MEMORANDUM

TO A.P. Kohut
logical Engineer
Groundwater Section
Hydrology Division
Water Investigations Branch

PROM W. S. Hodge,
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May 21 19.76

BUBJECT Groundwater Chemistry in Cordova Bay Area

OUR FILE 02390/3

YOUR FILE.

A Water analysis survey was carried out during April 20, 1976 and April 23, 1976 and was centered around the abandoned Cordova Bay Municipal Wells. This survey included the recording of Conductivity and temperatures at various spring locations between the east shore of Elk Lake and Cordova Bay. Results of these analyses are below and expressed in units of milligrams per litre (parts per million) wherever possible. #1, #6, #9 wells have now been incorporated into the Observation Well Network and have been designated (WR) numbers.

#1 well - WR 122-76 (Abandoned Cordova Bay Municipal well)
X3 Y19 D.L. 33, Lake District

Original Depth = 55'
Plumbed Depth = 52.2' (April 20, 1976)
Static Level = 11.05 (April 20, 1976) 3.36 metros
Ph = 6.7
Cond. = 215.
Temp. = 10.3°C
Iron = 5.0 ppm
Hardness = 102.6 ppm

Note - Well was pumped for approximately 1 hour and sampled for complete water chemistry analysis - May 17, 1976

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#6 well - WR 123-76 (Abandoned Cordova Bay Municipal well)
          X3 Y19 D.L. 33, Lake District
                Original Depth = 54.0'
                Plumbed Depth = 53.7' (April 20, 1976)
Static Level = 7.95 (April 20, 1976) 2.42 milion
                                = 7.0
                Ph
                                = 550
                Cond.
                                = 10.9^{\circ}C
                Temp.
                Iron
                                = 205.2
                Hardness
Note - Well was pumped for approximately 1 hour and sampled
       for complete water chemistry analysis
#9 well - WR 124-76 (Abandoned Cordova Bay Municipal well)
              Y19 D.L. 33, Lake District
                Original Depth = 107.00
                Plumbed Depth = 104.20 (April 20, 1976)
                               = 54.05 (April 20, 1976) 16 47 metres
= 7.7
                Static Level
                Ph
                Cond.
                                = 300.
                                = 10.7^{\circ}C
                Temp.
                                =
                                    2.1
                Iron
                Hardness
                               = 119.7
Trio Ready Mix Well (#1 Well X4 Y19 D.L. 42, Lake District)
                                = 651
                Well Depth
                                = 51' (April 20, 1976)
                Static Level
                                = 6.7
                                = 50
                Cond.
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Note - Water used for gravel pit operations.

Temp. Iron Hardness

Conductivity and temperature readings were taken during April 23, 1976 at various spring locations in the Cordova Bay Area. Values have been plotted on the accompanying map.

W. S. Hodge.

N. T. Lomas

WSH/dmc Attach.

