LAKE OKEECHOBEE WATER SUPPLY BACKPUMPING AND WATER SUPPLY AUGMENTATION AFTER ACTION REPORT

September 2001

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Florida Department of Environmental Protection
by
Environmental Monitoring and Assessment Division
and
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SFWMD

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Table 1. September 1 - 21, 2001 Water Supply Backpumping and Water Supply Augmentation Summary.

STATION	Total Flow		Total Phosphorus (TP)		Total Nitrogen (TN)	
	cfs	acre-feet	loads (metric tons)	FWMC (ppb)	loads (metric tons)	FWMC (ppb)
S2	20640	40940	5.1	101	170.4	3375
S3	21787	43213	6.1	115	211.5	3968
CULV10A (L8)	11806	23417	2022.8	70	54.9	2008
S77	0	0	0.0	N/A	0.0	N/A
S308	9451	18746	8.1	351	38.0	1658
S4	1030	2043	0.5	185	8.3	3113
S352	0	0	0.0	N/A	0.0	N/A
sum	64714	128358	2043	12901	483	3051

All flow data are are preliminary estimations.
S2, S3, S4, and S352 loads are calculated using the auto sampler concentrations.
CULV10A, S77, and S308 loads are calculated interpolating grab concentrations.

Table 2a. Pump Operation Logs and Daily Flows at S2 for September 2001.

Date	(cfs)	acre-feet	Data Source	Pump Log
09/01/01	371.04	736	DCVP	Pump starts at 6 A.M., ends at 2 P.M.
09/02/01	367.92	730	DCVP	Pump starts at 6 A.M., ends at 2 P.M.
09/03/01	0.00	0	DCVP	Pump starts at 6 A.M., ends at 2 P.M.
09/04/01	369.96	734	DCVP	Pump starts at 6 A.M., ends at 2 P.M.
09/05/01	378.53	751	DCVP	Pump starts at 6 A.M., ends at 2 P.M.
09/06/01	1425.93	2828	DCVP	Pump starts at 6:20 A.M.
09/07/01	1119.04	2220	DCVP	(continued)
09/08/01	1127.13	2236	DCVP	(continued)
09/09/01	2154.89	4274	DCVP	(continued)
09/10/01	2229.26	4422	DCVP	(continued)
09/11/01	1984.46	3936	DCVP	(continued)
09/12/01	1705.89	3384	DCVP	(continued)
09/13/01	2023.90	4014	DCVP	(continued)
09/14/01	2525.41	5009	DCVP	(continued)
09/15/01	2070.89	4108	DCVP	(continued)
09/16/01	786.20	1559	DCVP	Pump ends at 2:30 P.M.
09/17/01	0.00	0	DCVP	(no pumping)
09/18/01	0.00	0	DCVP	(no pumping)
09/19/01	0.00	0	DCVP	(no pumping)
09/20/01	0.00	0	DCVP	(no pumping)
09/21/01	0.00	0	DCVP	(no pumping)
09/22/01	0.00	0	DCVP	(no pumping)
09/23/01	0.00	0	DCVP	(no pumping)
09/24/01	0.00	0	DCVP	(no pumping)
09/25/01	0.00	0	DCVP	(no pumping)
09/26/01	0.00	0	DCVP	(no pumping)
09/27/01	0.00	0	DCVP	(no pumping)
09/28/01	0.00	0	DCVP	(no pumping)
09/29/01	1086.96	2156	DCVP	(Flood control) Pump starts at 2:50 P.M
09/30/01	2741.45	5438	DCVP	(continued)
Sum	24469	48533		

note: Flow data are from DCVP estimations, which are provisional and subject to change, in the District's DBHYDRO Database.

Table 2b. Pump Operation Logs and Daily Flows at S3 for September 2001.

Date	(cfs)	acre-feet	Data Source	Pump Log
9/1/01	0.00	0	DCVP	(no pumping)
9/2/01	0.00	0	DCVP	(no pumping)
9/3/01	0.00	0	DCVP	(no pumping)
9/4/01	0.00	0	DCVP	(no pumping)
9/5/01	171.49	340	DCVP	Pump starts at 9:50 A.M., ends at 2 P.M.
9/6/01	545.68	1082	DCVP	Pump starts at 5:55 A.M., ends at 2 P.M.
9/7/01	357.80	710	DCVP	Pump starts at 5:38 A.M., ends at 2 P.M.
9/8/01	1105.57	2193	DCVP	Pump starts at 5:51 A.M.
9/9/01	1261.37	2502	DCVP	(continued)
9/10/01	2033.24	4033	DCVP	(continued)
9/11/01	1989.43	3946	DCVP	(continued)
9/12/01	1695.26	3362	DCVP	(continued)
9/13/01	1907.08	3783	DCVP	(continued)
9/14/01	2076.61	4119	DCVP	(continued)
9/15/01	1890.43	3750	DCVP	(continued)
9/16/01	994.58	1973	DCVP	(continued)
9/17/01	2011.78	3990	DCVP	(continued)
9/18/01	1568.16	3110	DCVP	(continued)
9/19/01	1044.99	2073	DCVP	(continued)
9/20/01	620.94	1232	DCVP	Pump ends at 2:31 P.M.
9/21/01	512.21	1016	DCVP	Pump starts at 5:59 A.M., ends at 1:52 P.M
9/22/01	0.00	0	DCVP	(no pumping)
9/23/01	0.00	0	DCVP	(no pumping)
9/24/01	0.00	0	DCVP	(no pumping)
9/25/01	0.00	0	DCVP	(no pumping)
9/26/01	0.00	0	DCVP	(no pumping)
9/27/01	0.00	0	DCVP	(no pumping)
9/28/01	0.00	0	DCVP	(no pumping)
9/29/01	656.11	1301	DCVP	(Flood control) Pump starts at 3:56 P.M
9/30/01	990.76	1965	DCVP	(continued)
Sum	23433	46480		

note: Flow data are from DCVP estimations, which are provisional and subject to change, in the District's DBHYDRO Database.

Table 3a. S2 Flow, Total Phosphorus, and Total Nitrogen Concentration and Loads for September 1 - 16, 2001 Backpumping Event

Date	Flow (acre-feet)	Total Phosphorus (TP)			Total Nitrogen (TN)		
		grab (mg/L)	composite (mg/L)	loads (1000kg)	grab (mg/L)	composite (mg/L)	loads (1000kg)
09/01/2001	371			0.121			2.666
09/02/2001	368			0.120			2.644
09/03/2001	0			0.000			0.000
09/04/2001	370			0.120			2.658
09/05/2001	379			0.123			2.720
09/06/2001	1426	0.057	0.133	0.464	2.333	2.937	10.246
09/07/2001	1119			0.203			7.578
09/08/2001	1127			0.204			7.633
09/09/2001	2155			0.390			14.593
09/10/2001	2229	0.090	0.074	0.404	2.974	2.768	15.097
09/11/2001	1984			0.486			17.901
09/12/2001	1706			0.417			15.388
09/13/2001	2024	0.107	0.1	0.495	3.478	3.687	18.257
09/14/2001	2525			0.735			24.881
09/15/2001	2071			0.603			20.403
09/16/2001	786	0.096	0.119	0.229	4.300	4.027	7.746
09/17/2001	0			0.000			0.000
09/18/2001	0			0.000			0.000
09/19/2001	0	0.101	0.171	0.000	4.237	4.746	0.000
09/20/2001	0			0.000			0.000
09/21/2001	0			0.000			0.000
09/22/2001	0			0.000			0.000
(10/01/2001)		0.139	0.216		6.285	7.630	
Sum	48533			5			170

note: All flow data are provisional estimations.
note: Loads are calculated using the auto sampler concentrations, which are flow proportional composite samples.

Table 3b. S3 Flow, Total Phosphorus, and Total Nitrogen Concentration and Loads for September 5 - 21, 2001 Backpumping Event.

Date	Flow (acre-feet)	Total Phosphorus (TP)			Total Nitrogen (TN)		
		grab (mg/L)	composite (mg/L)	loads (1000kg)	grab (mg/L)	composite (mg/L)	loads (1000kg)
09/01/2001	0			0.000			0.000
09/02/2001	0			0.000			0.000
09/03/2001	0			0.000			0.000
09/04/2001	0			0.000			0.000
09/05/2001	340			0.212			2.451
09/06/2001	1082	0.088	0.506	0.676	2.482	5.841	7.798
09/07/2001	710			0.090			2.600
09/08/2001	2193			0.279			8.033
09/09/2001	2502			0.318			9.166
09/10/2001	4033	0.088	0.103	0.512	4.056	2.97	14.774
09/11/2001	3946			0.467			20.413
09/12/2001	3362			0.398			17.395
09/13/2001	3783	0.113	0.096	0.448	4.516	4.194	19.568
09/14/2001	4119			0.447			20.673
09/15/2001	3750			0.407			18.819
09/16/2001	1973	0.101	0.088	0.214	6.011	4.069	9.901
09/17/2001	3990			0.591			22.075
09/18/2001	3110			0.460			17.207
09/19/2001	2073	0.065	0.12	0.307	3.816	4.485	11.467
09/20/2001	1232			0.160			5.012
09/21/2001	1016			0.132			4.134
09/22/2001	0			0.000		3.299	0.000
(10/02/2001)			0.21				
Sum	43213			6			211

note: All flow data are provisional estimations.
note: Loads are calculated using the auto sampler concentrations, which are flow proportional composite samples.

Table 4. Water Quality Data Summary at S2 for September 1 -21, 2001.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	5	26.5	30.5	28.1	1.7	
Specific Conductivity (µmhos/cm)	5	918	1185	1065	106	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	5	2.2	7.0	3.5	2.1	Not less than 5.0 mg/L
Water pH (units)	5	7.2	7.6	7.3	0.2	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	5	3.0	17.3	9.7	5.6	Less than or equal to 29 NTU above background
Color (PCU)	5	105	144	125	19	
Total Suspended Solids (mg/L)	5	4.2	19.6	13.2	6.5	
Total Dissolved Solids (mg/L)	4	543.0	764.0	684.0	99.1	
Alkalinity (mg/L as CaCO3)	5	219.7	350.7	299.8	56.3	
Nutrients						
Total Nitrogen (mg/L)	5	2.3	4.3	3.5	0.8	
Total Kjeldahl Nitrogen (mg/L)	5	2.2	3.2	2.8	0.4	
Total Dissolved Kjeldahl Nitrogen (mg/L)	4	1.9	3.0	2.6	0.5	
Nitrate+Nitrite as N (mg/L)	5	0.149	1.073	0.665	0.400	
Nitrite as N (mg/L)	5	0.014	0.082	0.052	0.031	
Nitrate as N(mg/L)	5	0.135	0.994	0.613	0.371	Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	5	0.230	0.458	0.338	0.110	
Un-ionized Ammonia as NH_3 (mg/L)	5	0.004	0.008	0.006	0.002	Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	5	0.057	0.107	0.090	0.020	
Orthophosphate as P (mg/L)	5	0.034	0.075	0.053	0.017	
Total Dissolved Phosphorus (mg/L)	4	0.035	0.076	0.058	0.019	
Silica (mg/L)	4	16.231	22.040	18.095	2.661	
Major Ions						
Chloride (mg/L)	5	103.550	116.640	110.014	4.738	Equal or less than 250 mg/L
Sulfate (mg/L)	4	36.060	88.370	70.890	23.705	
Phytoplankton Indicators						
Chlorophyll a (µg/L)	4	4.4	49.3	17.2	21.5	
Chlorophyll a2 (µg/L)	4	2.8	40.5	12.9	18.4	
Chlorophyll b (µg/L)	4	<1	<1	<1		
Chlorophyll c (µg/L)	4	<1	3.7	1.9	1.7	
Pheophytin a (µg/L)	4	2.5	11.9	6.3	4.0	
Carotenoid (µg/L)	4	2.9	16.9	7.4	6.4	
Total Organic Carbon (mg/L)	4	29.7	44.9	38.9	7.3	
Dissolved Organic Carbon (mg/L)	4	30.2	43.8	38.6	6.4	

Table 5. Water Quality Data Summary at S3 for September 1 - 21, 2001 Backpumping Events.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	5	26.0	30.3	27.5	1.7	
Specific Conductivity (µmhos/cm)	5	730	946	836	101	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	5	2.2	4.1	3.2	0.8	Not less than 5.0 mg/L
Water pH (units)	5	7.1	7.5	7.3	0.2	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	5	4.7	17.6	11.9	6.1	Less than or equal to 29 NTU above background
Color (PCU)	5	109	173	139	25	
Total Suspended Solids (mg/L)	5	7.0	26.0	16.6	7.7	
Total Dissolved Solids (mg/L)	4	453.0	606.0	524.0	62.8	
Alkalinity (mg/L as CaCO3)	5	198.5	270.3	237.5	27.3	
Nutrients						
Total Nitrogen (mg/L)	5	2.5	6.0	4.2	1.3	
Total Kjeldahl Nitrogen (mg/L)	5	2.4	3.1	2.9	0.3	
Total Dissolved Kjeldahl Nitrogen (mg/L)	4	1.6	2.9	2.4	0.6	
Nitrate+Nitrite as N (mg/L)	5	0.049	2.926	1.307	1.043	
Nitrite as N (mg/L)	5	0.007	0.111	0.060	0.040	
Nitrate as N (mg/L)	5	0.042	2.815	1.247	1.006	Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	5	0.067	0.468	0.249	0.175	
Un-ionized Ammonia as NH_3 (mg/L)	5	0.002	0.005	0.003	0.001	Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	5	0.065	0.113	0.091	0.018	
Orthophosphate as P (mg/L)	5	0.017	0.074	0.045	0.026	
Total Dissolved Phosphorus (mg/L)	4	0.020	0.083	0.055	0.029	
Silica (mg/L)	4	8.120	17.771	11.434	4.499	
Major Ions						
Chloride (mg/L)	5	65.560	103.870	84.436	15.784	Equal or less than 250 mg/L
Sulfate (mg/L)	4	18.270	70.440	47.818	21.677	
Phytoplankton Indicators						
Chlorophyll a (µg/L)	4	4.8	13.4	8.0	3.9	
Chlorophyll a2 (µg/L)	4	3.3	6.9	4.7	1.7	
Chlorophyll b (µg/L)	4	<1	<1	<1		
Chlorophyll c (µg/L)	4	<1	4.3	1.5	1.9	
Pheophytin a (µg/L)	4	2.3	10.2	5.1	3.6	
Carotenoid (µg/L)	4	3.1	8.0	4.8	2.3	
Total Organic Carbon (mg/L)	4	29.2	42.3	37.2	5.7	
Dissolved Organic Carbon (mg/L)	4	29.4	41.2	36.7	5.2	

Table 6. Water Quality Data Summary at S4 for September 1 through 21, 2001.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	3	5.0	28.8	19.7	12.9	
Specific Conductivity (µmhos/cm)	3	810	1136	962	164	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	3	2.5	9.7	5.0	4.0	Not less than 5.0 mg/L
Water pH (units)	3	7.3	7.7	7.5	0.2	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	1			1.9		Less than or equal to 29 NTU above background
Color (PCU)	1			222		
Total Suspended Solids (mg/L)	1			2.0		
Alkalinity (mg/L as CaCO3)	1			174.0		
Nutrients						
Total Nitrogen (mg/L)	3	2.3	3.3	2.8	0.5	
Total Kjeldahl Nitrogen (mg/L)	3	2.1	2.7	2.4	0.3	
Nitrate+Nitrite as N (mg/L)	3	0.207	0.554	0.385	0.174	
Nitrite as N (mg/L)	1			0.161		
Nitrate as N (mg/L)	1			0.046		Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	3	0.015	0.606	0.284	0.299	
Un-ionized Ammonia as NH_3 (mg/L)	3	0.000	0.008	0.004	0.004	Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	3	0.110	0.154	0.131	0.022	
Orthophosphate as P (mg/L)	1			0.117		
Major Ions						
Chloride (mg/L)	1			99.490		Equal or less than 250 mg/L

Table 7. Water Quality Data Summary at S77 for September 1 through 21, 2001.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	1			28.2		
Specific Conductivity (µmhos/cm)	1			247		Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	1			2.1		Not less than 5.0 mg/L
Water pH (units)	1			6.6		Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	1			2.0		Less than or equal to 29 NTU above background
Color (PCU)	1			302		
Total Suspended Solids (mg/L)	1			2.4		
Alkalinity (mg/L as CaCO3)	1			42.8		
Nutrients						
Total Nitrogen (mg/L)	3	1.9	2.9	2.2	0.5	
Total Kjeldahl Nitrogen (mg/L)	3	1.8	2.6	2.1	0.4	
Nitrate+Nitrite as N (mg/L)	3	0.033	0.3	0.144	0.139	
Nitrite as N (mg/L)	1			0.005		
Nitrate as N (mg/L)	1			0.095		Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	3	0.117	1.013	0.469	0.478	
Un-ionized Ammonia as NH_3 (mg/L)	1			0.001		Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	3	0.202	0.225	0.213	0.012	
Orthophosphate as P (mg/L)	1			0.174		
Major Ions						
Chloride (mg/L)	1			36.600		Equal or less than 250 mg/L

Table 8. Water Quality Data Summary at CULV10A (L8) for September 1 through 21, 2001.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	1			29.7		
Specific Conductivity (µmhos/cm)	1			1717		Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	1			7.7		Not less than 5.0 mg/L
Water pH (units)	1			8.3		Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	1			13.2		Less than or equal to 29 NTU above background
Color (PCU)	1			145		
Total Suspended Solids (mg/L)	1			29.2		
Alkalinity (mg/L as CaCO3)	1			318.9		
Nutrients						
Total Nitrogen (mg/L)	3	1.4	5.5	4.1	2.4	
Total Kjeldahl Nitrogen (mg/L)	3	1.3	5.5	3.8	2.2	
Nitrate+Nitrite as N (mg/L)	3	0.013	0.995	0.350	0.559	
Nitrite as N (mg/L)	1			0.007		
Nitrate as N (mg/L)	1			0.006		Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	3	<0.009	1.610	0.612	0.871	
Un-ionized Ammonia as NH_3 (mg/L)	1			0.042		Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	3	0.127	0.421	0.248	0.154	
Orthophosphate as P (mg/L)	1			0.022		
Major Ions						
Chloride (mg/L)	1			271.280		Equal or less than 250 mg/L

Table 9. Water Quality Data Summary at S308 for September 1 through 21, 2001.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	1			26.8		
Specific Conductivity (µmhos/cm)	1			516		Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	1			3.7		Not less than 5.0 mg/L
Water pH (units)	1			7.1		Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	1			5.3		Less than or equal to 29 NTU above background
Color (PCU)						
Total Suspended Solids (mg/L)	1			5.6		
Alkalinity (mg/L as CaCO3)	1			121.6		
Nutrients						
Total Nitrogen (mg/L)	3	1.5	1.9	1.6	0.2	
Total Kjeldahl Nitrogen (mg/L)	3	1.3	1.6	1.4	0.2	
Nitrate+Nitrite as N (mg/L)	3	0.150	0.311	0.237	0.081	
Nitrite as N (mg/L)	1	0.035	0.035	0.035		
Nitrate as N (mg/L)	1	0.214	0.214	0.214		Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	3	0.189	0.279	0.223	0.049	
Un-ionized Ammonia as NH_3 (mg/L)	1			0.002		Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	3	0.281	0.456	0.342	0.099	
Orthophosphate as P (mg/L)	1			0.236		
Major Ions						
Chloride (mg/L)	1			60.430		Equal or less than 250 mg/L

Table 10. Water Quality Data Summary at CULV10A (L8) for September 1 through 21, 2001.

Parameters	n	min	max	avg	S.D.	FAC 62-302 Class I Criteria
Physical						
Temperature (°C)	2	27.7	27.9	27.8		
Specific Conductivity (µmhos/cm)	2	638	968	803		Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	2	1.5	1.8	1.7		Not less than 5.0 mg/L
Water pH (units)	2	7.0	7.3	7.1		Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	2	3.3	8.0	5.6		Less than or equal to 29 NTU above background
Color (PCU)	2	174	219	197		
Total Suspended Solids (mg/L)	2	4.6	16.0	10.3		
Alkalinity (mg/L as CaCO3)	2	143.1	205.2	174.2		
Nutrients						
Total Nitrogen (mg/L)	4	1.5	2.4	2.0	0.4	
Total Kjeldahl Nitrogen (mg/L)	4	1.5	2.3	1.9	0.4	
Nitrate+Nitrite as N (mg/L)	4	0.018	0.113	0.080	0.043	
Nitrite as N (mg/L)	2	0.013	0.021	0.017		
Nitrate as N (mg/L)	2	0.090	0.092	0.091		Equal or less than 10 mg/L as N
Ammonium as N (mg/L)	4	0.072	0.203	0.159	0.062	
Un-ionized Ammonia as NH_3 (mg/L)	2	0.002	0.003	0.002		Equal or less than 0.02 mg/L as NH_3
Total Phosphorus (mg/L)	4	0.053	0.093	0.074	0.020	
Orthophosphate as P (mg/L)	2	0.035	0.052	0.043		
Major Ions						
Chloride (mg/L)	2	88.760	143.320	116.040		Equal or less than 250 mg/L

Table 11. Ultra-Trace Mercury Data for August 2001 Backpumping Events.

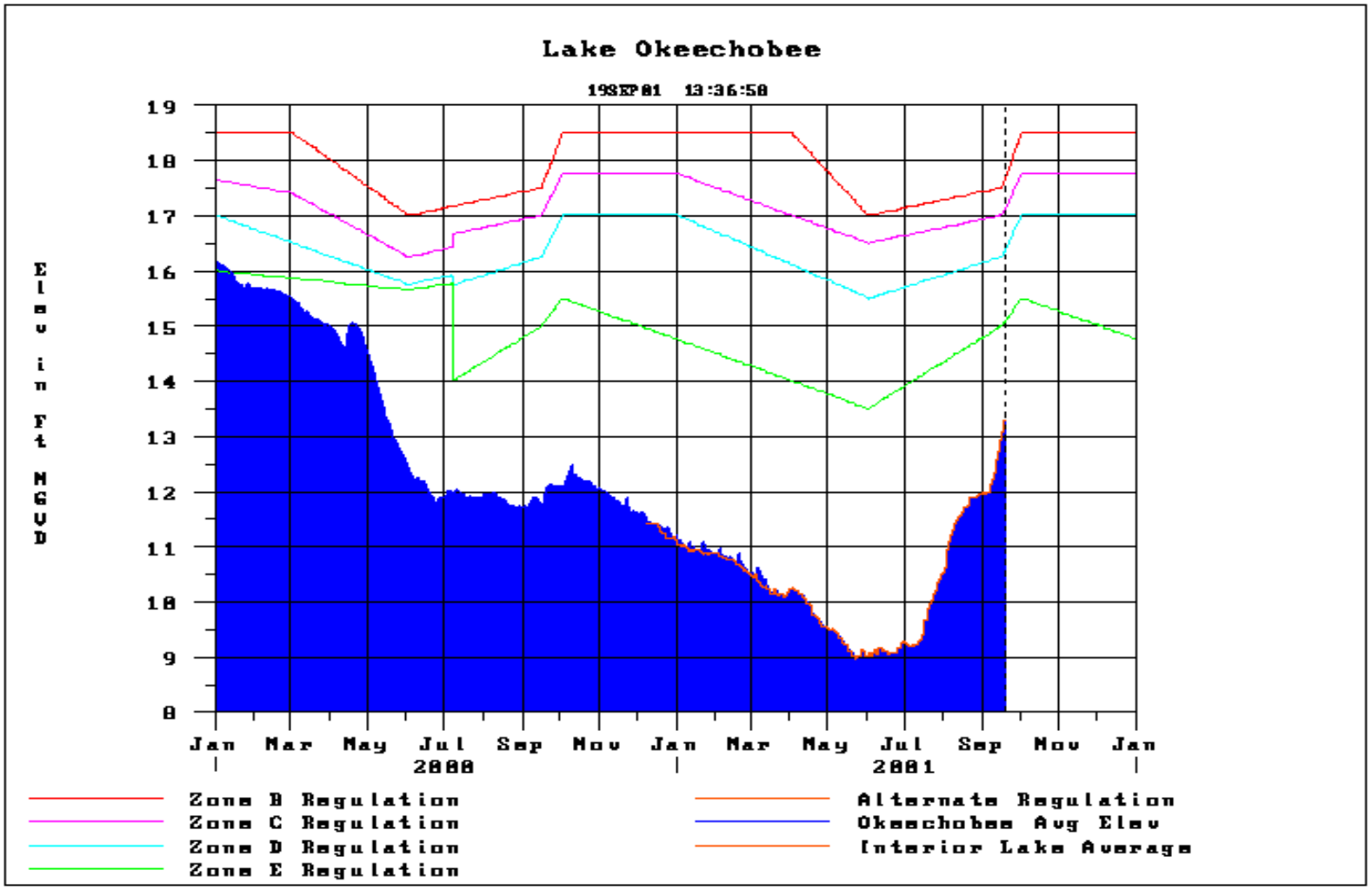
units in nannogram/L

STATION	DATE	Total Mercury (THG)	Total Methyl Mercury (TMHG)
S2	8/2/01	0.367	N/A
S2DOWN	8/2/01	0.300	3.29
S352	8/5/01	0.798	4.75
CULV10A	8/14/01	1.690	5.56

Table 12. September 2001 Daily Lake Stage and Rainfall for Lake Okeechobee and Vicinity.

Stage: COE Data. Average-daily lake average. In feet-NGVD.
Rainfall: SFWMD Provisional 24-Hour Rainfall In Inches
Ending 7am EST (8am EDT) On The Indicated Date

DATE	STAGE (feet)	BASIN 24-HOUR RAINFALL (inchs)							
		EAA West	EAA East	Lake Okeechobee	Upper Kissimmee	Lower Kissimmee	East Caloos.	Martin St.Lucie County	Palm Beach County
1-Sep-01	11.96	0.00	0.00	0.01	0.22	0.13	0.11	0.00	0.01
2-Sep-01	11.99	0.31	0.09	0.10	0.03	0.12	0.57	0.13	0.07
3-Sep-01	11.97	0.01	0.00	0.00	0.43	0.00	0.04	0.00	0.00
4-Sep-01	11.98	1.23	0.58	0.20	0.12	0.10	0.40	0.19	0.12
5-Sep-01	11.98	0.14	0.50	0.28	0.25	0.20	0.35	0.13	0.24
6-Sep-01	11.98	0.05	0.17	0.17	0.37	0.37	0.31	0.08	0.17
7-Sep-01	12.02	0.25	0.18	0.33	1.61	0.90	0.69	0.65	0.57
8-Sep-01	12.13	0.96	0.34	1.15	1.98	2.30	0.40	1.05	0.39
9-Sep-01	12.22	1.10	0.88	1.50	0.37	0.86	0.70	0.57	1.13
10-Sep-01	12.34	0.69	0.41	0.62	0.35	0.30	0.43	0.42	0.22
11-Sep-01	12.45	0.30	0.54	0.28	0.20	0.09	0.38	0.03	0.23
12-Sep-01	12.57	0.25	0.26	0.32	0.47	0.30	0.43	1.18	1.16
13-Sep-01	12.71	0.76	0.72	0.88	0.23	0.45	1.11	1.08	2.84
14-Sep-01	12.87	1.13	1.05	1.45	1.63	1.54	2.77	1.54	2.46
15-Sep-01	12.93	0.80	0.47	0.40	1.47	0.58	0.22	0.24	0.24
16-Sep-01	13.09	0.01	0.00	0.01	0.07	0.06	0.02	0.00	0.00
17-Sep-01	13.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Sep-01	13.30	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.01
19-Sep-01	13.39	0.16	0.00	0.00	0.00	0.00	0.07	0.00	0.00
20-Sep-01	13.47	0.01	0.01	0.09	0.03	0.04	0.04	0.00	0.00
21-Sep-01	13.56	0.00	0.00	0.01	0.04	0.13	0.00	0.02	0.00
22-Sep-01	13.64	0.02	0.00	0.00	0.64	0.13	0.01	0.00	0.00
23-Sep-01	13.69	0.07	0.02	0.00	0.21	0.01	0.00	0.00	0.00
24-Sep-01	13.75	0.16	0.23	0.11	0.03	0.07	0.00	0.06	0.08
25-Sep-01	13.79	0.49	0.15	0.10	0.24	0.32	0.08	0.28	0.30
26-Sep-01	13.83	0.00	0.06	0.11	0.22	0.28	0.05	0.12	0.67
27-Sep-01	13.88	0.35	1.02	0.33	0.03	0.34	0.46	0.76	0.55
28-Sep-01		0.44	0.32	0.18	0.26	0.34	0.36	0.20	0.77
29-Sep-01	14.06	3.06	2.34	0.84	0.05	0.56	1.49	0.94	2.26
30-Sep-01	14.11	0.08	0.33	0.15	0.20	0.10	0.11	0.41	0.66
sum	**N/A**	**12.88**	**10.71**	**9.62**	**11.75**	**10.62**	**11.60**	**10.08**	**15.15**


Lake Okeechobee
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Zone C Regulation
Zone D Regulation
Zone E Regulation
Alternate Regulation
Okeechobee Avg Elev
Interior Lake Average