:45	0.0374		0.005	mg/l	365.1
Smith	O-PO4-P	7/6/00	13:30	0.0414		0.005	mg/l	365.1
Smith	O-PO4-P	6/12/01	10:10	0.0248		0.01	mg/l	365.1
BL	P	1/19/99	10:30	0.107		0.035	mg/l	365.3
BL	P	6/10/99	09:00	0.0674	0.0766	0.035	mg/l	365.3
BL	P	7/13/99	12:30	0.075		0.035	mg/l	365.3
BL	P	8/11/99	09:30	0.239		0.035	mg/l	365.3
BL	P	9/16/99	09:30	0.577		0.035	mg/l	365.3
BL	P	10/19/99	10:15	0.342		0.035	mg/l	365.3
BL	P	2/2/00	13:15	0.0876	0.0927	0.035	mg/l	365.4
BL	P	6/15/00	12:50	0.283	0.296	0.035	mg/l	365.4
BL	P	7/6/00	12:45	0.585		0.175	mg/l	365.4
BL	P	8/23/00	12:30	1.44		0.175	mg/l	365.4
BL	P	1/16/01	10:15	0.171		0.01	mg/l	365.4
BL	P	6/12/01	09:05	0.255		0.01	mg/l	365.4
SL	P	1/19/99	10:00	0.126		0.035	mg/l	365.3
SL	P	6/10/99	09:30	0.098		0.035	mg/l	365.3
SL	P	7/13/99	13:10	0.107		0.035	mg/l	365.3
SL	P	8/11/99	10:00	0.263		0.035	mg/l	365.3
SL	P	9/16/99	10:15	0.413	0.392	0.035	mg/l	365.3
SL	P	10/19/99	09:30	0.392		0.035	mg/l	365.3
SL	P	2/2/00	14:00	0.146		0.035	mg/l	365.4
SL	P	6/15/00	13:45	0.296		0.035	mg/l	365.4
SL	P	7/6/00	13:30	0.275		0.175	mg/l	365.4
SL	P	6/12/01	10:10	-9		0.01	mg/l	365.4
Bybee	pH	1/19/99	10:30	6.94			S.U.	Hydrolab
Bybee	pH	6/10/99	9:02	8.37			S.U.	Hydrolab
Bybee	pH	7/13/99	12:32	8.59			S.U.	Hydrolab
Bybee	pH	8/11/99	9:25	7.82			S.U.	Hydrolab
Bybee	pH	9/16/99	9:34	7.54			S.U.	Hydrolab
Bybee	pH	10/19/99	10:08	7.32			S.U.	Hydrolab
Bybee	pH	2/2/00	13:19	7.55			S.U.	Hydrolab
Bybee	pH	6/15/00	12:50	8.8			S.U.	Hydrolab
Bybee	pH	7/6/00	12:36	7.94			S.U.	Hydrolab
Bybee	pH	8/23/00	12:16	9.23			S.U.	Hydrolab
Bybee	pH	1/14/01	1:01	7.67			S.U.	Hydrolab
Bybee	pH	6/12/01	9:05	7.5			S.U.	Hydrolab
Smith	pH	1/19/99	10:00	6.88			S.U.	Hydrolab
Smith	pH	6/10/99	9:29	7.97			S.U.	Hydrolab
Smith	pH	7/13/99	13:07	8.82			S.U.	Hydrolab

Smith and Bybee Lakes  
 Selected Water Quality Parameters (1999-2001)

Smith	pH	8/11/99	9:58	7.37			S.U.	Hydrolab
Smith	pH	9/16/99	10:18	7.43			S.U.	Hydrolab
Smith	pH	10/19/99	9:30	7.1			S.U.	Hydrolab
Smith	pH	2/2/00	14:01	7.47			S.U.	Hydrolab
Smith	pH	6/15/00	13:45	8.22			S.U.	Hydrolab
Smith	pH	7/6/00	13:15	7.51			S.U.	Hydrolab
Smith	pH	6/12/01	10:10	7.53			S.U.	Hydrolab

Sample Date From: 1/1/99 To: 12/31/01

Standard: OAR 340-41-T20-Human Water/Fish Ingestion

Parameter Nitrate + Nitrite

T20-Ingest 10 mg/kg

Station	Sample Date	Conc	Status	Exceedence Factor
BL	8/11/99	ND	-	0.00
	9/16/99	ND	-	0.00
	2/2/00	0.0520	-	0.00
	6/15/00	ND	-	0.00
	7/6/00	0.0488	-	0.00
	8/23/00	ND	-	0.00
	1/16/01	0.0078	-	0.00
	6/12/01	0.0075	-	0.00
SL	8/11/99	ND	-	0.00
	9/16/99	ND	-	0.00
	2/2/00	0.2970	-	0.00
	6/15/00	ND	-	0.00
	7/6/00	0.0229	-	0.00
	6/12/01	0.0500	-	0.00

Nitrate + Nitrite Totals

Station	Total	# Detect	# Violations	Avg. Factor of Exceedence
BL	8	4	0	0.00
SL	6	3	0	0.00

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."

# Standards Cross-Check

## Surface Water

21-Feb-02

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Sample Date From: 1/1/99 To: 12/31/01

Standard: Cool Warm Water Minimum

Parameter		Dissolved oxygen			
Cool/Warm_DO_MIN		4 mg/l			
Station	Sample Date	Conc	Status	Exceedence Factor	
BL	1/19/99	11.3600	-	0.00	
	6/10/99	11.0000	-	0.00	
	7/13/99	9.6800	-	0.00	
	8/11/99	7.5800	-	0.00	
	9/16/99	6.0500	-	0.00	
	10/19/99	9.0200	-	0.00	
	2/2/00	13.0200	-	0.00	
	6/15/00	11.0100	-	0.00	
	7/6/00	5.2800	-	0.00	
	8/23/00	11.4600	-	0.00	
	1/14/01	10.3300	-	0.00	
	6/12/01	1.4300	+	0.36	
SL	1/19/99	11.2400	-	0.00	
	6/10/99	9.3200	-	0.00	
	7/13/99	11.1000	-	0.00	
	8/11/99	6.3000	-	0.00	
	9/16/99	7.0200	-	0.00	
	10/19/99	8.8700	-	0.00	
	2/2/00	12.5100	-	0.00	
	6/15/00	8.8300	-	0.00	
	7/6/00	6.7500	-	0.00	
	6/12/01	7.9900	-	0.00	
<b>Dissolved oxygen Totals</b>					
Station	Total	# Detect	# Violations	Avg. Factor of Exceedence	
BL	12	12	1	0.36	
SL	10	10	0	0.00	

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."

# Standards Cross-Check

## Surface Water

Sample Date From: 1/1/99 To: 12/31/01  
 Standard: DEQ Interim Target (EPA Quality Criteria)

Parameter ortho-phosphate as phosphorus

DEQ-Interim 0.02 mg/l

Station	Sample Date	Conc	Status	Exceedence Factor
BL	1/19/99	ND	-	0.00
	6/10/99	0.0291	+	1.46
	7/13/99	ND	-	0.00
	8/11/99	ND	-	0.00
	9/16/99	ND	-	0.00
	10/19/99	ND	-	0.00
	2/2/00	0.0055	-	0.00
	6/15/00	0.0068	-	0.00
	7/6/00	0.1260	+	6.30
	8/23/00	0.2080	+	10.40
	1/16/01	ND	-	0.00
	6/12/01	0.0139	-	0.00
SL	1/19/99	ND	-	0.00
	6/10/99	0.0658	+	3.29
	7/13/99	ND	-	0.00
	8/11/99	ND	-	0.00
	9/16/99	ND	-	0.00
	10/19/99	ND	-	0.00
	2/2/00	0.0111	-	0.00
	6/15/00	0.0374	+	1.87
	7/6/00	0.0414	+	2.07
	6/12/01	0.0248	+	1.24

ortho-phosphate as phosphorus Totals

Station	Total	# Detect	# Violations	Avg. Factor of Exceedence
BL	12	6	3	6.05
SL	10	5	4	2.12

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."

Sample Date From: 1/1/99 To: 12/31/01

Standard: DEQ Interim Target (EPA Quality Criteria)

Parameter Phosphorus

DEQ-Interim 0.1 mg/l

Station	Sample Date	Conc	Status	Exceedence Factor
BL	1/19/99	0.1070	+	1.07
	6/10/99	0.0674	-	0.00
	7/13/99	0.0750	-	0.00
	8/11/99	0.2390	+	2.39
	9/16/99	0.5770	+	5.77
	10/19/99	0.3420	+	3.42
	2/2/00	0.0876	-	0.00
	6/15/00	0.2830	+	2.83
	7/6/00	0.5850	+	5.85
	8/23/00	1.4400	+	14.40
	1/16/01	0.1710	+	1.71
	6/12/01	0.2550	+	2.55
SL	1/19/99	0.1260	+	1.26
	6/10/99	0.0980	-	0.00
	7/13/99	0.1070	+	1.07
	8/11/99	0.2630	+	2.63
	9/16/99	0.4130	+	4.13
	10/19/99	0.3920	+	3.92
	2/2/00	0.1460	+	1.46
	6/15/00	0.2960	+	2.96
	7/6/00	0.2750	+	2.75
	6/12/01	ND	-	0.00

## Phosphorus Totals

Station	Total	# Detect	# Violations	Avg. Factor of Exceedence
BL	12	12	9	4.44
SL	10	9	8	2.52

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."



## Standards Cross-Check

## Surface Water

Sample Date From: 1/1/99 To: 12/31/01

Standard: OAR 340-41-0150 - Nuisance Phytoplankton Growth

Parameter Chlorophyll-a

Chlorophyll\_a\_AVG 0.015 mg/l

Station	Sample Date	Conc	Status	Exceedence Factor
BL	1/19/99	0.0112	-	0.00
	6/10/99	0.0348	+	2.32
	7/13/99	0.0270	+	1.80
	8/11/99	0.0537	+	3.58
	9/16/99	0.0488	+	3.25
	10/19/99	0.0347	+	2.31
	2/2/00	0.0190	+	1.27
	6/15/00	0.0149	-	0.00
	7/6/00	0.0505	+	3.37
	8/23/00	0.0689	+	4.59
	1/16/01	0.0220	+	1.47
	6/12/01	0.0929	+	6.19
	SL	1/19/99	0.0123	-
6/10/99		0.0224	+	1.49
7/13/99		0.0472	+	3.15
8/11/99		0.0575	+	3.83
9/16/99		0.0414	+	2.76
10/19/99		0.0461	+	3.07
2/2/00		0.0160	+	1.07
6/15/00		0.0088	-	0.00
7/6/00		0.0061	-	0.00
6/12/01		0.0433	+	2.89

## Chlorophyll-a Totals

Station	Total	# Detect	# Violations	Avg. Factor of Exceedence
BL	12	12	10	3.02
SL	10	10	7	2.61

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."

Sample Date From: 1/1/99 To: 12/31/01

Standard: All Basin pH Maximum

Station	Sample Date	Conc	Status	Exceedence Factor
BL	1/19/99	6.9400	-	0.00
	6/10/99	8.3700	-	0.00
	7/13/99	8.5900	+	1.01
	8/11/99	7.8200	-	0.00
	9/16/99	7.5400	-	0.00
	10/19/99	7.3200	-	0.00
	2/2/00	7.5500	-	0.00
	6/15/00	8.8000	+	1.04
	7/6/00	7.9400	-	0.00
	8/23/00	9.2300	+	1.09
	1/14/01	7.6700	-	0.00
	6/12/01	7.5000	-	0.00
SL	1/19/99	6.8800	-	0.00
	6/10/99	7.9700	-	0.00
	7/13/99	8.8200	+	1.04
	8/11/99	7.3700	-	0.00
	9/16/99	7.4300	-	0.00
	10/19/99	7.1000	-	0.00
	2/2/00	7.4700	-	0.00
	6/15/00	8.2200	-	0.00
	7/6/00	7.5100	-	0.00
	6/12/01	7.5300	-	0.00
<b>pH-field Totals</b>				
Station	Total	# Detect	# Violations	Avg. Factor of Exceedence
BL	12	12	3	1.04
SL	10	10	1	1.04

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."

Sample Date From: 1/1/99 To: 12/31/01

Standard: All Basin pH Minimum

Station	Sample Date	Conc	Status	Exceedence Factor
BL	1/19/99	6.9400	-	0.00
	6/10/99	8.3700	-	0.00
	7/13/99	8.5900	-	0.00
	8/11/99	7.8200	-	0.00
	9/16/99	7.5400	-	0.00
	10/19/99	7.3200	-	0.00
	2/2/00	7.5500	-	0.00
	6/15/00	8.8000	-	0.00
	7/6/00	7.9400	-	0.00
	8/23/00	9.2300	-	0.00
	1/14/01	7.6700	-	0.00
	6/12/01	7.5000	-	0.00
SL	1/19/99	6.8800	-	0.00
	6/10/99	7.9700	-	0.00
	7/13/99	8.8200	-	0.00
	8/11/99	7.3700	-	0.00
	9/16/99	7.4300	-	0.00
	10/19/99	7.1000	-	0.00
	2/2/00	7.4700	-	0.00
	6/15/00	8.2200	-	0.00
	7/6/00	7.5100	-	0.00
	6/12/01	7.5300	-	0.00
<b>pH-field Totals</b>				
Station	Total	# Detect	# Violations	Avg. Factor of Exceedence
BL	12	12	0	0.00
SL	10	10	0	0.00

Note: This report compares any selected data to the current value of selected standard, as opposed to the historical values, if any, which were effective at the time the data was collected. In the Status field, + means "value violates standard", - "value meets standard", and = "value equal to standard."

Metro

Smith and Bybee Lakes  
Chlorophyl-a (1999-2001)

Station	Parameter	Dat	Time	Conc	Dup Conc	MRL	Unit	Method
BL	Clorophl-a	1/19/99	10:30	0.0112		0.0001	mg/l	10200H
BL	Clorophl-a	6/10/99	09:00	0.0348	0.034	0.0001	mg/l	10200H
BL	Clorophl-a	7/13/99	12:30	0.027		0.0001	mg/l	10200H
BL	Clorophl-a	8/11/99	09:30	0.0537		0.0001	mg/l	10200H
BL	Clorophl-a	9/16/99	09:30	0.0488		0.0001	mg/l	10200H
BL	Clorophl-a	10/19/99	10:15	0.0347		0.0001	mg/l	10200H
BL	Clorophl-a	2/2/00	13:15	0.019	0.0135	0.0002	mg/l	10200H
BL	Clorophl-a	6/15/00	12:50	0.0149	0.0124	0.0002	mg/l	10200H
BL	Clorophl-a	7/6/00	12:45	0.0505		0.0002	mg/l	10200H
BL	Clorophl-a	8/23/00	12:30	0.0689		0.0002	mg/l	10200H
BL	Clorophl-a	1/16/01	10:15	0.022		0.0002	mg/l	10200H
BL	Clorophl-a	6/12/01	09:05	0.0929		0.0002	mg/l	10200H
SL	Clorophl-a	1/19/99	10:00	0.0123		0.0001	mg/l	10200H
SL	Clorophl-a	6/10/99	09:30	0.0224		0.0001	mg/l	10200H
SL	Clorophl-a	7/13/99	13:10	0.0472		0.0001	mg/l	10200H
SL	Clorophl-a	8/11/99	10:00	0.0575		0.0001	mg/l	10200H
SL	Clorophl-a	9/16/99	10:15	0.0414	0.0294	0.0001	mg/l	10200H
SL	Clorophl-a	10/19/99	09:30	0.0461		0.0001	mg/l	10200H
SL	Clorophl-a	2/2/00	14:00	0.016		0.0002	mg/l	10200H
SL	Clorophl-a	6/15/00	13:45	0.00881		0.0002	mg/l	10200H
SL	Clorophl-a	7/6/00	13:30	0.00613		0.0002	mg/l	10200H
SL	Clorophl-a	6/12/01	10:10	0.0433		0.0002	mg/l	10200H