

## Office Memorandum • OREGON STATE BOARD OF HEALTH

To : Quan

Date: DEC. 29, 1971

From : Mac

Subject:

|      |    |
|------|----|
| File | 6  |
|      | 11 |

Smith Lake (bottom)

All three bottom samples were nearly identical. All contained large amounts of tubes of Leptothrix discophorus (= Sphaerotilus discophorus),

● a common iron bacterium. Also present were the live diatoms:

Melosira granulata

"

"

var. angustissima

"

"

var

"

forma spiralis

These are very common ~~pond~~ b-mesosaprobic planktonic diatoms, abundant both winter and summer in the Willamette river and other moderately enriched situations. There is no evidence of

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pollution. Also, many frustules of dead diatoms.

(top water) This contained only a few Melosira granulata var. angustissima and M. g. ~~g.~~ var. ang. forma spinalis filaments. No evidence of pollution.

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Bybee Lake (bottom)

Samples # 1 and # 2 were nearly identical. Live diatoms included:

Melosira granulata

"

"

var.

~~angustissima~~  
angustissima

"

"

var.

"

foma  
spinalisMelosira variansPinnularia sp.Navicula sp.

These species are very common in moderately enriched waters, often being dominant. There is no indication that pollution is present. b-mesosaprobic

Also present was Euglena alberti,

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about which nothing is known. A large amount of fine, transparent flocculent material, probably decomposed organic matter was present. Many frustules of dead diatoms occurred, of species common in the Willamette river.

(top) The only live organisms in the top water samples were a few filaments of the Melobesia granulata subspecies mentioned above. No evidence of pollution.

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In general, both lakes differed from the Willamette river only in that a greater variety of plankton is usually found in the river.

## DEPARTMENT OF ENVIRONMENTAL QUALITY

## SPECIAL SURVEY DATA SHEET

Location: Smith Lake Date: 12-29-71 Date Received (Lab): 12/30/71  
 Collected by: CHG - PHR Weather: Snow Date Reported: \_\_\_\_\_  
 Purpose: Bottom sediments

## FIELD INFORMATION

| Lab. No. | SAC Bottle No. |          | pH | Temp. | Cl. | Flow | Description | Tests Req'd                                                                       |
|----------|----------------|----------|----|-------|-----|------|-------------|-----------------------------------------------------------------------------------|
|          | DO             | Sal      |    |       |     |      |             |                                                                                   |
| ✓        | 1              | W<br>838 |    |       |     |      |             | BOD, COD, T.V.S, NO <sub>3</sub> , P <sub>4</sub> ,<br>Fe, Mn, Zn, Pb, Cr, Cu, Hg |
|          | 2              | W<br>894 |    |       |     |      |             | "                                                                                 |
|          | 3              | 1058     |    |       |     |      |             | "                                                                                 |
|          |                |          |    |       |     |      |             |                                                                                   |

## LAB. RESULTS

| Lab. No. | Lab. pH | DO | BOD Results | Susp. Solids |    |  |  |  |  |  |  |
|----------|---------|----|-------------|--------------|----|--|--|--|--|--|--|
|          |         |    |             | ml           | SS |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |

## DEPARTMENT OF ENVIRONMENTAL QUALITY

## SPECIAL SURVEY DATA SHEET

Location: Bybee Lake Date: 12-29-71 Date Received (Lab): 12/30/71  
Collected by: CHG-PHR Weather: SNOW Date Reported: \_\_\_\_\_  
Purpose: Bottom sediments

## FIELD INFORMATION

| Lab. No. | Bottle No. |          | pH | Temp. | Cl <sub>2</sub> | Flow | Description | Tests Req'd                                                                         |
|----------|------------|----------|----|-------|-----------------|------|-------------|-------------------------------------------------------------------------------------|
|          | DO         |          |    |       |                 |      |             |                                                                                     |
|          | 1          | W<br>8   |    |       |                 |      |             | BOD, COD, T.V.S., NO <sub>3</sub> , NO <sub>2</sub> ,<br>Fe, Mn, Zn, Pb, Cr, Cu, Hg |
|          | 2          | W<br>810 |    |       |                 |      |             | 11                                                                                  |
|          |            |          |    |       |                 |      |             |                                                                                     |
|          |            |          |    |       |                 |      |             |                                                                                     |

## LAB. RESULTS

| Lab. No. | Lab. pH | DO | BOD Results | Susp. Solids |    |  |  |  |  |  |  |
|----------|---------|----|-------------|--------------|----|--|--|--|--|--|--|
|          |         |    |             | ml           | SS |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |
|          |         |    |             |              |    |  |  |  |  |  |  |