

WA-13-0030

TO: Ron Pine

FROM: Hans Cregg

SUBJECT: Capitol Lake Draining Operation

DATE: August 26, 1975

State of
Washington
Department
of Ecology



The recent draining of Capitol Lake initiated the short term monitoring program on August 13, 1975. It was felt the draining operation might have an adverse effect on the D.O. level of the southern most tip of Budd Inlet.

In addition to dissolved oxygen, the parameters of pH, conductivity and temperature were also monitored. The results obtained are listed below by date.

August 13, 1975

TIME	D.O.	COND	pH	TEMP. °C	CORRECTED D.O.
1020	5.0	35K	7.4	15.0	4.4
1030	4.9	36K	7.4	15.0	4.3
1040	4.9	36K	7.4	15.0	4.3
1050	5.2	36K	7.4	15.0	4.5
1100	4.9	37K	7.4	15.0	4.2
1110	4.8	37K	7.4	15.0	4.2
1120	4.7	37K	7.4	15.0	4.0
1130	4.7	36K	7.4	15.0	4.1
1410	5.3	29K	7.5	16.0	4.8
1420	5.2	30K	7.4	16.0	4.7
1430	5.2	29K	7.4	16.0	4.7
1440	5.2	29K	7.4	16.0	4.7
1450	5.1	30K	7.4	16.0	4.6
1500	5.2	29K	7.4	16.0	4.7
1510	5.1	29K	7.4	16.0	4.6
1520	5.2	30K	7.4	16.0	4.7
1530	5.2	30K	7.4	16.0	4.7

Memo to Ron Pine
 Page 2
 August 26, 1975

August 14, 1975

TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.
1030	7.2	24K	7.6	17.5	6.6
1040	7.5	22K	7.6	17.5	6.9
1055	6.0	27K	7.4	16.0	5.4
1105	5.7	32K	7.4	15.5	5.1
1115	7.1	22K	7.5	17.5	6.6
1125	7.0	22K	7.5	18.0	6.5
1405	5.2	38K	7.4	16.0	4.5
1415	4.6	37K	7.3	16.0	4.0
1425	6.2	31K	7.3	16.5	5.5
1435	6.6	30K	7.4	17.0	5.9
1445	7.5	25K	7.5	18.0	6.8
1455	7.2	20K	7.5	18.5	6.7
1505	7.0	19K	7.5	18.5	6.5
1515	7.8	16K	7.6	19.0	7.4
1525	7.8	15K	7.6	20.0	7.4

August 15, 1975

SURFACE READINGS

TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.
1335	6.8	30K	7.4	14.5	6.0
1345	6.9	31K	7.4	14.5	6.1
1355	7.0	32K	7.5	14.5	6.2
1405	7.1	31K	7.4	14.5	6.3
1415	7.0	31K	7.4	14.5	6.2
1425	6.5	33K	7.4	14.5	5.7
1435	6.8	31K	7.4	14.5	6.0

1 1/2 METERS BELOW SURFACE

TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.
1335	4.5	41K	7.4	14.5	3.8
1345	4.3	42K	7.4	14.5	3.6
1355	4.6	42K	7.4	14.5	3.9
1405	4.3	42K	7.4	14.5	3.6
1415	4.0	42K	7.4	14.5	3.4
1425	4.0	42K	7.4	14.5	3.4
1435	4.0	42K	7.4	14.5	3.4

Memo to Ron Pine
 Page 3
 August 26, 1975

SURFACE READING			<u>August 21, 1975</u>			
TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.	
1100	0.2	40K	7.2	16.0	0.2	
1110	5.0	26K	7.2	16.0	4.5	
1120	2.8	42K	7.3	15.0	2.4	
1130	2.2	32K	7.1	16.0	1.9	
1140	4.2	28K	7.2	16.0	3.8	
1150	4.5	28K	7.2	15.5	4.0	
1200	4.4	26K	7.2	16.0	4.0	
1250	4.1	27K	7.2	16.5	3.7	
1300	4.1	28K	7.2	16.0	3.7	
1315	3.7	29K	7.2	16.0	3.3	
1325	3.5	29K	7.2	16.0	3.1	
1335	0.9	33K	7.2	16.0	0.8	
1345	0.2	31K	7.2	16.0	0.2	
1355	2.9	30K	7.1	16.0	2.6	
1405	2.2	32K	7.2	16.0	1.9	

1 1/2 METERS BELOW SURFACE

TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.
1100	0.9	44K	7.2	14.5	0.8
1110	2.2	43K	7.2	15.0	1.8
1120	1.5	44K	7.3	15.0	1.3
1130	2.0	43K	7.2	15.0	1.7
1140	1.5	44K	7.3	15.0	1.3
1150	1.4	44K	7.3	15.0	1.2
1200	0.2	41K	7.0	15.0	0.2
1250	0.2	40K	7.0	16.0	0.2
1300	0.6	44K	7.2	14.5	0.5
1315	0.6	44K	7.2	14.5	0.5
1325	0.5	44K	7.2	14.5	0.4
1335	0.5	44K	7.2	14.5	0.4
1345	0.4	41K	7.2	14.5	0.3
1355	0.2	43K	7.2	14.5	0.2
1405	0.2	44K	7.2	14.0	0.2

Memo to Ron Pine
Page 4
August 26, 1975

August 25, 1975

SURFACE READING

TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.
1010	5.0	44K	7.5	14.0	4.2
1020	4.5	42K	7.5	14.0	3.8
1030	4.7	43K	7.5	14.0	4.0
1040	4.6	43K	7.5	14.0	3.9
1050	4.5	43K	7.5	14.0	3.8
1100	4.4	43K	7.5	14.0	3.7
1110	4.4	43K	7.5	14.0	3.7
1120	4.4	43K	7.4	14.0	3.7

1 1/2 METERS BELOW SURFACE

TIME	D.O.	COND	pH	TEMP °C	CORRECTED D.O.
1010	5.2	44K	7.5	14.0	4.4
1020	5.2	44K	7.5	14.0	4.4
1030	4.9	43K	7.5	14.0	4.1
1040	4.7	44K	7.5	14.0	3.9
1050	4.5	43K	7.5	14.0	3.8
1100	4.5	43K	7.5	14.0	3.8
1110	4.5	44K	7.4	14.0	3.8
1120	4.5	44K	7.4	14.0	3.8