CANADA BRITISH COLUMBIA – OKANAGAN BASIN AGREEMENT

# PRELIMINARY REPORT NO. 30

**(SUBJECT TO REVISION)**

## Stream Quality Study

**PREPARED FOR THE**

**OKANAGAN STUDY COMMITTEE**

CANADA - BRITISH COLUMBIA OKANAGAN BASIN AGREEMENT

TASK 131

# Stream Quality Study

by

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Western Region Water Quality Subdivision

Inland Waters Branch

Department of the Environment

Calgary, Alberta

October, 1971

Appendix I Supplied

by

B.C. Pollution Control Branch

Water Resources Service

Province of British Columbia

NOTICE

This report was prepared for the Okanagan Study Committee under the terms of the Canada-British Columbia Okanagan Basin Agreement. The information contained in this report is preliminary and subject to revision. The Study Committee does not necessarily concur with opinions expressed in the report.

Office of the Study Director
Box 458, Penticton, B.C.

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CONTENTS

## ABSTRACT

This report outlines the procedures and methods used to measure the existing water quality condition of major streams within the Okanagan Basin. Samples taken over a two year period at 41 locations were analysed for physical, inorganic and organic constituents.

All analytical results were summarized as to the number of samples taken and the maximum, minimum, mean and range of each parameter measured.

ADDENDUM TO REPORT

Task 131 - Stream Quality Study

The sampling and analysis of stream water samples as outlined in this report were carried out for the Canada - British Columbia Okanagan Basin Study under the direction of the Pollution Control Branch, Water Resources Service, Province of British Columbia, the agency responsible for stream quality studies.

All analytical results were forwarded to the Pollution Control Branch for compilation of loading rates under Task 105, "Estimate of Present Loadings for Nutrients and Other Parameters to the Okanagan Lake System." A statistical summary of the analytical results are included in Appendix I of this report.

Provision has been made to store the analytical results on both Provincial and Federal Water quality data banks.

Don Corrigan, P. Eng. Pollution Control Branch

September 26, 1972

# PREFACE

In anticipation of the signing of the Canada-British Columbia Okanagan Basin Agreement an ad hoc committee of Federal and Provincial Agencies interested in the Okanagan lakes system was formed in April, 1969.

The committee met on April 15, 1969 and generally accepted that the task before them was to review in a very general way the existing programs being carried out in the Okanagan, to discuss the resources of the various agencies that may participate in an overall study, and to make recommendations.

In view of the great number of involvements by both Federal and Provincial agencies in the Okanagan on work presently being undertaken and on work that may be undertaken in the future, the committee felt it was prudent at this time to recommend that:

1. Three sub-committees be established immediately as follows:

   Sub-committee No. 1 - to concern itself with positive discharges and quality and quantity of waters contributory to the lakes system.

   Sub-committee No. 2 - to concern itself with the land and agricultural aspects as they may affect the Okanagan Lake System.

   Sub-committee No. 3 - to concern itself with the lakes system exclusive of the land and contributory aspects.

2. The sub-committees firm up their recommendations by May 30, 1969,

3. This ad hoc committee having met and made recommendations be disbanded.

The sub-committee (No. 1) concerned with positive discharges and quality and quantity of waters contributory to the lakes system met at Oliver, B.C. on June 3, 1969, to establish a water quality sampling and hydrometric program on the Okanagan River and tributary streams flowing into the Okanagan Lakes and River system and water quality sampling of positive discharges.

Thirty-four sampling stations were selected on the Okanagan River and tributary streams flowing into the Okanagan Lakes and River for water quality and hydrometric measurements.

The agencies made responsible for establishing and operating the program were:

Water quality - Water Quality Division, EMR.

Water quantity - Water Survey of Canada, EMR.

Direct discharges - B.C. Pollution Control Branch.

The Canada-British Columbia Okanagan Basin Agreement was signed on October 29, 1969.

## ACKNOWLEDGEMENTS

Special acknowledgement is given for the laboratory assistance provided by the Public Health Engineering Division, Pacific Region, during the first month of the Water Quality stream program and for providing a summer student for the field sampling program during the 1969 summer months.

Special thanks are due to Mr. E. Lawrence and Mr. Caesar Turri of the City of Kelowna, Engineering Department, for their assistance and interest in establishing the laboratory at the Kelowna Pollution Control Centre.

## INTRODUCTION

Sampling of the Okanagan River at Oliver, B.C. for water quality has been carried out on a monthly basis since early in 1967 under the International Hydro logical Decade Program.

Sampling of the Okanagan River and tributary streams contributing to the Okanagan Lakes and River for water quality began in early June, 1969 under an ad hoc arrangement and continued under this arrangement until the signing of the Canada-B.C. Okanagan Agreement in late 1969. Sampling continued under the agreement until October 31, 1971.

In order to carry out this program effectively the Water Quality Division established a field laboratory in Kelowna at the Kelowna Pollution Center in 1969 staffed with a chemist and a chemical technician to collect samples and conduct on-site and laboratory field analysis.

During the sampling period the frequency of sampling and the number of sampling locations were varied to best fit the requirements for the study. The sampling locations with frequency of sampling are outlined in the report.

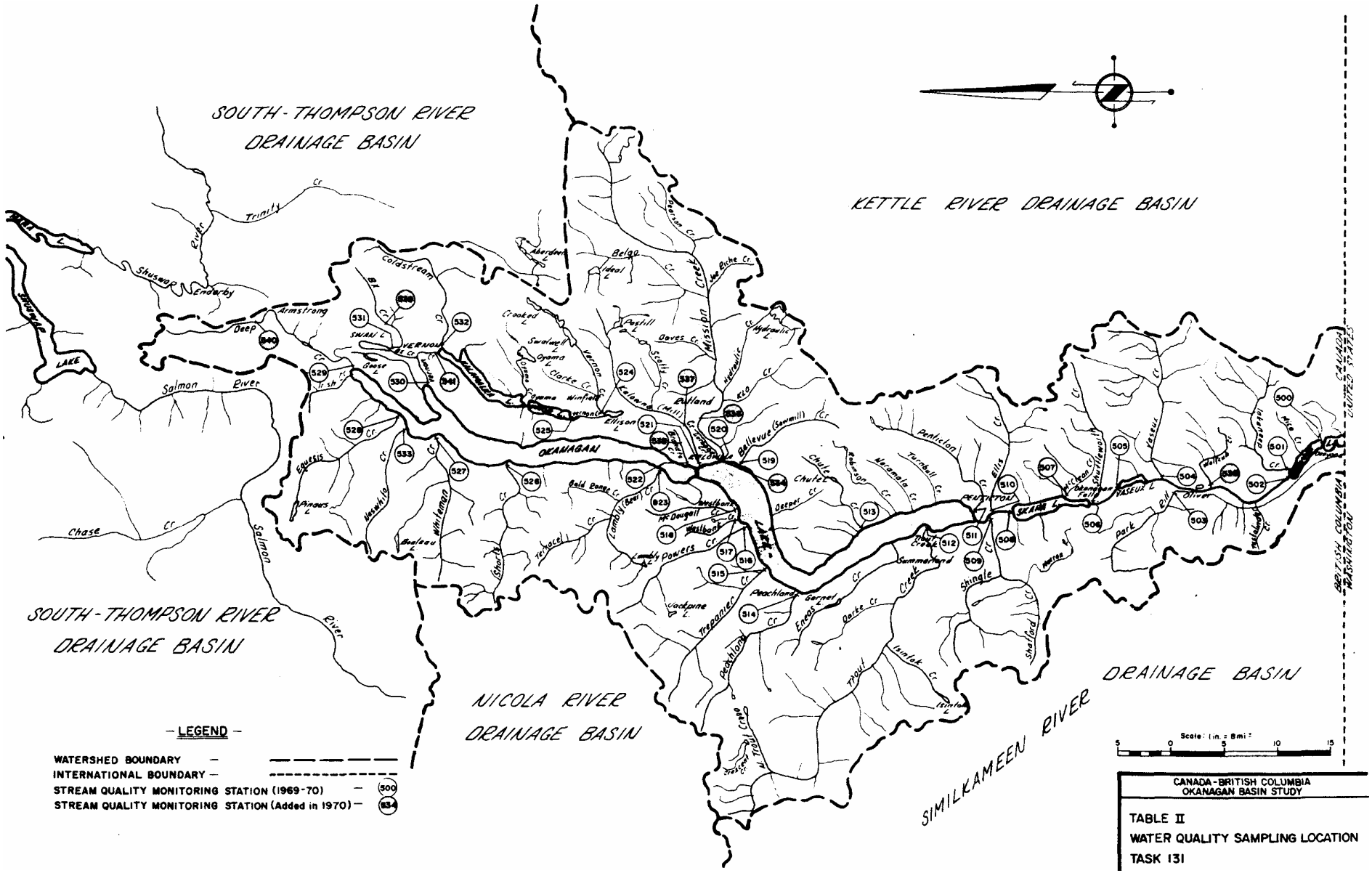
The analyses of the samples were conducted at the Kelowna Field Laboratory and at the Water Quality Division's Western Region Laboratory in Calgary. The results of all analyses were submitted to the Study Director's Office in Penticton, B.C. to be computerized.

This report details the sampling program including sampling locations and frequency of sampling, field activities, field laboratory activities, methods of analysis, and distribution of data.

## SAMPLING LOCATIONS AND PROGRAMS

The descriptions of locations, their Universal Transverse Mercator (U.T.M.) co-ordinates and the frequency of sampling for various types of analyses are contained in Table I.

Sampling stations are illustrated as to graphical locations in Table II.




— LEGEND —

WATERSHED BOUNDARY —

INTERNATIONAL BOUNDARY —

STREAM QUALITY MONITORING STATION (1969-70) — (300)

STREAM QUALITY MONITORING STATION (Added in 1970) — (334)

CANADA-BRITISH COLUMBIA
OKANAGAN BASIN STUDY

TABLE II
WATER QUALITY SAMPLING LOCATION
TASK 131

## DESCRIPTION OF FIELD ACTIVITIES

(a) On Site

(i) Methods of sampling:

A metal sampler and bottle was used to collect the samples wherever applicable.

This method of sampling is widely recognized as the best available for obtaining an integrated sample of water.

The sample was taken by dropping the opened bottle, affixed to the metal sampler, into the water and as it filled it was allowed to sink to the bottom of the stream, lake, etc. When the bottom was reached the sampler was pulled to the surface. If the bottle was not filled the procedure was repeated until sufficient sample was collected. This procedure assures that portions of water at all depths were obtained.

It should also be noted that sampling bottles, as received by the sampling crew, were pre-cleaned in the Calgary laboratory and ready for field use.

Because the elements to be analysed are present in minute quantities in water, extreme care was taken not to contaminate the neck of the bottle and cap while sampling. The bottles and caps were rinsed three times before filling with the sample. The cap with a polyethylene seal was then secured tightly to prevent leakage during shipping. Also, the bottle was filled to the neck only, leaving room for expansion.

When smaller samples were required, the smaller bottles were filled from the sample bottle in the metal sampler immediately upon collection of the sample.

Sampling from shore or by wading and sampling directly into the sampling bottle was practiced only where necessary.

Sampling from shore is not altogether satisfactory because of shore contamination, still water, etc. However, due to the small size of certain streams in this program this technique was unavoidable.

When using this method, after rinsing as described in the previous method, the bottle was held below the surface until filled. It was then drained to within two inches of *the* top and capped. In addition, it was deemed preferable to remove the plastic cap under the water to prevent surface scum, dirt, or dust from entering the bottle.

Samples in all cases were obtained from the fastest flowing portion of the stream.

(ii) Identification of sample:

The identification of the samples was most important. The information required for each sample follows:

(1) Location or source: identifies sample site and station number.

(2) Date: time, day, month, and year sample taken.

(3) Bottle number: correlate sample to rest of identification. Bottle numbers are placed on the bottles with water-proof ink. Use of tags or writing on bottles was avoided because of possible loss, smudging of ink, etc.

(4) Water temperature: at time of sampling.

(5) Water level: gauge reading was done at each station excepting those having continuous gauges. Wherever gauges (Water Survey of Canada's) were not available a rough estimate of flow was made.

(6) Collector: signature of collector.

(iii) On site analyses:

At each location the following analyses were performed immediately upon taking the sample:

(a) Temperature.

(b) pH - battery operated meter.

(c) Conductance - battery operated meter.

(d) Dissolved oxygen - the sample for D.O. determination was prepared at time of sampling by carefully pouring a portion of sample into a standard size 300 ml B.O.D. bottle ensuring that no air bubbles were introduced.

The regular procedure for the addition of manganese sulfate and alkali-azide mixture was followed. The sample was then left in this condition and the test completed for dissolved oxygen in the Kelowna Laboratory.

(b) Kelowna Laboratory

(i) General information:

The Kelowna laboratory began operation in early May, 1969, housed in a well equipped but rather small 14 foot trailer.

Space for the trailer laboratory was provided by the City of Kelowna in an area immediately east of the present Kelowna Pollution Control Centre.

Because of the efficient and generous assistance given by City of Kelowna personnel the laboratory was put into operation within one day of arriving in Kelowna.

Testing was carried out in the trailer until February, 1970 at which time the laboratory was moved into the new Pollution Control Centre.

(ii) Type of analyses:

On returning to the laboratory in Kelowna after the sampling run, the following analyses were performed: pH, temperature, conductivity, turbidity, completion of the dissolved oxygen test, and biochemical oxygen demand. The methods of analyses used are identical to those employed in the Calgary laboratory which are explained later in this report.

(iii) Preparation of samples for the Calgary laboratory:

In addition to the above tests a portion of the sample was prepared (when full analysis were required) for heavy metal analysis. Approximately 1000 milliliters of sample was passed through a nitric acid pre-washed 0.45 micron cellulose acetate filter. The sample was then acidified by adding 2 mls of concentrated nitric acid per litre of sample. This sample, then, was forwarded to Calgary for analysis.

(iv) Shipment of samples:

Sampling schedules were arranged so that samples could be delivered to the Calgary laboratory within 24 hours of sampling. Kelowna was the distribution centre and Greyhound Bus Lines were used exclusively. Daily service leaving at 8:00 p.m. was available with the samples arriving at the Calgary Terminal at 6:00 a.m. the next morning. Messenger service than delivered the samples at 8:00 a.m. to the Calgary laboratory.

Containers used were one liter polyethylene bottles. These bottles had hard plastic tops containing a specially designed polyethylene liner. Using this type of bottle and top ensured negligible contamination.

The samples, immediately after being taken, were placed into Coleman-type coolers holding 8 separate bottles. Each morning, before beginning the day's sampling run, two frozen ice packs were placed between the bottles in the cooler. Upon returning to the Kelowna laboratory, the ice packs in the coolers were replaced with fresh frozen ice packs prior to shipping to Calgary. In this way the samples were kept cool all day and during shipment to Calgary. Experience showed that the ice packs never completely thawed before reaching the Kelowna laboratory or the Calgary laboratory.

In addition to the spring handles used for sealing the coolers, a nylon strap was used to ensure the lid stayed firmly on the cooler during shipment.

## METHODS OF ANALYSES

### CALGARY WEST WATER QUALITY LABORATORY

Table III describes the methods of analyses used in this program.

The methods employed in the field, Kelowna laboratory, and in the Calgary laboratory were identical.

Table IV describes the minimum detectable concentration for each parameter and the limits of accuracy in each case.

## DISTRIBUTION OF DATA

A weekly summary of generated data was forwarded to the following:

Study Director,
Canada-B.C. Okanagan Basin Agreement,
P. 0. Box 458,
Penticton, B. C.

Director,
B.C. Pollution Control Branch,
Parliament Buildings,
Victoria, B. C.

Water Quality Division,
Inland Waters Branch,
No. 8 Temporary Building,
Ottawa, Ontario.

Chief Chemist,
Chemistry Laboratory,
Water Resources Service, 3650 Westbrook Crescent,
Vancouver 8, B. C.

Water Quality Field Laboratory,
P. 0. Box 352,
Kelowna, B. C.

## TASK 131 - OKANAGAN STREAM SAMPLING PROGRAM

TABLE I

| Stn. No. BC 4- | Station Name | Station Location | U. T. M. Co-ordinates | 1969-70 Program (May 1969 - July 1970) Pollution Analyses | 1969-70 Program (May 1969 - July 1970) Total Analyses | 1970-71 Program (July 1970 - July 1/71) Pollution Analyses | 1970-71 Program (July 1970 - July 1/71) Total Analyses | 1971-72 Program (July 1/71 - Oct.31/71) Pollution Analyses | 1971-72 Program (July 1/71 - Oct.31/71) Total Analyses |
|---|---|---|---|---|---|---|---|---|---|
| 500 | Okanagan River | Causeway at Osoyoos | IIU LE 20253330 | 1 per week | 1 per month | 2 per month | 4 per year* | 2 per month | 4 per year |
| 501 | Inkaneep Creek | 3200' above mouth | IIU LE 17403893 | 1 per week | 1 per month | - | 4 per year | - | 4 per year |
| 502 | Okanagan River | 1.2 miles above inlet to Osoyoos Lake | IIU LE 15004025 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 503 | Park Rill Creek | At highway culvert | IIU LE 14305585 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |
| 504 | Vaseaux Creek | At highway bridge | IIU LE 16355762 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |
| 505 | Okanagan River | Dam & footbridge 2 1/2 KM above Vaseaux Lake | IIU LE 13406648 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 506 | Shuttleworth Creek | At highway bridge | IIU LE 13286842 | 1 per week | 1 per month | - | 4 per year | completed | |
| 507 | McLean Creek | Exit from culvert crossing Skaha Estates road | IIU LE 14007270 | 1 per week | 1 per month | - | 4 per year | completed | |
| 508 | Okanagan River | Highway bridge at entrance to Skaha Lake | IIU LE 11828087 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 509 | Shingle Creek | At C.P. Railway bridge | IIU LE 11338387 | 1 per week | 1 per month | 1 per month | 4 per year | completed | |
| 510 | Ellis Creek | At mouth | IIU LE 12368376 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |
| 511 | Penticton Creek | 175 meters south of mouth | IIU LE 12508624 | 1 per week | 1 per month | 1 per month | 4 per year | 1 per month | 4 per year |
| 512 | Trout Creek | At Water Survey of Canada gauage at experimental farm | IIU LE 10019363 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 513 | Chute Creek | At mouth | IIU LF 10420303 | 1 per week | 1 per month | - | 4 per year | completed | |
| 514 | Peachland Creek | 150 meters from mouth | IIU LF 00911340 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |

| Stn. No. BC 4- | Station Name | Station Location | U. T. M. Co-ordinates | 1969-70 Program | | 1970-71 Program | | 1971-72 Program | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Pollution Analyses | Total Analyses | Pollution Analyses | Total Analyses | Pollution Analyses | Total Analyses |
| 515 | Trepanier Creek | At mouth | IIU LF 04781780 | 1 per week | 1 per month | 1 per month | 4 per year | completed | |
| 516 | Powers Creek | 500 meters from mouth at Water Survey of Canada gauge | IIU LF 10832110 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 517 | Smith Creek (or Westbank Creek) | At mouth | IIU LF 11762209 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |
| 518 | McDougall Creek | Bridge crossing main road 650 meters from mouth | IIU LF 13552250 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |
| 519 | Bellevue Creek | Bridge on Lakeshore road 700 meters from mouth | IIU LF 20652113 | 1 per week | 1 per month | 1 per month | 4 per year | completed | |
| 520 | Mission Creek | Bridge on Lakeshore Rd. | IIU LF 21182394 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 521 | Kelowna Creek | Bridge on Abbot Street | IIU LF 20502840 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 522 | Brandt Creek | On Guy Street, Kelowna, near mouth | IIU LF 20652977 | 1 per week | 1 per month | 1 per week | 4 per year | 4 per month | 4 per year |
| 523 | Lambly Creek | Bridge on West Side Rd. | IIU LF 19783340 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |
| 524 | Vernon Creek | 500 meters upstream from mouth near Hiram Walker's cooling water discharge | IIU LF 29004185 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per year | 4 per year |
| 525 | Vernon Creek | South side of culvert at P. Peter's residence on main road at Water Survey of Canada's gauge | IIU LF 27814668 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 526 | Shorts Creek | 200' upstream from mouth | IIU LF 21235657 | 1 per week | 1 per month | - | 4 per year | completed | |
| 527 | Whiteman Creek | Bridge on west side Rd. | IIU LF 25116700 | 1 per week | 1 per month | 2 per month | 4 per year | completed | |

| Stn. No. BC 4- | Station Name | Station Location | U. T. M. Co-ordinates | 1969-70 Program | | 1970-71 Program | | 1971-72 Program | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Pollution Analyses | Total Analyses | Pollution Analyses | Total Analyses | Pollution Analyses | Total Analyses |
| 528 | Equesis Creek | Bridge on west side Rd | IIU LF 28177328 | 1 per week | 1 per month | - | 4 per year | completed | |
| 529 | Deep Creek | Road bridge on Indian Reserve off west side Rd | IIU LF 36767954 | 1 per week | 1 per month | 1 per week | 4 per year | 4 per month | 4 per year |
| 530 | Vernon Creek | At inlet to Okanagan Lake | IIU LF 32986831 | 1 per week | 1 per month | 1 per week | 4 per year | 4 per month | 4 per year |
| 531 | Bx Creek | Bridge at highway 97 | IIU LF 39556580 | 1 per week | 1 per month | 2 per month | 4 per year | 2 per month | 4 per year |
| 533 | Nashito Creek | Bridge on west side Rd | IIU LF 26857250 | 1 per week | 1 per month | - | 4 per year | completed | |
| 534 | Garbage Creek | At Okanagan Lake | IIU LF 21232445 | not sampled | | 2 per month | 4 per year | completed | |
| 535 | Unknown Creek | Bridge east of Oliver | IIU LE 14685000 | not sampled | | 2 per month | 4 per year | 2 per month | 4 per year |
| 536 | Mission Creek | At Water Survey of Canada gauging station | IIU LF 27002743 | not sampled | | 1 per month | 4 per year | 1 per month | 4 per year |
| 537 | Kelowna Creek | At highway 97 bridge | IIU LF 28753292 | not sampled | | 1 per month | 4 per year | 1 per month | 4 per year |
| 538 | Brandt Creek | At Golfview Road | IIU LF 24253050 | not sampled | | 2 per month | 4 per year | 2 per month | 4 per year |
| 539 | Bx Creek | Upstream on Silver Star Road | IIU LF 42117310 | not sampled | | 1 per month | 4 per year | 1 per month | 4 per year |
| 540 | Deep Creek | At Young Road | IIU LF 45429208 | not sampled | | 2 per month | 4 per year | 2 per month | 4 per year |
| 541 | Vernon Creek | Exit from Kalamalka Lake | IIU LF 38476745 | not sampled | | 2 per month | 4 per year | 2 per month | 4 per year |

*The 4 times per year sampling for Total Analyses took place in the following four quarters of the year:

1st Quarter - 1st - 2nd week in February.

2nd Quarter - May or June, depending on when spring run-off is peaking.

3rd Quarter - 1st - 2nd week in August.

4th Quarter - 1st - 2nd week in November (after leaf fall has occurred).

Pollution Analyses consisted of: Nitrates, Ortho-Phosphates, Total Phosphates, Total Organic and Inorganic Carbon, Total Kjeldahl nitrogen.

Total Analyses consisted of: pH, Temperature, Alkalinity, Conductivity, Color, Turbidity, Suspended Matter, Calcium, Magnesium, Total Hardness, Sodium, Potassium, Silica, Chlorides, Iron, Manganese, Sulphates, Fluorides, Nitrates, Ortho-Phosphates, Total Phosphates, Copper, Lead, Zinc, Mercury, Total Organic and Inorganic Carbon, Total Kjeldahl Nitrogen.

*TABLE III*

*Methods of Analyses for Okanagan Stream Sampling Program,*

*Task 131, as used in the*

*Water Quality Laboratory at Calgary, Alberta*

*NOTE: All values expressed as mg/l unless otherwise stated.*

| | | |
|---|---|---|
| *Conductivity* | - | *Measurement made using a platinum electrode type conductivity meter. Values corrected to 25° centigrade and expressed as µmho/cm. (1)** |
| *Turbidity* | - | *Measurement made with Hach model 2100 turbimeter. Measurements are based on the amount of light reflected by particles. Results are expressed in Jackson turbidity units. (2)* |
| *Temperature* | - | *Measurements made with mercury-filled thermometer (-10 to 50° centigrade range - 300 mm length thermometer). Results expressed in degrees centigrade. (1)* |
| *pH* | - | *Electrometric method using pH meter equipped with glass and saturated calomel electrodes. Results expressed in pH units. (1)* |
| *Alkalinity (Total)* | - | *Potentiometric titration with standard acid solution. Alkalinity expressed as $CaCo_3$. (1)* |
| *Calcium (Dissolved)* | - | *Titration with ethylenediamine-tetraacetic acid (E.D.T.A.) and eriochrome blue as indicator. (2) (Treatment of sample for dissolved analysis follows these descriptions).* |
| *Magnesium (Dissolved)* | - | *Calculated from the values of Total Hardness and dissolved calcium.* $mg = (\text{Total Hardness}) \times 0.01998 - \text{Calcium} \times 0.0499) \times 12.16$ *(2)* |
| *Hardness (Total)* | - | *Titration with E.D.T.A. using eriochrome Black T as indicator. Values expressed as $CaCo_3$. (1)* |
| *Sodium (Dissolved)* | - | *Flame photometry by internal-standard measurement on auto analyser. (2)* |

**Numbers -in parenthesis refer to references as indicated.*

| | | |
|---|---|---|
| *Potassium (Dissolved)* | - | *Flame photometry by internal standard measurement on auto analyser. (2)* |
| *Iron (Total)* | - | *Colourimetric on auto analyser with tripyridys-s - triazine. (2)*<br>*(Treatment of sample for total analysis follows these descriptions).* |
| *Iron (Dissolved)* | - | *Colourimetric on auto analyser with tripyridyl-s - triazine. (2)* |
| *Manganese (Total)* | - | *Atomic absorption determination by direct aspiration. (2)* |
| *Manganese (Dissolved)* | - | *Atomic absorption determination by direct aspiration. (2)* |
| *Copper (Dissolved)* | - | *Determination by atomic absorption after solvent extraction. (2)* |
| *Silica* | - | *Colorimetric heteropoly blue method on auto analyser with ammonium molybdate and aminonaphtholsulfonic acid. (2)*<br>*Results expressed as* $SiO_2$. |
| *Nitrate - Nitrogen (Dissolved)* | - | *Colourimetric on auto analyser. Nitrate is reduced by cadmium and the resulting nitrite is determined by diazotizing with sulphanilamide and naphthylamine dihydrochloride. Thus both nitrate and nitrite are determined. (2)* |
| *Total Kjeldahl Nitrogen* | - | *Organic nitrogen is converted to an ammonium salt by digestion with sulphuric acid. Ammonia is then distilled from an alkaline medium and absorbed in boric acid. The ammonia is determined by titration with standard acid. This test includes the organically bound nitrogen and ammonia sample. The test is performed on a shaken sample. (1)* |
| *Chloride (Dissolved)* | - | *Colourimetric on auto analyser with ferric ammonium sulphate and mercuric thiocyanate. (2)* |
| *Phosphate (Ortho (Dissolved)* | - | *Colourimetric on autoanalyser with ammonium molybdate and stannous chloride. (2)* |
| *Sulphate (Dissolved)* | - | *Sample is passed through a strong cation exchange resin (Ambelite IR-120 or equivalent). Sulphate is titrated in an alcoholic solution under controlled acid conditions with a standard barium chloride solution using thorin as the indicator. (2)* |

| | | |
|---|---|---|
| *Phosphate (Total)* | - | *Colourimetric on auto analyser with ammonium molybdate and stannous chloride after 30 minutes in an autoclave with sulfuric acid and potassium persulphate. Determination is done on a shaken sample. (2)* |
| *Fluoride (Dissolved)* | - | *Determined with fluoride electrode and total ionic strength adjustment buffer. (2)* |
| *Total Organic Carbon* | - | *Organic material in a blended sample is oxidized and the resulting carbon dioxide is measured by infrared analysis. (2)* |
| *Total Inorganic Carbon* | - | *Sample is passed through a column of quartz chips wetted with 85% $H_3PO_4$. Temperature is held at 150°C. A release of carbon dioxide from the inorganic carbonates is measured by infrared analyses. (2)* |
| *Lead (Dissolved)* | - | *Determination by solvent extraction after solvent extraction. (2)* |
| *Zinc (Dissolved)* | - | *Determination by solvent extraction after solvent extraction. (2)* |
| *Mercury (Total)* | - | *Cold flame atomic absorption (automated). Determination done on a shaken sample. (2)* |
| *Mercury (Dissolved)* | - | *Cold flame atomic absorption (automated). (2)* |
| *Residue (Nonfilterable) (105°C)* | - | *Sample is passed through a weighed gooch crucible with a glass fibre filter. The crucible with its contents is oven dried at 103 - 105°C. The increase in weight over that of the gooch crucible and filter represents the nonfilterable residue (suspended matter). (2)* |
| *Residue (Fixed) Non-filterable* | - | *The gooch crucible and glass fibre filter with its retained residue after completion of the test for residue non filterable (105°C) is ignited at 550°C for 1/2 hour. The increase in weight over that of the gooch crucible and filter represents residue fixed non filterable. (2)* |

*Definition of terms-used in methods:*

*Dissolved - (a) Heavy Metal Analysis.*

*The sample was filtered the same day as sampling in the Kelowna field laboratory through a 0.45 micron cellulose acetate filter. This filter was prewashed with dilute $HNO_3$ 2 mls concentrated $HNO_3$ per liter of sample was then added as a preservative.*

*(b) General Dissolved Analysis (Cl, $SO_4$,* F, *etc.).*

*No field pretreatment. Sample was filtered through a 0.45 micron filter in the Calgary laboratory.*

*Total - For this program, total analysis was that analysis performed on a shaken sample.*

*Solvent Extraction- MIBK - APDC extraction as outlined in reference 2, page 54 - 55.*

*Methods of analyses for Okanagan stream sampling program, Task 131, as used in the Kelowna field laboratory in Kelowna, B. C.*

| | |
|---|---|
| *pH* | *- As described in the Calgary laboratory.* |
| *Conductance* | *- As described in the Calgary laboratory.* |
| *Temperature* | *- As described in the Calgary laboratory.* |
| *Turbidity* | *- As described in the Calgary laboratory.* |
| *Dissolved Oxygen* | *- Standard Winkler method with the azide modification. (1)* |
| *Biochemical Oxygen* | *- 5 day incubation using the standard Winkler Demand method with the azide modification. (1)* |

*<u>References:</u>*


1. *American Public Health Association, 1965. Standard Methods for the Examination of Water and Wastewater, Twelfth Edition, New York.*
2. *Water Quality Division, Inland Waters Branch, Department of Fisheries and Forestry, 1971. Methods for Chemical Analysis of Waters and Wastewaters, Ottawa.*

*TABLE IV*

*Minimum detection limits and limits of accuracy of methods used by the Water Quality Laboratory at Calgary, Alberta for Task 131.*

| Parameter | Minimum Detection Limit | Limits of Accuracy (coefficient of variation) |
|---|---|---|
| Conductivity | 0.2 umhos/cm | ± 0.5% at 520 umhos/cm |
| Turbidity | 0.1 J.T.U. | ± 9.22% at 1 JTU<br>± 3.96% at 10 JTU<br>± 1.68% at 40 JTU<br>± 0.45% at 100 JTU |
| Temperature | - | ± 0.1° C in Calgary Laboratory<br>± 0.25°C in field |
| pH | - | 0% at pH of 8.8<br>0% at pH of 4.0 |
| Alkalinity (Total) | 0.5 mg/l $CaCO_3$ | ± 1.48% at 33.3 mg/l $CaCO_3$ |
| Calcium (Dissolved) | 0.05 mg/l Ca | ± 2.9% at 13 mg/l Ca<br>± 0.5% at 45 mg/l Ca |
| Magnesium (Dissolved) | as above as mg | as above |
| Hardness (Total) | as above as $CaCO_3$ | ± 0.65% at 52.0 mg/l $CaCO_3$ |
| Sodium (Dissolved) | 0.1 mg/l Na | ± 0.67% at 12 mg/l Na<br>± 1.29% at 67 mg/l Na |
| Potassium | 0.1 mg/l Fe | ± 1.09% at 6.4 mg/l K<br>± 1.79% at 36 mg/l K |
| Iron (Total) | 0.01 mg/l Fe | ± 0.7% at 50 mg/l Fe |
| Iron (Dissolved) | as above | as above |
| Manganese (Total) | 0.01 mg/l Mn | ± 0.01 mg/l at detection limit; unknown at higher quantities |
| Manganese (Dissolved) | 0.01 mg/l Mn | as above |
| Copper (Dissolved) | 0.001 mg/l | ± 1.6% at 0.010 mg/l Cu |
| Silica | 0.005 mg/l | ± 0.7% at 0.200 mg/l $SiO_2$ |
| Nitrate-Nitrogen (Dissolved) | 0.01 mg/l as N | ± 1.6% at 0.05 mg/l N |

| Parameter | Minimum Detection Limit | Limits of Accuracy |
|---|---|---|
| Total Kjeldahl Nitrogen | 0.01 mg/l as N | ± 4.58% at 25 mg/l N |
| Chloride (Dissolved) | 0.1 mg/l as Cl | ± 0.5% at 20 mg/l Cl |
| Phosphate (Ortho Dissolved) | 0.010 mg/l as $PO_4$ | ± 4.65% at 0.010 mg/l $PO_4$<br>± 3.98% at 0.025 mg/l $PO_4$ |
| Sulphate (Dissolved) | 0.2 mg/l as $SO_4$ | ± 3.0% at 25 mg/l $SO_4$ |
| Phosphate (Total) | 0.010 mg/l as $PO_4$ | ± 7.30% at 0.020 mg/l $PO_4$<br>± 4.11% at 0.050 mg/l $PO_4$ |
| Fluoride (Dissolved) | 0.01 mg/l as F | ± 0.79% at 0.20 mg/l F<br>± 0.93% at 1.0 mg/l F |
| Total Organic Carbon | 2 mg/l as C | ± 3.08% at 20 mg/l C<br>± 0.02% at 30 mg/l C |
| Total Inorganic Carbon | as above | similar to the above |
| Lead (Dissolved) | 0.001 mg/l as Pb | ± 2.2% at 0.020 mg/l Pb |
| Zinc (Dissolved) | 0.001 mg/l as Zn | ±1.4% at 0.010 mg/l Zn |
| Mercury (Total) | 0.05 ug/l as Hg | ± 5.5% at 0.3 ug/l Hg<br>± 4.9% at 2.0 ug/l Hg<br>± 3.3% at 8.0 ug/l Hg |
| Mercury (Dissolved) | as above | similar to above |
| Residue (Non-Filterable-105°C) | 1 mg/l | No data available |
| Residue (Fixed) | 1 mg/l | as above |
| Dissolved Oxygen | 0.1 mg/l as D.O. | ± 1.8% at 4.1 ug/l D.O. |
| B.O.D. | 0.5 mg/l as oxygen (Not based on actual analyses rather a "rule of thumb") | No data available |

NOTE: Coefficient of variation is the ratio of the standard deviation to the arithmetic mean expressed as a percentage.

APPENDIX I

STATISTICAL SUMMARY OF ANALYTICAL RESULTS

# ABBREVIATIONS

| | | |
|---|---|---|
| ALK TOT | - | Alkalinity (Total) |
| DISS 02 | - | Dissolved Oxygen |
| D.O. SAT | - | Dissolved Oxygen (Saturated) |
| FX SUS M | - | Fixed Suspended Matter |
| HARD TOT | - | Hardness (Total) |
| MAGNES | - | Magnesium (Dissolved) |
| MANGAN | - | Manganese (Dissolved) |
| MAX CONC | - | Maximum Concentration |
| MG/L | - | Milligrams per liter |
| MIN CONC | - | Minimum Concentration |
| NO. VAL | - | No. of Values (Samples) |
| ORTHO P | - | Phosphate (Ortho Dissolved), as P |
| TOTAL P | - | Phosphate (Total), as P |
| POTASS | - | Potassium |
| TEMP | - | Temperature |
| TIC | - | Total Inorganic Carbon |
| TOTAL N | - | Total Nitrogen |
| TOC | - | Total Organic Carbon |
| TO SUS M | - | Total Suspended Matter |
| TURBID | - | Turbidity |

TASK 131
STREAM WATER QUALITY

STATION: 8500 CK. RIVER:CAUSEWAY AT OSOYOOS

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 10 | 15.0 | 5.00 | 10.0 | 9.10 | 8 | 7.00 | 0.0 | 7.00 | 4.62 | 4 | 15.0 | 5.00 | 10.0 | 7.50 |
| TURBID | 28 | 3.50 | 0.800 | 2.70 | 1.78 | 38 | 6.20 | 0.800 | 5.40 | 1.75 | 20 | 8.50 | 0.300 | 8.20 | 1.45 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DISS O2 | 29 | 11.0 | 7.90 | 3.10 | 9.23 | 39 | 14.0 | 3.20 | 10.8 | 10.9 | 20 | 13.6 | 8.10 | 5.50 | 10.6 |
| D.O. SAT | 29 | 106. | 17.0 | 89.0 | 90.4 | 41 | 117. | 85.0 | 32.0 | 102. | 20 | 106. | 80.0 | 26.0 | 95.7 |
| TEMP | 7 | 24.0 | 4.40 | 19.6 | 15.3 | 8 | 31.0 | 2.40 | 28.6 | 17.0 | 4 | 24.9 | 7.80 | 17.1 | 17.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 125. | 88.3 | 36.7 | 106. | 41 | 127. | 100. | 27.0 | 117. | 20 | 129. | 99.0 | 30.0 | 114. |
| CALCIUM | 7 | 36.2 | 29.4 | 6.80 | 33.2 | 8 | 41.2 | 34.5 | 6.70 | 36.8 | 4 | 38.2 | 30.6 | 7.60 | 34.4 |
| CHLORIDE | 7 | 1.40 | 1.10 | 0.300 | 1.27 | 8 | 1.80 | 1.20 | 0.600 | 1.39 | 4 | 1.70 | 0.700 | 1.00 | 1.30 |
| COPPER | 7 | 0.003 | 0.001L | 0.002 | 0.002 | 8 | 0.003 | 0.001L | 0.002 | 0.001 | 4 | 0.007 | 0.001L | 0.006 | 0.003 |
| FLUORIDE | 7 | 0.250 | 0.180 | 0.070 | 0.214 | 8 | 0.230 | 0.210 | 0.020 | 0.222 | 4 | 0.230 | 0.190 | 0.040 | 0.202 |
| HARD TOT | 7 | 125. | 102. | 23.0 | 116. | 8 | 131. | 119. | 12.0 | 125. | 4 | 135. | 107. | 28.0 | 124. |
| IRON | 6 | 0.020 | 0.010 | 0.010 | 0.013 | 8 | 0.030 | 0.010 | 0.020 | 0.016 | 4 | 0.010 | 0.010L | 0.0 | 0.010 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.034 | 0.005L | 0.029 | 0.012 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 8.90 | 6.60 | 2.30 | 7.91 | 8 | 10.0 | 3.90 | 6.10 | 8.11 | 1 | 9.60 | 9.60 | 0.0 | 9.60 |
| MANGAN | 7 | 0.001 | 0.001L | 0.0 | 0.001 | 8 | 0.010L | 0.002 | 0.008 | 0.003 | 4 | 0.014L | 0.010L | 0.004 | 0.011 |
| NITRATE | 29 | 0.190 | 0.010L | 0.180 | 0.049 | 41 | 0.180 | 0.010L | 0.170 | 0.044 | 20 | 0.190 | 0.010L | 0.180 | 0.047 |
| TOTAL N | 29 | 0.540 | 0.170 | 0.370 | 0.321 | 40 | 0.930 | 0.130 | 0.800 | 0.332 | 20 | 1.26 | 0.010L | 1.25 | 0.364 |
| PH | 29 | 8.70 | 7.00 | 1.70 | 7.99 | 41 | 9.00 | 7.60 | 1.40 | 8.40 | 20 | 8.80 | 7.80 | 1.00 | 8.22 |
| ORTHO P | 29 | 0.033 | 0.003L | 0.030 | 0.008 | 41 | 0.023 | 0.003L | 0.020 | 0.007 | 20 | 0.023 | 0.003L | 0.020 | 0.007 |
| TOTAL P | 29 | 0.052 | 0.003 | 0.049 | 0.016 | 41 | 0.052 | 0.003 | 0.049 | 0.020 | 20 | 0.055 | 0.010 | 0.045 | 0.021 |
| POTASS | 7 | 2.40 | 2.00 | 0.400 | 2.21 | 8 | 2.60 | 2.00 | 0.600 | 2.22 | 4 | 2.50 | 2.00 | 0.500 | 2.30 |
| SILICA | 7 | 5.90 | 4.30 | 1.60 | 4.97 | 8 | 6.00 | 0.010 | 5.99 | 2.72 | 4 | 10.3 | 1.20 | 9.10 | 5.42 |
| SODIUM | 7 | 10.2 | 8.20 | 2.00 | 9.27 | 8 | 10.5 | 8.70 | 1.80 | 9.70 | 4 | 10.8 | 8.90 | 1.90 | 9.95 |
| SULPHATE | 7 | 29.1 | 24.1 | 5.00 | 27.0 | 8 | 35.9 | 26.8 | 9.10 | 29.3 | 4 | 31.6 | 26.2 | 5.40 | 29.2 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 28.0 | 20.0 | 8.00 | 24.4 | 16 | 30.0 | 7.00 | 23.0 | 21.3 |
| ZINC | 7 | 0.006 | 0.001L | 0.005 | 0.002 | 8 | 0.010 | 0.001L | 0.009 | 0.004 | 4 | 0.029 | 0.002 | 0.027 | 0.009 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 9.00 | 2.00 | 7.00 | 5.41 | 41 | 13.0 | 2.00L | 11.0 | 6.29 | 19 | 21.0 | 4.00 | 17.0 | 8.16 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B501 INKANEEP CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 9 | 60.0 | 5.00 | 55.0 | 26.1 | 8 | 55.0 | 10.0 | 45.0 | 20.6 | 3 | 75.0 | 15.0 | 60.0 | 35.0 |
| TURBID | 28 | 165. | 3.00 | 162. | 52.5 | 34 | 61.0 | 1.80 | 59.2 | 8.19 | 3 | 92.0 | 2.30 | 89.7 | 34.2 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 5 | 309. | 4.80 | 304. | 86.1 | 6 | 21.6 | 2.00 | 19.6 | 12.1 | 2 | 197. | 29.2 | 168. | 113. |
| DISS O2 | 29 | 13.2 | 8.00 | 5.20 | 10.3 | 35 | 14.1 | 9.00 | 5.10 | 11.3 | 3 | 12.7 | 9.30 | 3.40 | 10.9 |
| D.O. SAT | 29 | 101. | 85.0 | 16.0 | 94.7 | 37 | 111. | 85.0 | 26.0 | 99.3 | 3 | 95.0 | 93.0 | 2.00 | 94.0 |
| TEMP | 7 | 19.3 | 1.60 | 17.7 | 11.2 | 8 | 25.1 | 0.0 | 25.1 | 13.0 | 3 | 24.9 | 7.70 | 17.2 | 16.0 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 382. | 98.0 | 284. | 119. | 36 | 126. | 29.8 | 96.2 | 93.5 | 3 | 104. | 18.0 | 86.0 | 71.0 |
| CALCIUM | 7 | 31.1 | 26.0 | 5.10 | 27.9 | 8 | 30.2 | 11.5 | 18.7 | 24.1 | 3 | 26.7 | 5.10 | 21.6 | 18.0 |
| CHLORIDE | 7 | 2.80 | 0.700 | 2.10 | 1.30 | 8 | 1.50 | 0.700 | 0.800 | 0.912 | 3 | 1.20 | 0.500 | 0.700 | 0.833 |
| COPPER | 7 | 0.002 | 0.001L | 0.001 | 0.002 | 8 | 0.005 | 0.001L | 0.004 | 0.002 | 3 | 0.006 | 0.001 | 0.005 | 0.003 |
| FLUORIDE | 7 | 0.440 | 0.370 | 0.070 | 0.406 | 8 | 0.490 | 0.240 | 0.250 | 0.369 | 3 | 0.370 | 0.150 | 0.220 | 0.287 |
| HARD TOT | 7 | 99.8 | 89.2 | 10.6 | 94.2 | 8 | 98.3 | 37.3 | 61.0 | 81.0 | 3 | 93.0 | 19.0 | 74.0 | 64.3 |
| IRON | 7 | 0.270 | 0.060 | 0.210 | 0.114 | 8 | 0.170 | 0.070 | 0.100 | 0.130 | 3 | 0.170 | 0.060 | 0.110 | 0.100 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 7 | 7.10 | 5.00 | 2.10 | 5.96 | 8 | 6.90 | 2.10 | 4.80 | 5.06 | 1 | 6.30 | 6.30 | 0.0 | 6.30 |
| MANGAN | 7 | 0.044 | 0.001L | 0.043 | 0.022 | 8 | 0.022 | 0.007 | 0.015 | 0.015 | 3 | 0.035 | 0.010L | 0.025 | 0.018 |
| NITRATE | 29 | 0.630 | 0.010L | 0.620 | 0.034 | 37 | 0.090 | 0.010L | 0.080 | 0.014 | 3 | 0.480 | 0.010 | 0.470 | 0.173 |
| TOTAL N | 29 | 0.940 | 0.040 | 0.900 | 0.270 | 36 | 1.00 | 0.010 | 0.990 | 0.245 | 3 | 0.480 | 0.060 | 0.420 | 0.320 |
| PH | 29 | 8.50 | 6.90 | 1.60 | 7.93 | 37 | 9.00 | 7.30 | 1.70 | 8.08 | 3 | 8.10 | 6.80 | 1.30 | 7.63 |
| ORTHO P | 29 | 0.072 | 0.003 | 0.069 | 0.028 | 37 | 0.055 | 0.007 | 0.048 | 0.031 | 3 | 0.055 | 0.020 | 0.035 | 0.034 |
| TOTAL P | 29 | 0.359 | 0.007 | 0.352 | 0.103 | 37 | 0.245 | 0.020 | 0.225 | 0.059 | 3 | 0.295 | 0.036 | 0.259 | 0.129 |
| POTASS | 7 | 3.10 | 2.30 | 0.800 | 2.67 | 8 | 2.60 | 1.40 | 1.20 | 2.21 | 3 | 2.50 | 1.10 | 1.40 | 2.00 |
| SILICA | 7 | 31.0 | 17.5 | 13.5 | 25.7 | 8 | 28.6 | 20.2 | 8.40 | 25.2 | 3 | 29.4 | 24.7 | 4.70 | 27.2 |
| SODIUM | 7 | 10.5 | 8.20 | 2.30 | 9.34 | 8 | 9.90 | 5.40 | 4.50 | 8.61 | 3 | 9.20 | 3.40 | 5.80 | 7.27 |
| SULPHATE | 7 | 7.70 | 4.30 | 3.40 | 6.49 | 8 | 7.90 | 3.30 | 4.60 | 6.12 | 3 | 7.90 | 0.800 | 7.10 | 5.30 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 11 | 31.0 | 18.0 | 13.0 | 24.6 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 7 | 0.005 | 0.001L | 0.004 | 0.003 | 8 | 0.008 | 0.001L | 0.007 | 0.003 | 3 | 0.002 | 0.001L | 0.001 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 11.0 | 2.00L | 9.00 | 5.41 | 37 | 12.0 | 2.00 | 10.0 | 6.81 | 3 | 15.0 | 5.00 | 10.0 | 9.67 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B502 CK. RIVER:1.2 MILES UPSTREAM OSOYOOS LK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 10 | 10.0 | 5.00 | 5.00 | 6.00 | 8 | 5.00 | 0.0 | 5.00 | 4.37 | 4 | 35.0 | 0.0 | 35.0 | 12.2 |
| TURBID | 28 | 5.90 | 1.00 | 4.90 | 2.50 | 38 | 5.40 | 0.800 | 4.60 | 2.29 | 20 | 9.40 | 0.600 | 8.80 | 2.00 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 2 | 3.40 | 1.00 | 2.40 | 2.20 | 3 | 8.00 | 0.800 | 7.20 | 5.33 | 1 | 14.8 | 14.8 | 0.0 | 14.8 |
| DISS O2 | 29 | 13.1 | 8.40 | 4.70 | 10.3 | 39 | 14.3 | 8.70 | 5.60 | 11.3 | 20 | 13.0 | 8.20 | 4.80 | 10.6 |
| D.O. SAT | 29 | 107. | 93.0 | 14.0 | 100. | 41 | 111. | 89.0 | 22.0 | 103. | 19 | 101. | 78.0 | 23.0 | 93.6 |
| TEMP | 7 | 21.7 | 2.70 | 19.0 | 13.9 | 8 | 31.5 | 1.60 | 29.9 | 17.2 | 4 | 25.0 | 7.20 | 17.8 | 16.3 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 129. | 87.0 | 42.0 | 110. | 41 | 317. | 63.7 | 253. | 122. | 20 | 147. | 74.0 | 73.0 | 116. |
| CALCIUM | 7 | 37.5 | 32.6 | 4.90 | 35.0 | 8 | 40.8 | 35.2 | 5.60 | 37.6 | 4 | 45.8 | 29.2 | 16.6 | 36.0 |
| CHLORIDE | 7 | 1.40 | 1.10 | 0.300 | 1.30 | 8 | 1.80 | 1.20 | 0.600 | 1.40 | 4 | 2.20 | 1.20 | 1.00 | 1.62 |
| COPPER | 7 | 0.003 | 0.001L | 0.002 | 0.002 | 8 | 0.002 | 0.001L | 0.001 | 0.001 | 4 | 0.009 | 0.001L | 0.008 | 0.004 |
| FLUORIDE | 7 | 0.240 | 0.200 | 0.040 | 0.217 | 8 | 0.280 | 0.200 | 0.080 | 0.237 | 4 | 0.270 | 0.160 | 0.110 | 0.212 |
| HARD TOT | 7 | 130. | 114. | 16.0 | 121. | 8 | 143. | 118. | 25.0 | 128. | 4 | 166. | 91.0 | 75.0 | 126. |
| IRON | 7 | 0.110 | 0.010 | 0.100 | 0.034 | 8 | 0.030 | 0.010 | 0.020 | 0.021 | 4 | 0.090 | 0.010 | 0.080 | 0.045 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.027 | 0.005L | 0.022 | 0.011 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 8.80 | 7.00 | 1.80 | 8.17 | 7 | 10.0 | 7.60 | 2.40 | 8.60 | 1 | 12.6 | 12.6 | 0.0 | 12.6 |
| MANGAN | 7 | 0.006 | 0.001L | 0.005 | 0.004 | 8 | 0.044 | 0.003 | 0.041 | 0.014 | 4 | 0.050 | 0.010L | 0.040 | 0.022 |
| NITRATE | 29 | 0.120 | 0.010L | 0.110 | 0.040 | 41 | 0.190 | 0.010L | 0.180 | 0.065 | 20 | 1.15 | 0.010L | 1.14 | 0.151 |
| TOTAL N | 29 | 0.430 | 0.070 | 0.360 | 0.275 | 40 | 2.38 | 0.030 | 2.35 | 0.391 | 20 | 1.40 | 0.040 | 1.36 | 0.442 |
| PH | 29 | 8.50 | 7.20 | 1.30 | 8.03 | 41 | 8.40 | 7.80 | 0.600 | 8.20 | 20 | 8.30 | 7.70 | 0.600 | 8.07 |
| ORTHO P | 29 | 0.016 | 0.003L | 0.013 | 0.005 | 41 | 0.052 | 0.003L | 0.049 | 0.009 | 20 | 0.030 | 0.003L | 0.027 | 0.007 |
| TOTAL P | 29 | 0.390 | 0.003 | 0.387 | 0.030 | 41 | 0.157 | 0.007 | 0.150 | 0.029 | 20 | 0.130 | 0.013 | 0.117 | 0.030 |
| POTASS | 7 | 2.50 | 2.00 | 0.500 | 2.27 | 8 | 2.90 | 2.00 | 0.900 | 2.32 | 4 | 2.80 | 1.70 | 1.10 | 2.32 |
| SILICA | 7 | 4.90 | 4.10 | 0.800 | 4.54 | 8 | 6.10 | 1.10 | 5.00 | 3.94 | 4 | 9.50 | 4.80 | 4.70 | 6.90 |
| SODIUM | 7 | 10.6 | 8.20 | 2.40 | 9.57 | 8 | 10.9 | 9.40 | 1.50 | 9.89 | 4 | 11.9 | 7.20 | 4.70 | 9.75 |
| SULPHATE | 7 | 31.3 | 26.3 | 5.00 | 29.0 | 8 | 35.9 | 27.1 | 8.80 | 31.1 | 4 | 43.1 | 21.9 | 21.2 | 31.5 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 30.0 | 18.0 | 12.0 | 25.4 | 16 | 32.0 | 15.0 | 17.0 | 22.9 |
| ZINC | 7 | 0.003 | 0.001L | 0.002 | 0.002 | 8 | 0.007 | 0.001L | 0.006 | 0.002 | 4 | 0.004 | 0.001 | 0.003 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 30.0 | 2.00L | 28.0 | 6.10 | 41 | 49.0 | 2.00L | 47.0 | 6.78 | 19 | 10.0 | 2.00 | 8.00 | 7.00 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B503 PARK RILL CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 2 | 7.00 | 5.00 | 2.00 | 6.00 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBID | 5 | 4.50 | 1.00 | 3.50 | 2.68 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 2.40 | 2.40 | 0.0 | 2.40 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DISS 02 | 5 | 8.80 | 0.05 | 8.80 | 6.48 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D.O. SAT | 5 | 92.0 | 9.009 | 83.0 | 72.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TEMP | 1 | 16.5 | 16.5 | 0.0 | 16.5 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 5 | 101. | 97.0 | 4.00 | 99.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CALCIUM | 1 | 31.6 | 31.6 | 0.0 | 31.6 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CHLORIDE | 1 | 1.40 | 1.40 | 0.0 | 1.40 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPPER | 1 | 0.001L | 0.001L | 0.0 | 0.001 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FLUORIDE | 1 | 0.230 | 0.230 | 0.0 | 0.230 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HARD TOT | 1 | 111. | 111. | 0.0 | 111. | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IRON | 1 | 0.020 | 0.020 | 0.0 | 0.020 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEAD | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAGNES | 1 | 7.80 | 7.80 | 0.0 | 7.80 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MANGAN | 1 | 0.002 | 0.002 | 0.0 | 0.002 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NITRATE | 5 | 0.010 | 0.010L | 0.0 | 0.010 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL N | 5 | 0.400 | 0.210 | 0.190 | 0.310 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PH | 5 | 8.50 | 7.60 | 0.900 | 8.14 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ORTHO P | 5 | 0.046 | 0.0L | 0.046 | 0.011 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL P | 5 | 0.046 | 0.007 | 0.039 | 0.026 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| POTASS | 1 | 2.10 | 2.10 | 0.0 | 2.10 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SILICA | 1 | 1.60 | 1.60 | 0.0 | 1.60 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SODIUM | 1 | 9.20 | 9.20 | 0.0 | 9.20 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SULPHATE | 1 | 28.2 | 28.2 | 0.0 | 28.2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 1 | 0.003 | 0.003 | 0.0 | 0.003 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 5 | 6.00 | 0.00 | 6.00 | 4.20 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 0504 VASEAUX CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 7 | 40.0 | 10.0 | 30.0 | 25.0 | 3 | 40.0 | 5.00 | 35.0 | 25.0 | 2 | 65.0 | 25.0 | 40.0 | 45.0 |
| TURBID | 13 | 5.50 | 0.400 | 5.10 | 2.35 | 10 | 11.0 | 0.200 | 10.8 | 2.99 | 7 | 8.70 | 0.400 | 8.30 | 2.73 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 0.500L | 0.500L | 0.0 | 0.500 | 1 | 2.40 | 2.40 | 0.0 | 2.40 | 1 | 17.2 | 17.2 | 0.0 | 17.2 |
| DISS O2 | 14 | 13.7 | 8.10 | 5.60 | 11.0 | 9 | 14.0 | 9.80 | 4.20 | 11.8 | 7 | 11.7 | 9.30 | 2.40 | 10.7 |
| D.O. SAT | 14 | 114. | 87.0 | 27.0 | 98.4 | 10 | 101. | 96.0 | 5.00 | 97.4 | 7 | 111. | 95.0 | 16.0 | 98.9 |
| TEMP | 4 | 21.5 | 3.30 | 18.2 | 12.0 | 3 | 25.1 | 0.0 | 25.1 | 8.37 | 2 | 17.8 | 6.00 | 11.8 | 11.9 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 14 | 74.0 | 15.7 | 58.3 | 45.3 | 10 | 89.0 | 13.6 | 75.4 | 39.2 | 7 | 46.0 | 12.0 | 34.0 | 23.6 |
| CALCIUM | 4 | 17.2 | 6.60 | 10.6 | 11.9 | 3 | 19.0 | 7.30 | 11.7 | 11.6 | 2 | 9.80 | 4.40 | 5.40 | 7.10 |
| CHLORIDE | 4 | 0.600 | 0.300 | 0.300 | 0.400 | 3 | 0.600 | 0.400 | 0.200 | 0.467 | 2 | 0.600 | 0.400 | 0.200 | 0.500 |
| COPPER | 4 | 0.002L | 0.001L | 0.001 | 0.001 | 3 | 0.001 | 0.001 | 0.0 | 0.001 | 2 | 0.006 | 0.002 | 0.004 | 0.004 |
| FLUORIDE | 4 | 0.350 | 0.150 | 0.200 | 0.252 | 3 | 0.340 | 0.210 | 0.130 | 0.257 | 2 | 0.200 | 0.130 | 0.070 | 0.165 |
| HARD TOT | 4 | 61.3 | 21.7 | 39.6 | 43.6 | 3 | 68.8 | 22.4 | 46.4 | 39.7 | 2 | 35.0 | 16.0 | 19.0 | 25.5 |
| IRON | 4 | 0.050 | 0.020 | 0.030 | 0.032 | 3 | 0.070 | 0.010 | 0.060 | 0.043 | 2 | 0.130 | 0.030 | 0.100 | 0.080 |
| LEAD | 4 | 0.010L | 0.005L | 0.005 | 0.007 | 3 | 0.010L | 0.005L | 0.005 | 0.008 | 2 | 0.006L | 0.006L | 0.0 | 0.006 |
| MAGNES | 4 | 4.50 | 1.30 | 3.20 | 3.40 | 3 | 5.20 | 1.00 | 4.20 | 2.60 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MANGAN | 4 | 0.001 | 0.001L | 0.0 | 0.001 | 3 | 0.004 | 0.002 | 0.002 | 0.003 | 2 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 14 | 0.040 | 0.010L | 0.030 | 0.013 | 10 | 0.020 | 0.010L | 0.010 | 0.011 | 7 | 0.010 | 0.010L | 0.0 | 0.010 |
| TOTAL N | 13 | 0.340 | 0.040 | 0.300 | 0.147 | 10 | 0.320 | 0.050 | 0.270 | 0.149 | 7 | 1.06 | 0.010L | 1.05 | 0.317 |
| PH | 14 | 8.20 | 7.40 | 0.800 | 7.75 | 10 | 8.20 | 7.30 | 0.900 | 7.68 | 7 | 7.80 | 6.60 | 1.20 | 7.29 |
| ORTHO P | 14 | 0.007 | 0.003L | 0.004 | 0.003 | 10 | 0.010 | 0.003L | 0.007 | 0.006 | 7 | 0.010 | 0.003 | 0.007 | 0.005 |
| TOTAL P | 14 | 0.029 | 0.003L | 0.026 | 0.009 | 10 | 0.039 | 0.007 | 0.032 | 0.016 | 7 | 0.039 | 0.007 | 0.032 | 0.019 |
| POTASS | 4 | 1.20 | 0.800 | 0.400 | 0.950 | 3 | 1.10 | 0.800 | 0.300 | 0.933 | 2 | 0.900 | 0.600 | 0.300 | 0.750 |
| SILICA | 4 | 17.5 | 14.5 | 3.00 | 15.9 | 3 | 18.1 | 15.3 | 2.80 | 16.7 | 2 | 18.7 | 17.5 | 1.20 | 18.1 |
| SODIUM | 4 | 4.80 | 2.30 | 2.50 | 3.65 | 3 | 5.50 | 2.50 | 3.00 | 3.67 | 2 | 3.20 | 1.80 | 1.40 | 2.50 |
| SULPHATE | 4 | 6.70 | 1.10 | 5.60 | 4.20 | 3 | 8.20 | 2.40 | 5.80 | 4.80 | 2 | 4.50 | 2.60 | 1.90 | 3.55 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 19.0 | 5.00 | 14.0 | 12.0 | 5 | 6.00 | 2.00 | 4.00 | 3.60 |
| ZINC | 4 | 0.008 | 0.001 | 0.007 | 0.003 | 3 | 0.008 | 0.001L | 0.007 | 0.003 | 2 | 0.002 | 0.001 | 0.001 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 14 | 19.0 | 2.00 | 17.0 | 7.36 | 10 | 13.0 | 3.00 | 10.0 | 8.00 | 7 | 14.0 | 8.00 | 6.00 | 10.6 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8505 CK. RIVER 1.5 MILES UPSTREAM VASEAUX LK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 10 | 10.0 | 5.00 | 5.00 | 7.20 | 8 | 5.00 | 0.0 | 5.00 | 3.12 | 4 | 7.00 | 0.0 | 7.00 | 4.25 |
| TURBID | 28 | 25.0 | 0.800 | 24.2 | 2.87 | 38 | 19.0 | 0.300 | 18.7 | 2.13 | 20 | 4.80 | C.300 | 4.50 | 1.67 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 12.0 | 12.C | 0.0 | 12.0 | 2 | 9.60 | 5.60 | 4.00 | 7.60 | 2 | 8.80 | 2.00 | 6.80 | 5.40 |
| DISS 02 | 29 | 12.9 | 9.00 | 3.90 | 10.7 | 39 | 14.9 | 8.90 | 6.00 | 12.2 | 20 | 13.9 | 8.50 | 5.40 | 11.3 |
| D.O. SAT | 29 | 125. | 95.0 | 30.0 | 107. | 41 | 137. | 99.0 | 38.0 | 112. | 20 | 112. | 85.0 | 27.0 | 98.9 |
| TEMP | 7 | 22.7 | 2.70 | 20.0 | 14.7 | 8 | 25.1 | 0.0 | 25.1 | 13.0 | 4 | 25.0 | 6.00 | 19.0 | 16.1 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 128. | 93.5 | 34.5 | 105. | 41 | 119. | 35.5 | 83.5 | 109. | 20 | 118. | 101. | 17.0 | 108. |
| CALCIUM | 7 | 34.7 | 28.1 | 6.60 | 32.5 | 8 | 34.9 | 33.8 | 1.10 | 34.3 | 4 | 34.2 | 30.6 | 3.60 | 32.5 |
| CHLORIDE | 7 | 1.30 | 1.00 | 0.300 | 1.16 | 8 | 1.60 | 1.10 | 0.500 | 1.29 | 4 | 1.60 | 0.700 | 0.900 | 1.22 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.006 | 0.001L | 0.005 | 0.002 | 4 | 0.003 | 0.001L | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.220 | 0.17C | 0.050 | 0.196 | 8 | 0.240 | 0.190 | 0.050 | 0.207 | 4 | 0.210 | 0.170 | 0.040 | 0.182 |
| HARD TOT | 7 | 118. | 110. | 8.00 | 115. | 8 | 122. | 115. | 7.00 | 118. | 4 | 122. | 110. | 12.0 | 117. |
| IRON | 7 | 0.060 | 0.010L | 0.050 | 0.021 | 8 | 0.030 | 0.010 | 0.020 | 0.016 | 4 | 0.020 | C.01CL | C.010 | 0.012 |
| LEAD | 7 | 0.C10L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 10.6 | 7.10 | 3.50 | 8.11 | 8 | 9.00 | 7.30 | 1.70 | 7.92 | 1 | 8.90 | 8.90 | 0.0 | 8.90 |
| MANGAN | 7 | 0.002 | 0.001L | 0.001 | 0.002 | 8 | 0.010L | 0.002 | 0.008 | 0.005 | 4 | 0.028 | 0.010L | 0.018 | 0.015 |
| NITRATE | 29 | 0.140 | 0.010L | 0.130 | 0.032 | 41 | 0.560 | 0.010L | 0.550 | 0.045 | 20 | 0.090 | 0.010L | 0.080 | 0.021 |
| TOTAL N | 28 | 1.15 | 0.130 | 1.02 | 0.354 | 39 | 0.640 | 0.003L | 0.637 | 0.293 | 20 | 1.48 | C.010L | 1.47 | 0.361 |
| PH | 29 | 9.00 | 7.50 | 1.50 | 8.34 | 41 | 8.90 | 5.50 | 3.40 | 8.52 | 20 | 8.80 | 8.00 | 0.800 | 8.39 |
| ORTHO P | 29 | 0.029 | 0.003L | 0.026 | C.006 | 41 | 0.026 | 0.003L | 0.023 | 0.007 | 20 | 0.020 | 0.003L | 0.017 | 0.007 |
| TOTAL P | 29 | 0.104 | 0.003 | 0.101 | 0.020 | 41 | 0.059 | 0.007 | 0.052 | 0.022 | 20 | C.130 | C.010 | C.120 | 0.031 |
| POTASS | 7 | 2.20 | 1.90 | 0.300 | 2.10 | 8 | 2.30 | 1.70 | 0.600 | 2.05 | 4 | 2.30 | 2.00 | 0.300 | 2.12 |
| SILICA | 7 | 9.20 | 2.80 | 6.40 | 4.13 | 8 | 4.00 | 0.100 | 3.90 | 1.89 | 4 | 5.20 | 0.800 | 4.40 | 2.35 |
| SODIUM | 7 | 10.0 | 8.60 | 1.40 | 9.16 | 8 | 9.70 | 8.40 | 1.30 | 9.27 | 4 | 10.0 | 9.40 | 0.600 | 9.65 |
| SULPHATE | 7 | 27.6 | 25.4 | 2.20 | 26.6 | 8 | 28.4 | 27.3 | 1.10 | 27.7 | 4 | 27.8 | 27.0 | 0.800 | 27.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 38.0 | 18.0 | 20.0 | 23.9 | 16 | 26.0 | 18.0 | 8.00 | 21.1 |
| ZINC | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.003 | 0.001 | 0.002 | 0.002 | 4 | 0.002 | 0.001L | 0.001 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 9.00 | 2.00 | 7.00 | 5.32 | 41 | 11.0 | 2.00L | 9.00 | 5.59 | 20 | 10.0 | 2.00 | 8.00 | 6.95 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8506 SHUTTLEWORTH CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 10 | 65.0 | 0.0 | 65.0 | 20.0 | 8 | 40.0 | 0.0 | 40.0 | 6.25 | 3 | 75.0 | 10.0 | 65.0 | 33.3 |
| TURBID | 28 | 17.0 | 0.200 | 16.8 | 2.95 | 33 | 140. | 0.200 | 140. | 8.92 | 3 | 46.0 | 1.70 | 44.3 | 18.4 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 2 | 23.0 | 1.20 | 21.8 | 12.1 | 1 | 25.2 | 25.2 | 0.0 | 25.2 | 2 | 144. | 2.40 | 142. | 73.2 |
| DISS O2 | 28 | 8.90 | 4.20 | 4.70 | 5.79 | 34 | 16.4 | 4.20 | 12.2 | 6.91 | 3 | 13.1 | 10.1 | 3.00 | 11.3 |
| D.O. SAT | 28 | 96.0 | 40.0 | 56.0 | 55.8 | 36 | 105. | 40.0 | 65.0 | 62.9 | 3 | 109. | 93.0 | 16.0 | 98.7 |
| TEMP | 7 | 22.7 | 5.50 | 17.2 | 13.0 | 8 | 31.5 | 8.50 | 23.0 | 18.8 | 3 | 25.0 | 8.50 | 16.5 | 18.0 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 208. | 34.3 | 174. | 166. | 36 | 220. | 9.60 | 210. | 172. | 3 | 238. | 13.0 | 225. | 108. |
| CALCIUM | 7 | 66.7 | 17.0 | 49.7 | 50.9 | 8 | 68.1 | 12.7 | 55.4 | 57.4 | 3 | 79.1 | 5.20 | 73.9 | 35.7 |
| CHLORIDE | 7 | 2.60 | 0.500 | 2.10 | 1.79 | 8 | 2.90 | 0.700 | 2.20 | 2.07 | 3 | 11.5 | 0.700 | 10.8 | 4.37 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.006 | 0.001L | 0.005 | 0.002 | 3 | 0.003 | 0.002 | 0.001 | 0.002 |
| FLUORIDE | 7 | 0.280 | 0.220 | 0.060 | 0.247 | 8 | 0.250 | 0.200 | 0.050 | 0.230 | 3 | 0.340 | 0.120 | 0.220 | 0.247 |
| HARD TOT | 7 | 201. | 57.6 | 143. | 156. | 8 | 204. | 40.5 | 163. | 174. | 3 | 262. | 17.0 | 245. | 120. |
| IRON | 7 | 0.060 | 0.010 | 0.050 | 0.030 | 8 | 0.100 | 0.010L | 0.090 | 0.034 | 3 | 0.280 | 0.060 | 0.220 | 0.173 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010 | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.009 |
| MAGNES | 7 | 9.10 | 3.00 | 6.10 | 6.90 | 8 | 9.00 | 2.10 | 6.90 | 7.36 | 1 | 5.50 | 5.50 | 0.0 | 5.50 |
| MANGAN | 7 | 0.010 | 0.001L | 0.009 | 0.003 | 8 | 0.021 | 0.001L | 0.020 | 0.007 | 3 | 0.100 | 0.010L | 0.090 | 0.040 |
| NITRATE | 29 | 0.840 | 0.010L | 0.830 | 0.484 | 36 | 0.810 | 0.010L | 0.800 | 0.549 | 3 | 1.20 | 0.010L | 1.19 | 0.453 |
| TOTAL N | 28 | 1.25 | 0.150 | 1.10 | 0.612 | 35 | 1.25 | 0.110 | 1.14 | 0.712 | 3 | 1.56 | 0.230 | 1.33 | 0.733 |
| PH | 29 | 8.20 | 7.20 | 1.00 | 7.61 | 36 | 8.00 | 7.50 | 0.500 | 7.72 | 3 | 8.30 | 6.70 | 1.60 | 7.57 |
| ORTHO P | 29 | 0.026 | 0.003L | 0.023 | 0.004 | 36 | 0.036 | 0.003L | 0.033 | 0.006 | 3 | 0.036 | 0.013 | 0.023 | 0.022 |
| TOTAL P | 29 | 0.068 | 0.003L | 0.065 | 0.012 | 36 | 0.424 | 0.003 | 0.421 | 0.037 | 3 | 0.254 | 0.036 | 0.218 | 0.114 |
| POTASS | 7 | 2.90 | 2.00 | 0.900 | 2.46 | 8 | 2.90 | 1.40 | 1.50 | 2.44 | 3 | 5.90 | 0.900 | 5.00 | 2.97 |
| SILICA | 7 | 18.0 | 15.6 | 2.40 | 17.1 | 8 | 19.1 | 16.4 | 2.70 | 18.0 | 3 | 20.8 | 15.9 | 4.90 | 18.7 |
| SODIUM | 7 | 15.1 | 4.80 | 10.3 | 11.6 | 8 | 15.0 | 3.70 | 11.3 | 12.6 | 3 | 22.4 | 2.10 | 20.3 | 10.2 |
| SULPHATE | 7 | 34.9 | 8.50 | 26.4 | 26.4 | 8 | 35.4 | 8.10 | 27.3 | 29.3 | 3 | 54.8 | 2.90 | 51.9 | 25.1 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 11 | 48.0 | 22.0 | 26.0 | 37.8 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.005 | 0.001L | 0.004 | 0.002 | 3 | 0.005 | 0.001L | 0.004 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 12.0 | 2.0CL | 10.0 | 3.21 | 36 | 14.0 | 2.00L | 12.0 | 5.61 | 3 | 16.0 | 5.00 | 11.0 | 10.0 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B507 MC LEAN CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| **PHYSICAL PARAMETERS** | | | | | | | | | | | | | | | |
| COLOUR | 9 | 30.0 | 5.00 | 25.0 | 12.7 | 7 | 10.0 | 5.00 | 5.00 | 7.14 | 3 | 35.0 | 5.00 | 30.0 | 16.7 |
| TURBID | 19 | 17.0 | 0.400 | 16.6 | 3.32 | 30 | 9.00 | 0.500 | 8.50 | 2.03 | 3 | 3.20 | 0.900 | 2.30 | 1.87 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 2 | 2.40 | 1.60 | 0.800 | 2.00 | 1 | 8.80 | 8.80 | 0.0 | 8.80 | 1 | 43.2 | 43.2 | 0.0 | 43.2 |
| DISS O2 | 20 | 12.7 | 7.00 | 5.70 | 9.70 | 28 | 13.8 | 8.30 | 5.50 | 11.7 | 3 | 12.3 | 9.30 | 3.00 | 10.9 |
| D.O. SAT | 20 | 95.0 | 75.0 | 20.0 | 87.2 | 30 | 110. | 10.05 | 100. | 95.1 | 3 | 95.0 | 90.0 | 5.00 | 93.3 |
| TEMP | 6 | 16.7 | 1.10 | 15.6 | 11.7 | 8 | 24.4 | 0.0 | 24.4 | 12.5 | 3 | 25.0 | 7.10 | 17.9 | 15.8 |
| **INORGANIC PARAMETERS** | | | | | | | | | | | | | | | |
| ALK TOT | 20 | 178. | 53.0 | 125. | 126. | 30 | 160. | 31.8 | 128. | 136. | 3 | 137. | 29.0 | 108. | 99.3 |
| CALCIUM | 6 | 48.6 | 32.6 | 16.0 | 40.7 | 8 | 54.9 | 31.2 | 23.7 | 48.3 | 3 | 46.9 | 10.4 | 36.5 | 33.7 |
| CHLORIDE | 6 | 1.30 | 1.10 | 0.200 | 1.20 | 8 | 1.80 | 0.700 | 1.10 | 1.20 | 3 | 1.90 | 0.800 | 1.10 | 1.23 |
| COPPER | 6 | 0.007 | 0.001L | 0.006 | 0.002 | 8 | 0.004 | 0.001L | 0.003 | 0.002 | 3 | 0.002 | 0.001L | 0.001 | 0.001 |
| FLUORIDE | 6 | 0.230 | 0.150 | 0.080 | 0.205 | 8 | 0.260 | 0.180 | 0.080 | 0.219 | 3 | 0.210 | 0.090 | 0.120 | 0.170 |
| HARD TOT | 6 | 150. | 104. | 46.0 | 136. | 8 | 166. | 94.7 | 71.3 | 149. | 3 | 154. | 31.0 | 123. | 108. |
| IRON | 6 | 0.090 | 0.030 | 0.060 | 0.065 | 8 | 0.060 | 0.010L | 0.050 | 0.035 | 3 | 0.060 | 0.030 | 0.030 | 0.043 |
| LEAD | 6 | 0.010L | 0.005L | 0.005 | 0.008 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 6 | 12.4 | 5.50 | 6.90 | 8.28 | 8 | 8.50 | 4.10 | 4.40 | 6.89 | 1 | 9.00 | 9.00 | 0.0 | 9.00 |
| MANGAN | 6 | 0.017 | 0.0 | 0.017 | 0.006 | 8 | 0.014 | 0.002 | 0.012 | 0.008 | 3 | 0.013 | 0.010L | 0.003 | 0.011 |
| NITRATE | 20 | 0.450 | 0.010 | 0.440 | 0.165 | 30 | 0.450 | 0.010L | 0.440 | 0.180 | 3 | 0.680 | 0.010L | 0.670 | 0.277 |
| TOTAL N | 19 | 0.850 | 0.130 | 0.720 | 0.347 | 30 | 1.14 | 0.010 | 1.13 | 0.365 | 3 | 0.940 | 0.270 | 0.670 | 0.500 |
| PH | 20 | 8.30 | 7.50 | 0.800 | 7.90 | 30 | 8.60 | 7.00 | 1.60 | 8.09 | 3 | 8.20 | 7.30 | 0.900 | 7.83 |
| ORTHO P | 20 | 0.029 | 0.003L | 0.026 | 0.010 | 30 | 0.062 | 0.003L | 0.059 | 0.023 | 3 | 0.065 | 0.016 | 0.049 | 0.032 |
| TOTAL P | 20 | 0.088 | 0.003 | 0.085 | 0.027 | 30 | 0.091 | 0.013 | 0.078 | 0.039 | 3 | 0.075 | 0.029 | 0.046 | 0.049 |
| POTASS | 6 | 2.10 | 1.60 | 0.500 | 1.88 | 8 | 2.30 | 1.10 | 1.20 | 1.77 | 3 | 3.00 | 0.700 | 2.30 | 1.80 |
| SILICA | 6 | 19.7 | 17.9 | 1.80 | 18.9 | 8 | 20.5 | 17.7 | 2.80 | 19.5 | 3 | 22.5 | 18.4 | 4.10 | 19.9 |
| SODIUM | 6 | 9.40 | 6.50 | 2.90 | 7.90 | 8 | 8.50 | 5.30 | 3.20 | 7.86 | 3 | 8.80 | 2.30 | 6.50 | 6.27 |
| SULPHATE | 6 | 25.3 | 16.7 | 8.60 | 23.1 | 8 | 27.0 | 16.9 | 10.1 | 24.5 | 3 | 30.2 | 5.80 | 24.4 | 18.9 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 35.0 | 28.0 | 7.00 | 32.2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 6 | 0.005 | 0.001L | 0.004 | 0.002 | 8 | 0.005 | 0.001L | 0.004 | 0.002 | 3 | 0.007 | 0.002 | 0.005 | 0.004 |
| **ORGANIC PARAMETERS** | | | | | | | | | | | | | | | |
| TOC | 20 | 39.0 | 2.00L | 37.0 | 7.10 | 30 | 14.0 | 0.0L | 14.0 | 5.27 | 3 | 9.00 | 5.00 | 4.00 | 6.67 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B508 CK. RIVER AT ENTRANCE TO SKAHA LAKE

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| CCLOUR | 10 | 15.0 | 5.00 | 10.0 | 7.00 | 8 | 5.00 | 0.0 | 5.00 | 2.50 | 4 | 25.0 | 0.0 | 25.0 | 8.75 |
| TURBID | 30 | 4.60 | 0.400 | 4.20 | 1.67 | 39 | 7.40 | 0.700 | 6.70 | 2.51 | 20 | 15.6 | 0.300 | 15.3 | 2.78 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 0.500L | 0.500L | 0.0 | 0.500 | 2 | 10.4 | 5.60 | 4.80 | 8.00 | 2 | 16.0 | 1.80 | 14.2 | 8.90 |
| DISS 02 | 30 | 12.2 | 7.90 | 4.30 | 10.0 | 40 | 12.9 | 8.40 | 4.50 | 11.1 | 20 | 12.8 | 8.30 | 4.50 | 10.6 |
| D.O. SAT | 30 | 117. | 87.0 | 30.0 | 99.6 | 42 | 118. | 68.0 | 50.0 | 98.9 | 20 | 105. | 81.0 | 24.0 | 93.6 |
| TEMP | 7 | 22.0 | 4.40 | 17.6 | 14.3 | 8 | 26.0 | 2.70 | 23.3 | 16.9 | 4 | 25.0 | 5.60 | 19.4 | 16.1 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 144. | 93.0 | 51.0 | 106. | 42 | 190. | 74.7 | 115. | 112. | 20 | 117. | 72.0 | 45.0 | 104. |
| CALCIUM | 7 | 34.2 | 31.0 | 3.20 | 33.2 | 8 | 37.5 | 34.1 | 3.40 | 35.1 | 4 | 34.2 | 28.4 | 5.80 | 31.9 |
| CHLORIDE | 6 | 1.30 | 1.10 | 0.200 | 1.22 | 8 | 1.70 | 1.00 | 0.700 | 1.30 | 4 | 3.40 | 0.800 | 2.60 | 1.70 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.004 | 0.001L | 0.003 | 0.001 | 4 | 0.004 | 0.001 | 0.003 | 0.003 |
| FLUORIDE | 7 | 0.200 | 0.160 | 0.040 | 0.183 | 8 | 0.200 | 0.170 | 0.030 | 0.186 | 4 | 0.200 | 0.160 | 0.040 | 0.172 |
| HARD TOT | 7 | 119. | 112. | 7.00 | 116. | 8 | 120. | 114. | 6.00 | 118. | 4 | 121. | 96.0 | 25.0 | 112. |
| IRON | 7 | 0.320 | 0.010 | 0.310 | 0.061 | 8 | 0.050 | 0.010 | 0.040 | 0.031 | 4 | 0.070 | 0.020 | 0.050 | 0.050 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 8.40 | 7.70 | 0.700 | 8.00 | 8 | 8.20 | 5.70 | 2.50 | 7.35 | 1 | 8.70 | 8.70 | 0.0 | 8.70 |
| MANGAN | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.013 | 0.003 | 0.010 | 0.008 | 4 | 0.047 | 0.010L | 0.037 | 0.020 |
| NITRATE | 30 | 0.250 | 0.010L | 0.240 | 0.045 | 42 | 0.360 | 0.010L | 0.350 | 0.053 | 20 | 0.140 | 0.010L | 0.130 | 0.046 |
| TOTAL N | 28 | 1.82 | 0.090 | 1.73 | 0.368 | 42 | 1.31 | 0.050 | 1.26 | 0.373 | 20 | 2.52 | 0.050 | 2.47 | 0.603 |
| PH | 30 | 8.50 | 7.30 | 1.20 | 8.05 | 42 | 8.50 | 7.70 | 0.800 | 8.16 | 20 | 8.50 | 7.70 | 0.800 | 8.05 |
| ORTHO P | 30 | 0.039 | 0.003L | 0.036 | 0.016 | 42 | 0.160 | 0.003 | 0.157 | 0.035 | 20 | 0.160 | 0.003 | 0.157 | 0.051 |
| TOTAL P | 30 | 0.085 | 0.007 | 0.078 | 0.034 | 40 | 0.241 | 0.023 | 0.218 | 0.056 | 20 | 0.232 | 0.016 | 0.216 | 0.082 |
| POTASS | 6 | 2.30 | 1.90 | 0.400 | 2.12 | 8 | 2.40 | 2.00 | 0.400 | 2.14 | 4 | 2.40 | 1.70 | 0.700 | 2.10 |
| SILICA | 6 | 7.70 | 5.20 | 2.50 | 5.80 | 8 | 6.20 | 5.30 | 0.900 | 5.84 | 4 | 8.50 | 5.10 | 3.40 | 6.57 |
| SODIUM | 6 | 10.3 | 8.50 | 1.80 | 9.40 | 8 | 10.0 | 8.10 | 1.90 | 9.20 | 4 | 11.1 | 8.00 | 3.10 | 9.45 |
| SULPHATE | 7 | 28.0 | 25.4 | 2.60 | 26.8 | 8 | 28.8 | 25.5 | 3.30 | 27.2 | 4 | 33.3 | 23.0 | 10.3 | 27.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 26.0 | 19.0 | 7.00 | 23.1 | 16 | 26.0 | 15.0 | 11.0 | 20.5 |
| ZINC | 7 | 0.005 | 0.001L | 0.004 | 0.002 | 8 | 0.004 | 0.001L | 0.003 | 0.002 | 4 | 0.009 | 0.001L | 0.008 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 14.0 | 2.00 | 12.0 | 5.97 | 42 | 10.0 | 2.00L | 8.00 | 5.31 | 20 | 10.0 | 2.00L | 8.00 | 6.85 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B509 SHINGLE CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 10 | 40.0 | 10.0 | 30.0 | 17.0 | 7 | 37.0 | 2.90 | 34.1 | 12.4 | 2 | 13.0 | 5.00 | 8.00 | 9.00 |
| TURBID | 30 | 7.00 | 0.300 | 6.70 | 1.93 | 27 | 32.0 | 0.600 | 31.4 | 4.83 | 6 | 9.00 | 1.10 | 7.90 | 4.88 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 2 | 6.00 | C.500L | 5.50 | 3.25 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 40.0 | 40.0 | 0.0 | 40.0 |
| DISS 02 | 30 | 13.3 | 7.80 | 5.50 | 10.7 | 27 | 15.1 | 3.10 | 12.0 | 11.1 | 6 | 12.7 | 10.1 | 2.60 | 11.5 |
| D.O. SAT | 30 | 124. | 83.0 | 41.0 | 100. | 28 | 108. | 22.0 | 86.0 | 90.2 | 6 | 92.0 | 81.0 | 11.0 | 87.8 |
| TEMP | 7 | 20.3 | 1.60 | 18.7 | 11.0 | 7 | 25.0 | 0.0 | 25.0 | 14.5 | 2 | 25.1 | 7.10 | 18.0 | 16.1 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 166. | 42.2 | 124. | 133. | 28 | 186. | 30.7 | 155. | 139. | 6 | 170. | 30.0 | 140. | 120. |
| CALCIUM | 7 | 39.6 | 12.9 | 26.7 | 31.7 | 7 | 45.2 | 22.4 | 22.8 | 39.1 | 2 | 39.0 | 14.4 | 24.6 | 26.7 |
| CHLORIDE | 6 | 5.70 | 0.700 | 5.00 | 2.00 | 7 | 2.50 | 0.700 | 1.80 | 1.44 | 2 | 1.70 | C.800 | C.900 | 1.25 |
| COPPER | 7 | 0.003 | 0.001L | 0.002 | 0.002 | 7 | 0.005 | 0.001L | 0.004 | 0.002 | 2 | 0.002 | 0.001 | 0.001 | 0.001 |
| FLUORIDE | 7 | 0.340 | 0.130 | 0.210 | 0.256 | 7 | 0.340 | 0.160 | 0.180 | 0.283 | 2 | 0.290 | C.130 | 0.160 | 0.210 |
| HARD TOT | 7 | 137. | 42.8 | 94.2 | 106. | 7 | 150. | 68.1 | 81.9 | 130. | 2 | 140. | 47.0 | 93.0 | 93.5 |
| IRON | 7 | 0.180 | 0.040 | 0.140 | 0.066 | 7 | 0.090 | 0.020 | 0.070 | 0.051 | 2 | 0.110 | 0.040 | 0.070 | 0.075 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 7 | 0.010L | 0.005L | 0.005 | 0.C09 | 2 | 0.010L | 0.006L | 0.004 | 0.008 |
| MAGNES | 7 | 9.30 | 1.80 | 7.50 | 6.46 | 7 | 9.40 | 3.00 | 6.40 | 7.91 | 1 | 10.4 | 10.4 | 0.0 | 10.4 |
| MANGAN | 7 | 0.035 | 0.001L | 0.034 | 0.009 | 7 | 0.360 | 0.002 | 0.358 | 0.055 | 2 | 0.010L | 0.006L | 0.004 | 0.008 |
| NITRATE | 30 | 0.200 | 0.010L | 0.190 | 0.028 | 28 | 0.110 | 0.010L | 0.100 | 0.034 | 6 | 0.150 | 0.010 | 0.140 | 0.055 |
| TOTAL N | 28 | 1.18 | 0.010 | 1.17 | 0.215 | 28 | 0.980 | 0.010L | 0.970 | 0.237 | 6 | 1.20 | 0.090 | 1.11 | 0.502 |
| PH | 30 | 8.50 | 7.60 | 0.900 | 8.13 | 28 | 8.60 | 6.80 | 1.80 | 8.02 | 6 | 8.00 | 7.30 | 0.700 | 7.77 |
| ORTHO P | 30 | 0.023 | 0.003L | 0.020 | 0.005 | 28 | 0.023 | 0.001L | 0.022 | 0.005 | 6 | 0.016 | 0.003 | 0.013 | 0.007 |
| TOTAL P | 30 | 0.111 | 0.003 | 0.108 | 0.020 | 27 | 0.189 | 0.007 | 0.182 | 0.033 | 6 | 0.091 | 0.007 | 0.084 | 0.036 |
| POTASS | 6 | 2.40 | 1.00 | 1.40 | 1.88 | 7 | 2.70 | 1.70 | 1.00 | 2.23 | 2 | 2.20 | 1.20 | 1.00 | 1.70 |
| SILICA | 6 | 17.9 | 12.0 | 5.90 | 15.6 | 7 | 19.8 | 3.00 | 16.8 | 14.9 | 2 | 20.8 | 16.6 | 4.20 | 18.7 |
| SODIUM | 6 | 30.9 | 7.80 | 23.1 | 15.6 | 7 | 16.5 | 7.10 | 9.40 | 14.7 | 2 | 16.4 | 5.40 | 11.0 | 10.9 |
| SULPHATE | 7 | 15.4 | 7.10 | 8.30 | 11.1 | 7 | 19.7 | 12.7 | 7.00 | 15.2 | 2 | 17.4 | 6.50 | 10.9 | 11.9 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 44.0 | 17.0 | 27.0 | 28.5 | 4 | 38.0 | 6.00 | 32.0 | 27.7 |
| ZINC | 7 | 0.010L | 0.001L | 0.009 | 0.003 | 7 | 0.002 | 0.001L | 0.001 | 0.001 | 2 | 0.001 | 0.001L | 0.0 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 16.0 | 2.00 | 14.0 | 4.93 | 28 | 13.0 | 2.00L | 11.0 | 5.36 | 6 | 13.0 | 2.00L | 11.0 | 6.83 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B510 ELLIS CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 10 | 70.0 | 5.00 | 65.0 | 46.0 | 8 | 55.0 | 10.0 | 45.0 | 29.4 | 3 | 85.0 | 15.0 | 70.0 | 40.0 |
| TURBID | 29 | 62.0 | 1.60 | 60.4 | 10.7 | 37 | 62.0 | 2.20 | 59.8 | 11.7 | 14 | 260. | 0.900 | 259. | 25.6 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 5 | 16.6 | 4.20 | 12.4 | 8.08 | 7 | 52.5 | 2.80 | 49.7 | 12.5 | 2 | 253. | 31.2 | 222. | 142. |
| DISS 02 | 29 | 13.2 | 2.80 | 10.4 | 8.26 | 38 | 13.9 | 6.30 | 7.60 | 10.1 | 14 | 12.8 | 4.90 | 7.90 | 10.3 |
| D.O. SAT | 29 | 103. | 31.0 | 72.0 | 78.0 | 40 | 121. | 63.0 | 58.0 | 90.0 | 13 | 94.0 | 48.0 | 46.0 | 81.2 |
| TEMP | 7 | 19.8 | 1.10 | 18.7 | 11.8 | 8 | 26.0 | 1.10 | 24.9 | 16.7 | 3 | 22.8 | 6.00 | 16.8 | 14.1 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 154. | 10.6 | 143. | 48.0 | 40 | 197. | 10.7 | 186. | 48.5 | 14 | 52.0 | 7.00 | 45.0 | 32.1 |
| CALCIUM | 7 | 391. | 3.40 | 388. | 67.8 | 8 | 17.0 | 7.80 | 9.20 | 13.4 | 3 | 12.2 | 3.00 | 9.20 | 9.00 |
| CHLORIDE | 6 | 8.20 | 1.30 | 6.90 | 3.75 | 8 | 10.2 | 1.10 | 9.10 | 5.10 | 3 | 3.70 | 0.600 | 3.10 | 2.20 |
| COPPER | 7 | 0.002 | 0.001L | 0.001 | 0.001 | 8 | 0.011 | 0.001L | 0.010 | 0.003 | 3 | 0.015 | 0.001 | 0.014 | 0.007 |
| FLUORIDE | 7 | 0.290 | 0.070 | 0.220 | 0.181 | 8 | 0.230 | 0.150 | 0.080 | 0.189 | 3 | 0.210 | 0.120 | 0.090 | 0.160 |
| HARD TOT | 7 | 138. | 12.8 | 125. | 60.8 | 8 | 58.0 | 27.1 | 30.9 | 44.5 | 3 | 41.0 | 11.0 | 30.0 | 30.3 |
| IRON | 7 | 0.650 | 0.020 | 0.630 | 0.336 | 8 | 0.480 | 0.210 | 0.270 | 0.279 | 3 | 0.220 | 0.190 | 0.030 | 0.210 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.017 | 0.005L | 0.012 | 0.010 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 7 | 9.80 | 1.00 | 8.80 | 4.10 | 8 | 4.20 | 1.40 | 2.80 | 2.66 | 1 | 2.40 | 2.40 | 0.0 | 2.40 |
| MANGAN | 7 | 0.750 | 0.001 | 0.749 | 0.157 | 8 | 0.100 | 0.028 | 0.072 | 0.062 | 3 | 0.120 | 0.010L | 0.110 | 0.052 |
| NITRATE | 28 | 2.12 | 0.010L | 2.11 | 0.173 | 40 | 0.200 | 0.010L | 0.190 | 0.034 | 14 | 0.890 | 0.010L | 0.880 | 0.109 |
| TOTAL N | 28 | 2.68 | 0.110 | 2.57 | 0.571 | 39 | 0.760 | 0.041 | 0.719 | 0.376 | 14 | 2.67 | 0.030 | 2.64 | 0.471 |
| PH | 29 | 8.10 | 6.50 | 1.60 | 7.09 | 40 | 8.10 | 6.90 | 1.20 | 7.20 | 14 | 7.80 | 6.60 | 1.20 | 7.06 |
| ORTHO P | 29 | 0.107 | 0.003L | 0.104 | 0.025 | 40 | 0.117 | 0.003 | 0.114 | 0.036 | 14 | 0.033 | 0.007 | 0.026 | 0.013 |
| TOTAL P | 29 | 0.241 | 0.007 | 0.234 | 0.099 | 39 | 0.457 | 0.020 | 0.437 | 0.126 | 14 | 0.424 | 0.016 | 0.408 | 0.076 |
| POTASS | 6 | 2.40 | 1.30 | 1.10 | 1.68 | 8 | 1.70 | 0.800 | 0.900 | 1.19 | 3 | 1.30 | 0.400 | 0.900 | 0.967 |
| SILICA | 6 | 19.4 | 15.8 | 3.60 | 17.4 | 8 | 19.2 | 15.5 | 3.70 | 17.5 | 3 | 22.5 | 16.3 | 6.20 | 19.7 |
| SODIUM | 6 | 15.7 | 6.70 | 9.00 | 8.73 | 8 | 11.7 | 4.20 | 7.50 | 7.97 | 3 | 7.70 | 1.90 | 5.80 | 5.20 |
| SULPHATE | 7 | 18.1 | 1.40 | 16.7 | 11.6 | 8 | 17.8 | 4.90 | 12.9 | 10.1 | 3 | 9.70 | 1.60 | 8.10 | 6.40 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 | 15.0 | 7.00 | 8.00 | 10.7 | 11 | 12.0 | 2.0CL | 10.0 | 6.73 |
| ZINC | 7 | 0.008 | 0.001L | 0.007 | 0.002 | 8 | 0.011 | 0.002L | 0.009 | 0.005 | 3 | 0.008 | 0.001L | 0.007 | 0.005 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 16.0 | 5.00 | 11.0 | 8.59 | 40 | 14.0 | 2.00L | 12.0 | 7.80 | 14 | 19.0 | 2.00 | 17.0 | 10.1 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B511 PENTICTON CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| CCLOUR | 10 | 70.0 | 30.0 | 40.0 | 50.0 | 7 | 60.0 | 10.0 | 50.0 | 33.6 | 4 | 45.0 | 15.0 | 30.0 | 30.0 |
| TURBID | 30 | 29.0 | 0.900 | 28.1 | 4.70 | 26 | 62.0 | 0.800 | 61.2 | 6.11 | 15 | 8.80 | 0.700 | 8.10 | 3.23 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 3 | 33.2 | 0.500L | 32.7 | 14.7 | 1 | 2.40 | 2.40 | 0.0 | 2.40 | 2 | 30.4 | 2.40 | 28.0 | 16.4 |
| DISS 02 | 30 | 13.8 | 8.20 | 5.60 | 10.4 | 26 | 14.5 | 8.80 | 5.70 | 12.0 | 15 | 13.7 | 8.00 | 5.70 | 10.9 |
| D.O. SAT | 30 | 104. | 90.0 | 14.0 | 96.4 | 27 | 111. | 60.0 | 51.0 | 97.6 | 14 | 105. | 90.0 | 15.0 | 96.3 |
| TEMP | 7 | 20.6 | 1.60 | 19.0 | 11.4 | 7 | 24.6 | 0.200 | 24.4 | 14.9 | 4 | 22.8 | 6.60 | 16.2 | 14.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 45.5 | 10.0 | 35.5 | 22.9 | 27 | 229. | 7.80 | 221. | 40.9 | 15 | 46.0 | 7.00 | 39.0 | 21.3 |
| CALCIUM | 7 | 11.4 | 4.10 | 7.30 | 6.27 | 7 | 17.2 | 5.30 | 11.9 | 9.51 | 4 | 11.6 | 3.20 | 8.40 | 7.67 |
| CHLORIDE | 6 | 8.70 | 0.400 | 8.30 | 1.98 | 7 | 1.70 | 0.500 | 1.20 | 0.814 | 4 | 1.50 | 0.600 | 0.900 | 0.875 |
| COPPER | 7 | 0.006 | 0.001L | 0.005 | 0.002 | 7 | 0.004 | 0.001L | 0.003 | 0.003 | 4 | 0.008 | 0.002 | 0.006 | 0.005 |
| FLUORIDE | 6 | 0.100 | 0.060 | 0.040 | 0.075 | 7 | 0.150 | 0.070 | 0.080 | 0.100 | 4 | 0.100 | 0.050 | 0.050 | 0.080 |
| HARD TOT | 7 | 33.2 | 14.2 | 19.0 | 20.7 | 7 | 57.7 | 17.8 | 39.9 | 32.5 | 4 | 40.0 | 11.0 | 29.0 | 26.7 |
| IRON | 7 | 0.680 | 0.090 | 0.590 | 0.383 | 7 | 0.640 | 0.090 | 0.550 | 0.441 | 4 | 0.360 | 0.210 | 0.150 | 0.280 |
| LEAD | 7 | 0.019 | 0.005L | 0.014 | 0.010 | 7 | 0.010L | 0.005 | 0.005 | 0.009 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 1.40 | 1.00 | 0.400 | 1.23 | 7 | 3.90 | 1.10 | 2.80 | 2.14 | 1 | 2.30 | 2.30 | 0.0 | 2.30 |
| MANGAN | 7 | 0.090 | 0.001L | 0.089 | 0.017 | 7 | 0.022 | 0.005 | 0.017 | 0.011 | 4 | 0.020 | 0.010L | 0.010 | 0.015 |
| NITRATE | 30 | 0.220 | 0.010L | 0.210 | 0.028 | 27 | 0.120 | 0.010L | 0.110 | 0.036 | 15 | 0.200 | 0.010L | 0.190 | 0.057 |
| TOTAL N | 30 | 0.870 | 0.080 | 0.790 | 0.260 | 27 | 9.27 | 0.010 | 9.26 | 0.627 | 15 | 2.20 | 0.080 | 2.12 | 0.567 |
| PH | 30 | 8.10 | 6.80 | 1.30 | 7.47 | 27 | 8.80 | 6.80 | 2.00 | 7.64 | 15 | 7.90 | 6.60 | 1.30 | 7.20 |
| ORTHO P | 30 | 0.013 | 0.003L | 0.010 | 0.004 | 27 | 0.029 | 0.003L | 0.026 | 0.005 | 15 | 0.020 | 0.003L | 0.017 | 0.007 |
| TOTAL P | 30 | 0.065 | 0.003 | 0.062 | 0.019 | 26 | 0.359 | 0.010 | 0.349 | 0.036 | 15 | 0.065 | 0.007 | 0.058 | 0.026 |
| POTASS | 6 | 1.00 | 0.600 | 0.400 | 0.817 | 7 | 1.30 | 0.600 | 0.700 | 0.871 | 4 | 1.30 | 0.400 | 0.900 | 0.850 |
| SILICA | 6 | 13.6 | 11.4 | 2.20 | 12.4 | 7 | 18.5 | 10.9 | 7.60 | 14.5 | 4 | 18.4 | 12.6 | 5.80 | 14.3 |
| SODIUM | 6 | 16.5 | 1.90 | 14.6 | 5.43 | 7 | 5.00 | 2.20 | 2.80 | 3.40 | 4 | 3.80 | 1.60 | 2.20 | 2.82 |
| SULPHATE | 7 | 3.00 | 0.300 | 2.70 | 2.09 | 7 | 10.8 | 1.60 | 9.20 | 5.41 | 4 | 9.80 | 3.70 | 6.10 | 7.05 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 19.0 | 3.00 | 16.0 | 8.67 | 11 | 9.00 | 2.00L | 7.00 | 3.55 |
| ZINC | 7 | 0.018 | 0.001L | 0.017 | 0.004 | 7 | 0.080 | 0.001 | 0.079 | 0.014 | 4 | 0.036 | 0.002 | 0.034 | 0.011 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 19.0 | 3.00 | 16.0 | 8.69 | 27 | 15.0 | 2.00L | 13.0 | 6.93 | 15 | 15.0 | 6.00 | 9.00 | 10.9 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8512 TROUT CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 5 | 40.0 | 0.0 | 40.0 | 19.0 | 7 | 30.0 | 0.0 | 30.0 | 15.0 | 4 | 40.0 | 10.0 | 30.0 | 23.0 |
| TURBID | 31 | 150. | 0.600 | 149. | 33.1 | 36 | 165. | 0.200 | 165. | 55.3 | 18 | 210. | 0.300 | 210. | 28.0 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 5 | 182. | 4.00 | 178. | 75.2 | 6 | 581.1 | 5.20 | 576. | 268. | 2 | 1744. | 164. | 1580. | 954. |
| DISS O2 | 31 | 14.2 | 7.60 | 6.60 | 10.7 | 37 | 15.3 | 8.70 | 6.60 | 11.3 | 18 | 13.6 | 8.10 | 5.50 | 11.0 |
| D.O. SAT | 31 | 118. | 80.0 | 38.0 | 101. | 39 | 116. | 91.0 | 25.0 | 101. | 18 | 120. | 87.0 | 33.0 | 98.7 |
| TEMP | 7 | 26.2 | 1.10 | 25.1 | 13.6 | 7 | 25.0 | 1.60 | 23.4 | 18.2 | 4 | 22.8 | 5.60 | 17.2 | 14.0 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 31 | 170. | 37.2 | 133. | 105. | 39 | 203. | 36.8 | 166. | 124. | 18 | 156. | 24.0 | 132. | 84.6 |
| CALCIUM | 7 | 33.3 | 25.4 | 7.90 | 28.8 | 7 | 68.0 | 23.7 | 44.3 | 37.0 | 4 | 28.0 | 10.0 | 18.0 | 22.8 |
| CHLORIDE | 6 | 1.60 | 0.900 | 0.700 | 1.17 | 7 | 4.40 | 1.00 | 3.40 | 2.01 | 4 | 1.90 | 0.800 | 1.10 | 1.22 |
| COPPER | 7 | 0.006 | 0.001L | 0.005 | 0.003 | 7 | 0.015 | 0.001L | 0.014 | 0.006 | 4 | 0.009 | 0.001 | 0.008 | 0.004 |
| FLUORIDE | 7 | 0.240 | 0.150 | 0.090 | 0.190 | 7 | 0.240 | 0.180 | 0.060 | 0.214 | 4 | 0.230 | 0.090 | 0.140 | 0.162 |
| HARD TOT | 7 | 135. | 77.2 | 57.8 | 107. | 7 | 203. | 81.8 | 121. | 132. | 4 | 119. | 32.0 | 87.0 | 86.7 |
| IRON | 7 | 0.080 | 0.020 | 0.060 | 0.047 | 7 | 0.070 | 0.020 | 0.050 | 0.037 | 4 | 0.120 | 0.010L | 0.110 | 0.055 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 7 | 0.029 | 0.005L | 0.024 | 0.012 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 13.3 | 3.30 | 10.0 | 8.46 | 7 | 13.2 | 5.50 | 7.70 | 9.66 | 1 | 11.9 | 11.9 | 0.0 | 11.9 |
| MANGAN | 7 | 0.014 | 0.001L | 0.013 | 0.005 | 7 | 0.019 | 0.003 | 0.016 | 0.011 | 4 | 0.060 | 0.010L | 0.050 | 0.025 |
| NITRATE | 31 | 0.680 | 0.010L | 0.670 | 0.152 | 39 | 0.610 | 0.010L | 0.600 | 0.251 | 18 | 0.710 | 0.010L | 0.700 | 0.201 |
| TOTAL N | 30 | 1.05 | 0.190 | 0.860 | 0.395 | 39 | 1.32 | 0.180 | 1.14 | 0.551 | 18 | 2.86 | 0.060 | 2.80 | 0.602 |
| PH | 31 | 8.80 | 6.60 | 2.20 | 8.21 | 39 | 9.40 | 7.40 | 2.00 | 8.40 | 18 | 9.20 | 7.30 | 1.90 | 8.11 |
| ORTHO P | 31 | 0.010 | 0.003L | 0.007 | 0.005 | 39 | 0.033 | 0.003L | 0.030 | 0.007 | 18 | 0.016 | 0.003L | 0.013 | 0.006 |
| TOTAL P | 31 | 0.323 | 0.003L | 0.320 | 0.051 | 38 | 0.684 | 0.020 | 0.664 | 0.184 | 18 | 1.27 | 0.016 | 1.25 | 0.236 |
| POTASS | 6 | 2.50 | 1.60 | 0.900 | 1.98 | 7 | 2.90 | 1.50 | 1.40 | 2.06 | 4 | 2.20 | 1.00 | 1.20 | 1.72 |
| SILICA | 6 | 17.3 | 5.40 | 11.9 | 14.6 | 7 | 17.9 | 14.5 | 3.40 | 15.9 | 4 | 21.8 | 13.3 | 8.50 | 16.9 |
| SODIUM | 6 | 16.8 | 5.40 | 11.4 | 10.5 | 7 | 19.2 | 9.00 | 10.2 | 15.4 | 4 | 14.8 | 2.40 | 12.4 | 9.37 |
| SULPHATE | 7 | 41.2 | 16.9 | 24.3 | 27.1 | 7 | 54.9 | 22.2 | 32.7 | 39.4 | 4 | 40.3 | 5.70 | 34.6 | 23.8 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 14 | 51.0 | 16.0 | 35.0 | 29.3 | 14 | 29.0 | 3.00 | 26.0 | 15.2 |
| ZINC | 7 | 0.013 | 0.001L | 0.012 | 0.004 | 7 | 0.014 | 0.001 | 0.013 | 0.006 | 4 | 0.029 | 0.001 | 0.028 | 0.009 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 30 | 22.0 | 3.00 | 19.0 | 6.60 | 39 | 15.0 | 2.00 | 13.0 | 7.51 | 18 | 23.0 | 4.00 | 19.0 | 11.4 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: BS13 CHUTE CREEK

| | 1969 | | | | 1970 | | | | 1971 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 5 | 70.0 | 25.0 | 45.0 | 38.0 | 8 | 60.0 | 15.0 | 45.0 | 35.6 | 3 | 55.0 | 45.0 | 10.0 | 48.3 |
| TURBID | 25 | 18.0 | 0.600 | 17.4 | 2.51 | 28 | 13.0 | 0.700 | 12.3 | 2.94 | 3 | 3.50 | 0.600 | 2.90 | 2.20 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 2 | 0.500L | C.50CL | 0.0 | 0.500 | 1 | 2.40 | 2.40 | 0.0 | 2.40 | 1 | 1.60 | 1.60 | 0.0 | 1.60 |
| DISS 02 | 25 | 13.2 | 8.60 | 4.60 | 10.4 | 27 | 14.1 | 10.0 | 4.10 | 12.1 | 3 | 12.6 | 8.20 | 4.40 | 10.5 |
| D.O. SAT | 25 | 100. | 87.0 | 13.0 | 94.4 | 29 | 110. | 93.0 | 17.0 | 99.5 | 3 | 94.0 | 86.0 | 8.00 | 90.0 |
| TEMP | 6 | 15.1 | 1.10 | 14.0 | 9.02 | 8 | 25.0 | 0.0 | 25.0 | 15.6 | 3 | 22.8 | 9.30 | 13.5 | 16.3 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 25 | 54.0 | 17.0 | 37.0 | 32.2 | 29 | 42.7 | 16.6 | 26.1 | 30.4 | 3 | 28.0 | 16.0 | 12.0 | 23.7 |
| CALCIUM | 6 | 13.8 | 6.30 | 7.50 | 10.0 | 8 | 13.5 | 6.10 | 7.40 | 10.1 | 3 | 9.60 | 6.00 | 3.60 | 8.03 |
| CHLORIDE | 5 | 1.20 | 0.500 | 0.700 | 0.720 | 8 | 0.900 | 0.400 | 0.500 | 0.625 | 3 | 0.800 | 0.600 | 0.200 | 0.700 |
| COPPER | 6 | 0.002 | 0.001L | 0.001 | 0.001 | 8 | 0.004 | 0.001L | 0.003 | 0.001 | 3 | 0.005 | 0.001 | 0.004 | 0.003 |
| FLUORIDE | 6 | 0.120 | 0.080 | 0.040 | 0.098 | 8 | 0.130 | 0.090 | 0.040 | 0.110 | 3 | 0.100 | 0.080 | 0.020 | 0.090 |
| HARD TOT | 6 | 38.6 | 21.4 | 17.2 | 31.1 | 8 | 41.2 | 20.2 | 21.0 | 31.7 | 3 | 31.0 | 21.0 | 10.0 | 27.3 |
| IRON | 6 | 0.330 | 0.100 | 0.230 | 0.153 | 8 | 0.340 | 0.090 | 0.250 | 0.192 | 3 | 0.360 | 0.210 | 0.150 | 0.273 |
| LEAD | 6 | 0.010L | 0.005L | 0.005 | 0.008 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 6 | 2.20 | 0.300 | 1.90 | 1.50 | 8 | 2.00 | 0.800 | 1.20 | 1.59 | 1 | 2.40 | 2.40 | 0.0 | 2.40 |
| MANGAN | 6 | 0.005 | 0.001 | 0.004 | 0.003 | 8 | 0.010L | 0.002 | 0.008 | 0.005 | 3 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 25 | 0.080 | 0.010L | 0.070 | 0.022 | 29 | 0.450 | 0.010L | 0.440 | 0.047 | 3 | 0.120 | 0.010L | 0.110 | 0.073 |
| TOTAL N | 25 | 0.430 | 0.100 | 0.330 | 0.302 | 28 | 0.550 | 0.040 | 0.510 | 0.323 | 3 | 2.36 | 0.340 | 2.02 | 1.05 |
| PH | 25 | 8.00 | 7.10 | 0.900 | 7.67 | 29 | 8.40 | 7.00 | 1.40 | 7.68 | 3 | 7.60 | 7.10 | 0.500 | 7.30 |
| ORTHO P | 25 | 0.010 | 0.003L | 0.007 | 0.005 | 29 | 0.013 | 0.003L | 0.010 | 0.005 | 3 | 0.007 | 0.007 | 0.0 | 0.007 |
| TOTAL P | 25 | 0.020 | 0.007 | 0.013 | 0.012 | 28 | 0.029 | 0.007 | 0.022 | 0.015 | 3 | 0.023 | 0.016 | 0.007 | 0.020 |
| POTASS | 5 | 1.30 | 0.800 | 0.500 | 1.10 | 8 | 1.80 | 0.400 | 1.40 | 1.00 | 3 | 1.20 | 0.700 | 0.500 | 0.967 |
| SILICA | 5 | 18.0 | 15.0 | 3.00 | 16.6 | 8 | 19.2 | 14.2 | 5.00 | 16.3 | 3 | 18.2 | 13.5 | 4.70 | 16.4 |
| SODIUM | 5 | 4.50 | 2.50 | 2.00 | 3.52 | 8 | 4.80 | 2.60 | 2.20 | 3.85 | 3 | 3.40 | 2.00 | 1.40 | 2.87 |
| SULPHATE | 6 | 22.5 | 2.70 | 19.8 | 9.18 | 8 | 10.9 | 4.40 | 6.50 | 7.10 | 3 | 8.40 | 5.80 | 2.60 | 7.13 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 6.00 | 5.00 | 1.00 | 5.60 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 6 | 0.005 | 0.001L | 0.004 | 0.002 | 8 | 0.004 | 0.001L | 0.003 | 0.002 | 3 | 0.005 | 0.001 | 0.004 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 24 | 27.0 | 8.00 | 19.0 | 11.1 | 29 | 17.0 | 5.00 | 12.0 | 10.8 | 3 | 14.0 | 11.0 | 3.00 | 12.7 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8514 PEACHLAND CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 25.0 | 5.00 | 20.0 | 14.2 | 8 | 20.0 | 0.0 | 20.0 | 8.37 | 3 | 65.0 | 5.00 | 60.0 | 26.7 |
| TURBID | 30 | 23.0 | 0.800 | 22.2 | 6.47 | 38 | 40.0 | 0.200 | 39.8 | 6.58 | 14 | 57.0 | 0.300 | 56.7 | 13.2 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 5 | 15.4 | 4.00 | 11.4 | 8.28 | 4 | 35.6 | 8.00 | 27.6 | 17.9 | 2 | 113. | 56.8 | 56.2 | 84.9 |
| DISS O2 | 30 | 13.2 | 8.60 | 4.60 | 10.6 | 39 | 13.7 | 9.60 | 4.10 | 11.5 | 14 | 13.2 | 8.90 | 4.30 | 11.5 |
| D.O. SAT | 30 | 104. | 88.0 | 16.0 | 96.0 | 42 | 112. | 89.0 | 23.0 | 98.9 | 14 | 100. | 90.0 | 10.0 | 95.6 |
| TEMP | 7 | 16.8 | 2.70 | 14.1 | 10.6 | 8 | 25.1 | 1.60 | 23.5 | 15.8 | 3 | 22.8 | 8.80 | 14.0 | 15.6 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 191. | 101. | 90.0 | 145. | 41 | 203. | 69.3 | 134. | 141. | 14 | 192. | 58.0 | 134. | 142. |
| CALCIUM | 7 | 64.2 | 34.8 | 29.4 | 49.6 | 8 | 72.7 | 25.6 | 47.1 | 49.2 | 3 | 59.1 | 34.4 | 24.7 | 48.8 |
| CHLORIDE | 6 | 1.30 | 0.0 | 1.30 | 0.900 | 8 | 1.30 | 0.800 | 0.500 | 1.06 | 3 | 1.30 | 0.600 | 0.700 | 1.03 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.011 | 0.001L | 0.010 | 0.002 | 3 | 0.003 | 0.001 | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.640 | 0.250 | 0.390 | 0.390 | 8 | 0.660 | 0.130 | 0.530 | 0.365 | 3 | 0.520 | 0.160 | 0.360 | 0.353 |
| HARD TOT | 7 | 198. | 110. | 88.0 | 150. | 8 | 215. | 73.8 | 141. | 148. | 3 | 189. | 101. | 88.0 | 152. |
| IRON | 7 | 0.090 | 0.010 | 0.080 | 0.034 | 8 | 0.180 | 0.010 | 0.170 | 0.041 | 3 | 0.040 | 0.010L | 0.030 | 0.023 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 7 | 9.10 | 4.20 | 4.90 | 6.36 | 8 | 8.50 | 2.40 | 6.10 | 6.15 | 1 | 7.90 | 7.90 | 0.0 | 7.90 |
| MANGAN | 7 | 0.006 | 0.001L | 0.005 | 0.003 | 8 | 0.010L | 0.002 | 0.008 | 0.005 | 3 | 0.010 | 0.010L | 0.0 | 0.010 |
| NITRATE | 30 | 0.750 | 0.010 | 0.740 | 0.400 | 42 | 1.69 | 0.040 | 1.65 | 0.569 | 14 | 0.780 | 0.190 | 0.590 | 0.496 |
| TOTAL N | 30 | 0.890 | 0.180 | 0.710 | 0.629 | 42 | 2.06 | 0.040 | 2.02 | 0.843 | 14 | 2.79 | 0.350 | 2.44 | 0.881 |
| PH | 30 | 8.50 | 7.40 | 1.10 | 8.17 | 42 | 8.60 | 7.50 | 1.10 | 8.25 | 14 | 8.40 | 7.70 | 0.700 | 8.15 |
| ORTHO P | 30 | 0.030 | 0.003L | 0.027 | 0.012 | 42 | 0.062 | 0.003L | 0.059 | 0.017 | 14 | 0.029 | 0.003 | 0.026 | 0.015 |
| TOTAL P | 30 | 0.117 | 0.003L | 0.114 | 0.032 | 41 | 0.134 | 0.007 | 0.127 | 0.039 | 14 | 0.245 | 0.016 | 0.229 | 0.065 |
| POTASS | 6 | 3.00 | 1.90 | 1.10 | 2.42 | 8 | 2.90 | 1.80 | 1.10 | 2.21 | 3 | 2.80 | 1.70 | 1.10 | 2.37 |
| SILICA | 6 | 19.3 | 15.7 | 3.60 | 17.5 | 8 | 19.5 | 14.0 | 5.50 | 16.9 | 3 | 23.0 | 15.0 | 8.00 | 18.1 |
| SODIUM | 6 | 10.0 | 5.40 | 4.60 | 7.05 | 8 | 10.8 | 3.80 | 7.00 | 6.71 | 3 | 9.30 | 3.40 | 5.90 | 6.67 |
| SULPHATE | 7 | 22.1 | 12.9 | 9.20 | 17.3 | 8 | 26.0 | 8.80 | 17.2 | 18.3 | 3 | 26.8 | 15.1 | 11.7 | 21.5 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 17 | 47.0 | 22.0 | 25.0 | 34.7 | 11 | 43.0 | 7.00 | 36.0 | 26.2 |
| ZINC | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.004 | 0.001L | 0.003 | 0.002 | 3 | 0.004 | 0.001 | 0.003 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 30 | 10.0 | 2.00 | 8.00 | 4.93 | 42 | 12.0 | 2.00L | 10.0 | 5.64 | 14 | 24.0 | 2.00L | 22.0 | 8.00 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8515 TREPANIER CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 20.0 | 5.00 | 15.0 | 9.33 | 8 | 30.0 | 0.0 | 30.0 | 9.00 | 3 | 55.0 | 7.00 | 48.0 | 24.0 |
| TURBID | 30 | 7.50 | 0.200 | 7.30 | 2.13 | 32 | 26.0 | 0.100 | 25.9 | 3.17 | 7 | 5.30 | 0.400 | 4.90 | 1.54 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 2 | 1.60 | 0.600 | 1.00 | 1.10 | 1 | 2.00 | 2.00 | 0.0 | 2.00 | 1 | 34.0 | 34.0 | 0.0 | 34.0 |
| DISS O2 | 30 | 13.8 | 3.00 | 10.8 | 10.6 | 32 | 14.2 | 9.10 | 5.10 | 11.9 | 7 | 14.0 | 8.80 | 5.20 | 12.0 |
| D.O. SAT | 30 | 114. | 13.0 | 101. | 95.6 | 34 | 109. | 94.0 | 15.0 | 99.3 | 7 | 99.0 | 92.0 | 7.00 | 95.1 |
| TEMP | 7 | 18.3 | 0.500 | 17.8 | 10.4 | 8 | 25.1 | 0.0 | 25.1 | 15.7 | 3 | 22.6 | 6.60 | 16.0 | 15.2 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 107. | 52.0 | 55.0 | 84.5 | 34 | 102. | 25.6 | 76.4 | 83.3 | 7 | 102. | 27.0 | 75.0 | 74.7 |
| CALCIUM | 7 | 29.0 | 3.80 | 25.2 | 22.9 | 8 | 28.1 | 13.6 | 14.5 | 25.1 | 3 | 25.7 | 8.90 | 16.8 | 20.0 |
| CHLORIDE | 6 | 0.500 | 0.080 | 0.420 | 0.347 | 8 | 0.400 | 0.200 | 0.200 | 0.337 | 3 | 0.800 | 0.400 | 0.400 | 0.600 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.003 | 0.001L | 0.002 | 0.001 | 3 | 0.004 | 0.001 | 0.003 | 0.002 |
| FLUORIDE | 7 | 0.080 | 0.060 | 0.020 | 0.071 | 8 | 0.110 | 0.050 | 0.060 | 0.080 | 3 | 0.090 | 0.050L | 0.040 | 0.070 |
| HARD TOT | 7 | 85.7 | 61.6 | 24.1 | 79.8 | 8 | 87.3 | 42.2 | 45.1 | 76.2 | 3 | 82.0 | 28.0 | 54.0 | 63.3 |
| IRON | 6 | 0.060 | 0.010 | 0.050 | 0.022 | 8 | 0.060 | 0.010L | 0.050 | 0.021 | 3 | 0.060 | 0.020 | 0.040 | 0.033 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 7 | 4.60 | 0.0 | 4.60 | 2.94 | 8 | 4.30 | 1.80 | 2.50 | 3.32 | 1 | 4.50 | 4.50 | 0.0 | 4.50 |
| MANGAN | 7 | 0.003 | 0.001L | 0.002 | 0.002 | 7 | 0.010 | 0.001 | 0.009 | 0.003 | 3 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 30 | 0.410 | 0.003 | 0.407 | 0.029 | 33 | 0.120 | 0.010L | 0.110 | 0.021 | 7 | 0.090 | 0.010L | 0.080 | 0.031 |
| TOTAL N | 30 | 0.890 | 0.010 | 0.880 | 0.166 | 33 | 0.490 | 0.010L | 0.480 | 0.149 | 7 | 0.390 | 0.030 | 0.360 | 0.184 |
| PH | 30 | 8.50 | 7.30 | 1.20 | 8.07 | 34 | 8.60 | 7.40 | 1.20 | 8.09 | 7 | 8.20 | 7.20 | 1.00 | 7.86 |
| ORTHO P | 30 | 0.060 | 0.003L | 0.057 | 0.007 | 34 | 0.026 | 0.003L | 0.023 | 0.005 | 7 | 0.010 | 0.003 | 0.007 | 0.007 |
| TOTAL P | 30 | 0.062 | 0.003L | 0.059 | 0.012 | 33 | 0.173 | 0.0 | 0.173 | 0.018 | 7 | 0.042 | 0.007 | 0.035 | 0.015 |
| POTASS | 6 | 1.90 | 0.0 | 1.90 | 1.37 | 8 | 1.80 | 1.10 | 0.700 | 1.46 | 3 | 1.60 | 0.800 | 0.800 | 1.33 |
| SILICA | 6 | 16.3 | 14.4 | 1.90 | 15.1 | 8 | 16.4 | 15.2 | 1.20 | 15.7 | 3 | 19.0 | 14.2 | 4.80 | 16.4 |
| SODIUM | 6 | 4.80 | 1.30 | 3.50 | 3.48 | 8 | 4.40 | 2.50 | 1.90 | 3.91 | 3 | 4.20 | 1.60 | 2.60 | 3.17 |
| SULPHATE | 6 | 4.80 | 3.50 | 1.30 | 4.15 | 8 | 6.20 | 1.90 | 4.30 | 3.57 | 3 | 5.50 | 1.00 | 4.50 | 3.93 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 9 | 22.0 | 14.0 | 8.00 | 17.9 | 4 | 22.0 | 7.00 | 15.0 | 17.0 |
| ZINC | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.002 | 0.001L | 0.001 | 0.001 | 3 | 0.003 | 0.002 | 0.001 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 30 | 17.0 | 0.0 | 17.0 | 3.93 | 34 | 25.0 | 2.00 | 23.0 | 6.06 | 7 | 13.0 | 2.00L | 11.0 | 6.29 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: BS16 POWERS CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 30.0 | 7.00 | 23.0 | 17.0 | 8 | 50.0 | 5.00 | 45.0 | 22.5 | 4 | 65.0 | 0.0 | 65.0 | 25.0 |
| TURBID | 29 | 9.10 | 0.600 | 8.50 | 1.90 | 38 | 60.0 | 0.600 | 59.4 | 4.45 | 20 | 36.0 | 0.300 | 35.7 | 3.56 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 11.2 | 11.2 | 0.0 | 11.2 | 1 | 28.8 | 28.8 | 0.0 | 28.8 | 2 | 108. | 11.6 | 96.8 | 60.0 |
| DISS 02 | 29 | 13.6 | 8.60 | 5.00 | 10.9 | 40 | 13.9 | 9.20 | 4.70 | 11.7 | 20 | 13.4 | 8.50 | 4.90 | 11.3 |
| D.O. SAT | 29 | 105. | 86.0 | 19.0 | 95.8 | 42 | 113. | 78.0 | 35.0 | 96.5 | 20 | 131. | 89.0 | 42.0 | 97.4 |
| TEMP | 7 | 16.3 | 2.40 | 13.9 | 10.1 | 8 | 24.2 | 1.10 | 23.1 | 14.3 | 4 | 22.6 | 5.70 | 16.9 | 12.9 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 221. | 66.3 | 155. | 135. | 42 | 231. | 31.6 | 199. | 125. | 20 | 200. | 24.0 | 176. | 104. |
| CALCIUM | 7 | 59.4 | 25.5 | 33.9 | 38.5 | 8 | 47.0 | 13.0 | 34.0 | 34.1 | 4 | 48.0 | 8.80 | 39.2 | 29.7 |
| CHLORIDE | 6 | 2.80 | 0.900 | 1.90 | 1.85 | 8 | 2.40 | 0.600 | 1.80 | 1.46 | 4 | 2.80 | 0.600 | 2.20 | 1.62 |
| COPPER | 7 | 0.007 | 0.001L | 0.006 | 0.002 | 8 | 0.008 | 0.001L | 0.007 | 0.003 | 4 | 0.003 | 0.001L | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.390 | 0.140 | 0.250 | 0.230 | 8 | 0.290 | 0.070 | 0.220 | 0.189 | 4 | 0.240 | 0.020 | 0.220 | 0.157 |
| HARD TOT | 7 | 232. | 84.2 | 148. | 143. | 8 | 173. | 37.9 | 135. | 120. | 4 | 202. | 28.0 | 174. | 117. |
| IRON | 7 | 0.050 | 0.010 | 0.040 | 0.027 | 8 | 0.250 | 0.010L | 0.240 | 0.065 | 4 | 0.080 | 0.020 | 0.060 | 0.047 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.010L | 0.005L | 0.005 | 0.007 |
| MAGNES | 7 | 20.3 | 5.00 | 15.3 | 11.5 | 8 | 13.8 | 1.30 | 12.5 | 8.57 | 1 | 11.8 | 11.8 | 0.0 | 11.8 |
| MANGAN | 7 | 0.012 | 0.001L | 0.011 | 0.004 | 8 | 0.010L | 0.002 | 0.008 | 0.005 | 4 | 0.030 | 0.010L | 0.020 | 0.016 |
| NITRATE | 29 | 1.09 | 0.090 | 1.00 | 0.534 | 42 | 2.08 | 0.010 | 2.07 | 0.675 | 20 | 1.27 | 0.010 | 1.26 | 0.543 |
| TOTAL N | 28 | 1.40 | 0.360 | 1.04 | 0.760 | 41 | 2.17 | 0.140 | 2.03 | 0.978 | 20 | 2.13 | 0.330 | 1.80 | 0.842 |
| PH | 29 | 8.20 | 7.30 | 0.900 | 7.92 | 42 | 8.40 | 7.50 | 0.900 | 8.09 | 20 | 8.30 | 7.10 | 1.20 | 7.91 |
| ORTHO P | 29 | 0.028 | 0.003L | 0.025 | 0.016 | 42 | 0.039 | 0.007 | 0.032 | 0.023 | 20 | 0.049 | 0.007 | 0.042 | 0.025 |
| TOTAL P | 29 | 0.088 | 0.007 | 0.081 | 0.030 | 41 | 0.330 | 0.010 | 0.320 | 0.045 | 20 | 0.173 | 0.016 | 0.157 | 0.044 |
| POTASS | 6 | 2.60 | 1.50 | 1.10 | 1.95 | 8 | 3.50 | 0.900 | 2.60 | 1.85 | 4 | 2.60 | 0.800 | 1.80 | 1.72 |
| SILICA | 6 | 19.0 | 5.40 | 13.6 | 15.1 | 8 | 19.8 | 15.8 | 4.00 | 17.6 | 4 | 22.4 | 16.2 | 6.20 | 18.0 |
| SODIUM | 6 | 22.0 | 8.40 | 13.6 | 14.3 | 8 | 17.2 | 3.40 | 13.8 | 11.0 | 4 | 19.0 | 1.80 | 17.2 | 10.8 |
| SULPHATE | 7 | 71.8 | 17.3 | 54.5 | 39.1 | 8 | 51.2 | 6.50 | 44.7 | 32.2 | 4 | 67.2 | 2.90 | 64.3 | 33.9 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 51.0 | 17.0 | 34.0 | 31.9 | 16 | 40.0 | 5.00 | 35.0 | 20.7 |
| ZINC | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.006 | 0.001L | 0.005 | 0.002 | 4 | 0.003 | 0.001 | 0.002 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 15.0 | 2.00 | 13.0 | 5.96 | 42 | 15.0 | 2.00L | 13.0 | 8.57 | 20 | 16.0 | 4.00 | 12.0 | 9.15 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B517 SMITH CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 30.0 | 10.0 | 20.0 | 16.7 | 8 | 20.0 | 5.00 | 15.0 | 11.9 | 3 | 45.0 | 10.0 | 35.0 | 23.3 |
| TURBID | 28 | 225. | 7.30 | 218. | 28.3 | 38 | 110. | 11.0 | 99.0 | 27.0 | 14 | 230. | 4.00 | 226. | 29.8 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 6 | 56.0 | 15.6 | 40.4 | 34.5 | 7 | 225. | 12.4 | 213. | 83.0 | 2 | 96.0 | 74.0 | 22.0 | 85.0 |
| DISS 02 | 29 | 12.9 | 8.60 | 4.30 | 10.6 | 40 | 13.5 | 9.20 | 4.30 | 11.3 | 14 | 13.0 | 8.80 | 4.20 | 11.0 |
| D.O. SAT | 29 | 101. | 89.0 | 12.0 | 95.3 | 42 | 109. | 88.0 | 21.0 | 96.6 | 14 | 97.0 | 86.0 | 11.0 | 93.1 |
| TEMP | 7 | 16.3 | 4.40 | 11.9 | 10.7 | 8 | 24.2 | 3.00 | 21.2 | 14.9 | 3 | 22.7 | 12.6 | 10.1 | 16.8 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 356. | 3.00 | 353. | 308. | 42 | 386. | 241. | 145. | 324. | 14 | 373. | 202. | 171. | 316. |
| CALCIUM | 7 | 101. | 83.3 | 17.7 | 91.6 | 8 | 427. | 74.8 | 352. | 132. | 3 | 125. | 58.1 | 66.9 | 91.0 |
| CHLORIDE | 6 | 9.00 | 6.10 | 2.90 | 7.35 | 8 | 8.60 | 5.60 | 3.00 | 7.25 | 3 | 11.0 | 5.00 | 6.00 | 8.87 |
| COPPER | 7 | 0.002 | 0.001L | 0.001 | 0.002 | 8 | 0.005 | 0.001L | 0.004 | 0.003 | 3 | 0.007 | 0.002 | 0.005 | 0.004 |
| FLUORIDE | 7 | 0.500 | 0.420 | 0.080 | 0.463 | 8 | 0.440 | 0.360 | 0.080 | 0.414 | 3 | 0.420 | 0.290 | 0.130 | 0.367 |
| HARD TOT | 7 | 491. | 336. | 155. | 387. | 8 | 511. | 306. | 205. | 382. | 3 | 602. | 250. | 352. | 406. |
| IRON | 7 | 0.100 | 0.010 | 0.090 | 0.033 | 8 | 0.030 | 0.010L | 0.020 | 0.017 | 3 | 0.020 | 0.010L | 0.010 | 0.017 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 7 | 58.0 | 31.1 | 26.9 | 38.5 | 8 | 55.0 | 28.8 | 26.2 | 40.5 | 1 | 34.2 | 34.2 | 0.0 | 34.2 |
| MANGAN | 7 | 0.005 | 0.001L | 0.004 | 0.002 | 8 | 0.014 | 0.001 | 0.013 | 0.006 | 3 | 0.018 | 0.010L | 0.008 | 0.013 |
| NITRATE | 29 | 0.900 | 0.320 | 0.580 | 0.528 | 42 | 1.54 | 0.320 | 1.22 | 0.769 | 14 | 1.11 | 0.130 | 0.980 | 0.669 |
| TOTAL N | 28 | 2.13 | 0.590 | 1.54 | 1.14 | 41 | 3.14 | 0.630 | 2.51 | 1.55 | 14 | 4.66 | 0.640 | 4.02 | 2.17 |
| PH | 29 | 8.80 | 7.90 | 0.900 | 8.34 | 42 | 8.50 | 8.00 | 0.500 | 8.39 | 14 | 8.50 | 7.80 | 0.700 | 8.32 |
| ORTHO P | 29 | 0.554 | 0.030 | 0.524 | 0.210 | 42 | 0.978 | 0.023 | 0.955 | 0.235 | 14 | 1.17 | 0.042 | 1.13 | 0.404 |
| TOTAL P | 29 | 0.848 | 0.078 | 0.770 | 0.333 | 41 | 1.08 | 0.039 | 1.04 | 0.349 | 14 | 1.27 | 0.088 | 1.18 | 0.527 |
| POTASS | 6 | 5.70 | 3.90 | 1.80 | 4.57 | 8 | 5.50 | 3.30 | 2.20 | 4.55 | 3 | 6.30 | 2.70 | 3.60 | 4.83 |
| SILICA | 6 | 28.3 | 22.7 | 5.60 | 25.8 | 8 | 26.2 | 24.3 | 1.90 | 25.3 | 3 | 34.7 | 23.5 | 11.2 | 27.9 |
| SODIUM | 6 | 248. | 49.0 | 199. | 89.0 | 8 | 73.0 | 46.0 | 27.0 | 55.4 | 3 | 98.0 | 34.4 | 63.6 | 61.1 |
| SULPHATE | 7 | 310. | 134. | 176. | 180. | 8 | 311. | 112. | 199. | 189. | 3 | 413. | 113. | 300. | 225. |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 78.0 | 11.0 | 67.0 | 64.1 | 11 | 75.0 | 29.0 | 46.0 | 63.2 |
| ZINC | 7 | 0.005 | 0.001L | 0.004 | 0.002 | 8 | 0.018 | 0.001 | 0.017 | 0.005 | 3 | 0.013 | 0.001L | 0.012 | 0.005 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 16.0 | 2.00L | 14.0 | 6.79 | 41 | 23.0 | 2.00L | 21.0 | 10.5 | 14 | 28.0 | 5.00 | 23.0 | 10.1 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B518 MC DOUGALL CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 1 | 10.0 | 10.0 | 0.0 | 10.0 | 4 | 50.0 | 0.0 | 50.0 | 15.0 | 3 | 55.0 | 0.0 | 55.0 | 20.0 |
| TURBID | 4 | 5.90 | 0.900 | 5.00 | 3.20 | 17 | 24.0 | 0.200 | 23.8 | 4.28 | 14 | 16.0 | 0.100 | 15.9 | 3.14 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 31.6 | 31.6 | 0.0 | 31.6 | 1 | 62.0 | 62.0 | 0.0 | 62.0 |
| DISS O2 | 5 | 10.3 | 9.00 | 1.30 | 9.56 | 18 | 12.3 | 9.60 | 2.70 | 11.2 | 14 | 11.6 | 9.20 | 2.40 | 10.7 |
| D.O. SAT | 5 | 96.0 | 90.0 | 6.00 | 93.4 | 18 | 101. | 81.0 | 20.0 | 91.7 | 14 | 103. | 83.0 | 20.0 | 90.5 |
| TEMP | 2 | 14.8 | 14.1 | 0.700 | 14.4 | 4 | 24.2 | 4.10 | 20.1 | 18.6 | 3 | 22.7 | 7.70 | 15.0 | 15.0 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 5 | 218. | 206. | 12.0 | 211. | 18 | 244. | 48.3 | 196. | 172. | 14 | 212. | 36.0 | 176. | 163. |
| CALCIUM | 2 | 61.2 | 51.1 | 0.100 | 61.1 | 4 | 64.5 | 15.7 | 48.8 | 47.9 | 3 | 60.6 | 11.6 | 49.0 | 42.8 |
| CHLORIDE | 1 | 2.20 | 2.20 | 0.0 | 2.20 | 4 | 2.80 | 0.900 | 1.90 | 2.00 | 3 | 2.80 | 0.700 | 2.10 | 2.07 |
| COPPER | 2 | 0.002L | 0.002L | 0.0 | 0.002 | 4 | 0.006 | 0.001L | 0.005 | 0.003 | 3 | 0.004 | 0.001L | 0.003 | 0.002 |
| FLUORIDE | 2 | 0.350 | 0.330 | 0.020 | 0.340 | 4 | 0.330 | 0.120 | 0.210 | 0.270 | 3 | 0.330 | 0.100 | 0.230 | 0.247 |
| HARD TOT | 2 | 205. | 201. | 4.00 | 203. | 4 | 209. | 47.9 | 161. | 159. | 3 | 206. | 37.0 | 169. | 146. |
| IRON | 2 | 0.010 | 0.010 | 0.0 | 0.010 | 4 | 0.110 | 0.010L | 0.100 | 0.040 | 3 | 0.070 | 0.010L | 0.060 | 0.030 |
| LEAD | 2 | 0.005L | 0.005L | 0.0 | 0.005 | 4 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 2 | 12.7 | 11.8 | 0.900 | 12.2 | 4 | 13.2 | 2.10 | 11.1 | 9.62 | 1 | 13.0 | 13.0 | 0.0 | 13.0 |
| MANGAN | 2 | 0.001L | 0.001L | 0.0 | 0.001 | 4 | 0.022 | 0.001L | 0.021 | 0.009 | 3 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 5 | 0.110 | 0.010L | 0.100 | 0.040 | 18 | 0.190 | 0.010L | 0.180 | 0.043 | 14 | 0.360 | 0.010 | 0.350 | 0.145 |
| TOTAL N | 5 | 0.280 | 0.130 | 0.150 | 0.218 | 16 | 0.550 | 0.030 | 0.520 | 0.285 | 14 | 0.780 | 0.220 | 0.560 | 0.454 |
| PH | 5 | 8.40 | 8.20 | 0.200 | 8.32 | 18 | 8.20 | 7.30 | 0.900 | 7.97 | 14 | 8.10 | 7.30 | 0.800 | 7.86 |
| ORTHO P | 5 | 0.078 | 0.036 | 0.042 | 0.057 | 18 | 0.092 | 0.039 | 0.053 | 0.065 | 14 | 0.108 | 0.068 | 0.040 | 0.083 |
| TOTAL P | 5 | 0.122 | 0.036 | 0.086 | 0.075 | 17 | 0.179 | 0.068 | 0.111 | 0.088 | 14 | 0.170 | 0.072 | 0.098 | 0.103 |
| POTASS | 1 | 2.00 | 2.00 | 0.0 | 2.00 | 4 | 2.20 | 1.00 | 1.20 | 1.72 | 3 | 2.10 | 0.800 | 1.30 | 1.63 |
| SILICA | 1 | 26.0 | 26.0 | 0.0 | 26.0 | 4 | 26.3 | 22.0 | 4.30 | 24.5 | 3 | 35.6 | 23.2 | 12.4 | 27.8 |
| SODIUM | 1 | 20.3 | 20.3 | 0.0 | 20.3 | 4 | 20.4 | 4.70 | 15.7 | 14.7 | 3 | 19.4 | 3.30 | 16.1 | 14.0 |
| SULPHATE | 2 | 20.7 | 20.1 | 0.600 | 20.4 | 4 | 22.6 | 3.50 | 19.1 | 15.9 | 3 | 32.3 | 3.20 | 29.1 | 20.5 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 46.0 | 44.0 | 2.00 | 45.0 | 11 | 51.0 | 14.0 | 37.0 | 34.5 |
| ZINC | 2 | 0.001 | 0.001L | 0.0 | 0.001 | 4 | 0.006 | 0.002L | 0.004 | 0.003 | 3 | 0.003 | 0.002 | 0.001 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 5 | 4.00 | 2.00L | 2.00 | 3.20 | 18 | 16.0 | 2.00L | 14.0 | 8.28 | 14 | 15.0 | 2.00L | 13.0 | 8.00 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8519 BELLEVUE CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 15.0 | 5.00 | 10.0 | 6.67 | 8 | 30.0 | 0.0 | 30.0 | 5.62 | 3 | 60.0 | 0.0 | 60.0 | 21.0 |
| TURBID | 29 | 11.0 | 0.300 | 10.7 | 1.76 | 35 | 6.30 | 0.300 | 6.00 | 2.33 | 7 | 35.0 | 0.200 | 34.8 | 5.71 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 13.6 | 13.6 | 0.0 | 13.6 | 1 | 199. | 199. | 0.0 | 199. |
| DISS O2 | 30 | 12.3 | 1.40 | 10.9 | 10.3 | 37 | 13.3 | 8.70 | 4.60 | 11.4 | 7 | 12.7 | 8.70 | 4.00 | 11.4 |
| D.O. SAT | 29 | 118. | 87.0 | 31.0 | 98.0 | 39 | 133. | 10.0J | 123. | 98.6 | 6 | 98.0 | 85.0 | 13.0 | 91.5 |
| TEMP | 6 | 15.6 | 5.50 | 10.1 | 10.4 | 8 | 24.2 | 3.30 | 20.9 | 15.3 | 3 | 21.6 | 4.40 | 17.2 | 14.2 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 112. | 1.00 | 111. | 88.8 | 39 | 218. | 10.8 | 207. | 105. | 7 | 118. | 6.00 | 112. | 82.0 |
| CALCIUM | 7 | 34.5 | 22.1 | 12.4 | 29.0 | 8 | 34.8 | 18.3 | 16.5 | 31.8 | 3 | 33.3 | 2.80 | 30.5 | 22.8 |
| CHLORIDE | 5 | 2.70 | 1.50 | 1.20 | 2.10 | 8 | 2.80 | 1.00 | 1.80 | 2.21 | 3 | 3.30 | 0.700 | 2.60 | 2.23 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.008 | 0.001 | 0.007 | 0.003 | 3 | 0.007 | 0.001L | 0.006 | 0.003 |
| FLUORIDE | 7 | 0.150 | 0.090 | 0.060 | 0.127 | 8 | 0.140 | 0.100 | 0.040 | 0.120 | 3 | 0.110 | 0.050 | 0.060 | 0.087 |
| HARD TOT | 7 | 110. | 72.0 | 38.0 | 97.2 | 8 | 118. | 58.2 | 59.8 | 108. | 3 | 120. | 10.0 | 110. | 82.3 |
| IRON | 7 | 0.040 | 0.010 | 0.030 | 0.021 | 8 | 0.060 | 0.010 | 0.050 | 0.025 | 3 | 0.120 | 0.010L | 0.110 | 0.050 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.012L | 0.004L | 0.008 | 0.009 |
| MAGNES | 7 | 7.70 | 4.00 | 3.70 | 6.03 | 8 | 8.40 | 3.00 | 5.40 | 6.96 | 1 | 9.60 | 9.60 | 0.0 | 9.60 |
| MANGAN | 7 | 0.008 | 0.001L | 0.007 | 0.004 | 8 | 0.011 | 0.002 | 0.009 | 0.007 | 3 | 0.050 | 0.010L | 0.040 | 0.023 |
| NITRATE | 29 | 1.06 | 0.010L | 1.05 | 0.560 | 39 | 1.36 | 0.010L | 1.35 | 0.727 | 7 | 1.10 | 0.010 | 1.09 | 0.471 |
| TOTAL N | 30 | 1.40 | 0.170 | 1.23 | 0.711 | 38 | 1.98 | 0.060 | 1.92 | 1.01 | 7 | 1.11 | 0.220 | 0.890 | 0.744 |
| PH | 30 | 8.40 | 7.30 | 1.10 | 7.86 | 39 | 8.60 | 7.10 | 1.50 | 8.07 | 7 | 8.30 | 6.30 | 2.00 | 7.60 |
| ORTHO P | 30 | 0.023 | 0.003L | 0.020 | 0.007 | 39 | 0.946 | 0.003 | 0.943 | 0.033 | 7 | 0.030 | 0.003 | 0.027 | 0.011 |
| TOTAL P | 30 | 0.033 | 0.003 | 0.030 | 0.015 | 38 | 1.24 | 0.010 | 1.23 | 0.055 | 7 | 0.870 | 0.010 | 0.860 | 0.136 |
| POTASS | 6 | 1.80 | 1.50 | 0.300 | 1.60 | 8 | 1.90 | 1.00 | 0.900 | 1.60 | 3 | 1.90 | 0.500 | 1.40 | 1.33 |
| SILICA | 6 | 24.1 | 15.0 | 9.10 | 21.3 | 8 | 27.9 | 16.5 | 11.4 | 22.9 | 3 | 23.3 | 14.8 | 8.50 | 19.4 |
| SODIUM | 6 | 9.20 | 5.50 | 3.70 | 7.48 | 8 | 8.50 | 2.70 | 5.80 | 6.90 | 3 | 8.70 | 1.20 | 7.50 | 6.00 |
| SULPHATE | 7 | 17.3 | 11.6 | 5.70 | 15.5 | 8 | 23.0 | 10.2 | 12.8 | 18.4 | 3 | 20.8 | 1.90 | 18.9 | 14.3 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 13 | 49.0 | 19.0 | 30.0 | 26.6 | 4 | 26.0 | 2.00L | 24.0 | 18.0 |
| ZINC | 7 | 0.005 | 0.001L | 0.004 | 0.002 | 8 | 0.041 | 0.002L | 0.039 | 0.007 | 3 | 0.003 | 0.002 | 0.001 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 11.0 | 2.00L | 9.00 | 3.72 | 39 | 15.0 | 0.0L | 15.0 | 5.33 | 7 | 15.0 | 2.00 | 13.0 | 7.14 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8520 MISSION CREEK: BRIDGE ON LAKESHORE ROAD

| | 1969 | | | | 1970 | | | | 1971 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 40.0 | 10.0 | 30.0 | 20.0 | 8 | 30.0 | 5.00 | 25.0 | 12.2 | 4 | 50.0 | 5.00 | 45.0 | 21.2 |
| TURBID | 28 | 27.0 | 0.600 | 26.4 | 4.25 | 38 | 43.0 | 0.800 | 42.2 | 6.29 | 20 | 37.0 | 0.500 | 36.5 | 7.82 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 56.0 | 56.0 | 0.0 | 56.0 | 1 | 32.4 | 32.4 | 0.0 | 32.4 | 2 | 228. | 8.80 | 219. | 118. |
| DISS O2 | 29 | 14.0 | 7.90 | 6.10 | 11.5 | 40 | 15.0 | 9.40 | 5.60 | 12.4 | 20 | 13.8 | 8.50 | 5.30 | 11.6 |
| D.O. SAT | 28 | 123. | 80.0 | 43.0 | 103. | 42 | 143. | 82.0 | 61.0 | 107. | 20 | 120. | 86.0 | 34.0 | 98.5 |
| TEMP | 6 | 15.8 | 2.40 | 13.4 | 9.67 | 8 | 24.2 | 1.60 | 22.6 | 14.7 | 4 | 21.6 | 5.50 | 16.1 | 13.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 227. | 22.3 | 205. | 105. | 42 | 230. | 17.7 | 212. | 137. | 20 | 182. | 18.0 | 164. | 100. |
| CALCIUM | 7 | 63.0 | 12.3 | 50.7 | 26.2 | 8 | 65.8 | 12.7 | 53.1 | 39.7 | 4 | 48.6 | 6.80 | 41.8 | 24.3 |
| CHLORIDE | 6 | 1.90 | 0.300 | 1.60 | 0.867 | 8 | 1.90 | 0.400 | 1.50 | 1.19 | 4 | 1.70 | 0.600 | 1.10 | 1.12 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.011L | 0.001L | 0.010 | 0.003 | 4 | 0.005 | 0.001L | 0.004 | 0.002 |
| FLUORIDE | 7 | 0.170 | 0.050 | 0.120 | 0.091 | 8 | 0.170 | 0.060 | 0.110 | 0.126 | 4 | 0.140 | 0.050 | 0.090 | 0.097 |
| HARD TOT | 7 | 270. | 41.1 | 229. | 101. | 8 | 274. | 41.3 | 233. | 163. | 4 | 208. | 22.0 | 186. | 121. |
| IRON | 7 | 0.090 | 0.040 | 0.090 | 0.060 | 8 | 0.100 | 0.010 | 0.090 | 0.069 | 4 | 0.090 | 0.030 | 0.060 | 0.057 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 7 | 27.0 | 2.40 | 24.6 | 8.70 | 8 | 26.7 | 2.10 | 24.6 | 15.5 | 1 | 21.1 | 21.1 | 0.0 | 21.1 |
| MANGAN | 7 | 0.013 | 0.001L | 0.012 | 0.008 | 8 | 0.038 | 0.006 | 0.032 | 0.020 | 4 | 0.056 | 0.010L | 0.046 | 0.028 |
| NITRATE | 29 | 0.410 | 0.010L | 0.400 | 0.110 | 42 | 0.970 | 0.010L | 0.960 | 0.278 | 20 | 0.700 | 0.020 | 0.680 | 0.230 |
| TOTAL N | 29 | 2.08 | 0.090 | 1.99 | 0.376 | 41 | 1.39 | 0.031 | 1.36 | 0.515 | 20 | 1.00 | 0.130 | 0.870 | 0.499 |
| PH | 28 | 8.40 | 7.50 | 0.900 | 7.89 | 42 | 8.70 | 6.80 | 1.90 | 8.10 | 20 | 8.80 | 7.00 | 1.80 | 7.81 |
| ORTHO P | 29 | 0.030 | 0.003L | 0.027 | 0.008 | 42 | 0.157 | 0.003L | 0.154 | 0.015 | 20 | 0.039 | 0.003 | 0.036 | 0.014 |
| TOTAL P | 29 | 0.065 | 0.003 | 0.062 | 0.018 | 41 | 0.196 | 0.010 | 0.186 | 0.042 | 20 | 0.783 | 0.013 | 0.770 | 0.112 |
| POTASS | 6 | 2.70 | 0.800 | 1.90 | 1.35 | 8 | 3.40 | 0.900 | 2.50 | 1.90 | 4 | 2.30 | 0.500 | 1.80 | 1.57 |
| SILICA | 5 | 18.3 | 13.4 | 4.90 | 15.1 | 8 | 19.4 | 12.2 | 7.20 | 16.2 | 4 | 17.2 | 13.4 | 3.80 | 14.7 |
| SODIUM | 6 | 20.0 | 2.90 | 17.1 | 8.18 | 8 | 21.7 | 3.50 | 18.2 | 12.4 | 4 | 16.0 | 1.70 | 14.3 | 9.57 |
| SULPHATE | 7 | 93.2 | 8.70 | 84.5 | 30.5 | 8 | 121. | 8.70 | 112. | 57.7 | 4 | 76.9 | 5.00 | 71.9 | 39.8 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 44.0 | 8.00 | 36.0 | 30.2 | 16 | 43.0 | 2.00 | 41.0 | 19.7 |
| ZINC | 7 | 0.034 | 0.001L | 0.033 | 0.006 | 8 | 0.010 | 0.001 | 0.009 | 0.004 | 4 | 0.013 | 0.001 | 0.012 | 0.004 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 9.00 | 2.00L | 7.00 | 5.00 | 42 | 15.0 | 2.00L | 13.0 | 6.40 | 20 | 21.0 | 3.00 | 18.0 | 9.30 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8521 KELOWNA CREEK: BRIDGE ON ABBOT STREET

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 30.0 | 15.0 | 15.0 | 20.0 | 8 | 30.0 | 10.0 | 20.0 | 15.0 | 4 | 65.0 | 5.00 | 60.0 | 33.7 |
| TURBID | 28 | 47.0 | 1.80 | 45.2 | 6.30 | 38 | 46.0 | 2.00 | 44.0 | 6.53 | 20 | 47.0 | 1.30 | 45.7 | 10.2 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 4 | 3.00 | 1.40 | 1.60 | 1.95 | 5 | 55.6 | 1.20 | 54.4 | 15.6 | 3 | 114. | 0.800 | 113. | 44.3 |
| DISS O2 | 29 | 12.2 | 7.60 | 4.60 | 9.67 | 40 | 14.1 | 7.10 | 7.00 | 10.9 | 20 | 14.6 | 6.90 | 7.70 | 10.2 |
| D.O. SAT | 28 | 102. | 78.0 | 24.0 | 88.5 | 42 | 127. | 74.0 | 53.0 | 93.3 | 20 | 125. | 75.0 | 50.0 | 89.4 |
| TEMP | 6 | 16.6 | 3.80 | 12.8 | 10.6 | 8 | 24.2 | 1.60 | 22.6 | 15.0 | 4 | 21.9 | 8.30 | 13.6 | 15.2 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 228. | 157. | 71.0 | 197. | 42 | 244. | 112. | 132. | 208. | 20 | 241. | 59.0 | 182. | 186. |
| CALCIUM | 7 | 61.1 | 45.2 | 15.9 | 55.0 | 8 | 66.3 | 33.6 | 32.7 | 56.0 | 4 | 61.4 | 31.7 | 29.7 | 46.5 |
| CHLORIDE | 6 | 13.4 | 5.00 | 8.40 | 7.22 | 8 | 7.70 | 3.50 | 4.20 | 5.64 | 4 | 8.90 | 3.10 | 5.80 | 6.82 |
| COPPER | 7 | 0.002 | 0.001L | 0.001 | 0.001 | 8 | 0.007 | 0.001 | 0.006 | 0.002 | 4 | 0.005 | 0.001 | 0.004 | 0.003 |
| FLUORIDE | 7 | 0.260 | 0.200 | 0.060 | 0.243 | 8 | 0.270 | 0.160 | 0.110 | 0.227 | 4 | 0.250 | 0.130 | 0.120 | 0.210 |
| HARD TOT | 7 | 220. | 171. | 49.0 | 203. | 8 | 244. | 121. | 123. | 202. | 4 | 245. | 110. | 135. | 195. |
| IRON | 7 | 0.080 | 0.010 | 0.070 | 0.056 | 8 | 0.180 | 0.020 | 0.160 | 0.092 | 4 | 0.210 | 0.040 | 0.170 | 0.127 |
| LEAD | 6 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.004L | 0.008 | 0.008 |
| MAGNES | 7 | 17.7 | 14.1 | 3.60 | 16.0 | 8 | 19.1 | 9.00 | 10.1 | 15.2 | 1 | 22.3 | 22.3 | 0.0 | 22.3 |
| MANGAN | 7 | 0.100 | 0.001L | 0.099 | 0.041 | 8 | 0.230 | 0.072 | 0.158 | 0.134 | 4 | 0.230 | 0.068 | 0.162 | 0.127 |
| NITRATE | 29 | 1.18 | 0.010L | 1.17 | 0.696 | 42 | 1.15 | 0.150 | 1.00 | 0.695 | 20 | 1.60 | 0.110 | 1.49 | 0.893 |
| TOTAL N | 28 | 1.70 | 0.640 | 1.06 | 1.04 | 42 | 3.83 | 0.310 | 3.52 | 1.13 | 20 | 4.09 | 0.770 | 3.32 | 1.71 |
| PH | 28 | 8.30 | 7.00 | 1.30 | 7.92 | 42 | 8.40 | 7.50 | 0.900 | 8.10 | 20 | 8.50 | 7.60 | 0.900 | 7.98 |
| ORTHO P | 29 | 0.556 | 0.013 | 0.543 | 0.087 | 42 | 0.088 | 0.007 | 0.081 | 0.040 | 20 | 0.173 | 0.020 | 0.153 | 0.054 |
| TOTAL P | 29 | 0.750 | 0.029 | 0.721 | 0.142 | 41 | 0.192 | 0.020 | 0.172 | 0.085 | 20 | 0.424 | 0.055 | 0.369 | 0.140 |
| POTASS | 6 | 4.50 | 2.90 | 1.60 | 3.50 | 8 | 5.40 | 2.20 | 3.20 | 3.35 | 4 | 7.20 | 0.200L | 7.00 | 3.20 |
| SILICA | 5 | 21.4 | 17.1 | 4.30 | 18.4 | 8 | 20.6 | 15.7 | 4.90 | 17.9 | 4 | 22.1 | 18.0 | 4.10 | 20.5 |
| SODIUM | 6 | 28.9 | 22.3 | 6.60 | 24.5 | 8 | 29.0 | 14.4 | 14.6 | 23.3 | 4 | 33.5 | 11.6 | 21.9 | 24.6 |
| SULPHATE | 7 | 99.0 | 29.4 | 69.6 | 50.7 | 8 | 65.2 | 26.4 | 38.8 | 46.0 | 4 | 78.7 | 26.0 | 52.7 | 49.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 | 51.0 | 27.0 | 24.0 | 41.2 | 16 | 55.0 | 12.0 | 43.0 | 37.7 |
| ZINC | 7 | 0.007 | 0.002 | 0.005 | 0.004 | 8 | 0.015 | 0.001L | 0.014 | 0.006 | 4 | 0.010 | 0.001 | 0.009 | 0.004 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 14.0 | 2.00L | 12.0 | 5.52 | 42 | 18.0 | 2.00L | 16.0 | 6.67 | 20 | 19.0 | 2.00L | 17.0 | 10.6 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8522 BRANDT CREEK: ON GUY STREET

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 4 | 70.0 | 10.0 | 60.0 | 30.0 | 6 | 60.0 | 10.0 | 50.0 | 26.7 | 4 | 20.0 | 15.0 | 5.00 | 18.7 |
| TURBID | 26 | 48.0 | 4.50 | 43.5 | 23.4 | 46 | 115. | 3.40 | 112. | 18.8 | 40 | 50.0 | 2.40 | 47.6 | 12.6 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 4 | 68.0 | 16.4 | 51.6 | 30.0 | 7 | 80.4 | 4.40 | 76.0 | 23.3 | 3 | 74.8 | 16.4 | 58.4 | 38.4 |
| DISS 02 | 28 | 9.60 | 0.0 | 9.60 | 3.34 | 47 | 10.1 | 0.0 | 10.1 | 4.38 | 40 | 13.8 | 0.0 | 13.8 | 6.65 |
| D.O. SAT | 28 | 72.0 | 0.0 | 72.0 | 30.1 | 49 | 85.0 | 0.0 | 85.0 | 38.1 | 39 | 147. | 0.0 | 147. | 62.2 |
| TEMP | 4 | 13.4 | 6.60 | 6.80 | 10.6 | 7 | 24.3 | 5.20 | 19.1 | 18.6 | 4 | 21.9 | 10.3 | 11.6 | 17.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 28 | 445. | 159. | 286. | 341. | 50 | 980. | 218. | 762. | 340. | 40 | 605. | 134. | 471. | 338. |
| CALCIUM | 4 | 82.6 | 66.1 | 16.5 | 74.7 | 7 | 112. | 55.0 | 57.0 | 75.6 | 4 | 172. | 83.2 | 88.8 | 115. |
| CHLORIDE | 4 | 30.0 | 14.5 | 15.5 | 22.9 | 7 | 41.5 | 11.6 | 29.9 | 23.5 | 4 | 29.0 | 16.0 | 13.0 | 23.0 |
| COPPER | 4 | 0.008 | 0.002 | 0.006 | 0.005 | 7 | 0.011 | 0.005 | 0.006 | 0.007 | 4 | 0.009 | 0.001 | 0.008 | 0.005 |
| FLUORIDE | 4 | 0.720 | 0.380 | 0.340 | 0.547 | 7 | 0.990 | 0.390 | 0.600 | 0.710 | 4 | 0.690 | 0.370 | 0.320 | 0.515 |
| HARD TOT | 4 | 488. | 337. | 151. | 404. | 7 | 781. | 330. | 451. | 436. | 4 | 649. | 456. | 193. | 515. |
| IRON | 4 | 0.520 | 0.110 | 0.410 | 0.305 | 7 | 0.340 | 0.030 | 0.310 | 0.121 | 4 | 0.380 | 0.030 | 0.350 | 0.160 |
| LEAD | 4 | 0.010L | 0.010L | 0.0 | 0.010 | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 4 | 68.9 | 41.8 | 27.1 | 52.8 | 7 | 122. | 43.2 | 78.8 | 60.1 | 1 | 97.4 | 97.4 | 0.0 | 97.4 |
| MANGAN | 4 | 0.610 | 0.230 | 0.380 | 0.345 | 7 | 0.390 | 0.011 | 0.379 | 0.198 | 4 | 0.450 | 0.140 | 0.310 | 0.340 |
| NITRATE | 28 | 0.950 | 0.010L | 0.940 | 0.239 | 50 | 1.09 | 0.010L | 1.08 | 0.259 | 40 | 1.60 | 0.010L | 1.59 | 0.351 |
| TOTAL N | 27 | 5.66 | 0.540 | 5.12 | 2.04 | 50 | 7.69 | 0.190 | 7.50 | 1.50 | 40 | 4.51 | 0.490 | 4.02 | 1.52 |
| PH | 28 | 8.60 | 6.30 | 2.30 | 7.63 | 50 | 8.90 | 6.70 | 2.20 | 7.85 | 40 | 8.70 | 7.00 | 1.70 | 8.01 |
| ORTHO P | 28 | 2.13 | 0.049 | 2.08 | 0.392 | 50 | 0.750 | 0.023 | 0.727 | 0.325 | 40 | 1.37 | 0.036 | 1.33 | 0.309 |
| TOTAL P | 28 | 2.70 | 0.270 | 2.43 | 0.708 | 49 | 1.66 | 0.075 | 1.58 | 0.605 | 40 | 1.43 | 0.058 | 1.37 | 0.565 |
| POTASS | 4 | 10.4 | 6.60 | 3.80 | 7.92 | 7 | 9.40 | 5.10 | 4.30 | 6.90 | 4 | 13.5 | 0.600 | 12.9 | 7.22 |
| SILICA | 4 | 22.7 | 11.3 | 11.4 | 16.6 | 7 | 18.5 | 8.20 | 10.3 | 13.2 | 4 | 18.5 | 7.30 | 11.2 | 14.3 |
| SODIUM | 4 | 212. | 125. | 87.0 | 155. | 7 | 296. | 123. | 173. | 171. | 4 | 256. | 170. | 86.0 | 201. |
| SULPHATE | 4 | 464. | 278. | 186. | 348. | 7 | 931. | 263. | 668. | 430. | 4 | 769. | 224. | 545. | 472. |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 24 | 106. | 23.0 | 83.0 | 67.0 | 36 | 105. | 43.0 | 62.0 | 70.9 |
| ZINC | 4 | 0.013 | 0.004 | 0.009 | 0.008 | 7 | 0.023 | 0.007 | 0.016 | 0.016 | 4 | 0.017 | 0.007 | 0.010 | 0.010 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 108. | 2.00L | 106. | 20.5 | 50 | 246. | 6.00 | 240. | 66.2 | 40 | 226. | 2.00L | 224. | 60.6 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8523 LAMBLY CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 30.0 | 7.00 | 23.0 | 18.7 | 8 | 60.0 | 0.0 | 60.0 | 14.5 | 3 | 75.0 | 8.00 | 67.0 | 31.0 |
| TURBID | 23 | 5.20 | 0.100 | 5.10 | 1.43 | 30 | 16.0 | 0.100 | 15.9 | 3.42 | 13 | 12.0 | 0.200 | 11.8 | 2.62 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 1 | 2.20 | 2.20 | 0.0 | 2.20 | 2 | 3.20 | 1.20 | 2.00 | 2.20 | 1 | 39.2 | 39.2 | 0.0 | 39.2 |
| DISS 02 | 24 | 14.1 | 4.70 | 9.40 | 11.0 | 30 | 14.1 | 8.90 | 5.20 | 12.1 | 13 | 13.7 | 7.90 | 5.80 | 11.9 |
| D.O. SAT | 24 | 99.0 | 45.0 | 54.0 | 91.4 | 32 | 104. | 85.0 | 19.0 | 96.8 | 13 | 99.0 | 86.0 | 13.0 | 95.0 |
| TEMP | 7 | 15.8 | 0.800 | 15.0 | 8.80 | 8 | 24.3 | 0.0 | 24.3 | 14.1 | 3 | 22.7 | 6.60 | 16.1 | 16.0 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 24 | 98.5 | 55.0 | 43.5 | 82.6 | 32 | 127. | 26.7 | 100. | 93.9 | 13 | 125. | 27.0 | 98.0 | 81.1 |
| CALCIUM | 7 | 32.8 | 23.9 | 8.90 | 27.3 | 8 | 38.0 | 12.0 | 26.0 | 28.6 | 3 | 32.9 | 10.1 | 22.8 | 25.1 |
| CHLORIDE | 6 | 1.00 | 0.400 | 0.600 | 0.633 | 8 | 0.600 | 0.400 | 0.200 | 0.500 | 3 | 0.600 | 0.600 | 0.0 | 0.600 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.004 | 0.001L | 0.003 | 0.002 | 3 | 0.003 | 0.001L | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.110 | 0.070 | 0.040 | 0.090 | 8 | 0.130 | 0.070 | 0.060 | 0.100 | 3 | 0.120 | 0.060 | 0.060 | 0.093 |
| HARD TOT | 7 | 99.9 | 68.9 | 31.0 | 81.5 | 8 | 119. | 39.1 | 79.9 | 92.1 | 3 | 107. | 31.0 | 76.0 | 79.0 |
| IRON | 7 | 0.050 | 0.010 | 0.040 | 0.030 | 8 | 0.180 | 0.010 | 0.170 | 0.054 | 3 | 0.090 | 0.010L | 0.080 | 0.053 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 7 | 4.70 | 2.20 | 2.50 | 3.21 | 8 | 7.90 | 2.20 | 5.70 | 5.02 | 1 | 6.00 | 6.00 | 0.0 | 6.00 |
| MANGAN | 7 | 0.015 | 0.001L | 0.014 | 0.004 | 8 | 0.015 | 0.001 | 0.014 | 0.004 | 3 | 0.011 | 0.010L | 0.001 | 0.010 |
| NITRATE | 24 | 0.050 | 0.010L | 0.040 | 0.014 | 32 | 0.950 | 0.010L | 0.940 | 0.044 | 13 | 0.200 | 0.010L | 0.190 | 0.035 |
| TOTAL N | 23 | 0.270 | 0.020 | 0.250 | 0.136 | 31 | 6.55 | 0.010L | 6.54 | 0.695 | 13 | 0.690 | 0.010L | 0.680 | 0.262 |
| PH | 24 | 8.20 | 6.90 | 1.30 | 7.84 | 32 | 8.40 | 7.40 | 1.00 | 8.04 | 13 | 8.20 | 7.30 | 0.900 | 7.90 |
| ORTHO P | 24 | 0.020 | 0.003 | 0.017 | 0.008 | 32 | 0.554 | 0.003 | 0.551 | 0.026 | 13 | 0.046 | 0.007 | 0.039 | 0.014 |
| TOTAL P | 24 | 0.028 | 0.007 | 0.021 | 0.013 | 31 | 1.79 | 0.007 | 1.78 | 0.075 | 13 | 0.121 | 0.010 | 0.111 | 0.029 |
| POTASS | 6 | 1.60 | 1.00 | 0.600 | 1.27 | 8 | 1.80 | 0.900 | 0.900 | 1.31 | 3 | 1.80 | 0.800 | 1.00 | 1.37 |
| SILICA | 6 | 18.9 | 16.2 | 2.70 | 17.4 | 8 | 20.6 | 16.5 | 4.10 | 18.0 | 3 | 21.4 | 16.8 | 4.60 | 19.2 |
| SODIUM | 6 | 6.40 | 3.70 | 2.70 | 4.75 | 8 | 6.30 | 3.20 | 3.10 | 5.42 | 3 | 5.80 | 1.90 | 3.90 | 4.43 |
| SULPHATE | 7 | 11.8 | 6.30 | 5.50 | 9.21 | 8 | 14.2 | 3.40 | 10.8 | 10.9 | 3 | 15.0 | 2.90 | 12.1 | 9.67 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 8 | 27.0 | 16.0 | 11.0 | 22.7 | 10 | 26.0 | 3.00 | 23.0 | 16.4 |
| ZINC | 7 | 0.003 | 0.001L | 0.002 | 0.001 | 8 | 0.005 | 0.001L | 0.004 | 0.002 | 3 | 0.006 | 0.002 | 0.004 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 24 | 10.0 | 3.00 | 7.00 | 6.29 | 32 | 285. | 2.00L | 283. | 15.5 | 13 | 18.0 | 2.00 | 16.0 | 9.46 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8524 VERNON CREEK AT INLET TO ELLISON LAKE

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLCUR | 1 | 40.0 | 40.0 | 0.0 | 40.0 | 5 | 70.0 | 10.0 | 60.0 | 29.0 | 4 | 110. | 0.0 | 110. | 35.5 |
| TURBID | 7 | 85.0 | 0.700 | 84.3 | 15.8 | 22 | 1000.L | 0.500 | 999. | 79.4 | 19 | 31.0 | 0.200 | 30.8 | 4.31 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 1397. | 30.8 | 1366. | 598. | 1 | 228. | 228. | 0.0 | 228. |
| DISS 02 | 8 | 9.40 | 6.90 | 2.50 | 8.30 | 23 | 13.1 | 9.30 | 3.80 | 11.4 | 19 | 14.5 | 8.30 | 6.20 | 10.8 |
| D.O. SAT | 8 | 100. | 81.0 | 19.0 | 90.7 | 23 | 107. | 81.0 | 26.0 | 95.6 | 18 | 115. | 80.0 | 35.0 | 95.3 |
| TEMP | 2 | 25.2 | 21.7 | 3.50 | 23.4 | 5 | 24.3 | 2.70 | 21.6 | 15.8 | 4 | 22.1 | 11.0 | 11.1 | 15.9 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 8 | 62.5 | 31.5 | 31.0 | 46.3 | 23 | 110. | 38.1 | 71.9 | 72.7 | 19 | 108. | 28.0 | 80.0 | 66.3 |
| CALCIUM | 2 | 12.0 | 9.00 | 3.00 | 10.5 | 5 | 21.0 | 12.1 | 8.90 | 16.4 | 4 | 19.5 | 14.5 | 5.00 | 16.9 |
| CHLORIDE | 1 | 0.400 | 0.400 | 0.0 | 0.400 | 5 | 1.10 | 0.400 | 0.700 | 0.640 | 4 | 1.70 | 0.700 | 1.00 | 1.12 |
| COPPER | 2 | 0.002L | 0.002L | 0.0 | 0.002 | 5 | 0.013 | 0.001L | 0.012 | 0.007 | 4 | 0.007 | 0.001 | 0.006 | 0.004 |
| FLUORIDE | 2 | 0.070 | 0.060 | 0.010 | 0.065 | 5 | 0.120 | 0.080 | 0.040 | 0.100 | 4 | 0.150 | 0.090 | 0.060 | 0.115 |
| HARD TOT | 2 | 42.8 | 34.7 | 8.10 | 38.7 | 5 | 85.8 | 41.9 | 43.9 | 63.5 | 4 | 100. | 46.0 | 54.0 | 69.5 |
| IRON | 2 | 0.070 | 0.050 | 0.020 | 0.060 | 5 | 0.160 | 0.010 | 0.150 | 0.068 | 4 | 0.160 | 0.020 | 0.140 | 0.065 |
| LEAD | 2 | 0.005L | 0.005L | 0.0 | 0.005 | 5 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.010L | 0.004L | 0.006 | 0.007 |
| MAGNES | 2 | 3.10 | 3.00 | 0.100 | 3.05 | 5 | 8.10 | 2.80 | 5.30 | 5.50 | 1 | 6.20 | 6.20 | 0.0 | 6.20 |
| MANGAN | 2 | 0.007 | 0.001L | 0.006 | 0.004 | 5 | 0.130 | 0.009 | 0.121 | 0.043 | 4 | 0.095 | 0.010L | 0.085 | 0.036 |
| NITRATE | 8 | 0.030 | 0.010L | 0.020 | 0.014 | 23 | 0.090 | 0.010L | 0.080 | 0.039 | 19 | 0.230 | 0.010L | 0.220 | 0.053 |
| TOTAL N | 8 | 0.630 | 0.120 | 0.510 | 0.304 | 22 | 3.61 | 0.020 | 3.59 | 0.541 | 18 | 0.840 | 0.010L | 0.830 | 0.372 |
| PH | 8 | 7.70 | 7.30 | 0.400 | 7.50 | 23 | 8.70 | 7.20 | 1.50 | 8.03 | 19 | 9.50 | 7.30 | 2.20 | 8.15 |
| ORTHO P | 8 | 0.039 | 0.010 | 0.029 | 0.017 | 23 | 0.108 | 0.003L | 0.105 | 0.020 | 19 | 0.110 | 0.003 | 0.107 | 0.018 |
| TOTAL P | 8 | 0.075 | 0.020 | 0.055 | 0.034 | 22 | 6.69 | 0.007 | 6.68 | 0.471 | 19 | 1.20 | 0.010 | 1.19 | 0.098 |
| POTASS | 1 | 1.20 | 1.20 | 0.0 | 1.20 | 5 | 1.60 | 1.20 | 0.400 | 1.38 | 4 | 2.00 | 1.10 | 0.900 | 1.55 |
| SILICA | 1 | 12.7 | 12.7 | 0.0 | 12.7 | 5 | 23.1 | 10.5 | 12.6 | 14.0 | 4 | 35.0 | 6.00 | 29.0 | 14.4 |
| SODIUM | 1 | 3.70 | 3.70 | 0.0 | 3.70 | 5 | 9.40 | 4.60 | 4.80 | 6.30 | 4 | 8.00 | 4.20 | 3.80 | 6.05 |
| SULPHATE | 2 | 4.50 | 3.00 | 1.50 | 3.75 | 5 | 12.3 | 3.00 | 9.30 | 8.08 | 4 | 22.2 | 2.40 | 19.8 | 12.8 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 22.0 | 12.0 | 10.0 | 18.3 | 15 | 25.0 | 7.00 | 18.0 | 13.4 |
| ZINC | 2 | 0.001 | 0.001L | 0.0 | 0.001 | 5 | 0.020 | 0.002 | 0.018 | 0.007 | 4 | 0.034 | 0.004 | 0.030 | 0.017 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 8 | 11.0 | 7.00 | 4.00 | 9.00 | 22 | 47.0 | 2.00 | 45.0 | 10.6 | 19 | 38.0 | 5.00 | 33.0 | 15.0 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8525 VERNON CREEK AT INLET TO WOOD LAKE

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 70.0 | 10.0 | 60.0 | 27.5 | 8 | 40.0 | 10.0 | 30.0 | 20.6 | 3 | 15.0 | 10.0 | 5.00 | 11.7 |
| TURBID | 28 | 28.0 | 1.70 | 26.3 | 6.54 | 36 | 36.0 | 1.30 | 34.7 | 7.67 | 20 | 23.0 | 0.900 | 22.1 | 7.06 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 3 | 24.8 | 0.500L | 24.3 | 10.4 | 7 | 9.60 | 2.80 | 6.80 | 5.54 | 4 | 41.2 | 0.400 | 40.8 | 17.3 |
| DISS O2 | 29 | 12.4 | 6.70 | 5.70 | 9.94 | 38 | 13.0 | 7.80 | 5.20 | 11.0 | 20 | 14.3 | 6.70 | 7.60 | 10.1 |
| D.O. SAT | 29 | 103. | 70.0 | 33.0 | 90.9 | 40 | 112. | 81.0 | 31.0 | 94.5 | 20 | 126. | 54.0 | 72.0 | 87.8 |
| TEMP | 7 | 24.2 | 3.30 | 20.9 | 13.3 | 8 | 24.3 | 2.20 | 22.1 | 15.0 | 4 | 22.1 | 7.20 | 14.9 | 15.6 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 191. | 37.0 | 154. | 138. | 40 | 189. | 109. | 80.0 | 155. | 20 | 208. | 69.0 | 139. | 135. |
| CALCIUM | 7 | 44.6 | 16.5 | 28.1 | 33.2 | 8 | 47.2 | 29.7 | 17.5 | 37.5 | 4 | 47.9 | 18.1 | 29.8 | 29.0 |
| CHLORIDE | 6 | 2.90 | 0.800 | 2.10 | 2.28 | 8 | 3.30 | 1.60 | 1.70 | 2.40 | 4 | 4.00 | 0.900 | 3.10 | 2.37 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.010 | 0.001L | 0.009 | 0.003 | 4 | 0.004 | 0.001 | 0.003 | 0.002 |
| FLUORIDE | 7 | 0.280 | 0.100 | 0.180 | 0.210 | 8 | 0.230 | 0.170 | 0.060 | 0.199 | 4 | 0.260 | 0.130 | 0.130 | 0.182 |
| HARD TOT | 7 | 180. | 56.6 | 123. | 134. | 8 | 184. | 120. | 64.0 | 153. | 4 | 213. | 79.0 | 134. | 137. |
| IRON | 7 | 0.160 | 0.060 | 0.100 | 0.101 | 8 | 0.230 | 0.010 | 0.220 | 0.089 | 4 | 0.130 | 0.060 | 0.070 | 0.092 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.004L | 0.008 | 0.008 |
| MAGNES | 7 | 16.9 | 3.70 | 13.2 | 12.4 | 7 | 16.1 | 11.1 | 5.00 | 13.8 | 1 | 22.7 | 22.7 | 0.0 | 22.7 |
| MANGAN | 7 | 0.060 | 0.001L | 0.059 | 0.019 | 8 | 0.130 | 0.020 | 0.110 | 0.069 | 4 | 0.250 | 0.021 | 0.229 | 0.087 |
| NITRATE | 29 | 1.49 | 0.180 | 1.31 | 0.981 | 40 | 1.38 | 0.010L | 1.37 | 0.855 | 20 | 1.50 | 0.200 | 1.30 | 0.752 |
| TOTAL N | 28 | 1.73 | 0.950 | 0.780 | 1.38 | 39 | 25.0 | 0.670 | 24.3 | 1.85 | 19 | 1.82 | 0.590 | 1.23 | 1.32 |
| PH | 29 | 8.50 | 7.20 | 1.30 | 7.80 | 40 | 8.50 | 7.50 | 1.00 | 8.08 | 20 | 8.50 | 7.40 | 1.10 | 7.88 |
| ORTHO P | 29 | 0.042 | 0.003 | 0.039 | 0.019 | 40 | 0.055 | 0.010 | 0.045 | 0.028 | 20 | 0.075 | 0.007 | 0.068 | 0.031 |
| TOTAL P | 29 | 0.082 | 0.013 | 0.069 | 0.045 | 39 | 0.157 | 0.029 | 0.128 | 0.068 | 20 | 0.251 | 0.029 | 0.222 | 0.111 |
| POTASS | 6 | 3.50 | 1.10 | 2.40 | 2.60 | 8 | 3.20 | 1.90 | 1.30 | 2.42 | 4 | 4.40 | 2.00 | 2.40 | 3.15 |
| SILICA | 6 | 21.1 | 14.1 | 7.00 | 18.2 | 8 | 22.5 | 2.06 | 20.4 | 18.2 | 4 | 25.2 | 12.8 | 12.4 | 18.2 |
| SODIUM | 6 | 15.1 | 5.10 | 10.0 | 12.4 | 8 | 14.7 | 0.900 | 13.8 | 10.6 | 4 | 19.0 | 6.70 | 12.3 | 13.3 |
| SULPHATE | 7 | 32.8 | 7.10 | 25.7 | 19.7 | 8 | 24.4 | 16.4 | 8.00 | 19.7 | 4 | 36.4 | 9.90 | 26.5 | 24.3 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 14 | 42.0 | 26.0 | 16.0 | 35.5 | 16 | 49.0 | 14.0 | 35.0 | 27.4 |
| ZINC | 7 | 0.006 | 0.001 | 0.005 | 0.002 | 8 | 0.010 | 0.001L | 0.009 | 0.005 | 4 | 0.005 | 0.002 | 0.003 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 18.0 | 3.00 | 15.0 | 7.18 | 40 | 16.0 | 3.00 | 13.0 | 7.15 | 20 | 17.0 | 3.00 | 14.0 | 11.4 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B526 SHORTS CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| **PHYSICAL PARAMETERS** | | | | | | | | | | | | | | | |
| COLOUR | 5 | 20.0 | 5.00 | 15.0 | 10.0 | 8 | 50.0 | 0.0 | 50.0 | 10.0 | 3 | 100. | 5.00 | 95.0 | 36.7 |
| TURBID | 22 | 12.0 | 0.300 | 11.7 | 2.24 | 30 | 17.0 | 0.200 | 16.8 | 2.62 | 3 | 150. | 0.900 | 149. | 50.8 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 1370. | 1370. | 0.0 | 1370. |
| DISS O2 | 23 | 13.8 | 8.30 | 5.50 | 11.4 | 31 | 14.1 | 6.50 | 7.60 | 11.9 | 3 | 13.4 | 8.60 | 4.80 | 11.0 |
| D.O. SAT | 23 | 115. | 86.0 | 29.0 | 97.7 | 33 | 116. | 71.0 | 45.0 | 100. | 2 | 93.0 | 90.0 | 3.00 | 91.5 |
| TEMP | 6 | 15.8 | 1.10 | 14.7 | 8.53 | 8 | 24.2 | 0.500 | 23.7 | 14.8 | 3 | 22.8 | 4.60 | 18.2 | 14.6 |
| **INORGANIC PARAMETERS** | | | | | | | | | | | | | | | |
| ALK TOT | 23 | 144. | 79.0 | 65.0 | 118. | 33 | 213. | 38.3 | 175. | 130. | 3 | 131. | 42.0 | 89.0 | 100. |
| CALCIUM | 6 | 40.0 | 28.1 | 11.9 | 34.4 | 8 | 42.0 | 17.4 | 24.6 | 36.6 | 3 | 38.4 | 14.9 | 23.5 | 30.0 |
| CHLORIDE | 5 | 0.500 | 0.300 | 0.200 | 0.380 | 8 | 0.600 | 0.300 | 0.300 | 0.412 | 3 | 0.900 | 0.200 | 0.700 | 0.567 |
| COPPER | 6 | 0.002 | 0.001L | 0.001 | 0.001 | 7 | 0.006 | 0.001L | 0.005 | 0.002 | 3 | 0.005 | 0.001 | 0.004 | 0.003 |
| FLUORIDE | 6 | 0.280 | 0.110 | 0.170 | 0.168 | 8 | 0.180 | 0.020 | 0.160 | 0.147 | 3 | 0.150 | 0.090 | 0.060 | 0.130 |
| HARD TOT | 6 | 132. | 84.1 | 47.9 | 111. | 8 | 138. | 56.1 | 81.9 | 118. | 3 | 126. | 45.0 | 81.0 | 98.7 |
| IRON | 6 | 0.050 | 0.010 | 0.040 | 0.023 | 7 | 0.070 | 0.0 | 0.070 | 0.021 | 3 | 0.130 | 0.010L | 0.120 | 0.053 |
| LEAD | 6 | 0.010L | 0.005L | 0.005 | 0.008 | 7 | 0.010L | 0.010L | 0.0 | 0.010 | 3 | 0.012L | 0.005L | 0.007 | 0.009 |
| MAGNES | 6 | 8.70 | 3.40 | 5.30 | 6.08 | 8 | 8.50 | 3.10 | 5.40 | 6.40 | 1 | 8.20 | 8.20 | 0.0 | 8.20 |
| MANGAN | 6 | 0.004 | 0.001L | 0.003 | 0.002 | 7 | 0.010L | 0.001 | 0.009 | 0.003 | 3 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 23 | 0.060 | 0.010L | 0.050 | 0.019 | 33 | 0.080 | 0.010L | 0.070 | 0.018 | 3 | 0.050 | 0.010L | 0.040 | 0.023 |
| TOTAL N | 23 | 0.620 | 0.020 | 0.600 | 0.160 | 30 | 1.03 | 0.010L | 1.02 | 0.162 | 3 | 4.50 | 0.070 | 4.43 | 1.69 |
| PH | 23 | 8.60 | 7.30 | 1.30 | 7.97 | 33 | 8.60 | 7.50 | 1.10 | 8.20 | 3 | 8.10 | 7.00 | 1.10 | 7.57 |
| ORTHO P | 23 | 0.013 | 0.003L | 0.010 | 0.008 | 32 | 0.016 | 0.003L | 0.013 | 0.007 | 3 | 0.160 | 0.013 | 0.147 | 0.062 |
| TOTAL P | 23 | 0.111 | 0.007 | 0.104 | 0.018 | 33 | 0.238 | 0.007 | 0.231 | 0.034 | 3 | 3.40 | 0.020 | 3.38 | 1.15 |
| POTASS | 5 | 1.10 | 0.800 | 0.300 | 0.960 | 8 | 1.60 | 0.800 | 0.800 | 1.02 | 3 | 1.40 | 1.20 | 0.200 | 1.27 |
| SILICA | 5 | 17.2 | 15.6 | 1.60 | 16.4 | 8 | 18.7 | 15.9 | 2.80 | 16.9 | 3 | 20.3 | 14.2 | 6.10 | 17.5 |
| SODIUM | 5 | 6.20 | 5.30 | 0.900 | 5.74 | 8 | 6.50 | 3.40 | 3.10 | 5.66 | 3 | 6.50 | 2.20 | 4.30 | 5.00 |
| SULPHATE | 6 | 8.30 | 4.50 | 3.80 | 6.95 | 8 | 9.20 | 3.70 | 5.50 | 7.74 | 3 | 10.2 | 1.80 | 8.40 | 6.83 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 33.0 | 24.0 | 9.00 | 29.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 6 | 0.009 | 0.001L | 0.008 | 0.003 | 7 | 0.002 | 0.001 | 0.001 | 0.002 | 3 | 0.007 | 0.001L | 0.006 | 0.003 |
| **ORGANIC PARAMETERS** | | | | | | | | | | | | | | | |
| TOC | 23 | 20.0 | 2.00L | 18.0 | 5.52 | 33 | 16.0 | 2.00L | 14.0 | 5.33 | 3 | 125. | 3.00 | 122. | 44.7 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B527 WHITEMAN CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 20.0 | 5.00 | 15.0 | 9.17 | 8 | 40.0 | 0.0 | 40.0 | 10.0 | 3 | 7.00 | 5.00 | 2.00 | 6.33 |
| TURBID | 29 | 4.80 | 0.300 | 4.50 | 1.54 | 35 | 9.00 | 0.200 | 8.80 | 2.01 | 13 | 110. | 0.300 | 110. | 11.2 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 2.40 | 2.40 | 0.0 | 2.40 | 1 | 770. | 770. | 0.0 | 770. |
| DISS 02 | 30 | 13.5 | 9.00 | 4.50 | 11.4 | 36 | 14.2 | 1.10 | 13.1 | 11.9 | 13 | 14.0 | 9.10 | 4.90 | 11.8 |
| D.O. SAT | 30 | 105. | 85.0 | 20.0 | 98.3 | 38 | 112. | 92.0 | 20.0 | 100. | 12 | 100. | 91.0 | 9.00 | 95.1 |
| TEMP | 7 | 13.8 | 2.20 | 11.6 | 8.94 | 8 | 24.5 | 1.10 | 23.4 | 14.9 | 3 | 22.8 | 4.90 | 17.9 | 14.2 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 30 | 135. | 55.5 | 79.5 | 104. | 38 | 146. | 37.8 | 108. | 109. | 13 | 120. | 34.0 | 86.0 | 81.6 |
| CALCIUM | 7 | 41.2 | 24.6 | 16.6 | 34.9 | 8 | 47.3 | 19.4 | 27.9 | 37.1 | 3 | 41.7 | 12.4 | 29.3 | 28.8 |
| CHLORIDE | 6 | 19.4 | 0.400 | 19.0 | 3.67 | 8 | 1.20 | 0.200 | 1.00 | 0.500 | 3 | 0.700 | 0.600 | 0.100 | 0.633 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.005 | 0.001L | 0.004 | 0.002 | 3 | 0.005 | 0.002 | 0.003 | 0.003 |
| FLUORIDE | 7 | 0.290 | 0.130 | 0.160 | 0.223 | 8 | 0.330 | 0.170 | 0.160 | 0.264 | 3 | 0.290 | 0.130 | 0.160 | 0.210 |
| HARD TOT | 7 | 130. | 68.4 | 61.6 | 111. | 8 | 153. | 60.8 | 92.2 | 119. | 3 | 139. | 37.0 | 102. | 93.7 |
| IRON | 7 | 0.050 | 0.010 | 0.040 | 0.023 | 8 | 0.060 | 0.010L | 0.050 | 0.025 | 3 | 0.110 | 0.010L | 0.100 | 0.053 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.012L | 0.005L | 0.007 | 0.009 |
| MAGNES | 7 | 7.70 | 1.60 | 6.10 | 5.76 | 8 | 8.50 | 3.00 | 5.50 | 6.35 | 1 | 8.50 | 8.50 | 0.0 | 8.50 |
| MANGAN | 7 | 0.004 | -.003 | 0.007 | 0.001 | 8 | 0.012 | 0.001 | 0.011 | 0.005 | 3 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 30 | 0.110 | 0.010L | 0.100 | 0.045 | 38 | 0.150 | 0.010L | 0.140 | 0.063 | 13 | 0.140 | 0.010L | 0.130 | 0.062 |
| TOTAL N | 30 | 0.530 | 0.080 | 0.450 | 0.196 | 37 | 0.460 | 0.030 | 0.430 | 0.204 | 13 | 3.34 | 0.110 | 3.23 | 0.748 |
| PH | 30 | 8.60 | 7.40 | 1.20 | 8.06 | 38 | 8.40 | 7.50 | 0.900 | 8.16 | 13 | 8.20 | 6.90 | 1.30 | 7.82 |
| ORTHO P | 30 | 0.039 | 0.016 | 0.023 | 0.027 | 38 | 0.046 | 0.003 | 0.043 | 0.028 | 13 | 0.140 | 0.023 | 0.117 | 0.037 |
| TOTAL P | 29 | 0.101 | 0.023 | 0.078 | 0.040 | 38 | 0.052 | 0.020 | 0.032 | 0.037 | 13 | 1.20 | 0.029 | 1.17 | 0.136 |
| POTASS | 6 | 1.50 | 1.00 | 0.500 | 1.20 | 8 | 1.50 | 0.800 | 0.700 | 1.14 | 3 | 1.40 | 1.20 | 0.200 | 1.30 |
| SILICA | 5 | 20.2 | 0.400 | 19.8 | 15.4 | 8 | 20.0 | 18.8 | 1.20 | 19.6 | 3 | 22.4 | 18.2 | 4.20 | 19.9 |
| SODIUM | 6 | 7.50 | 4.80 | 2.70 | 6.05 | 8 | 7.20 | 2.90 | 4.30 | 5.75 | 3 | 6.50 | 2.30 | 4.20 | 4.80 |
| SULPHATE | 7 | 31.6 | 13.3 | 18.3 | 25.0 | 8 | 46.1 | 11.0 | 35.1 | 29.8 | 3 | 45.5 | 4.90 | 40.6 | 23.2 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 | 30.0 | 18.0 | 12.0 | 25.4 | 10 | 25.0 | 6.00 | 19.0 | 17.1 |
| ZINC | 7 | 0.006 | 0.001L | 0.005 | 0.002 | 8 | 0.002 | 0.001L | 0.001 | 0.001 | 3 | 0.011 | 0.001L | 0.010 | 0.005 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 9.00 | 2.00L | 7.00 | 5.31 | 38 | 12.0 | 2.00L | 10.0 | 5.34 | 12 | 87.0 | 3.00 | 84.0 | 14.2 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8528 EQUESIS CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 10.0 | 0.0 | 10.0 | 5.00 | 8 | 20.0 | 0.0 | 20.0 | 6.25 | 3 | 45.0 | 0.0 | 45.0 | 16.7 |
| TURBID | 28 | 4.70 | 0.500 | 4.20 | 1.68 | 30 | 22.0 | 0.700 | 21.3 | 3.11 | 3 | 160. | 1.60 | 158. | 56.0 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 12.4 | 5.20 | 7.20 | 8.80 | 1 | 1860. | 1860. | 0.0 | 1860. |
| DISS O2 | 29 | 12.9 | 9.80 | 3.10 | 11.3 | 31 | 13.7 | 10.0 | 3.70 | 12.0 | 3 | 12.2 | 9.60 | 2.60 | 10.5 |
| D.O. SAT | 29 | 112. | 85.0 | 27.0 | 97.6 | 33 | 108. | 89.0 | 19.0 | 98.5 | 3 | 90.0 | 80.0 | 10.0 | 86.7 |
| TEMP | 7 | 13.3 | 3.30 | 10.0 | 8.27 | 8 | 24.9 | 0.0 | 24.9 | 14.9 | 3 | 23.3 | 5.70 | 17.6 | 13.6 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 212. | 62.0 | 150. | 183. | 33 | 220. | 86.7 | 133. | 190. | 3 | 211. | 64.0 | 147. | 156. |
| CALCIUM | 7 | 59.8 | 46.8 | 13.0 | 55.0 | 8 | 65.3 | 1.00 | 64.3 | 51.0 | 3 | 62.8 | 21.2 | 41.6 | 45.7 |
| CHLORIDE | 6 | 0.600 | 0.400 | 0.200 | 0.450 | 8 | 0.500 | 0.200 | 0.300 | 0.400 | 3 | 0.800 | 0.500 | 0.300 | 0.633 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.006 | 0.001L | 0.005 | 0.002 | 3 | 0.003 | 0.001 | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.290 | 0.220 | 0.070 | 0.251 | 8 | 0.260 | 0.180 | 0.080 | 0.220 | 3 | 0.230 | 0.120 | 0.110 | 0.187 |
| HARD TOT | 7 | 226. | 181. | 45.0 | 207. | 8 | 237. | 116. | 121. | 206. | 3 | 243. | 71.0 | 172. | 174. |
| IRON | 7 | 0.100 | 0.010 | 0.090 | 0.027 | 8 | 0.040 | 0.010L | 0.030 | 0.024 | 3 | 0.090 | 0.010L | 0.080 | 0.037 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.012L | 0.005L | 0.007 | 0.009 |
| MAGNES | 7 | 19.3 | 13.4 | 5.90 | 17.0 | 8 | 20.0 | 9.40 | 10.6 | 16.8 | 1 | 20.9 | 20.9 | 0.0 | 20.9 |
| MANGAN | 7 | 0.002 | 0.001L | 0.001 | 0.001 | 8 | 0.010L | 0.001L | 0.009 | 0.003 | 3 | 0.047 | 0.010L | 0.037 | 0.022 |
| NITRATE | 29 | 0.170 | 0.010L | 0.160 | 0.077 | 33 | 0.140 | 0.010L | 0.130 | 0.080 | 3 | 0.160 | 0.080 | 0.080 | 0.123 |
| TOTAL N | 29 | 1.11 | 0.020 | 1.09 | 0.239 | 32 | 0.490 | 0.040 | 0.450 | 0.204 | 3 | 7.15 | 0.300 | 6.85 | 2.61 |
| PH | 29 | 8.90 | 6.90 | 2.00 | 8.24 | 33 | 8.60 | 8.00 | 0.600 | 8.38 | 3 | 8.50 | 7.50 | 1.00 | 8.03 |
| ORTHO P | 29 | 0.055 | 0.007 | 0.048 | 0.017 | 33 | 0.160 | 0.003 | 0.157 | 0.025 | 3 | 0.029 | 0.023 | 0.006 | 0.025 |
| TOTAL P | 28 | 0.095 | 0.009 | 0.086 | 0.033 | 32 | 0.114 | 0.016 | 0.098 | 0.036 | 3 | 1.21 | 0.039 | 1.17 | 0.446 |
| POTASS | 6 | 3.10 | 2.60 | 0.500 | 2.75 | 8 | 3.20 | 2.00 | 1.20 | 2.67 | 3 | 3.20 | 1.90 | 1.30 | 2.73 |
| SILICA | 6 | 25.5 | 19.3 | 6.20 | 22.1 | 8 | 26.3 | 21.8 | 4.50 | 23.1 | 3 | 32.4 | 21.2 | 11.2 | 25.7 |
| SODIUM | 6 | 9.80 | 8.30 | 1.50 | 8.93 | 8 | 10.1 | 5.50 | 4.60 | 8.21 | 3 | 9.00 | 2.90 | 6.10 | 6.97 |
| SULPHATE | 7 | 38.1 | 29.1 | 9.00 | 33.6 | 8 | 43.2 | 18.0 | 25.2 | 35.2 | 3 | 50.3 | 11.6 | 38.7 | 35.7 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 48.0 | 30.0 | 18.0 | 40.1 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 7 | 0.001 | 0.001L | 0.0 | 0.001 | 8 | 0.003 | 0.001L | 0.002 | 0.001 | 3 | 0.004 | 0.001L | 0.003 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 20.0 | 2.00L | 18.0 | 4.36 | 33 | 11.0 | 2.00L | 9.00 | 4.85 | 3 | 336. | 4.00 | 332. | 116. |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8529 DEEP CREEK OFF WEST SIDE ROAD

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| CCLOUR | 6 | 100. | 20.0 | 80.0 | 37.5 | 8 | 30.0 | 10.0 | 20.0 | 23.7 | 4 | 55.0 | 20.0 | 35.0 | 32.5 |
| TURBID | 28 | 31.0 | 1.30 | 29.7 | 8.59 | 43 | 70.0 | 1.90 | 68.1 | 12.2 | 40 | 22.0 | 0.500 | 21.5 | 5.95 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 5 | 12.4 | 6.80 | 5.60 | 8.08 | 5 | 56.8 | 6.00 | 50.8 | 30.6 | 2 | 26.4 | 8.00 | 18.4 | 17.2 |
| DISS 02 | 29 | 11.1 | 5.20 | 5.90 | 7.37 | 44 | 13.5 | 5.30 | 8.20 | 8.21 | 40 | 12.4 | 3.80 | 8.60 | 6.66 |
| D.O. SAT | 29 | 128. | 45.0 | 83.0 | 69.6 | 46 | 113. | 55.0 | 58.0 | 72.8 | 40 | 107. | 31.0 | 76.0 | 58.8 |
| TEMP | 7 | 22.5 | 4.40 | 18.1 | 13.2 | 8 | 24.2 | 2.70 | 21.5 | 15.2 | 4 | 23.3 | 4.70 | 18.6 | 15.6 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 357. | 166. | 191. | 233. | 46 | 281. | 162. | 119. | 252. | 40 | 377. | 101. | 276. | 229. |
| CALCIUM | 7 | 87.5 | 56.4 | 31.1 | 76.9 | 8 | 112. | 84.1 | 27.9 | 92.2 | 4 | 111. | 60.2 | 50.8 | 84.5 |
| CHLORIDE | 6 | 3.10 | 2.20 | 0.900 | 2.67 | 8 | 43.0 | 2.40 | 40.6 | 8.67 | 4 | 3.90 | 2.50 | 1.40 | 3.05 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.007 | 0.001L | 0.006 | 0.003 | 4 | 0.003 | 0.001L | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.300 | 0.240 | 0.060 | 0.273 | 8 | 0.310 | 0.260 | 0.050 | 0.277 | 4 | 0.290 | 0.160 | 0.130 | 0.247 |
| HARD TOT | 7 | 370. | 236. | 134. | 317. | 8 | 390. | 299. | 91.0 | 353. | 4 | 414. | 194. | 220. | 327. |
| IRON | 7 | 0.220 | 0.010 | 0.210 | 0.089 | 8 | 0.110 | 0.030 | 0.080 | 0.060 | 4 | 0.140 | 0.030 | 0.110 | 0.095 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.006L | 0.006 | 0.009 |
| MAGNES | 7 | 40.9 | 23.1 | 17.8 | 30.4 | 8 | 37.4 | 21.6 | 15.8 | 29.8 | 1 | 33.2 | 33.2 | 0.0 | 33.2 |
| MANGAN | 7 | 0.270 | 0.001L | 0.269 | 0.174 | 8 | 0.340 | 0.001 | 0.339 | 0.197 | 4 | 0.290 | 0.110 | 0.180 | 0.185 |
| NITRATE | 29 | 1.71 | 0.010 | 1.70 | 0.320 | 46 | 0.970 | 0.010L | 0.960 | 0.135 | 40 | 0.970 | 0.010L | 0.960 | 0.249 |
| TOTAL N | 29 | 3.75 | 0.340 | 3.41 | 1.45 | 45 | 2.44 | 0.220 | 2.22 | 1.44 | 40 | 3.12 | 0.510 | 2.61 | 1.74 |
| PH | 29 | 9.20 | 7.20 | 2.00 | 7.97 | 46 | 8.60 | 7.40 | 1.20 | 8.07 | 40 | 8.30 | 7.40 | 0.900 | 7.84 |
| ORTHO P | 29 | 0.235 | 0.003 | 0.232 | 0.105 | 46 | 0.391 | 0.023 | 0.368 | 0.207 | 40 | 0.554 | 0.023 | 0.531 | 0.283 |
| TOTAL P | 28 | 0.587 | 0.052 | 0.535 | 0.234 | 45 | 0.587 | 0.228 | 0.359 | 0.366 | 40 | 0.717 | 0.173 | 0.544 | 0.415 |
| POTASS | 6 | 8.40 | 7.10 | 1.30 | 7.58 | 8 | 7.80 | 0.0 | 7.80 | 6.29 | 4 | 10.0 | 4.50 | 5.50 | 7.45 |
| SILICA | 6 | 30.8 | 25.0 | 5.80 | 27.4 | 8 | 31.2 | 10.0 | 21.2 | 24.2 | 4 | 27.7 | 14.9 | 12.8 | 23.6 |
| SODIUM | 6 | 30.4 | 21.0 | 9.40 | 23.2 | 8 | 24.9 | 16.9 | 8.00 | 21.9 | 4 | 30.5 | 9.70 | 20.8 | 21.9 |
| SULPHATE | 7 | 162. | 111. | 51.0 | 137. | 8 | 199. | 136. | 63.0 | 159. | 4 | 203. | 106. | 97.3 | 149. |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 23 | 62.0 | 34.0 | 28.0 | 55.9 | 36 | 67.0 | 20.0 | 47.0 | 48.2 |
| ZINC | 7 | 0.004 | 0.001L | 0.003 | 0.002 | 8 | 0.010 | 0.001L | 0.009 | 0.003 | 4 | 0.005 | 0.001L | 0.004 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 25.0 | 2.00 | 23.0 | 7.43 | 46 | 20.0 | 2.00 | 18.0 | 11.3 | 39 | 27.0 | 6.00 | 21.0 | 14.7 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B530 VERNON CREEK AT INLET TO OKANAGAN LAKE

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 15.0 | 5.00 | 10.0 | 10.3 | 8 | 20.0 | 5.00 | 15.0 | 11.5 | 4 | 20.0 | 7.00 | 13.0 | 13.0 |
| TURBID | 28 | 61.0 | 3.00 | 58.0 | 12.3 | 43 | 37.0 | 1.90 | 35.1 | 13.0 | 40 | 37.0 | 1.80 | 35.2 | 10.8 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 5 | 31.6 | 9.00 | 22.6 | 20.1 | 7 | 80.4 | 6.00 | 74.4 | 40.1 | 3 | 128. | 9.20 | 119. | 62.7 |
| DISS 02 | 29 | 12.2 | 7.50 | 4.70 | 9.53 | 44 | 12.3 | 7.50 | 4.80 | 10.2 | 40 | 12.3 | 6.20 | 6.10 | 9.35 |
| D.O. SAT | 29 | 123. | 80.0 | 43.0 | 91.3 | 46 | 118. | 73.0 | 45.0 | 92.0 | 40 | 99.0 | 64.0 | 35.0 | 81.8 |
| TEMP | 7 | 24.2 | 3.80 | 20.4 | 13.8 | 8 | 24.8 | 3.30 | 21.5 | 16.1 | 4 | 20.6 | 5.30 | 15.3 | 14.2 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 193. | 145. | 48.0 | 169. | 46 | 211. | 145. | 66.0 | 183. | 40 | 244. | 107. | 137. | 183. |
| CALCIUM | 7 | 68.3 | 47.0 | 21.3 | 57.2 | 8 | 69.4 | 47.9 | 21.5 | 59.4 | 4 | 87.9 | 36.9 | 51.0 | 62.5 |
| CHLORIDE | 6 | 35.1 | 1.60 | 33.5 | 9.03 | 8 | 16.4 | 3.50 | 12.9 | 7.22 | 4 | 17.0 | 3.60 | 13.4 | 10.6 |
| COPPER | 7 | 0.003 | 0.001L | 0.002 | 0.002 | 8 | 0.009 | 0.001 | 0.008 | 0.004 | 4 | 0.008 | 0.003 | 0.005 | 0.005 |
| FLUORIDE | 7 | 0.310 | 0.230 | 0.080 | 0.280 | 8 | 0.290 | 0.240 | 0.050 | 0.264 | 4 | 0.260 | 0.150 | 0.110 | 0.225 |
| HARD TOT | 7 | 240. | 181. | 59.0 | 217. | 8 | 297. | 181. | 116. | 232. | 4 | 372. | 143. | 229. | 249. |
| IRON | 7 | 0.180 | 0.010 | 0.170 | 0.056 | 8 | 0.040 | 0.010 | 0.030 | 0.030 | 4 | 0.050 | 0.010L | 0.040 | 0.035 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 7 | 19.8 | 15.2 | 4.60 | 18.0 | 8 | 30.1 | 14.9 | 15.2 | 20.4 | 1 | 40.7 | 40.7 | 0.0 | 40.7 |
| MANGAN | 7 | 0.056 | 0.001L | 0.055 | 0.018 | 8 | 0.330 | 0.010 | 0.320 | 0.059 | 4 | 0.065 | 0.018 | 0.047 | 0.043 |
| NITRATE | 29 | 2.08 | 0.220 | 1.86 | 0.818 | 46 | 2.60 | 0.270 | 2.33 | 1.12 | 40 | 2.50 | 0.140 | 2.36 | 0.982 |
| TOTAL N | 28 | 2.84 | 0.690 | 2.15 | 1.42 | 46 | 12.0 | 0.710 | 11.3 | 2.18 | 40 | 5.21 | 0.190 | 5.02 | 2.37 |
| PH | 29 | 8.60 | 7.20 | 1.40 | 7.99 | 46 | 8.30 | 7.60 | 0.700 | 7.99 | 40 | 8.90 | 7.50 | 1.40 | 7.93 |
| ORTHO P | 29 | 0.946 | 0.013 | 0.933 | 0.438 | 46 | 1.50 | 0.023 | 1.48 | 0.589 | 40 | 1.50 | 0.055 | 1.44 | 0.547 |
| TOTAL P | 28 | 1.17 | 0.062 | 1.11 | 0.552 | 45 | 1.66 | 0.039 | 1.62 | 0.712 | 40 | 1.86 | 0.095 | 1.76 | 0.675 |
| POTASS | 6 | 6.10 | 4.80 | 1.30 | 5.28 | 8 | 6.10 | 4.60 | 1.50 | 5.45 | 4 | 9.90 | 4.00 | 5.90 | 6.30 |
| SILICA | 6 | 15.4 | 8.80 | 6.60 | 12.7 | 8 | 15.0 | 11.3 | 3.70 | 13.3 | 4 | 16.2 | 10.2 | 6.00 | 13.3 |
| SODIUM | 6 | 42.2 | 18.2 | 24.0 | 24.1 | 8 | 29.4 | 16.8 | 12.6 | 24.1 | 4 | 41.0 | 13.6 | 27.4 | 25.7 |
| SULPHATE | 7 | 91.5 | 58.6 | 32.9 | 79.6 | 8 | 153. | 61.4 | 91.6 | 95.6 | 4 | 224. | 53.7 | 170. | 112. |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 23 | 48.0 | 24.0 | 24.0 | 39.7 | 35 | 51.0 | 20.0 | 31.0 | 38.5 |
| ZINC | 7 | 0.007 | 0.003 | 0.004 | 0.005 | 8 | 0.009 | 0.003 | 0.006 | 0.006 | 4 | 0.013 | 0.003 | 0.010 | 0.007 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 21.0 | 2.00L | 19.0 | 5.89 | 46 | 18.0 | 2.00L | 16.0 | 7.59 | 38 | 25.0 | 4.00 | 21.0 | 10.3 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: E531 BX CREEK: BRIDGE AT HIGHWAY 97

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 45.0 | 5.00 | 40.0 | 25.0 | 8 | 90.0 | 10.0 | 80.0 | 26.2 | 5 | 60.0 | 0.0 | 60.0 | 25.0 |
| TURBID | 28 | 80.0 | 4.50 | 75.5 | 28.3 | 36 | 48.0 | 1.00 | 47.0 | 13.1 | 20 | 150. | 0.800 | 149. | 12.0 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 6 | 120. | 5.80 | 114. | 56.1 | 6 | 47.6 | 4.80 | 42.8 | 27.2 | 3 | 1160. | 4.40 | 1156. | 392. |
| DISS O2 | 29 | 13.4 | 3.70 | 9.70 | 9.42 | 36 | 14.2 | 9.60 | 4.60 | 11.6 | 20 | 13.8 | 3.30 | 10.5 | 10.5 |
| D.O. SAT | 29 | 146. | 40.0 | 106. | 87.9 | 38 | 184. | 75.0 | 109. | 104. | 20 | 129. | 36.0 | 93.0 | 90.7 |
| TEMP | 7 | 24.0 | 3.30 | 20.7 | 12.5 | 8 | 24.8 | 2.20 | 22.6 | 16.1 | 4 | 19.5 | 4.20 | 15.3 | 12.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 337. | 105. | 232. | 237. | 38 | 324. | 70.6 | 253. | 238. | 20 | 310. | 56.0 | 254. | 223. |
| CALCIUM | 7 | 87.9 | 42.1 | 45.8 | 73.5 | 8 | 92.4 | 31.0 | 61.4 | 75.0 | 4 | 91.9 | 22.7 | 69.2 | 68.7 |
| CHLORIDE | 6 | 8.40 | 4.40 | 4.00 | 5.62 | 8 | 13.3 | 0.700 | 12.6 | 6.75 | 4 | 15.2 | 0.700 | 14.5 | 7.42 |
| COPPER | 7 | 0.003 | 0.002L | 0.001 | 0.002 | 8 | 0.006 | 0.001L | 0.005 | 0.002 | 4 | 0.004 | 0.001L | 0.003 | 0.002 |
| FLUORIDE | 7 | 0.260 | 0.100 | 0.160 | 0.197 | 8 | 0.260 | 0.100 | 0.160 | 0.197 | 4 | 0.260 | 0.070 | 0.190 | 0.190 |
| HARD TOT | 7 | 328. | 126. | 202. | 266. | 8 | 367. | 92.5 | 274. | 278. | 4 | 392. | 68.0 | 324. | 275. |
| IRON | 7 | 0.300 | 0.010 | 0.290 | 0.091 | 8 | 0.190 | 0.020 | 0.170 | 0.060 | 4 | 0.150 | 0.030 | 0.120 | 0.067 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.039 | 0.005L | 0.034 | 0.013 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 7 | 26.4 | 5.10 | 21.3 | 20.1 | 8 | 36.0 | 3.70 | 32.3 | 22.1 | 1 | 39.5 | 39.5 | 0.0 | 39.5 |
| MANGAN | 7 | 0.160 | 0.001L | 0.159 | 0.064 | 8 | 0.170 | 0.008 | 0.162 | 0.065 | 4 | 0.130 | 0.010 | 0.120 | 0.052 |
| NITRATE | 29 | 2.25 | 0.040 | 2.21 | 1.14 | 38 | 3.30 | 0.140 | 3.16 | 1.53 | 20 | 5.00 | 0.080 | 4.92 | 1.93 |
| TOTAL N | 29 | 9.55 | 0.520 | 9.03 | 3.01 | 38 | 6.65 | 0.360 | 6.29 | 2.28 | 20 | 6.11 | 0.160 | 5.95 | 2.76 |
| PH | 29 | 8.80 | 7.20 | 1.60 | 8.04 | 38 | 8.70 | 7.70 | 1.00 | 8.23 | 20 | 8.40 | 7.40 | 1.00 | 8.04 |
| ORTHO P | 29 | 1.89 | 0.003 | 1.89 | 0.355 | 38 | 0.848 | 0.010 | 0.838 | 0.225 | 20 | 0.717 | 0.007 | 0.710 | 0.211 |
| TOTAL P | 29 | 2.54 | 0.007 | 2.53 | 0.558 | 37 | 1.30 | 0.033 | 1.27 | 0.321 | 20 | 0.978 | 0.026 | 0.952 | 0.324 |
| POTASS | 6 | 8.60 | 5.00 | 3.60 | 6.32 | 8 | 18.5 | 1.60 | 16.9 | 6.79 | 4 | 16.5 | 2.10 | 14.4 | 8.02 |
| SILICA | 6 | 19.6 | 16.0 | 3.60 | 17.6 | 8 | 19.7 | 12.3 | 7.40 | 16.1 | 4 | 19.0 | 13.3 | 5.70 | 16.8 |
| SODIUM | 6 | 44.3 | 18.5 | 25.8 | 28.9 | 8 | 46.0 | 3.30 | 42.7 | 28.1 | 4 | 44.0 | 1.90 | 42.1 | 30.7 |
| SULPHATE | 7 | 105. | 25.4 | 79.6 | 78.4 | 8 | 128. | 19.9 | 108. | 91.9 | 4 | 162. | 15.0 | 147. | 97.9 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 | 71.0 | 36.0 | 35.0 | 55.9 | 16 | 71.0 | 10.0 | 61.0 | 46.8 |
| ZINC | 7 | 0.010 | 0.001 | 0.009 | 0.006 | 8 | 0.019 | 0.001 | 0.018 | 0.005 | 4 | 0.005 | 0.001 | 0.004 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 16.0 | 3.00 | 13.0 | 8.18 | 38 | 22.0 | 4.00 | 18.0 | 7.82 | 19 | 54.0 | 4.00 | 50.0 | 12.6 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8532 COLDSTREAM CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 6 | 10.0 | 5.00 | 5.00 | 6.67 | 8 | 45.0 | 0.0 | 45.0 | 10.6 | 4 | 35.0 | 0.0 | 35.0 | 12.5 |
| TURBID | 27 | 46.0 | 1.50 | 44.5 | 5.67 | 42 | 51.0 | 1.10 | 49.9 | 5.29 | 39 | 44.0 | C.400 | 43.6 | 8.12 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 3 | 15.6 | 6.60 | 9.00 | 11.6 | 4 | 64.4 | 6.40 | 58.0 | 23.7 | 2 | 224. | 4.40 | 220. | 114. |
| DISS O2 | 29 | 13.4 | 7.30 | 6.10 | 10.7 | 43 | 14.1 | 9.00 | 5.10 | 11.6 | 40 | 13.9 | 7.10 | 6.80 | 11.2 |
| D.O. SAT | 29 | 105. | 85.0 | 20.0 | 96.8 | 45 | 124. | 75.0 | 49.0 | 99.7 | 40 | 117. | 67.0 | 50.0 | 94.7 |
| TEMP | 7 | 16.8 | 3.80 | 13.0 | 10.6 | 8 | 24.7 | 3.30 | 21.4 | 16.2 | 4 | 23.2 | 4.50 | 18.7 | 12.7 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 258. | 180. | 78.0 | 211. | 45 | 261. | 112. | 149. | 222. | 40 | 274. | 100. | 174. | 208. |
| CALCIUM | 7 | 79.1 | 31.4 | 47.7 | 66.4 | 8 | 82.5 | 39.6 | 42.9 | 70.4 | 4 | 80.3 | 35.6 | 44.7 | 65.1 |
| CHLORIDE | 7 | 2.70 | 1.70 | 1.00 | 2.19 | 8 | 3.90 | 0.900 | 3.00 | 2.61 | 4 | 5.00 | 1.40 | 3.60 | 3.07 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.007 | 0.001L | 0.006 | 0.003 | 4 | 0.012 | 0.001L | 0.011 | 0.004 |
| FLUORIDE | 7 | 0.380 | 0.260 | 0.120 | 0.320 | 8 | 0.360 | 0.170 | 0.190 | 0.311 | 4 | 0.340 | 0.130 | 0.210 | 0.247 |
| HARD TOT | 7 | 287. | 242. | 45.0 | 259. | 8 | 320. | 130. | 190. | 256. | 4 | 306. | 117. | 189. | 235. |
| IRON | 7 | 0.080 | 0.010L | 0.070 | 0.030 | 8 | 0.050 | 0.010L | 0.040 | 0.025 | 4 | 0.060 | 0.010L | 0.050 | 0.030 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 7 | 39.7 | 18.1 | 21.6 | 22.6 | 8 | 27.7 | 7.60 | 20.1 | 19.4 | 1 | 26.5 | 26.5 | 0.0 | 26.5 |
| MANGAN | 7 | 0.005 | 0.001L | 0.004 | 0.003 | 8 | C.022 | 0.004 | 0.018 | 0.010 | 4 | 0.060 | 0.010L | 0.050 | 0.026 |
| NITRATE | 29 | 1.67 | 0.170 | 1.50 | 1.21 | 45 | 1.94 | 0.320 | 1.62 | 1.31 | 40 | 2.20 | 0.010L | 2.19 | 1.27 |
| TOTAL N | 27 | 2.06 | 0.620 | 1.44 | 1.50 | 44 | 3.92 | 0.790 | 3.13 | 1.64 | 40 | 3.11 | 0.140 | 2.97 | 1.76 |
| PH | 29 | 8.70 | 7.50 | 1.20 | 8.23 | 45 | 8.70 | 7.80 | 0.900 | 8.34 | 40 | 11.4 | 7.80 | 3.60 | 8.33 |
| ORTHO P | 29 | 0.135 | 0.003 | 0.132 | 0.018 | 45 | 0.359 | 0.007 | 0.352 | 0.030 | 40 | 0.088 | 0.003 | 0.085 | 0.028 |
| TOTAL P | 28 | 0.210 | 0.016 | 0.194 | 0.043 | 44 | 0.522 | 0.020 | 0.502 | 0.063 | 40 | 0.750 | 0.023 | 0.727 | 0.099 |
| POTASS | 7 | 6.80 | 4.00 | 2.80 | 5.00 | 8 | 6.60 | 2.20 | 4.40 | 5.04 | 4 | 9.10 | 2.60 | 6.50 | 5.40 |
| SILICA | 7 | 19.3 | 17.4 | 1.90 | 18.2 | 8 | 20.0 | 16.5 | 3.50 | 18.2 | 4 | 18.8 | 18.0 | 0.800 | 18.4 |
| SODIUM | 7 | 18.2 | 12.0 | 6.20 | 14.8 | 8 | 22.7 | 6.20 | 16.5 | 15.9 | 4 | 25.3 | 5.00 | 20.3 | 15.4 |
| SULPHATE | 7 | 77.6 | 54.7 | 22.9 | 63.3 | 8 | 104. | 27.1 | 76.9 | 68.3 | 4 | 106. | 21.9 | 84.1 | 62.7 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 22 | 53.0 | 27.0 | 26.0 | 45.0 | 36 | 58.0 | 12.0 | 46.0 | 41.3 |
| ZINC | 7 | 0.004 | 0.001 | 0.003 | 0.002 | 8 | 0.014 | 0.002L | 0.012 | 0.004 | 4 | 0.084 | 0.001L | 0.083 | 0.022 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 28 | 9.00 | 2.00L | 7.00 | 3.50 | 44 | 26.0 | 2.00L | 24.0 | 6.14 | 39 | 45.0 | 2.00L | 43.0 | 8.41 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B533 NASWHITO CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| CCLOUR | 6 | 30.0 | 7.00 | 23.0 | 14.5 | 8 | 50.0 | 0.0 | 50.0 | 13.7 | 3 | 70.0 | 5.00 | 65.0 | 28.3 |
| TURBID | 28 | 5.50 | 0.400 | 5.10 | 1.75 | 29 | 12.0 | 0.400 | 11.6 | 2.59 | 3 | 87.0 | 0.800 | 86.2 | 29.8 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 6.00 | 2.00 | 4.00 | 4.00 | 1 | 585. | 585. | 0.0 | 585. |
| DISS 02 | 29 | 13.8 | 1.30 | 12.5 | 11.0 | 30 | 14.0 | 9.80 | 4.20 | 12.1 | 3 | 13.2 | 8.70 | 4.50 | 11.1 |
| D.O. SAT | 29 | 105. | 9.008 | 96.0 | 93.7 | 32 | 104. | 89.0 | 15.0 | 98.0 | 3 | 93.0 | 89.0 | 4.00 | 90.7 |
| TEMP | 7 | 13.8 | 0.500 | 13.3 | 8.20 | 8 | 24.7 | 0.0 | 24.7 | 14.7 | 3 | 23.3 | 4.40 | 18.9 | 14.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 29 | 175. | 48.0 | 127. | 100. | 32 | 154. | 24.8 | 129. | 110. | 3 | 109. | 34.0 | 75.0 | 77.3 |
| CALCIUM | 7 | 29.6 | 15.8 | 13.8 | 24.1 | 8 | 38.7 | 15.1 | 23.6 | 28.5 | 3 | 27.9 | 10.9 | 17.0 | 20.8 |
| CHLORIDE | 6 | 0.700 | 0.400 | 0.300 | 0.500 | 8 | 0.800 | 0.400 | 0.400 | 0.525 | 3 | 0.700 | 0.400 | 0.300 | 0.533 |
| COPPER | 7 | 0.002L | 0.001L | 0.001 | 0.001 | 8 | 0.005 | 0.001L | 0.004 | 0.002 | 3 | 0.003 | 0.001 | 0.002 | 0.002 |
| FLUORIDE | 7 | 0.260 | 0.090 | 0.170 | 0.146 | 8 | 0.200 | 0.080 | 0.120 | 0.150 | 3 | 0.160 | 0.080 | 0.080 | 0.120 |
| HARD TOT | 7 | 103. | 48.4 | 54.6 | 82.2 | 8 | 142. | 49.8 | 92.2 | 99.6 | 3 | 104. | 35.0 | 69.0 | 74.3 |
| IRON | 7 | 0.050 | 0.010 | 0.040 | 0.024 | 8 | 0.080 | 0.010L | 0.070 | 0.029 | 3 | 0.090 | 0.010L | 0.080 | 0.040 |
| LEAD | 7 | 0.010L | 0.005L | 0.005 | 0.009 | 8 | 0.010L | 0.005L | 0.005 | 0.009 | 3 | 0.012L | 0.005L | 0.007 | 0.009 |
| MAGNES | 7 | 7.30 | 2.20 | 5.10 | 5.34 | 8 | 11.0 | 2.90 | 8.10 | 6.89 | 1 | 8.30 | 8.30 | 0.0 | 8.30 |
| MANGAN | 7 | 0.003 | 0.001L | 0.002 | 0.001 | 8 | 0.010L | 0.001L | 0.009 | 0.003 | 3 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 29 | 0.110 | 0.010L | 0.100 | 0.017 | 32 | 0.110 | 0.010L | 0.100 | 0.019 | 3 | 0.030 | 0.010L | 0.020 | 0.020 |
| TOTAL N | 29 | 0.380 | 0.020 | 0.360 | 0.147 | 30 | 0.970 | 0.0 | 0.970 | 0.178 | 3 | 1.49 | 0.080 | 1.41 | 0.557 |
| PH | 29 | 8.50 | 7.50 | 1.00 | 8.04 | 32 | 8.40 | 7.60 | 0.800 | 8.11 | 3 | 8.00 | 7.10 | 0.900 | 7.67 |
| ORTHO P | 29 | 0.520 | 0.0 | 0.520 | 0.068 | 32 | 0.104 | 0.020 | 0.084 | 0.060 | 3 | 0.065 | 0.059 | 0.006 | 0.063 |
| TOTAL P | 28 | 9.95 | 0.020 | 9.93 | 0.434 | 31 | 0.130 | 0.023 | 0.107 | 0.067 | 3 | 0.750 | 0.065 | 0.685 | 0.296 |
| POTASS | 6 | 2.40 | 1.50 | 0.900 | 1.83 | 8 | 2.30 | 1.70 | 0.600 | 2.00 | 3 | 2.40 | 1.20 | 1.20 | 1.83 |
| SILICA | 6 | 31.0 | 25.6 | 5.40 | 28.6 | 8 | 31.0 | 26.9 | 4.10 | 28.9 | 3 | 28.8 | 27.0 | 1.80 | 27.7 |
| SODIUM | 6 | 7.80 | 5.10 | 2.70 | 6.55 | 8 | 10.0 | 4.20 | 5.80 | 7.54 | 3 | 8.20 | 2.50 | 5.70 | 5.73 |
| SULPHATE | 7 | 13.0 | 5.30 | 7.70 | 9.30 | 8 | 16.3 | 4.90 | 11.4 | 11.5 | 3 | 12.9 | 10.5 | 2.40 | 11.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 9 | 28.0 | 13.0 | 15.0 | 22.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ZINC | 7 | 0.002 | 0.001L | 0.001 | 0.001 | 8 | 0.003 | 0.001L | 0.002 | 0.001 | 3 | 0.002 | 0.001L | 0.001 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 29 | 8.00 | 0.02 | 8.00 | 4.76 | 32 | 12.0 | 2.00L | 10.0 | 6.06 | 3 | 36.0 | 5.00 | 31.0 | 16.7 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B534 GARBAGE CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 50.0 | 10.0 | 40.0 | 30.0 | 2 | 70.0 | 10.0 | 60.0 | 40.0 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 9 | 25.0 | 3.90 | 21.1 | 9.40 | 12 | 29.0 | 4.00 | 25.0 | 9.38 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 3.60 | 3.60 | 0.0 | 3.60 | 3 | 11.6 | C.200L | 11.4 | 6.07 |
| DISS 02 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 9.70 | 2.60 | 7.10 | 6.40 | 12 | 10.3 | 1.70 | 8.60 | 5.84 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 85.0 | 20.0 | 65.0 | 56.9 | 11 | 82.0 | 14.0 | 68.0 | 50.5 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 23.7 | 20.6 | 3.10 | 22.1 | 3 | 24.2 | 13.2 | 11.0 | 19.8 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 231. | 152. | 79.0 | 191. | 12 | 240. | 129. | 111. | 185. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 36.6 | 34.0 | 2.60 | 35.3 | 3 | 57.1 | 32.2 | 24.9 | 43.0 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 2.50 | 2.40 | 0.100 | 2.45 | 3 | 5.50 | 2.10 | 3.40 | 3.27 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 0.003 | 0.001L | 0.002 | 0.002 | 3 | 0.007 | 0.001L | 0.006 | 0.004 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 0.260 | 0.240 | 0.020 | 0.250 | 3 | 0.380 | 0.170 | 0.210 | 0.270 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 140. | 114. | 26.0 | 127. | 3 | 258. | 130. | 128. | 182. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 0.120 | 0.100 | 0.020 | 0.110 | 3 | 0.580 | 0.040 | 0.540 | 0.250 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 0.010L | 0.005L | 0.005 | 0.007 | 3 | 0.012L | 0.004L | 0.008 | 0.009 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 13.4 | 12.8 | 0.600 | 13.1 | 1 | 28.0 | 28.0 | 0.0 | 28.0 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 0.450 | 0.290 | 0.160 | 0.370 | 3 | 0.390 | 0.026 | 0.364 | 0.239 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 0.100 | 0.030 | 0.070 | 0.058 | 12 | 0.860 | C.020 | 0.840 | 0.123 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 1.11 | 0.270 | 0.840 | 0.760 | 12 | 3.03 | C.570 | 2.46 | 1.08 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 8.10 | 7.40 | 0.700 | 7.70 | 12 | 8.40 | 7.40 | 1.00 | 7.61 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 0.026 | 0.007 | 0.019 | 0.016 | 12 | 0.150 | 0.013 | 0.137 | 0.051 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 0.280 | 0.014 | 0.266 | 0.170 | 12 | 0.850 | 0.137 | 0.713 | 0.293 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 3.60 | 2.40 | 1.20 | 3.00 | 3 | 9.00 | 2.00 | 7.00 | 4.50 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 26.2 | 23.6 | 2.60 | 24.9 | 2 | 27.3 | 25.3 | 2.00 | 26.3 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 19.5 | 17.7 | 1.80 | 18.6 | 3 | 38.0 | 15.0 | 23.0 | 24.3 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 7.80 | 6.90 | 0.900 | 7.35 | 3 | 88.4 | 10.0 | 78.4 | 36.7 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 55.0 | 39.0 | 16.0 | 44.8 | 9 | 51.0 | 29.0 | 22.0 | 40.1 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 0.002L | 0.001 | 0.001 | 0.001 | 3 | 0.022 | 0.002 | 0.020 | 0.010 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 10.0 | 2.00L | 8.00 | 6.30 | 12 | 22.0 | 2.00L | 20.0 | 10.5 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8535 WOLFCUB CREEK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 5.00 | 5.00 | 0.0 | 5.00 | 4 | 5.00 | 0.0 | 5.00 | 1.25 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 11.5 | 0.400 | 11.1 | 4.98 | 20 | 6.70 | 0.100 | 6.60 | 1.65 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 1.80 | 1.80 | 0.0 | 1.80 |
| DISS 02 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 9.00 | 4.50 | 4.50 | 6.20 | 20 | 11.1 | 3.00 | 8.10 | 6.73 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 85.0 | 44.0 | 41.0 | 56.4 | 20 | 105. | 29.0 | 76.0 | 62.6 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 24.4 | 24.4 | 0.0 | 24.4 | 4 | 25.1 | 11.1 | 14.0 | 16.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 214. | 197. | 17.0 | 207. | 20 | 219. | 204. | 15.0 | 212. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 68.9 | 68.9 | 0.0 | 68.9 | 4 | 69.8 | 66.9 | 2.90 | 68.6 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 4.60 | 4.60 | 0.0 | 4.60 | 4 | 5.00 | 4.20 | 0.800 | 4.52 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002 | 0.002 | 0.0 | 0.002 | 4 | 0.002 | 0.001L | 0.001 | 0.001 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.400 | 0.400 | 0.0 | 0.400 | 4 | 0.360 | 0.310 | 0.050 | 0.332 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 239. | 239. | 0.0 | 239. | 4 | 249. | 244. | 5.00 | 246. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.020 | 0.010L | 0.010 | 0.012 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.010L | 0.006L | 0.004 | 0.007 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 16.3 | 16.3 | 0.0 | 16.3 | 1 | 18.0 | 18.0 | 0.0 | 18.0 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010 | 0.010 | 0.0 | 0.010 | 4 | 0.010L | 0.010L | 0.0 | 0.010 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 2.20 | 1.76 | 0.440 | 1.96 | 20 | 2.60 | 0.970 | 1.63 | 2.12 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 3.32 | 1.95 | 1.37 | 2.57 | 20 | 2.79 | 1.38 | 1.41 | 2.37 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 7.90 | 7.60 | 0.300 | 7.78 | 20 | 8.10 | 7.40 | 0.700 | 7.74 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 0.075 | 0.042 | 0.033 | 0.058 | 20 | 0.652 | 0.003 | 0.649 | 0.076 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 0.153 | 0.052 | 0.101 | 0.096 | 20 | 0.684 | 0.016 | 0.668 | 0.093 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 4.90 | 4.90 | 0.0 | 4.90 | 4 | 4.80 | 3.80 | 1.00 | 4.27 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 17.1 | 17.1 | 0.0 | 17.1 | 4 | 17.0 | 14.3 | 2.70 | 15.6 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 10.3 | 10.3 | 0.0 | 10.3 | 4 | 14.5 | 13.1 | 1.40 | 13.8 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 51.8 | 51.8 | 0.0 | 51.8 | 4 | 54.8 | 52.7 | 2.10 | 53.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 49.0 | 33.0 | 16.0 | 42.5 | 16 | 52.0 | 27.0 | 25.0 | 43.0 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.003 | 0.003 | 0.0 | 0.003 | 4 | 0.009 | 0.001 | 0.008 | 0.006 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 8.00 | 2.00 | 6.00 | 5.20 | 20 | 21.0 | 2.00L | 19.0 | 6.10 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8536 MISSION CREEK AT GAUGING STATION

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 5.00 | 5.00 | 0.0 | 5.00 | 4 | 50.0 | 5.00 | 45.0 | 21.2 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 1.60 | 0.400 | 1.20 | 1.00 | 10 | 26.0 | 0.500 | 25.5 | 4.88 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 139. | 2.80 | 136. | 70.9 |
| DISS 02 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 13.7 | 11.1 | 2.60 | 12.8 | 10 | 13.7 | 8.00 | 5.70 | 11.4 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 108. | 96.0 | 12.0 | 103. | 10 | 102. | 88.0 | 14.0 | 94.4 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 20.2 | 20.2 | 0.0 | 20.2 | 4 | 22.1 | 5.30 | 16.8 | 13.2 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 121. | 102. | 19.0 | 108. | 10 | 127. | 15.0 | 112. | 73.1 |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 28.4 | 28.4 | 0.0 | 28.4 | 4 | 26.5 | 5.20 | 21.3 | 15.7 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.700 | 0.700 | 0.0 | 0.700 | 4 | 0.800 | 0.400 | 0.400 | 0.625 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.004 | 0.004 | 0.0 | 0.004 | 4 | 0.002 | 0.001L | 0.001 | 0.001 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.110 | 0.110 | 0.0 | 0.110 | 4 | 0.150 | 0.050 | 0.100 | 0.100 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 105. | 105. | 0.0 | 105. | 4 | 103. | 18.0 | 85.0 | 66.7 |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.050 | 0.050 | 0.0 | 0.050 | 4 | 0.080 | 0.050 | 0.030 | 0.062 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.012L | 0.004L | 0.008 | 0.008 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 8.30 | 8.30 | 0.0 | 8.30 | 1 | 9.00 | 9.00 | 0.0 | 9.00 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.018 | 0.010L | 0.008 | 0.013 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.230 | 0.050 | 0.180 | 0.113 | 10 | 0.310 | 0.010 | 0.300 | 0.092 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.440 | 0.050 | 0.390 | 0.230 | 9 | 0.730 | 0.030 | 0.700 | 0.271 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 9.60 | 8.10 | 1.50 | 8.63 | 10 | 8.40 | 7.00 | 1.40 | 7.80 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.033 | 0.003 | 0.030 | 0.014 | 10 | 0.010 | 0.003L | 0.007 | 0.006 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.049 | 0.007 | 0.042 | 0.023 | 10 | 0.205 | 0.007 | 0.198 | 0.038 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 1.20 | 1.20 | 0.0 | 1.20 | 4 | 1.30 | 0.600 | 0.700 | 1.07 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 13.3 | 13.3 | 0.0 | 13.3 | 4 | 14.3 | 13.2 | 1.10 | 13.6 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 8.60 | 8.60 | 0.0 | 8.60 | 4 | 9.30 | 1.70 | 7.60 | 5.75 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 17.7 | 17.7 | 0.0 | 17.7 | 4 | 21.3 | 3.10 | 18.2 | 12.5 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 21.0 | 19.0 | 2.00 | 20.0 | 6 | 29.0 | 5.00 | 24.0 | 15.7 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002L | 0.002L | 0.0 | 0.002 | 4 | 0.005 | 0.001L | 0.004 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 6.00 | 4.00 | 2.00 | 4.67 | 10 | 13.0 | 2.00 | 11.0 | 7.90 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8537 KELOWNA CREEK AT HIGHWAY 97 BRIDGE

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 10.0 | 10.0 | 0.0 | 10.0 | 4 | 90.0 | 5.00 | 85.0 | 40.0 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 4.40 | 2.50 | 1.90 | 3.40 | 10 | 44.0 | 1.70 | 42.3 | 10.5 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 47.6 | 1.60 | 46.0 | 17.8 |
| DISS 02 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 11.0 | 9.50 | 1.50 | 10.3 | 10 | 11.7 | 7.00 | 4.70 | 9.37 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 88.0 | 84.0 | 4.00 | 86.3 | 10 | 109. | 69.0 | 40.0 | 81.1 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 19.7 | 19.7 | 0.0 | 19.7 | 4 | 23.3 | 7.20 | 16.1 | 14.3 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 198. | 191. | 7.00 | 195. | 10 | 206. | 35.0 | 171. | 167. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 66.0 | 66.0 | 0.0 | 66.0 | 4 | 68.5 | 23.3 | 45.2 | 48.2 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 2.00 | 2.00 | 0.0 | 2.00 | 4 | 4.90 | 1.10 | 3.80 | 2.52 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.001 | 0.001 | 0.0 | 0.001 | 4 | 0.010 | 0.001L | 0.009 | 0.004 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.200 | 0.200 | 0.0 | 0.200 | 4 | 0.230 | 0.100 | 0.130 | 0.187 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 217. | 217. | 0.0 | 217. | 4 | 245. | 73.0 | 172. | 182. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.040 | 0.040 | 0.0 | 0.040 | 4 | 0.190 | 0.040 | 0.150 | 0.102 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.012L | 0.004L | 0.008 | 0.008 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 12.7 | 12.7 | 0.0 | 12.7 | 1 | 18.3 | 18.3 | 0.0 | 18.3 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.073 | 0.073 | 0.0 | 0.073 | 4 | 0.200 | 0.044 | 0.156 | 0.099 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.210 | 0.070 | 0.140 | 0.147 | 10 | 1.09 | 0.050 | 1.04 | 0.309 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.480 | 0.160 | 0.320 | 0.333 | 9 | 3.30 | 0.080 | 3.22 | 0.962 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 8.10 | 8.00 | 0.100 | 8.07 | 10 | 8.60 | 7.30 | 1.30 | 7.89 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.062 | 0.055 | 0.007 | 0.059 | 10 | 0.179 | 0.029 | 0.150 | 0.064 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.088 | 0.085 | 0.003 | 0.086 | 10 | 0.303 | 0.072 | 0.231 | 0.146 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 3.60 | 3.60 | 0.0 | 3.60 | 4 | 6.60 | 1.20 | 5.40 | 3.57 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 21.7 | 21.7 | 0.0 | 21.7 | 4 | 26.4 | 18.4 | 8.00 | 20.8 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 13.6 | 13.6 | 0.0 | 13.6 | 4 | 19.5 | 4.90 | 14.6 | 13.0 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 48.1 | 48.1 | 0.0 | 48.1 | 4 | 77.7 | 15.0 | 62.7 | 45.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 44.0 | 27.0 | 17.0 | 35.5 | 6 | 46.0 | 7.00 | 39.0 | 35.5 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002L | 0.002L | 0.0 | 0.002 | 4 | 0.009 | 0.001L | 0.008 | 0.003 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 6.00 | 5.00 | 1.00 | 5.33 | 10 | 23.0 | 6.00 | 17.0 | 12.9 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B538 BRANDT CREEK AT GOLFVIEW ROAD

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 20.0 | 20.0 | 0.0 | 20.0 | 3 | 60.0 | 7.00 | 53.0 | 35.7 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 7.40 | 1.20 | 6.20 | 3.97 | 20 | 47.0 | 0.400 | 46.6 | 13.8 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 49.6 | 8.80 | 40.8 | 29.2 |
| DISS O2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 13.6 | 10.8 | 2.80 | 12.1 | 20 | 14.4 | 6.70 | 7.70 | 10.6 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 111. | 81.0 | 30.0 | 98.8 | 20 | 112. | 72.0 | 40.0 | 90.6 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 24.6 | 24.6 | 0.0 | 24.6 | 3 | 22.1 | 6.10 | 16.0 | 15.3 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 602. | 415. | 187. | 528. | 20 | 598. | 112. | 486. | 418. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 203. | 203. | 0.0 | 203. | 3 | 178. | 82.8 | 95.2 | 128. |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 36.0 | 36.0 | 0.0 | 36.0 | 3 | 50.8 | 26.0 | 24.8 | 38.6 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002 | 0.002 | 0.0 | 0.002 | 3 | 0.019 | 0.003 | 0.016 | 0.009 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.480 | 0.480 | 0.0 | 0.480 | 3 | 0.450 | 0.420 | 0.030 | 0.433 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 1491. | 1491. | 0.0 | 1491. | 3 | 1382. | 814. | 568. | 1189. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.020 | 0.020 | 0.0 | 0.020 | 3 | 0.060 | 0.040 | 0.020 | 0.050 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 3 | 0.010L | 0.004L | 0.006 | 0.006 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 239. | 239. | 0.0 | 239. | 1 | 225. | 225. | 0.0 | 225. |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.340 | 0.340 | 0.0 | 0.340 | 3 | 0.830 | 0.018 | 0.812 | 0.406 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 1.25 | 0.290 | 0.960 | 0.578 | 20 | 3.30 | 0.040 | 3.26 | 0.858 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 2.37 | 0.810 | 1.56 | 1.33 | 19 | 5.21 | 0.790 | 4.42 | 1.94 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 8.60 | 8.20 | 0.400 | 8.37 | 20 | 8.50 | 7.70 | 0.800 | 8.24 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.359 | 0.192 | 0.167 | 0.299 | 20 | 0.750 | 0.117 | 0.633 | 0.378 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.391 | 0.225 | 0.166 | 0.324 | 20 | 0.750 | 0.157 | 0.593 | 0.449 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 11.6 | 11.6 | 0.0 | 11.6 | 3 | 14.6 | 10.0 | 4.60 | 11.6 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 15.8 | 15.8 | 0.0 | 15.8 | 3 | 23.0 | 15.6 | 7.40 | 18.2 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 615. | 615. | 0.0 | 615. | 3 | 578. | 346. | 232. | 473. |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 2117. | 2117. | 0.0 | 2117. | 3 | 1922. | 132. | 1790. | 1013. |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 120. | 71.0 | 49.0 | 107. | 17 | 117. | 39.0 | 78.0 | 77.9 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002L | 0.002L | 0.0 | 0.002 | 3 | 0.009 | 0.003 | 0.006 | 0.005 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 35.0 | 8.00 | 27.0 | 18.0 | 20 | 34.0 | 6.00 | 28.0 | 22.9 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: B539 BX CREEK UPSTREAM ON SILVER STAR ROAD

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 5.00 | 5.00 | 0.0 | 5.00 | 4 | 25.0 | 5.00 | 20.0 | 10.5 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 3.40 | 0.100 | 3.30 | 1.43 | 10 | 140. | 0.200 | 140. | 16.5 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TO SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 965. | 965. | 0.0 | 965. |
| DISS O2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 12.8 | 10.1 | 2.70 | 11.5 | 10 | 12.7 | 7.40 | 5.30 | 10.8 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 93.0 | 86.0 | 7.00 | 89.3 | 10 | 100. | 67.0 | 33.0 | 88.0 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 24.3 | 24.3 | 0.0 | 24.3 | 4 | 23.4 | 1.70 | 21.7 | 11.7 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 164. | 130. | 34.0 | 151. | 10 | 184. | 44.0 | 140. | 130. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 50.7 | 50.7 | 0.0 | 50.7 | 4 | 56.2 | 18.8 | 37.4 | 41.9 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.900 | 0.900 | 0.0 | 0.900 | 4 | 1.60 | 0.600 | 1.00 | 1.00 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.001L | 0.001L | 0.0 | 0.001 | 4 | 0.003 | 0.001 | 0.002 | 0.002 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.100 | 0.100 | 0.0 | 0.100 | 4 | 0.110 | 0.060 | 0.050 | 0.092 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 165. | 165. | 0.0 | 165. | 4 | 179. | 54.0 | 125. | 133. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.060 | 0.010L | 0.050 | 0.027 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 9.30 | 9.30 | 0.0 | 9.30 | 1 | 9.80 | 9.80 | 0.0 | 9.80 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 2.73 | 0.010L | 2.72 | 0.690 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.090 | 0.010L | 0.080 | 0.060 | 10 | 3.60 | 0.010L | 3.59 | 0.497 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.480 | 0.190 | 0.290 | 0.317 | 10 | 3.60 | 0.070 | 3.53 | 0.857 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 8.20 | 7.90 | 0.300 | 8.03 | 10 | 8.20 | 7.40 | 0.800 | 7.85 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.003 | 0.003 | 0.0 | 0.003 | 10 | 0.010 | 0.003L | 0.007 | 0.004 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 0.010 | 0.003 | 0.007 | 0.005 | 10 | 0.913 | 0.003 | 0.910 | 0.103 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 2.20 | 2.20 | 0.0 | 2.20 | 4 | 2.40 | 1.50 | 0.900 | 2.02 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 13.4 | 13.4 | 0.0 | 13.4 | 4 | 16.6 | 10.4 | 6.20 | 13.1 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 5.20 | 5.20 | 0.0 | 5.20 | 4 | 5.60 | 1.50 | 4.10 | 3.90 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 41.6 | 41.6 | 0.0 | 41.6 | 4 | 46.1 | 11.8 | 34.3 | 29.2 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 | 35.0 | 23.0 | 12.0 | 29.0 | 6 | 43.0 | 13.0 | 30.0 | 30.8 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002L | 0.002L | 0.0 | 0.002 | 4 | 0.001 | 0.001L | 0.0 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 7.00 | 4.00 | 3.00 | 5.33 | 9 | 51.0 | 2.00L | 49.0 | 12.4 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

TASK 131
STREAM WATER QUALITY

STATION: 8540 DEEP CREEK AT YOUNG ROAD

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 5.00 | 5.00 | 0.0 | 5.00 | 4 | 75.0 | 5.00 | 70.0 | 23.7 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 3.50 | 0.300 | 3.20 | 1.72 | 20 | 11.0 | 0.500 | 10.5 | 2.78 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TC SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 34.4 | 34.4 | 0.0 | 34.4 |
| DISS O2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 12.3 | 8.10 | 4.20 | 9.55 | 20 | 12.1 | 7.60 | 4.50 | 9.57 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 88.0 | 66.0 | 22.0 | 78.7 | 20 | 95.0 | 65.0 | 30.0 | 80.4 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 24.0 | 24.0 | 0.0 | 24.0 | 4 | 20.8 | 3.90 | 16.9 | 12.4 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 222. | 151. | 71.0 | 203. | 20 | 310. | 70.0 | 240. | 190. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 93.5 | 93.5 | 0.0 | 93.5 | 4 | 91.5 | 37.3 | 54.2 | 76.5 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 1.20 | 1.20 | 0.0 | 1.20 | 4 | 1.50 | 1.20 | 0.300 | 1.27 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.001L | 0.001L | 0.0 | 0.001 | 4 | 0.005 | C.C01L | 0.004 | 0.002 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.300 | 0.300 | 0.0 | 0.300 | 4 | 0.280 | 0.140 | 0.140 | 0.232 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 289. | 289. | 0.0 | 289. | 4 | 303. | 109. | 194. | 249. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.030 | 0.030 | 0.0 | 0.030 | 4 | 0.090 | 0.030 | 0.060 | 0.050 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 13.5 | 13.5 | 0.0 | 13.5 | 1 | 20.5 | 20.5 | 0.0 | 20.5 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.027 | 0.027 | 0.0 | 0.027 | 4 | 0.210 | 0.014 | 0.196 | 0.104 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.840 | 0.010L | 0.830 | 0.215 | 20 | 6.20 | 0.030 | 6.17 | 0.465 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 1.00 | 0.180 | 0.820 | 0.574 | 20 | 9.06 | 0.080 | 8.98 | 0.941 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 8.50 | 7.90 | 0.600 | 8.08 | 20 | 8.20 | 7.10 | 1.10 | 7.96 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.039 | 0.023 | 0.016 | 0.031 | 20 | 0.055 | C.C2C | 0.035 | 0.036 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.072 | 0.033 | 0.039 | 0.046 | 20 | 0.108 | 0.039 | 0.069 | 0.065 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 5.30 | 5.30 | 0.0 | 5.30 | 4 | 5.50 | 2.40 | 3.10 | 4.60 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 26.2 | 26.2 | 0.0 | 26.2 | 4 | 28.7 | 25.0 | 3.70 | 26.7 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 8.40 | 8.40 | 0.0 | 8.40 | 4 | 9.20 | 3.60 | 5.60 | 7.52 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 94.7 | 94.7 | 0.0 | 94.7 | 4 | 107. | 39.1 | 67.9 | 85.9 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 52.0 | 14.0 | 38.0 | 39.0 | 16 | 53.0 | 16.0 | 37.0 | 38.6 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002L | 0.002L | 0.0 | 0.002 | 4 | 0.001 | 0.001L | 0.0 | 0.001 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 11.0 | 2.00 | 9.00 | 6.50 | 19 | 39.0 | 2.00L | 37.0 | 12.7 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).

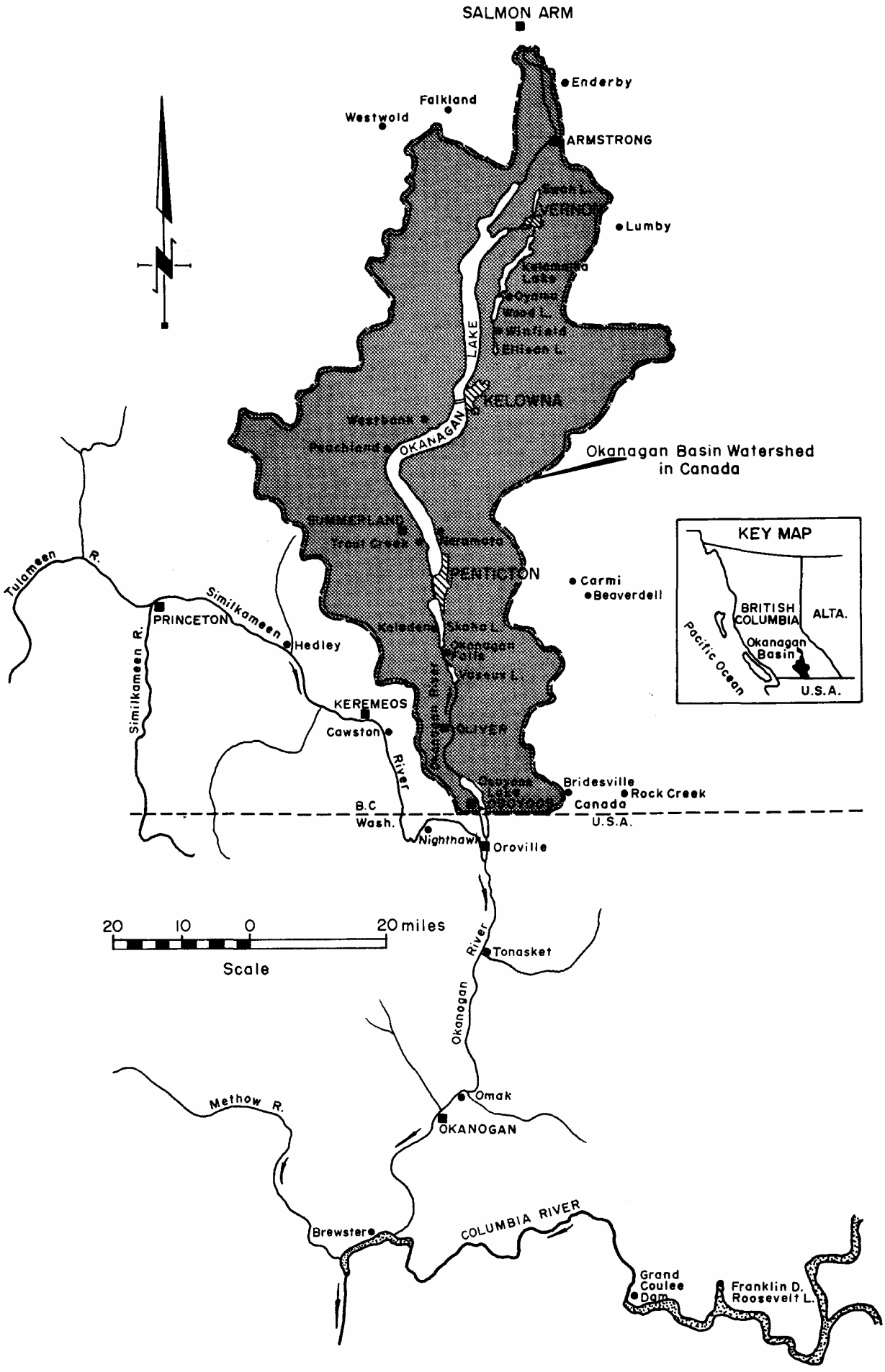
TASK 131
STREAM WATER QUALITY

STATION: B541 VERNON CREEK AT EXIT FROM KALAMALKA LAK

| | 1969 | | | | | 1970 | | | | | 1971 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN | NO. VAL | MAX CONC | MIN CONC | RANGE | MEAN |
| PHYSICAL PARAMETERS | | | | | | | | | | | | | | | |
| COLOUR | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBID | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 2.80 | 0.500 | 2.30 | 1.42 | 19 | 8.00 | 0.200 | 7.80 | 1.61 |
| FX SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TC SUS M | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 15.2 | 15.2 | 0.0 | 15.2 |
| DISS O2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 12.4 | 8.90 | 3.50 | 10.9 | 19 | 14.7 | 7.90 | 6.80 | 10.8 |
| D.O. SAT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 114. | 87.0 | 27.0 | 97.3 | 19 | 104. | 91.0 | 13.0 | 96.8 |
| TEMP | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 24.0 | 24.0 | 0.0 | 24.0 | 4 | 21.1 | 4.50 | 16.6 | 14.5 |
| INORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| ALK TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 231. | 127. | 104. | 156. | 19 | 159. | 133. | 26.0 | 146. |
| CALCIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 38.7 | 38.7 | 0.0 | 38.7 | 4 | 39.5 | 37.3 | 2.20 | 38.0 |
| CHLORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 1.20 | 1.20 | 0.0 | 1.20 | 4 | 1.50 | 1.30 | 0.200 | 1.42 |
| COPPER | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.001L | 0.001L | 0.0 | 0.001 | 4 | 0.003 | 0.001L | 0.002 | 0.002 |
| FLUORIDE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.300 | 0.300 | 0.0 | 0.300 | 4 | 0.290 | 0.280 | 0.010 | 0.285 |
| HARD TOT | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 166. | 166. | 0.0 | 166. | 4 | 167. | 165. | 2.00 | 166. |
| IRON | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.010 | 0.010L | 0.0 | 0.010 |
| LEAD | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.012L | 0.005L | 0.007 | 0.008 |
| MAGNES | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 16.9 | 16.9 | 0.0 | 16.9 | 1 | 17.8 | 17.8 | 0.0 | 17.8 |
| MANGAN | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.010L | 0.010L | 0.0 | 0.010 | 4 | 0.012L | 0.010L | 0.002 | 0.010 |
| NITRATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.040 | 0.010L | 0.030 | 0.020 | 19 | 0.040 | 0.010L | 0.030 | 0.021 |
| TOTAL N | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 1.28 | 0.090 | 1.19 | 0.432 | 19 | 0.550 | 0.010L | 0.540 | 0.233 |
| PH | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 8.60 | 8.20 | 0.400 | 8.43 | 19 | 8.50 | 7.90 | 0.600 | 8.32 |
| ORTHO P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.003 | 0.003L | 0.0 | 0.003 | 19 | 0.029 | 0.003L | 0.026 | 0.004 |
| TOTAL P | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 0.013 | 0.007 | 0.006 | 0.008 | 19 | 0.046 | 0.003 | 0.043 | 0.014 |
| POTASS | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 4.60 | 4.60 | 0.0 | 4.60 | 4 | 4.80 | 4.50 | 0.300 | 4.67 |
| SILICA | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 10.3 | 10.3 | 0.0 | 10.3 | 4 | 10.7 | 9.90 | 0.800 | 10.3 |
| SODIUM | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 15.7 | 15.7 | 0.0 | 15.7 | 4 | 16.5 | 6.40 | 10.1 | 13.9 |
| SULPHATE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 52.1 | 52.1 | 0.0 | 52.1 | 4 | 56.4 | 37.8 | 18.6 | 50.4 |
| TIC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 34.0 | 22.0 | 12.0 | 30.2 | 15 | 34.0 | 21.0 | 13.0 | 30.0 |
| ZINC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 0.002L | 0.002L | 0.0 | 0.002 | 4 | 0.004 | 0.001L | 0.003 | 0.002 |
| ORGANIC PARAMETERS | | | | | | | | | | | | | | | |
| TOC | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 8.00 | 2.00 | 6.00 | 5.00 | 18 | 15.0 | 2.00L | 13.0 | 6.17 |

NOTES: 1. AN L OR G AFTER A CONCENTRATION INDICATES THE RESULT IS LESS THAN (OR GREATER THAN) THE VALUE SHOWN.

2. ALL CONCENTRATIONS ARE IN MG/L EXCEPT FOR COLOUR, TURBIDITY AND PH (UNITS), DISSOLVED OXYGEN (PER CENT), AND TEMPERATURE (DEGREES CENTIGRADE).




OKANAGAN DRAINAGE BASIN IN CANADA =======