

OKANAGAN BASIN WATER BOARD

AGENDA

December 3, 1970, 2:00 p.m.

1. Minutes from meeting of November 5, 1970.

2. Accounts.

3. Report of Technical Committee

-cattle feedlots

-Pollution Control Permits WELL MONITORING

→ -study plan of Okanagan Basin Studies NEWSLETTER

-SOCIAL-ECONOMIC GROUP IN FIELD

(e) WASTE TREATMENT

4. Review back correspondence from meeting of November 5, 1970.

5. Correspondence:

(a) Thompson-Nicola Regional District and
Shuswap Thompson River Research and Development
Association.

-Request for public meeting in the Kamloops area.

(b) J. Colebrook-Re: Delay water licencing in the Okanagan
Basin Watershed

b' N. OK. NAT. CLUB - RE BEAUPART LICEVLE

(c) A.M. Thompson-Proposed seminar on Canada-British
Columbia Okanagan Basin Agreement

(d) Canada-British Columbia Consultative Board-Re:
Brandt's Creek

(e) B.E. Marr-letter to E.F. Lawrence concerning lignite
coal for sewage treatment

(f) H.K. Pratt, B.C. Hydro and Power Authority-Re:
Shuswap Falls Plant

(g) W. Pentland-Re: garbage dumps on Similkameen River

(h) City of Kelowna-Re: Weed problem on Mill Creek

(i) R.J. Miller, Agricultural Engineering Branch-Re:
definitions of non-traditional farming practices

(j) S.J. Hives, Pollution Control Branch-Exemption of
certain operations

6. Applications for Pollution Control Permits:

-King Graybarr Mines Ltd.

-Corporation of the Village of Osoyoos

7. Other Business

-King Graybarr Mines Ltd.

-Corporation of the Village of Osoyoos

7. Other Business

- SPRAY IRRIG. OF SEWAGE EFFLUENT

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD DECEMBER 3, 1970 at 2:00 p.m. IN THE COUNCIL CHAMBER,
CITY OF VERNON.

Present: W.C. Bennett Chairman
W.J.C. Kane R.D.C.O.
P. Duke R.D.N.O.
J. Patterson R.D.N.O.
S. Stodola R.D.O.S.

Also in Attendance:

The Hon. Mrs. P. Jordon	M.L.A. North Okanagan
Mayor Halina	City of Vernon
B.J. Sworder	Chairman, R.D.N.O.
D.S. MacKay	City Engineer, City of Vernon
J.M. Hamilton	Engineer, City of Penticton
Dr. M. Smart	Director, North Okanagan Health Unit
E.F. Lawrence	Director of Operations, City of Kelowna
B. Harvey	Chairman, Association of B.C. Irrigation Districts
Mr. Watts	Director, Regional District of Thompson-Nicola
Mr. J. MacLean	Village of Valleyview
Mr. K.E. MacKee	Secretary-Treasurer, Regional District of Columbia-Shuswap

Press and radio:

Penticton Herald, Vernon News, CJIB Radio

The Chairman introduced Mr. Watt, the Director of the Regional District of Thompson-Nicola; Mr. K.E. MacKee, Secretary-Treasurer, Regional District of Columbia-Shuswap; and Mr. John MacLean, from the Village of Valleyview. The above were attending the meeting as observers.

Minutes: Patterson - Kane:

That the minutes of the meeting of November 5, 1970 be adopted as circulated.

CARRIED

Accounts: The following accounts were presented for payment.

Regional District of Central Okanagan	
(Nov. 1-30)	\$216.02
Finley Printing Ltd.	32.93
Chalet Restaurant, Penticton	38.56
Secretary-Manager, expenses	
(Nov. 4-Dec. 3)	<u>59.15</u>
TOTAL	<u>\$346.66</u>

Duke - Kane:

That the above accounts be paid.

CARRIED

TOTAL \$346.66

Duke - Kane:

That the above accounts be paid.

CARRIED

REPORT OF THE TECHNICAL COMMITTEE:

The Secretary-Manager reviewed notes from the October 28th, 1970 meeting of the Technical Committee.

The Technical Committee had been informed of several projects which had been initiated under the Okanagan

Basin Study since the last meeting of the Technical Committee.

Cattle The Technical Committee had reviewed water quality
Feedlots: problems that could be expected from cattle feedlots as
 requested by the Water Board on September 3. An inventory
 of existing feedlots indicating the number of cattle and
 locations was prepared for the Technical Committee by
 Dr. Clapp of the Department of Agriculture. Such an inven-
 tory had been requested by Mr. B.E. Marr, co-chairman of
 the Canada-British Columbia Consultative Board.

The Technical Committee recommended that Pollution Control Permits be required for existing and future feedlots. The present status of the Pollution Control Branch concerning cattle feedlots should be made clear.

The Secretary-Manager informed that since the Technical Committee meeting he had received a letter from the Pollution Control Branch stating that positive discharges of wastes from cattle feedlot operations to streams is not considered to be in accordance with the traditional farming practice of utilization of wastes by application onto crop lands. Consequently such operations which involve positive discharges of wastes to streams from non-traditional farming operations as defined by the Dept. of Agriculture will require a permit under the Pollution Control Act. The Secretary-Manager asked the Board if they wished a copy of the inventory of cattle feedlots in the Okanagan to be sent to the Director of the Pollution Control Branch.

The Board agreed it was not necessary to forward an inventory to the Director, but simply to write a letter acknowledging Pollution Control Branch authority concerning cattle feedlots.

Kane - Duke:

That a letter be forwarded to the Director of Pollution Control acknowledging the Pollution Control Branch's authority concerning cattle feedlots and informing the Director of the Water Board's recent review of this problem.

CARRIED

Pollution The Technical Committee had reviewed the procedures
Control followed in granting Pollution Control permits and had
Permits: discussed the possible involvement of the Water Board in
 analyzing and studying the permits before they are granted.
 The Technical Committee felt there might be some overlap
 between the Technical Committee, of the Regional Districts
 and the Pollution Control Branch in reviewing these permits.

The Secretary-Manager asked the Board whether they wished the Regional Districts to examine their own applications for pollution control permits thoroughly or whether all permits should be passed onto the Technical Committee of the Water Board for examination. and the Pollution Control Branch in reviewing these permits.

The Secretary-Manager asked the Board whether they wished the Regional Districts to examine their own applications for pollution control permits thoroughly or whether all permits should be passed onto the Technical Committee of the Water Board for examination.

The Chairman suggested that the Pollution Control Permit applications be dealt with by the Regional Districts.

Mr. Hamilton said that there was not enough information available on the Applications for Pollution Control Permits for the Technical Committee review. The

permits should come to the Committee only for comment.

The Secretary-Manager reviewed the recommendations of the Technical Committee on the following applications for Pollution Control Permits which had been referred to the Committee:

1. Robo Syndicates Ltd., for disposal of carwash effluent onto ground.
2. Westmills Carpets for the disposal of carpet mill effluent into exfiltration basins.
3. Okanagan Builders Land Developments Ltd., for disposal of domestic sewage to a ground disposal system.
4. Henry Leonard Nikkel, for the discharge of laundramat effluent into ground.
5. Village of Osoyoos, for the discharge of sewage effluent in stablization lagoons and exfiltration basins.

Recommendations for Pollution Control Applications In summary the Technical Committee recommended that investigations be carried out either by the applicant or by the Pollution Control Branch to determine the quality of the water passing from local seepage ponds and drainage fields into the ground water table. The well monitoring system should be established near points of discharge into the ground. Adjacent creeks should also be monitored.

The Secretary-Manager informed that some well monitoring, in existing wells, had been done by the Joint Federal-Provincial Okanagan Basin Study, but information on the analysis was incomplete. The well monitoring programme has been discontinued recently. The Board should ask that it be continued.

The Secretary-Manager asked the Board if they wished him to forward recommendations of the Technical Committee to the Director of Pollution Control.

Mr. Stodola felt that this should be done.

The Chairman felt that it would not be necessary for the Water Board to forward any comments relative to applications for Pollution Control Permits if the Regional Districts were to do the same.

Mr. Lawrence said that at a previous meeting the Water Board had already gone through the trouble and process of referring Applications for Pollution Control Permits to the Technical Committee. The Water Board is in a position to express their opinion on these permits to the Pollution Branch. There should be a written input, when required, from the Water Board to the Pollution Control Branch.

Mr. Hamilton felt that the onus for well testing programmes should be on the applicant.

position to express their opinion on these permits to the Pollution Branch. There should be a written input, when required, from the Water Board to the Pollution Control Branch.

Mr. Hamilton felt that the onus for well testing programmes should be on the applicant.

Mr. Kane felt that monitoring wells should be placed near the points of discharge into the ground water table rather than rely on scattered wells throughout the area which have been monitored for the Okanagan Basin Study.

Kane - Stodola:

That the Board request the Pollution Control Branch to consider that wells and streams be monitored as a condition of Pollution Control Permits.

CARRIED

Mr. Kane remarked that there are no well monitoring programmes for existing permits.

Mayor Duke agreed that any recommendations from the Board should be brought to the appropriate authorities.

The Secretary-Manager said he wished to be clear on what the Board wished done with the applications for Pollution Control Permits that were reviewed.

Duke - Stodola:

That the recommendations of the Technical Committee of the Water Board be sent to the Pollution Control Branch.

CARRIED

Observation
Wells:

The Secretary-Manager showed the Board a book on ground water levels in observation wells in British Columbia. The information was received from the Dept. of Lands, Forests & Water Resources. The book contains information on water levels for various wells throughout the Okanagan Valley. The Secretary-Manager thought that some of the communities in the Valley may wish copies of the book. Several members indicated that they wished to have copies.

Study Plan
Okanagan
Basin
Study:

The Secretary-Manager presented a copy of the overall study plan for the entire Okanagan Basin Study. The schedule for approximately 100 tasks to be completed under the study was laid out diagrammatically. The study is scheduled to be completed in mid 1973. A booklet describing each task accompanys the schedule. Additional copies of the study plan would be received from the study Director and made available to members of the Technical Committee throughout the Valley. Mr. Kane noted that some of the studies had already been started and few have already been completed.

The Secretary-Manager asked the Board if they wished the study plan to be referred to the Technical Committee for comment.

Duke - Patterson:

That the study plan of the Okanagan Basin Study be referred to the Technical Committee.

CARRIED

The Secretary-Manager informed that the proposals for pilot studies on waste treatment throughout the Valley
That the study plan of the Okanagan Basin Study be referred to the Technical Committee.

CARRIED

The Secretary-Manager informed that the proposals for pilot studies on waste treatment throughout the Valley have been reviewed by the task force on waste treatment under the Okanagan Basin Study. These proposals have now been referred to a consortium of engineers for costing and feasibility. A decision should be available by the start of 1971.

Industrial
Forecast:

The Secretary-Manager informed that Mr. D.S. Smith, Head of Management and Productivity Centre, B.C. Research; and Mr. G.P. Sandve, Research Officer, Economics and Statistics Branch, Dept. of Industrial Development Trade and Commerce were in the Okanagan during the past week to gather information to assist in a growth forecast of secondary industry as required for the Okanagan Basin Study. They wished to make an inventory of the industries presently in the Valley. Various industries will be interviewed to see why they located in the Valley and how their operations are progressing. Local attitudes toward different types of industries will be assessed and future prospects for various types of industries will be analyzed. Civic officials, Chambers of Commerce and the industries will be interviewed for their comments on secondary industries in the Valley.

The agriculture, recreation, mining and forest industries will be studied by separate government departments in order to compile separate forecasts.

Newsletters:

The Secretary-Manager informed that the Director of the Okanagan Basin Study would be issuing newsletters from time to time to inform the press and other local people of the progress of the Okanagan Basin Study.

Unfinished Correspondence From Meeting of November 5, 1970:

The following unfinished items of correspondence from the meeting of November 5 were briefly reviewed by the Board.

Salmon Arm Meeting: 1. Regional District of Columbia-Shuswap - re: public meeting in Salmon Arm, November 6.

Request for Public Meeting - Kamloops: 2. Thompson-Nicola Regional District - request for public meeting in Kamloops.

The Secretary-Manager informed that he had forwarded these requests for public meetings to Mr. B.E. Marr, co-chairman of the Canada British Columbia Consultative Board.

Stodola - Duke:

That the Board work with Mr. Marr in arranging for such public meetings.

CARRIED

Association of B.C. Irrigation Districts - Observer: 3. The Association of B.C. Irrigation Districts - request for representation on the Water Board.

Mr. Harvey added that the association of B.C. Irrigation Districts would like to send a representative to Board meetings.

Association of B.C. Irrigation Districts - Observer: 3. The Association of B.C. Irrigation Districts - request for representation on the Water Board.

Mr. Harvey added that the association of B.C. Irrigation Districts would like to send a representative to Board meetings.

Kane - Stodola:

That the Association of B.C. Irrigation Districts be allowed to send an observer to the Water Board meetings.

CARRIED

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD
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K. Kiernan- 4. Hon. K. Kiernan - letter concerning the preservation
Re: of Kalamalka Lake.
Kalamalka
Lake:

E.H. Vernon: 5. E.H. Vernon, Chief Fisheries Management - letter
concerning Okanagan Lake fisheries.

O'Riordan 6. J. O'Riordan - letter concerning local involvement
Local and communication relative to the Okanagan Basin Study.

Involvement:

City of 7. City of Kelowna - letters requesting further
Kelowna: information regarding the Okanagan Basin Study and agree-
Study ment.

Information:

B.E. Marr- 8. B.E. Marr - letter replying to past correspondence
Cattle concerning cattle feedlots in the Okanagan. Mr. Marr had
Feedlots: requested that a list of the existing and anticipated feed-
lot operations in the Okanagan be prepared.

The Secretary-Manager informed the Board that
such a list had been prepared for the Technical Committee
by Dr. Clapp, of the Dept. of Agriculture.

The Board agreed to send this list to Mr. Marr.

Pollution 9. Pollution Control Branch - letter stating that
Control positive discharges of wastes from cattle feedlot operations
Branch- to streams is not considered to be in accordance with
Cattle traditional farming practices of waste utilization by
Feedlots: application to crop lands; and therefore such operations
will require permits under the Pollution Control Act 1967.

Okan-Similk/10. Okanagan Similkameen Parks Society, letter request-
Parks Soc. ing the support of the Water Board to have the Okanagan
Okanagan Mountain Area set aside as a Class "A" Park. A Committee
Mtn. Park: from the Parks Society could attend a future Water Board
meeting to explain their proposal more thoroughly.

Since the proposed park would border a long stretch
of Lakeshore property it was felt that this might come
within the terms of reference of the Water Board.

Mayor Duke questioned whether the mentioned park
was within the terms of reference of the Water Board.
He felt the matter should be referred to the Regional
Districts.

The Chairman informed that the Regional Districts
of Central Okanagan and Okanagan-Similkameen had been
approached by the Society. The Chairman felt that the
matter should be handled by the Regional Districts rather
than by the Water Board since it was primarily a land use
proposal.

Mr. Kane informed that the Parks Society has done
a good job in selecting areas for parks that are typical
of certain parts of the Valley.

The Board decided that the park would be left for consider-
ation by the Regional Districts.
proposal.

Mr. Kane informed that the Parks Society has done
a good job in selecting areas for parks that are typical
of certain parts of the Valley.

The Board decided that the park would be left for consider-
ation by the Regional Districts.

Mrs. G.B. 11. Mrs. George B. Lawrence-letter concerning mining
Lawrence- tailings at Ollala and the Hope Princeton Highway.
Mining

Tailings:

The Secretary-Manager had reviewed the water
licences and the Pollution Control Permits of the two
companies concerned and had made a field investigation
of the tailings areas.

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD DECEMBER 3, 1970.

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- R.D.N.O.- 12. Regional District of North Okanagan- letter
Future concerning water and sewage requirements of future
Subdivision subdivisions.
Requirements:
City of Vernon- 13. City of Vernon - letter concerning the Cities
Pollution Pollution Control Permit for sewage effluent.
Control Permit:
City of Kelowna 14. City of Kelowna,, letter concerning the submission
Adendum to of an adendum to the City's proposed pilot project on
Pilot waste treatment.
Project:
Pollution 15. Pollution Control Branch letter concerning the
Control processing of Pollution Control Permits.
Branch-
Permits

Current Correspondence:

- Request for 1. Thompson-Nicola Regional District and Shuswap
Public Thompson River Research and Development Association requests
Meeting- for a public meeting in the Kamloops area, either in the
Kamloops area/spring or early autumn of 1971.
- J. Colbrook- 2. J. Colbrook, Vernon, B.C. - letter requesting the
request to Okanagan Basin Water Board to delay the issuance of all
delay water further licences in the Okanagan Watershed until studies have
licencing: been completed for the area.

The Chairman suggested that a letter be sent to Mr. Colbrook stating that the Water Board had made the decision to allow the Water Rights Branch to continue issuing water licences in the Valley at their discretion after close consultation with the Water Board.

- N. Okan. 3. North Okanagan Naturalist Club - request that
Nat. Club- the Okanagan Basin Water Board withhold granting of any
request to further water licences until Okanagan Basin studies are
withhold completed.
licencing:

A reply to this letter would be similar to the reply to Mr. Colbrook.

- Seminar 4. A.M. Thomson, Director of Okanagan Basin Study-
Feb. 11-12/ letter outlining a proposed seminar February 11 & 12, 1971
1971: on the Canada British Columbia Okanagan Basin Agreement.
It will be a closed seminar. Personnel from the Okanagan
Basin Study and the Technical Committee to the Okanagan
Basin Water Board are invited to discuss the technical
aspects of the Study.

The letter asks for suggestions and names of other persons who should be invited to attend.

- Brandt's 5. Canada British Columbia Consultative Board -
Creek not letter stating that the Consultative Board has reconsidered
included the Brandt's Creek study proposal, and has reaffirmed earlier
in study: decisions not to include the study under the Okanagan
Basin Agreement.

- Lignite Coal/6. B.E. Marr - letter to the City of Kelowna concern-
Brandt's 5. Canada British Columbia Consultative Board -
Creek not letter stating that the Consultative Board has reconsidered
included the Brandt's Creek study proposal, and has reaffirmed earlier
in study: decisions not to include the study under the Okanagan
Basin Agreement.

- Lignite Coal/6. B.E. Marr - letter to the City of Kelowna concern-
for sewage ing the cities proposal to use lignite coal for the treat-
treatment: ment of sewage effluent. Mr. Marr indicated that this
proposal would definitely be considered as a possibility
for a study under the Okanagan Basin Agreement.

H.K. Pratt 7. H.K. Pratt, Chief Engineer, B.C. Hydro and Power
re:Shuswap Authority - letter stating that B.C. Hydro had no plans
Falls to decommission the Shuswap Falls Plant near Lumby in the
Plant: foreseeable future.

W.Pentland- 8. Letter from W. Pentland concerning garbage dumps
re:Garbage on the Similkameen River.

The Secretary-Manager informed that this letter
had been forwarded to the Water Board from the Regional
District of Okanagan Similkameen. A reply had been sent
stating that the Water Board would only concern itself
with matters related to water quantity and quality management.
He mentioned garbage dumps are considered to be outside
the terms of reference of the Board.

Subsequently, however, the Regional District
answered with another letter that the garbage dumps were
in close proximity to the Similkameen River and a pollution
problem could result during high water.

The Chairman suggested that this matter be referred
back to the Regional District of Okanagan Similkameen to
be placed in a form of a motion for reference to the Water
Board.

City of 9. City of Kelowna - letters referring to the weed
Kelowna- problem developing on Mill Creek. Mr. Kane said that it
Mill Cr. was difficult to determine exactly where the problem on
weeds: Mill Creek originates. Control of the weed problem can
only be achieved by action along the entire Watershed of
the creek.

The Secretary-Manager informed that Mill Creek
along with many of the other streams in the Okanagan was
being monitored under the Okanagan Basin Study.

Mr. Kane asked that a copy of any reports on creek
monitoring be made available. Mr. Kane said the whole creek
watershed must be studied to determine the sources of
nutrient addition.

Non- 10. R.J. Miller, Agricultural Engineering Branch -
traditional letter concerning definitions of non-traditional farming
farming practices.

Pollution 11. S.J. Hives, Pollution Control Branch - letter
Control Br. concerning the exemption of certain operations from
exemption pollution control regulations.
of certain
operations:

Applications for Pollution Control Permits:

The Board was informed of the following applications
for pollution control permits:

King 1. King Graybarr Mines Ltd. application to discharge
Graybarr an average of 40,000 imperial gals a day of mine tailings

Applications for Pollution Control Permits:

The Board was informed of the following applications
for pollution control permits:

King 1. King Graybarr Mines Ltd. application to discharge
Graybarr an average of 40,000 imperial gals a day of mine tailings
Mines Ltd: into a closed/circuit pond near Vernon. The Board referred
this application to the Technical Committee.

Village 2. Corporation of the Village of Osoyoos for the
of discharge of the municipal sewage effluent into a
Osoyoos: stablization lagoon and exfiltration basins.

required.

Other Business:

Next
Meeting:

The Chairman informed that the next meeting of the Water Board was scheduled for shortly after the new year. He asked the Board whether this would be a conflict.

The Board suggested that the Chairman use his discretion in setting the date for the next meeting.

Stodola - Kane:

That the next Board meeting be left to the call of the Chair.

CARRIED

Correspondence

Copies:

The Chairman asked whether the Board wished to receive copies of correspondence prior to meetings.

The Board agreed that this would not be required.

Seminar

Feb. 11-
12, 1971:

Mr. Kane in referring to the proposed seminar of February 11 - 12, 1971 on the Canada British Columbia Okanagan Basin Agreement noted that the seminar would be a closed seminar. Mr. Kane felt that the seminar should be open to the public. There were many local residents in the Valley besides the Technical Committee having technical knowledge and interest in the study who would like to attend.

The Secretary-Manager informed that the Study Director had made provision for other technical people to be invited if the Water Board had any suggestions as to who else should be invited to the seminar.

Mr. Stodola said that if there was to be public involvement in the Okanagan Basin Study the seminar would be a good opportunity for local citizens to attend.

The Secretary-Manager suggested that the Study Director be approached to schedule a few hours in the seminar to be open for public participation.

Kane - Stodola:

That the Study Director be requested to set aside a portion of the seminar on the Canada British Columbia Okanagan Basin Agreement for public participation.

CARRIED

The Chairman thanked Mayor Halina for having the City of Vernon host the meeting of the Board in the City Council Chambers.

The Chairman extended his wishes for a Merry Christmas.

CARRIED

The Chairman thanked Mayor Halina for having the City of Vernon host the meeting of the Board in the City Council Chambers.

The Chairman extended his wishes for a Merry Christmas.

The meeting adjourned at 3:30 p.m.

File 12

AGENDA

- General:

X - LEASE SIGN STUART, PARCER 11/1/71

OKANAGAN BASIN WATER BOARD

A G E N D A

0 WILL VERNON VOTE? January 29, 1970, 2:00 p.m.

1. Election of Officers for the year 1970:
 - (a) Chairman SEC 8 OF 10 - 1
 - (b) Deputy Chairman (SPARK 8E FF FL 10001)
2. Adoption of the Minutes of the meeting of December 4, 1969.
3. Appointments:
 - (a) Appointment of signing officers
 - (b) Change Bank from Penticton to Kelowna
4. Reports:
 - (a) Financial Statement year ended December 31, 1969.
5. Correspondence:
 - (a) Village of Oliver - Request that Oliver be site for pilot study on land disposal
 - (b) Village of Osoyoos - Request that study of sewage lagoon disposal be undertaken by Water Board.
 - (c) Minister of Lands, Forests & Water Resources re Brandt's Creek Study
 - (d) Regional District of Central Okanagan - Recommendation regarding submissions to Okanagan Basin Water Board.
 - (e) Regional District of Central Okanagan - Re Technical Committee. (1 COPY TO SEC-DEK FOR INCLUSION IN AGENDA (2) CAN RES DIST. TURN DOWN SEC REPORT RE (1) TERMS OF REF
 - (f) Pollution Control Branch - Approval for District Engineer to serve on Technical Committee.
 - (g) North Okanagan Union Board of Health - Approval for Dr. Smart to serve on Technical Committee.
 - ✓ (h) Letter to R.D.O.S. & R.D.C.O. requesting partial payment of 1970 levy. REPLY
 - ➔ (i) Regional District of Central Okanagan - Appointment of representatives for 1970.
 - ✓ (j) Village of Oliver - Appointment of representative to Board.
 - (k) O.K.S. Wildlife Association - Request to be represented on Technical Committee.
 - (l) Canadian Imperial Bank of Commerce (Kelowna) - Request to handle Water Board account.
 - ✓ (m) Bank of Montreal (Kelowna) - Request to handle Water Board account.
6. General:
 - (a) Possibility of pulp mill in North Okanagan.
 - (b) Approval of Lease Agreement between Okanagan Basin Water Board and Regional District of Central Okanagan. - SUPPLIES - FILING CABINET - BOOK SHELVES - POSTAGE

OTHER LETTERS →

7. BUSINESS: V.C.M.

2. NEW MEETING?

C COUNCIL - 100

- BOOK SHELVES
- POSTAGE

7. BUSINESS: V.C.M.

2. NEW MEETING?

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JANUARY 29, 1970 IN THE OFFICES OF THE
REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 Groves
Avenue, KELOWNA, B.C.

Present: Chairman F.D. Stuart, R.D.O.S. S. Stodola, R.D.O.S.
W.C. Bennett, R.D.C.O. D. Pritchard, R.D.C.O.
L. Bowtree, R.D.N.O. P. Duke, R.D.N.O.

Also in Attendance:

A.C. Affleck, R.D.O.S. alternate; W.J.C. Kane, R.D.C.O.
alternate

J. Patterson, R.D.N.O. alternate

ALDerman J. Coe, City of Penticton; P. Farmer, Chair-
man R.D.O.S.;

E.F. Lawrence, City of Kelowna;

E.W. Aldredge, CKOV radio;

F. Lilquist, Kelowna Courier;

M. Rothenberger, Vernon News

Election of Officers:

Appointees
to Water
Board:

The Chairman requested the Secretary-Manager to read letters from the Regional Districts of Central Okanagan and the Regional District of North Okanagan stating their respective appointees to serve on the Okanagan Basin Water Board. W.C. Bennett and D. Pritchard will represent the Regional District of Central Okanagan; W. Kane being the alternate. L. Bowtree and Mayor P. Duke will represent the Regional District of North Okanagan; J. Patterson being the alternate. Mr. P. Farmer stated Mayor F.D. Stuart and S. Stodola would represent the Regional District of Okanagan Similkameen; A.C. Affleck being the alternate.

Regional Dis-
trict of
North Okana-
gan Applica-
tion:

Mr. Bowtree mentioned that an error had been made whereby Lumby was excluded from the Regional District of North Okanagan's request to participate in the Okanagan Basin Water Board. He also mentioned that a five-year opting-out clause in the Regional Board's resolution was not allowed by the Municipal Affairs office.

The Chairman replied that the five-year opting-out clause could be removed from the request.

Mayor Duke said he would forward the appropriate amendments to Mr. J.D. Baird, Deputy Minister of Municipal Affairs.

Regional Dis-
trict of
North Okana-
gan allowed
to vote:

The Chairman went on to say that technically speaking the Regional District of North Okanagan presently is not officially a member of the Okanagan Basin Water Board. However, as far as the Board was concerned it was a member and should be allowed to vote at this meeting.

Pritchard - Bennett:

That the Regional District of North Okanagan be allowed to vote.

CARRIED

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JANUARY 29, 1970

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Nominations for Chairman: The Chairman then turned the meeting over to W. Parchomchuk, the newly appointed Secretary-Manager of the Okanagan Basin Water Board, who then received nominations for Chairman for the ensuing year.

Mr. W.C. Bennett and Mayor F.D. Stuart were nominated for Chairman.

Mayor Stuart suggested that the chairmanship should be rotated between the three Regional Districts to make the Okanagan Basin Water Board a more cohesive unit; and upon this basis he declined his nomination. The Board was in agreement with the above principle.

Stuart - Bowtree:
That nominations cease.

CARRIED

W.C. Bennett Chairman: Mr. W.C. Bennett became the new Chairman, and extended a vote of thanks to Mayor Stuart for his tremendous contribution to the Board in organization and continued service during his term as Chairman.

F.D. Stuart Deputy Chairman: The Chairman received nominations for Deputy Chairman. Mayor Stuart was nominated, and became Deputy Chairman.

Minutes:

Stodola - Pritchard:
That the minutes of the meeting of December 4, 1969 be adopted as circulated.

CARRIED

Minutes: Business Arising from Minutes:

Mr. Pritchard referred to a published interview with Professor P.H. Jones of the University of Toronto in which the problem of eutrophication and detergents was defined, and solutions offered.

Mayor Stuart informed that the detergents Basic H, L and D now contain only small amounts of phosphate. By March 1970 a completely phosphate free soap should be available. Mayor Stuart indicated that all municipalities and most women in the Valley are in favor of banning detergents; but this action would have to be taken through the Municipal Act.

Signing Officers and Bank:

The Board discussed the appointment of signing officers.

Signing Officers: Bowtree - Pritchard:
That the Secretary-Manager, Chairman and Deputy Chairman be signing officers. Only signatures of the former and any one of the latter two would be required.

CARRIED

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JANUARY 29, 1970. 3

Mayor Stuart suggested that the Bank of Montreal continue to handle the Board's account when moved to Kelowna since this bank had given excellent service in Penticton.

Bank of Montreal re-account: Bowtree - Stodola:
That the Board establish an account with the Bank of Montreal in Kelowna.

CARRIED

Financial: Financial Statements:

The Secretary-Manager circulated copies of financial statements of the Okanagan Basin Water Board for the year ended December 31, 1969.

Stuart - Pritchard:
That the financial statements be received.

CARRIED

The Chairman suggested that a honorarium for one hundred dollars (\$100) be given to the former Secretary of the Board, Mr. C.J. Sewell, for his excellent work.

Honorarium-C.J. Sewell: Bowtree - Pritchard:
That Mr. Sewell be given an honorarium of one hundred dollars (\$100), and that a letter of appreciation be sent to him.

CARRIED

Correspondence:

The Secretary-Manager read the following letters:

- Pilot Studies: 1. Letter from the Village of Oliver requesting that Oliver be the site for a pilot study on land disposal of treated sewage effluent.
2. Letter from the Village of Osoyoos requesting that Osoyoos be the site for a study on sewage disposal from a lagoon onto agricultural land.

Stodola - Stuart:
That the above letters 1 and 2 be referred to the Technical Committee.

CARRIED

Brandt's Creek: 3. Letter from the Honorable Ray Williston, Minister of Lands, Forests, and Water Resources; stating that he could not assign priorities to the Brandt's Creek Study before the study administration under the Federal-Provincial Agreement has been set up and has had an opportunity to assess the overall problem.

Submissions to the Water Board: 4. Letter from the Regional District of Central Okanagan recommending that all submissions to the Water Board from local areas should be made through their respective Regional District offices.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
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Although some members were in agreement with the above procedure, Mayor Stuart informed that this may unnecessarily complicate and impede the lines of Communication with public agencies; and that the identity of the Water Board might be obscured.

Mr. Stodola questioned whether a Regional District office could reject submissions before they reached the Water Board. Mr. Bennett stated that all submissions would eventually reach the Water Board, but would be channelled through a Regional office first.

Mayor Stuart and Mr. Kane suggested that copies of submissions made to the Water Board be forwarded to Regional offices as well.

Stuart - Stodola:

That copies of submissions made to the Water Board be referred to the Regional office concerned, and to all members of the Okanagan Basin Water Board.

CARRIED

Composition
of Technical
Committee:

5. Letter from the Regional District of Central Okanagan requesting that the composition of the Technical Committee be reviewed.

Mr. Farmer suggested that there should be a representative on the Committee from each science field who could in turn refer to experts.

Mayor Stuart, referring to representatives on the Technical Committee, suggested this would be the nucleus of a group which would draw professional people from outside sources to meetings where a particular topic in their field of knowledge is to be discussed.

Mr. Bennett suggested that Mrs. M. Gilchrist of the Regional District of North Okanagan be appointed Chairman of the Technical Committee, since she had been of valuable service to the Board in the past.

Mr. Bowtree suggested that the Chairman should be someone with Technical knowledge in several fields who could call on various professions for advice, and interpret and relay technical information to the Board.

When asked to comment, Mr. E.F. Lawrence, City Engineer, City of Kelowna, suggested that since the committee's function was only to deal with Technical problems a formal organization following parliamentary procedures was not necessary; and therefore the position of Chairman was not essential. Only a coordinator to relay recommendations of the Technical Committee to the Board would be required.

Chairman
Technical
Committee:

Stodola - Bowtree:

That the Secretary-Manager of the Board be Chairman of the Technical Committee.

CARRIED

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
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Mayor Stuart suggested that the Technical Committee be adequately represented with engineers, since engineering problems will be of major importance.

Discussion of appointments to the Technical Committee followed.

Technical
Committee
Members:

Stuart - Fritchard:

That the Technical Committee include the following:

- Dr. D.A. Clarke, Director, South Okanagan Health Unit
- Dr. H. Smart, Director, North Okanagan Health Unit
- Mr. D.A. Murn, Regional Supervisor, Fish and Wildlife Branch, Department of Recreation and Conservation
- Mr. J.M. Hamilton, City Engineer, City of Penticton
- Mr. E.F. Lawrence, City Engineer, City of Kelowna
- Mr. D.S. MacKay, City Engineer, City of Vernon
- Mr. W.A. Kastelen, District Engineer, Pollution Control Branch, Department of Lands, Forests, and Water Resources
- Mr. E.D. Anthony, District Engineer, Water Rights Branch, Water Resources Service, Department of Lands, Forests and Water Resources.
- One planner to represent the Regional Districts
- One representative from the Association of B.C. Irrigation Districts.

CARRIED

The Secretary-Manager was requested to write to the Regional Planners asking them to appoint a representative to the Technical Committee.

Dr. J.F.
Bowen and Dr.
D. MacGregor
Advisors:

Stuart - Stodola:

That Dr. J.F. Bowen, and Dr. D. MacGregor of the Canada Department of Agriculture be asked to act as Technical Advisors to the Water Board.

CARRIED

Other professional people who could be of assistance to the Water Board will be asked to be technical advisors.

Approval to
serve on
Technical
Committee:

6. Letter from W.A. Kastelen confirming his authorization to serve on the Technical Committee.
7. Letter from M.R. Smart indicating approval by the North Okanagan Union Board of Health of his position on the Technical Committee.

Payment of
levy:

8. Letter to the Regional Districts of Okanagan-Similkameen and Central Okanagan requesting partial payment of 1970 levy.

Both Districts have submitted partial payments of \$1,500 each.

Observer to
Board-Oliver:

9. Letter from the Village of Oliver appointing Mrs. Monica I. Hoover as observer to the Okanagan Basin Water Board.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
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- O.K.S. Wild- 10. Letter from the O.K.S. Wildlife Association
life Associa- requesting representation on the Technical
tion: Committee.
- Bank request: 11. Letter from the Canadian Imperial Bank of
Commerce (Kelowna) requesting to handle the
Water Board account.
12. Letter from the Bank of Montreal (Kelowna)
requesting to handle the Water Board account.
- E.F. Lawrence 13. Letter from the City of Kelowna appointing Mr.
Kelowna Repre- E.F. Lawrence, P.Eng., as representative on
sentative and the Technical Committee and observer to the
observer: Okanagan Basin Water Board.
- Canada Water Alderman Coe who is Vice-President of the Canada
Resources Water Resources Association informed that the
Association, Association is having a one day meeting including
re; meeting: lectures at Penticton on July 17th, 1970. Sugges-
tions from the Water Board as to lecture topics
at this meeting would be received by Mr. Coe.

General:

- Pulp Mill The Secretary-Manager read a letter from the City
Crown Zeller- of Penticton to the Honorable R.G. Williston
back Co.: protesting the continuation of plans by Crown
Zellerback Co. of Canada to locate a pulp mill
somewhere in the North Okanagan.

Mayor Duke informed that additions to the pulp
mill in Kamloops would help to eliminate some of
the wood wastes in the North Okanagan.

Mr. Dowtree mentioned that although he normally
does not speak favorably of pulp mills he suggested
that a pulp mill in the North Okanagan could be
tolerated if high standards for pollution control
were enforced before the mill is operational.
He felt that the major municipalities of the
Okanagan could contribute more to pollution than
a pulp mill. If air pollution is abated, pulp
mills are a fairly clean industry. The Technical
Committee could suggest required standards to
eliminate air and water pollution should a pulp
mill be established. Mr. Dowtree suggested that
burning of wood waste in the North Okanagan could
be reduced by increased pulp mill consumption.

Mayor Stuart stated that a pulp mill with even
much higher standards than the Kamloops mill could
not be tolerated in the Okanagan since effluent
would eventually be deposited either in Okanagan
Lake or Shuswap Lake rather than in a fast flowing
river.

- Office The Chairman suggested that a clause stating that
Lease: the Regional District of Central Okanagan provide
up to \$25.00 worth of supplies monthly to the
Water Board be eliminated from the Lease Agree-
ment between the Water Board and the Regional
District. The Water Board agreed with this
suggestion.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD HELD JANUARY 29, 1970. 7

Accident
Policy for
Secretary-
Manager:

The Chairman informed that a \$50,000 accident policy for the Secretary-Manager of the Water Board was available through the Regional District of Central Okanagan office for \$12.00 per annum.

Pritchard - Stodola:
That the Secretary-Manager be covered with the above accident policy.

CARRIED

Members of
Joint-Study
Group named:

Mayor Stuart referred to a letter from Mr. V. Raudsepp, Deputy Minister of Water Resources, giving the names of Federal and Provincial members who will carry out studies under the Okanagan Basin Agreement.

Bowtree - Duke:
That the names of members carrying out studies under the Okanagan Basin Agreement be released to all members of the Water Board.

CARRIED

W.J.C. Kane
Kelowna
Observer:

Mayor Stuart referred to a letter from the City of Kelowna appointing W.J.C. Kane as observer to the Water Board, and R. Stewart as his alternate.

The Secretary-Manager was asked to reply to a letter from Timothy O'Riordan of Simon Fraser University requesting information on the present status of the Okanagan Basin Water Board.

Non-return-
able bottles:

Mr. Bowtree drew attention to the pollution threat of non-returnable bottles, and suggested that the Technical Committee investigate this matter further.

Bowtree - Duke:
That the Technical Committee study ways to avert pollution by non-returnable bottles.

CARRIED

Meeting to
be held in
smaller
centres:

The Chairman suggested that occasional Water Board meetings be held in some of the smaller centres of the Okanagan.

Mr. Farmer suggested that every third meeting be held in an outlying area. The Board was in agreement with this suggestion.

Lumby meeting
May:

Mayor Duke invited the Water Board to hold a meeting in Lumby in May. An Aeroplane tour of the Sugar Lake Basin would be arranged.

Letter to
Williston to
L.F. Greene:

Mayor Stuart referred to a letter to Mr. L.F. Greene, Assistant Manager, The Vernon and District Chamber of Commerce, outlining the position and responsibilities of the Okanagan Basin Water Board.

Hurn
Report:

Mr. Pritchard referred to a report from Mr. B.A. Hurn advocating the development of fish spawning

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JANUARY 26, 1970. 8

areas on Mission Creek. Mr. Fritchard suggested that the Technical Committee look into other alternatives as well.

Next meeting: The next meeting will be held at 2:00 p.m. Thursday, February 12, 1970, in the offices of the Regional District of Central Okanagan, 540 Groves Avenue, Kelowna, B.C.

Adjournment: The meeting adjourned at 5:00 p.m.

Certified Correct

Approved

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD FEBRUARY 12, 1970 AT 2:00 p.m. IN THE
OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN,
540 GROVES AVENUE, KELOWNA, B.C.

Present: F.D. Stuart, R.D.O.S. S. Stodola, R.D.O.S.
(Chairman) W.C. Bennett, R.D.C.O. D. Pritchard, R.D.C.O.
L. Bawtree, R.D.N.O. P. Duke, R.D.N.O.

Also in Attendance:

A.C. Affleck, R.D.O.S. (alternate) J. Patterson,
R.D.N.O. (alternate)

V.G. Borch, City of Kelowna
P. Farmer, Chairman R.D.O.S

Press and Radio:

Kelowna Courier, Penticton Herald, Vernon News,
CKOV radio

Minutes: A minor correction was made to the minutes of January
29, 1970.

Pritchard - Duke:

That the minutes of the meeting of January 29, 1970
be adopted as corrected.

CARRIED

Office Business:

Distribution of Minutes: Certain deletions and additions were made to the
minute distribution list. City and Regional District
offices will receive only one copy for reference
and duplication if necessary.

Index to Files: The Secretary-Manager presented a subject filing
index to the complete records and technical infor-
mation accumulated by the Board.

The need for additional office furnishings was
presented to the Board.

Pritchard - Stodola:

Filing Cab- That a filing cabinet and chair be purchased for the
inet & Okanagan Basin Water Board office.
Chair:

CARRIED

Letterhead Design: The Secretary-Manager presented a letterhead design
for approval by the Board.

Bawtree - Stodola:

That the proposed letterhead design be accepted
and printed in one color.

CARRIED

Sec-Mgr. To Meet Okanag- A suggestion that the Secretary-Manager should
an Study arrange to personally meet members of the Okanagan
Committee: Study Committee in Victoria, received favorable
comment.

Pritchard - Duke:

That the Secretary-Manager visit Victoria and meet
with various government personnel administering the
Canada-British Columbia Okanagan Basin Agreement.

CARRIED

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD FEBRUARY 12, 1970, 2

M.S.A. The Secretary-Manager requested that the Board
Coverage: equally share the expense of employee medical cover-
age under the Medical Services Association.

Bawtree - Stodola:
That the Board share the expense of medical coverage
for the Secretary-Manager.

CARRIED

Correspondence:

The Secretary-Manager read the following letters:

Correspon- 1. Letter from the District of Peachland appointing
dence: Mr. Ivor Jackson as observer to Water Board.
2. Letter from the British Columbia Environmental
Council outlining the objects of the Council,
and requesting the Water Board to apply for
membership in the Council.

The Water Board, although highly in favor of the
objects of various anti-pollution groups, felt that
it was not in the best interests of the Board to
join such groups.

3. Letter from the Association of B.C. Irrigation
Districts appointing Mr. Brian Harvey as repre-
sentative to the Technical Committee.
4. Letter from Drs. J. Bowan and D.R. MacGregor of
the Canada Department of Agriculture Research
Station, Summerland, consenting to act as
technical advisors when required.
5. Letter from Mr. C.J. Sewell, past Secretary to
the Water Board, thanking the Board for the
Honorarium granted him at the last meeting.
6. Letter from the City of Penticton indicating the
City's intention to present a brief supporting
the consideration of the Penticton Water Quality
Control Centre as a site for research work on
chemical tertiary treatment. The brief itself
will be presented to the Water Board at its
next meeting.

General:

Okanagan General discussion opened with comments on the
Water Quality Monitoring Program 1968
conducted by Professor T.L. Coulthard and Associate
Program 1968: Professor J.R. Stein. In referring to the above
report, Mayor Stuart noted a wide discrepancy between
the City Engineer's figures and those reported on
page 48, table 4, of the report with regard to the
average amount of phosphate entering the Okanagan
River from the Penticton outfall. Engineers' samples
indicate a daily phosphate input of only about 280
lbs., while the Coulthard - Stein report indicates
an input of 906 lbs. daily. It is surmised that the
higher figure resulted from river samples taken
close to the outfall before adequate dilution
occurred. Professor Coulthard has been advised of
the above error.

Commenting further on the conclusions of the report, Mr. Pritchard suggested that a serious situation exists in the lakes. Mayor Stuart added that the main problem is still nutrient enrichment. He went on to say that the City of Penticton anticipates completion of tertiary treatment facilities by June 1970 for the removal of phosphates from sewage effluent. Lime will be used as a coagulant in treating effluent.

Other Business:

Legislation to Ban Phosphate-Based Detergents: Mr. Affleck informed that the City of Terrace has passed a By-law prohibiting the use of phosphate-based detergents.

Mr. Pritchard questioned recent statements by the Federal Government that phosphate-based detergents could not be banned without provincial support.

Mayor Stuart said that banning of phosphate detergents was in the public interest. If the government cannot react to public demands it is not fulfilling its role. He suggested that the government should introduce legislation on phosphates soon, and let manufacturers challenge such legislation if it is unconstitutional.

Mr. Bawtree informed that federal legislation banning phosphate-based detergents may not be constitutional, and therefore support of provincial governments would be required.

Attention was drawn to recent statements made by the Honorable R.G. Williston, Minister of Lands Forests and Water Resources, indicating that he was prepared to have legislation passed banning phosphate-based detergents as soon as the Federal Government drafts the appropriate act.

Stuart - Pritchard:
That a letter be forwarded to the Honorable R.G. Williston supporting his proposals on legislation banning detergents containing phosphates.

CARRIED

Upon referring to the Municipal Act Mayor Stuart informed that municipal councils could pass By-laws to prevent public nuisance. If phosphate-based detergents could be termed a public nuisance this would be sufficient support to draft a By-law forbidding the use of such detergents. The By-law would have to be approved by all municipalities within a regional district. Mayor Stuart felt confident that most housewives and the general public would support action to ban detergents containing phosphates.

Mr. Farmer expressed confidence that science would develop a phosphate-free detergent once laws are passed forbidding the use of present detergents. Mr. Affleck suggested that a suitable By-law be drafted for approval by all three regional districts. The Chairman advised the Board to wait for the results of a provincial proposal to ban phosphate-

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD FEBRUARY 12, 1970

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based detergents. This proposal is expected to come before the legislature in March 1970.

The City of Penticton has written to the City of Terrace requesting a copy of that city's By-law forbidding the use of phosphate-based detergents. The City of Penticton will investigate the By-law to see if it is enforceable.

Mr. Pritchard noted that realtors in the Okanagan Valley are also campaigning for a reduction in the use of detergents.

Bottle Pollution: The Chairman introduced the topic of bottle pollution by informing that Mr. P. Lavallo of the Glass Container Council of Canada wished to address the Water Board at a future meeting.

Rather than banning glass containers Mr. Bawtree suggested that ways to reduce littering be researched.

Pulpmill: A discussion on pulp mills followed after the Chairman's inquiries into the effect of pulp mill gases on fruit crops. It was suggested that the Technical Committee study the effects that pulp mills and other industries would have on the Okanagan.

Mr. Pritchard noted that the Water Board has not taken a stand on the pulp mill controversy. The Chairman replied that the matter will be firmly dealt with at a combined meeting of the three regional districts of the Okanagan.

Pollution Standards: Mr. Bawtree suggested that adequate pollution regulations be established in the Okanagan to give industries an indication of standards they will be required to attain. Air and water standards would be suggested by the Water Board for incorporation into regional zoning By-laws. Standards already established for the entire province could be adopted for the Okanagan. A review of the criteria used in establishing standards was suggested by the Board.

Mayor Duke questioned whether or not regional districts have any control over the location of pulp mills. Mr. Farmer answered that control over industrial location was normally attained through zoning regulations if they could be passed in time.

Next Meeting: The next meeting will be held at 2:00 p.m. Thursday March 5, 1970, in the offices of the Regional District of Central Okanagan, 540 Groves Avenue, Kelowna, B.C.

The meeting adjourned at 3:45 p.m.

Certified Correct

Approved

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NOTES FROM THE MEETING OF THE TECHNICAL COMMITTEE TO
THE OKANAGAN BASIN WATER BOARD HELD WEDNESDAY FEBRUARY
25, 1970 at 2:00 p.m.

Present: E.D. Anthony, District Engineer Water Rights Branch
Water Resources Service, Department of
Lands Forests and Water Resources.
Dr. D.A. Clarke, Director, South Okanagan Health Unit
J.M. Hamilton, City Engineer, City of Penticton
W.G. Hardcastle, Planning Director, Regional District
of Central Okanagan
B. Harvey, Chairman of the Association of B.C. Irriga-
tion Districts
D.A. Hurn, Regional Supervisor, Fish and Wildlife
Branch, Department of Recreation and
Conservation.
W.A. Kastelen, District Engineer, Pollution Control
Branch, Department of Lands Forests
and Water Resources
E.F. Lawrence, City Engineer, City of Kelowna
D.S. MacKay, City Engineer, City of Vernon
W. Parchomchuk (Chairman) Secretary-Manager of the
Okanagan Basin Water Board
Dr. M. Smart, Director, North Okanagan Health Unit

Other:

F.C. Slee, P. Eng. Interior Engineering Services Ltd.

The Chairman welcomed the members of the Technical Committee, and expressed the appreciation of the Okanagan Basin Water Board for the assistance offered by the Technical Committee.

Notes from the meeting of December 2, 1969 were approved.

Organization and Function of Technical Committee

Discussion indicated that the prime function of the Technical Committee will be to investigate and analyze various technical problems as they arise and to advise the Water Board in this respect.

It was suggested that the Technical Committee would not only respond to matters referred to them by the Water Board, but that certain proposals of technical importance would originate from the Technical Committee as well.

A separate study approach will be applied to individual problems as they arise. It is expected that a sub-committee structure will be required to study certain problems in greater depth. Small sub-committees could be comprised of one or two members of the present technical group and other local experts knowledgeable in a particular field of science.

It was pointed out that since the Chairman was study certain problems in greater depth. Small sub-committees could be comprised of one or two members of the present technical group and other local experts knowledgeable in a particular field of science.

It was pointed out that since the Chairman was also Secretary-Manager of the Okanagan Basin Water Board, this dual function could be difficult, since he could be responsible for the decisions of the Technical Committee. He would be required to support the views of both groups. However, the need for a permanent trained Secretary for the Technical Committee was recognized and a decision to maintain the present

The Committee decided to hold regular meetings on the third Wednesday of each month at 2:00 p.m.

Coordination With Okanagan Study Committee

The Chairman informed that arrangements were being made for him to meet with members of the Okanagan Study Committee in Victoria. The names of officials appointed to the Canada-British Columbia Consultative Board and the Okanagan Study Committee were announced. The Chairman informed that Co-Chairmen have been appointed to the above committees, and names would be announced in a news release from the two governments within a few days.

The Committee expressed the need to establish a firm communication with the above bodies to ascertain priorities and method of approach to studies in the Okanagan. A joint meeting of the Technical Committee and the Okanagan Study Committee would be of definite value.

Submissions for Pilot Studies

The content of submissions for pilot studies in the cities of Kelowna, Vernon and Penticton and the Village of Oliver and Osoyoos under the terms of the Canada-British Columbia Okanagan Basin Agreement were presented to the Committee.

Before a complete recommendation on the above submissions could be given it would be necessary to know the criteria set by the Okanagan Study Committee in determining what type and size of project would be considered. The Study Committee will be contacted to find the format timing, type of information and amount of detail required for project submissions.

It is expected that government interest in various projects will be based on the benefit that projects could bring not only to the entire Okanagan, but to the Province and nation as well.

The Committee agreed to accept the above five submissions, and to wait for further information on each before recommendations could be made to the Water Board. It is expected that Cities and Villages making submissions would have to present a satisfactory report before adequate consideration could be given.

Since city engineers on the Technical Committee will be making presentations on behalf of their respective cities and would be required to favor their own proposals, it was decided that the Committee should not choose between projects but simply screen them; weighing and presenting final complete reports, and recommendations

Since city engineers on the Technical Committee will be making presentations on behalf of their respective cities and would be required to favor their own proposals, it was decided that the Committee should not choose between projects but simply screen them; weighing and presenting final complete reports, and recommendations to the Water Board. It is expected that the final decision on study projects will rest with the Okanagan Study Committee.

Mr. F.C. Slee of Interior Engineering Services Ltd. presented a brief outline of the proposal by the Village of Oliver for a pilot study of effluent disposal on land.

The project entails pumping of approximately 200,000 gallons of effluent daily from a treatment plant, across the Okanagan River onto a bench approximately 200 in elevation above the plant. A large tract of land and a storage reservoir are available on the bench. A map, schematic diagram, cost and other engineering information was presented. Mr. Slee pointed out that the nature of the Oliver project would allow for a great amount of flexibility in the study.

The Committee agreed that reports for submissions could be more complete if the nature of information required by the Okanagan Study Committee was known.

Once a project is initiated it is expected that research personnel to conduct tests would be provided by the government.

Multi-Purpose Management of Mission Creek

A proposal by D.R. Hurn which had been made earlier to the Regional District of Central Okanagan regarding the future development of Mission Creek was presented to the Technical Committee. Concern over the diminishing use of the channel for fish spawning was expressed. A proposed artificial channel parallel to Mission Creek would provide a fish spawning bed. However the cost benefit ratio of such a proposal if based on fish reproduction alone would place the project beyond economic reality. On the otherhand, if total benefits including land improvement, recreation potential and water control were considered, benefits may well exceed costs.

The following agencies were considered to have an interest in the development of Mission Creek:

- The Fish and Wildlife Branch,
- The Water Resources Service,
- The Department of Highways,
- The Lands Branch,
- The Parks Branch,
- The Health Department,
- The Regional District of Central Okanagan

Since the above interests would be involved in the project each of the departments concerned should work through a central coordinating committee.

The Committee supported the above proposal and decided that the planner from the Regional District of Central Okanagan should have his technical committee prepare a more detailed brief outlining the project, defining the problems, and suggesting initiating steps for action. The Regional District could then ask the Okanagan Basin Water Board for support in presenting this brief to the Provincial Government.

Water Licence Applications

The Water Board requested that certain water licence applications of public interest be brought

before the Board.

Mr. E.D. Anthony of the Water Resources Service informed that approximately 250 applications for water licences are made annually in the Okanagan. For any one individual to decide which licences are of importance would be impractical. It was felt that through the normal publications and notification required by the applicant that important applications would become public knowledge, and could be dealt with individually. Anyone who felt that a particular application might be of public interest could notify the Board.

Air and Water Quality Standards

It was pointed out that the establishment of air and water quality standards is now under the jurisdiction of the Pollution Control Branch. Mr. Kastelen informed that at present it would be more appropriate to set recommended objectives rather than standards, as more information on the lake system would be required before standards could be set. The joint study of the Okanagan Basin should provide complete information required to set standards. In the meantime until more is known about the system, the Pollution Control Branch has set an objective that no nutrient containing wastes be discharged directly into Okanagan waters. This standard must now be met by all new industries locating in the Okanagan. A time period within which existing industries and municipalities must comply with the above standard will be set.

Dr. Clarke pointed out that the State of California forbids the discharge of any waste directly into pristine creeks.

Although the Pollution Control Board would ultimately be responsible for establishing and enforcing standards, it was pointed out that the proposed Canada Water Act, and news releases by the Pollution Control Board indicated that local governments would have some responsibility in formulating and adapting standards suitable for local areas. Recommendations would have to be tested locally before standards are set.

It was recognized that recommended standards for air and water quality are required in order that the Water Board may deal effectively with applications for industrial development in the Okanagan Basin.

A sub-committee consisting of Dr. Clarke, Dr. Smart, and Mr. Kastelen was appointed to establish recommended air and water quality standards for the Okanagan Basin.

Existing provincial recommended air and water quality standards will provide the basic reference for establishing recommended standards for the Okanagan Basin.

Non-Returnable Bottles

The Technical Committee felt that the problem of littering by non-returnable bottles was a provincial concern to be dealt with by legislation. Therefore no

further technical advice to the Water Board would be required.

Mr. Kastelen informed that the honorable P.A. Gaglardi stated in a news release of February 23rd that legislation concerning non-returnable bottles would be enacted during this session of the legislature.

The meeting adjourned at 5:20 p.m.

You may know J. Kastelen

OKANAGAN BASIN WATER BOARD

540 Groves Avenue
Kelowna, B.C.

April 2 Revised Agenda

1. Minutes from meeting of March 5, 1970.
2. Report of Technical Committee.
3. Secretary-Manager report on Victoria visit.
4. Accounts.
5. Correspondence:
 - (a) Regional District of North Okanagan
Regional District of Central Okanagan
Regional District of Okanagan-Similkameen

Replies to letters on a proposal for anti-litter
By-laws.
1 - H.D. 2 - 2nd reading
 - (b) City of Vernon-appointment of observers to the Okanagan
Basin Water Board.
 - (c) City of Penticton-request that the Penticton sewage
treatment plant be used for nutrient removal studies.
 - (d) J.D. DeBeck-re: Water rights applications.
 - (e) W.F. Jefcoat M.L.A. Shuswap,
Hon. R. Williston,
W.M. NEUBERGER
Replies to letters requesting that all applications
be brought to the attention of the Water Board.
6. *if S.E. MacRae Re: Grand Coulee*
Applications for Pollution Control Permits within Regional Districts
to be referred to Water Board.
7. Okanagan Basin Water Board terms of reference to authorize partici-
pation in matters other than water resource utilization and
management.

Other Business:

--A meeting of the Committee of the whole of the Okanagan Basin Water
Board to follow.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD APRIL 2, 1970 at 2:00 p.m. IN THE OFFICES OF THE
REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 Groves Avenue,
KELOWNA, B.C.

Present: F.D. Stuart, R.D.O.S.
Chairman: W.C. Bennett, R.D.C.O.
L. Bawtree, R.D.N.O.

S. Stodola, R.D.O.S.
D. Pritchard, R.D.C.O.
P. Duke, R.D.N.O.

Also in Attendance:

Mayor Wm. Halina, City of Vernon

Press and Radio:

Kelowna Courier, Penticton Herald, Vernon News, CKOV
Radio, CKOK Radio

Minutes: Pritchard - Bawtree:

That the Minutes of the meeting of March 5, 1970 be
adopted as circulated.

CARRIED

Report of Technical Committee: The Secretary-Manager reviewed the main items in the report of the Technical Committee as circulated. An organization chart was presented to the Technical Committee indicating personnel and chain of communication between the following bodies:

- Canada-British Columbia Consultative Board
- Okanagan Study Committee
- Task Groups
- Okanagan Basin Water Board
- Technical Committee to Okanagan Basin Water Board

Two or three page briefs on each of the various research proposals suggested in the Okanagan would be forwarded by the Chairman of the Technical Committee to the Okanagan Study Committee by the first week in April.

The Technical Committee reviewed a list of all reports and studies that have been done on the Okanagan Lake System to date. A copy of each report will be retained for the Water Board files.

A team from B.C. Research started monitoring of Okanagan, Skaha, Kalamalka and Osoyoos Lakes on March 10th.

It was suggested that the Technical Committee's approach to standards should be co-ordinated with the Pollution Control Branch since this is the major authority responsible for regulation. In administering the Pollution Control Act, the Pollution Control Branch does not dictate rigid standards, but analyzes each application individually taking into consideration various economic and environmental conditions.

Mr. Bawtree commented that considerable work would be involved to investigate each application for pollution control permit individually.

Mayor Stuart recognized that water and air quality standards would be updated as more information becomes available, and recommended that minimum standards be considered at present.

Oxygen Content, Hiram Walker Cooling Water: Some concern was expressed that the oxygen content of heated waters released from the Hiram Walker cooling system in Winfield would be greatly diminished through heating and would therefore be of lower quality than water taken from Okanagan Lake. Re-introduction of oxygen into the water upon cooling would not be difficult.

The Secretary-Manager informed that Hiram Walker and Sons Ltd., were submitting results of monitoring done on Duck Lake and Vernon Creek to the Pollution Control Branch. An inquiry will be made to determine if the Water Rights Branch is also doing studies related to the Duck Lake system. The Board agreed that the oxygen content of water released into Duck Lake should not be lower than that of Woods Lake.

Septic Tanks: Mr. Bawtree expressed concern that the growing number of subdivisions by lakes and rural areas were a source of water contamination through improper location and installation of septic tank service. Septic tanks have been installed in areas where it is impossible to place them above the water table.

Septic tank permits are required from the Health Department before building permits will be issued in the Regional Districts of North Okanagan and Central Okanagan.

Mayor Stuart recommended that wherever a visible and obvious source of pollution exists, municipalities should try to regulate it.

Stuart - Pritchard:
That a letter be sent to the three Regional Districts requesting them to examine all incidents of pollution, including septic tanks, within their area with the co-operation of the Health Department, and take action to regulate adverse conditions.

CARRIED

Secretary-Manager Report on Victoria Visit: The Secretary-Manager reported on his visit of March 16 and 17 to the offices of the Water Resources service in Victoria where he met separately with:

Mr. B.E. Marr, Chief Engineer, Water Investigations Branch;
Mr. V. Raudsepp, Deputy Minister of Water Resources;
Mr. H.D. DeBeck, Comptroller of Water Rights;
Mr. W.N. Venables, Director, Pollution Control Branch; and
Dr. R.J. Buchanan, Interim Co-ordinator, of task groups appointed by the Okanagan Study Committee.

Topics of discussion included: the approach to studies in the Okanagan Basin, timing of submissions to the Okanagan Study Committee, local participation, Brandt's Creek study, water rights applications, water reserves, water quality objectives, and pollution control regulations.

The Secretary-Manager also met with the Honourable Mrs. P.J. Jordan, Minister Without Portfolio. The

proposed pulp mill in the North Okanagan, monitoring of Duck Lake and Woods Lake, and a proposed park reserves on Mabel Lake were discussed.

Mr. Bawtree commented that applications for one year property leases along Mabel Lake were turned down to prevent unbroken occupancy of long stretches of beach.

Accounts: The following accounts were presented for payment:

-Regional District of Central Okanagan (office rent, steno service, supplies, stationary, postage, duplicating)	\$303.77
-Extension Dept. U.B.C. (Conference on Resource Management)	65.00
-Willson Stationers	9.84
-Tempo Business Supplies	170.10
-Travel and miscellaneous expense	<u>60.89</u>
	<u>\$609.60</u>

Stuart - Stodola:

That the above accounts be received and payed.

CARRIED

Correspon- The following letters were read:
dence:

1. Letters from the Regional Districts of North Okanagan, Central Okanagan, and Okanagan-Similkameen in reply to letters on a proposal for anti-litter by-laws. The Regional Districts were all in favor of co-operating concurrently on anti-litter by-laws. However, action would be delayed until the results of present legislation dealing with the problem are known.
2. Letter from the City of Vernon appointing Mayor Halina and Mr. D.S. MacKay, City Engineer, as observers to the Okanagan Basin Water Board.
3. Letter from the City of Penticton requesting that the Penticton sewage treatment plant be used for nutrient removal studies under the terms of the Canada-British Columbia Okanagan Basin Agreement.

Stuart - Bawtree:

That the above letter be referred to the Technical Committee of the Okanagan Basin Water Board.

CARRIED

4. Letter from Mr. H.D. DeBeck, Comptroller of Water Rights, stating that at the present time he does not wish to establish any procedure for sending copies of water applications to the Board, but hoped that some satisfactory liaison could be established with the Board in this regard.
5. Letters from W.F. Jefcoat, M.L.A. Shuswap; Honourable R. Williston, Minister of Lands, Forests and Water Resources; and W.N. Venables,

Director Pollution Control Branch, replying to letters requesting that applications for pollution control permits in the Okanagan Basin be brought to the attention of the Water Board.

Mr. Williston outlined the procedures followed by the Pollution Control Branch in granting pollution control permits. Since several departments that are represented on the Technical Committee will be making recommendations on applications directly to the Director of Pollution Control; and since efficiency and reasonable speed should be maintained in administrative actions, the Minister did not favor the proposal that applications for pollution permits not be decided upon by the Director of Pollution Control before the Okanagan Basin Water Board has expressed their views on the application. The Minister felt the Board could make essential contributions by recommending long and short term objectives for water quality and quantity research, planning, allocation, development, and operation and maintenance of projects.

Mr. Venables stated that pollution control permits normally require 120 days for processing, and the Pollution Control Branch did not wish to add any additional administrative procedures that would further increase this period. Mr. Venables suggested that since all permit applications are brought to the attention of the Regional District concerned, these could easily be referred to the Water Board.

Mayor Stuart felt the Board should be kept informed on pollution control permits.

Since the Board represents land owners, it was surmised that the Board could also be a legal objector under the terms of the Pollution Control Act.

6. Letter from Mr. B.E. Marr, Co-chairman of the Consultative Board informing that information on Brandt's Creek had been passed on to the Okanagan Study Committee.

Board to Receive Copies of Pollution Applications from Regional Districts:	Duke - Stodola: That copies of all applications for pollution control permits within the Regional Districts of North Okanagan, Central Okanagan, and Okanagan-Similkameen be forwarded by each Regional District to the office of the Water Board.
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CARRIED

Terms of Reference:	The Board reviewed its terms of reference as outlined in the amended letters patent of the three Regional Districts. Amended letters patent only provide for the Boards participation in matters
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MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD APRIL 2, 1970.

5

concerning water resources utilization and management.

The Chairman anticipated that many other items not directly related to water management would be referred to the Board for consideration, since the Board represents three Regional Districts. However, further amendments to letters patent will not be considered at this time. It is anticipated that letters patent will require amending in the future to allow for participation in air quality management.

The Water Board will originate various proposals from time to time which could be enforced by the Regional Districts.

Since the ramifications of water resource management are far reaching it is likely that the Water Board will become involved in related areas such as land use and planning.

Next Meeting: The next meeting will be held on May 7th, 1970,

Adjournment: The meeting adjourned at 3:30 p.m.

Secretary-Manager

Chairman

OKANAGAN BASIN WATER BOARD
540 Groves Avenue
Kelowna, B.C.

REVISED AGENDA

March 5, 1970, 2 P.M.

1. Adoption of minutes from meeting of February 12, 1970.
2. Accounts:
 - (a) Purchase of books
 - (b) Expense account of Secretary-Manager
- DIST. ... 1107
3. Correspondence:
 - ✓(a) B.E. Marr, Department of Lands Forests & Water Resources-
Appointments of Co-Chairmen for Canada-British Columbia
Consultative Board and Okanagan Study Committee.
 - ✓(b) B.E. Marr - press release
 - ✓(c) R. Williston - thank Board for support
 - ✓(d) V. Raudsepp - study committee to visit valley
 - ✓(e) Sun-Rype - Brandt's Creek Study
 - ✓(f) Regional District of Central Okanagan - appointment of
Planner to Technical Committee
 - ✓(g) City of Vernon - intent to submit formal application for
study of feasibility of using spray irrigation for disposal
of sewage effluent.
 - ✓(h) Naramata Irrigation District - copy of letter to R.
Williston, re: grazing rights in Naramata Watershed.
 - ✓(i) Copy of letter from Honorable P. Jordan to Municipal Councils
and Regional Districts concerning possible Crown Zellerbach
Pulp Mill.
 - ✓(j) Public Affairs Director, Keep Canada Beautiful organization-
anti-litter week in Terrace.
 - ✓(k) Letter from Osoyoos Chamber of Commerce to Highways Minister -
Re: Litter
 - ✓(l) Regional District of Central Okanagan - Standards
4. Report of Technical Committee.
5. New Business.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD HELD MARCH 5, 1970 at 2:00 p.m. IN THE OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 Groves Avenue, KELOWNA, B.C.

Present: F.D. Stuart, R.D.O.S. S. Stodola, R.D.O.S.
Chairman W.C. Bennett, R.D.C.O. D. Pritchard, R.D.C.O.
L. Bawtree, R.D.N.O. J. Patterson (voting alternate)

Also in Attendance:

A.C. Affleck, R.D.O.S.(alternate)

Alderman Monk, City of Vernon
D.S. MacKay, City of Vernon
I. Jackson, Observer Peachland
P. Farmer, Chairman, R.D.O.S.

Press and Radio:

Kelowna Courier, Penticton Herald, Vernon News,
CKOV Radio

Minutes: Stodola - Bawtree:
That the minutes of the meeting of February 12, 1970 be adopted as circulated.

CARRIED

Accounts: Accounts totaling \$54.63 for the purchase of books, and payment of travel and miscellaneous expenses for the Secretary-Manager were submitted.

Pritchard - Patterson:
That the above accounts be paid.

CARRIED

Correspondence:

The Secretary-Manager read the following letters:

- Co-chairman 1. Letter from Mr. B.E. Marr, Department of Lands
Consultative Forests and Water Resources informing that the
Board, following appointments had been made at the
Study meetings of the Canada-British Columbia Consulta-
Committee: tive Board and the Okanagan Study Committee held
in Victoria February 16, 1970:
Co-chairman of Consultative Board;
(1) Dr. A.T. Prince (Canada)
(2) Mr. B.E. Marr (British Columbia)
Co-chairman of Study Committee;
(1) Mr. R.C. Hodges (Canada)
(2) Mr. T.A.J. Leach (British Columbia)
Mr. R.J. Buchanan, Biologist with the Water
Investigations Branch of the Water Resources
Service, will act as interm co-ordinator until
a full time study director is appointed.
- Working 2. Letter from B.E. Marr with attached news release
Relationship indicating members and Co-chairman of the Canada-
with Study British Columbia Consultative Board and the
Committee: Okanagan Study Committee. The need for the early
establishment of a working relationship with the
Okanagan Basin Water Board was expressed.

Hon. Willis-3. Letter from the Honorable R. Williston expressing appreciation of support, by the Board, in the program aimed to reduce undesirable wastes.

Study Committee to meet Water Board: 4. Letter from V. Raudsepp, Deputy Minister of Water Resources, stating that he expected the Okanagan Study Committee and perhaps also the Canada-British Columbia Consultative Board to visit the Okanagan Valley soon, at which time a meeting with the Okanagan Basin Water Board could take place. Mr. Raudsepp also welcomed the Secretary-Manager to visit the Water Resources offices in Victoria.

The Secretary-Manager has arranged with Mr. Marr to visit Victoria on March 16, 1970.

The Water Board agreed that a joint meeting at the convenience of the Okanagan Study Committee was desirable.

Task Forces: The Secretary-Manager informed that he had recently met with Dr. Strachan, Director of the Summerland Research Station at which time Dr. Strachan indicated that task forces under the Okanagan Study Committee have already been assigned for initial investigation and research planning on the following topics:

- Hydrology
- Limnology
- Water Quality
- Social Economic Forecasts
- Waste Treatment

Two federal and two provincial specialists are represented on each of the above task groups. After an initial briefing by Dr. R.J. Buchanan, the above groups will prepare initial reports for submission by approximately April 8, 1970. The Okanagan Study Committee will meet in mid-April to review initial study plans and tentative research allocations. A joint meeting of the Consultative Board and the Okanagan Study Committee will be held in early May. The proposed meeting with the Okanagan Basin Water Board would be held subsequent to the above meetings.

Hydrology Limnology Start Study: The Secretary-Manager added that information received from Mr. Marr indicated that studies on hydrology and limnology will start immediately so that data on the lakes can be recorded during the current runoff period.

The B.C. Research Council has been retained to begin monitoring of Okanagan, Skaha, Osoyoos, and Kalamalka Lakes. Members from the Research Council are expected to be in the field next week.

Mr. Marr also informed that the original submission for a proposed study on Brandt's Creek has been referred to the Okanagan Study Committee.

Brandt's Creek: 5. Letter from Sun-Rype Products Ltd. requesting the Okanagan Basin Water Board to initiate follow-up correspondence with the Okanagan Study Committee explaining the urgency of the proposed Brandt's Creek Study. Initial work on the creek has already started and it is imperative that it continue and that the study be completed within 6 to 8 months.

Mayor Stuart suggested that additional copies of engineering reports on Brandt's Creek be forwarded to the Okanagan Study Committee along with the Sun-Rype letter and another letter to be written

indicating the high priority of the Brandt's Creek study.

Stuart - Bawtree:

That a letter be sent to the Okanagan Study Committee asking that early consideration be given to the Brandt's Creek Study.

CARRIED

Mayor Stuart explained that the Brandt's Creek Study will also be of benefit to Canadian Cannery Ltd. in Penticton. The cannery has a two year time limit to bring food waste standards to the same level as those at the Penticton treatment plant.

Mayor Stuart mentioned that none of the creeks in the Penticton area have problems similar to Brandt's Creek since waste does not enter these creeks directly. Some feedlots on Shingle Creek could reduce water quality. Mr. MacKay informed that there is no direct discharge of commercial wastes into creeks in the Vernon area.

Hardcastle 6. Letter from the Regional District of North Okanagan
Prepresent- stating that Mr. W. Hardcastle, Planning Director
ative to of the Regional District of Central Okanagan has
Technical been appointed as planning representative on
Committee: the Technical Committee.

City of 7. Letter from the City of Vernon stating the cities
Vernon intention to submit a formal application for a
Intent to feasibility study of spray irrigation for sewage
Submit disposal.
Proposal:

Mr. MacKay wished to know more about the background information required for inclusion in submissions to the Okanagan Study Committee.

Mayor Stuart mentioned the City of Penticton would be making a submission for a study on nutrient removal. However, more than one month would be required to make a detailed report.

The Secretary-Manager informed that although not essential, it would be desirable to submit a very brief preliminary report on each proposal outlining the content and objective of each study by mid-April so that the Okanagan Study Committee could know which sites are available and what types of studies could be done. Additional detailed reports could be forwarded when more information is required.

Mr. Bawtree suggested that each proposal should show where the study could be of importance not only to the Okanagan but to the province and even to the Nation.

Naramata 8. Letter from the Naramata Irrigation District to
Irrigation the Honorable R. Williston asking that the
District: grazing rights of the Naramata Watershed be
reviewed since it was felt that cattle were
contributing to the reduced quality of water.

Pritchard - Patterson:

That the above matter be referred to the Regional

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD MARCH 5, 1970. 4

District of Okanagan Similkameen as a planning and zoning problem.

CARRIED

Some discretion would be required in dealing with the above problem, since grazing rights exist on most Okanagan creeks.

- Hon. P.J. Jordan Letter: 9. A copy of a letter from the Honorable P.J. Jordan to all Municipal Councils was circulated. The letter referred to a possible pulp mill in the North Okanagan Shuswap Region. An outline suggesting the formation of a citizens committee to explore all aspects of a pulp mill development was contained in the letter.

Mr. Bawtree informed that certain civic people have already been appointed to the above committee.

Mayor Stuart mentioned that the provincial government at present has not set out a policy concerning the mill. The government will consider the entire Okanagan situation with reference to wastes and recreational values before the location of a pulp mill is planned. The Crown Zellerbach Study encompasses an area far larger than just the Okanagan.

In referring to Mrs. Jordans' letter Mr. Farmer indicated that the outlined responsibilities of the proposed citizens' committee would be similar to responsibilities now vested with the regional districts and the Okanagan Basin Water Board. Mr. Pritchard felt it was the responsibility of the Regional District of North Okanagan to establish a committee to study the implications of a proposed pulp mill. Emotional hearings by informal groups would be avoided.

Mayor Stuart advised that Crown Zellerbach is undoubtedly aware of the high standards that would be required of any pulp mill proposed for the Okanagan. Several members expressed the need to establish comprehensive air and water quality standards for the Okanagan.

Water Board Stuart - Pritchard:
to be advis- That the Department of Lands and Forests and the
ed of Indust-Pollution Control Branch be requested to assure
rial Permits: the Okanagan Basin Water Board that no industrial
permits will be granted to industry locating in the
Okanagan until the Water Board is advised and has
the opportunity to study all applications for such
permits.

CARRIED

- Keep
Canada
Beautiful,
Anti-litter
Program: 10. Letter from Public Affairs Director of the Keep
Canada Beautiful organization stating that he and
Mr. P.J. Lavelle of the Glass Container Council
of Canada would be available on Thursday March
19th to discuss anti-litter programs with the
Regional District of Central Okanagan.

The Secretary-Manager will attend the meeting to learn what assistance the above organization could give in the Okanagan.

Mayor Stuart stressed the importance of public education and co-operation in attempting to curb litter of all types. Anti-litter by-laws could be enforced by peace officers using a system of voluntary fines. If an area is kept clean the tendency to litter is reduced. Mr. Affleck pointed out that littering is a problem of human behavior and could be corrected during school years.

Stuart - Pritchard:

That a letter be sent to the three regional districts inquiring whether they would be in favor of introducing uniform anti-litter by-laws for the Okanagan.

CARRIED

Osoyoos Chamber of Commerce re: Anti-litter Laws: 11. Letter from the Osoyoos Chamber of Commerce to the Honorable Leslie Black, Minister of Highways, urging him to enforce existing anti-litter and anti-pollution laws.

Mr. Stodola informed of the Ministers' reply indicated that anti-litter laws are difficult to enforce unless offenders are apprehended.

R.D.C.O. Standards: 12. Letter from the Regional District of Central Okanagan requesting that the matter of water and air standards be referred to the Technical Committee of the Okanagan Basin Water Board.

Report of Technical Committee:

Recording Secretary: The Secretary-Manager indicated the need for a part time technical secretary to record notes during meetings of the Technical Committee. The Chairman added, that such a secretary could also record notes for Technical Committees to the Regional District of Central Okanagan.

The Secretary-Manager briefly reviewed the report of the Technical Committee as circulated. The primary function of the Technical Committee would be to advise the Water Board on Technical problems. Sub-committees and various local experts would be used to deal with problems individually.

A proposal by D.R. Hurn for the future development of Mission Creek will be dealt with more thoroughly by the planning committee of the Regional District of Central Okanagan. A detailed brief outlining the project, defining the problems, and suggesting initiating steps for action would be prepared.

Standards Committee: A sub-committee consisting of Dr. Clarke, Dr. Smart, and Mr. Kastelen has been appointed by the Technical Committee to establish recommended air and water quality standards for the Okanagan Basin. Mr. Kastelen had informed the Technical Committee that until more information is gained on the Okanagan system the Pollution Control Branch has set an objective that no nutrient containing wastes be discharged directly into waters of the Okanagan. All new industries must comply with the above objective.

Mayor Stuart informed that pollution control permits are required for increased flows at outfalls presently in the system. Additional nutrients will not be allowed.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD MARCH 5, 1970

6

Provincial Standards: Mr. MacKay indicated that an air pollution permit will soon be required for burning at the Vernon refuse dumping area. A time period within which the city must comply to standards will be set. Mr. MacKay added that provincial recommended water and air quality standards are now being incorporated into pollution control laws and questioned how the Technical Committee could elaborate further on these standards while information on the lake system is still limited.

Mr. Pritchard stressed the need to adapt provincial recommended standards to fit the Okanagan.

Standards The Secretary-Manager pointed out that recommended apply only water quality standards for the province apply only to Receiving Waters. Once the end quality of water is determined, effluent discharges must be regulated so that the quality of receiving waters does not deteriorate. The Pollution Control Board is presently responsible for policing all existing outfalls to ensure that receiving waters do not become overloaded with intolerable amounts of waste.

Septic Tanks: It was surmised that seepage from septic tanks close to lakes could be largely responsible for deteriorated water quality along densely populated shorelines especially when high water levels interfere with these systems. This hidden source of pollution would require comprehensive inspections.

New Business:

Yacht Club Litter: Mr. Pritchard informed the Board of the accumulation of various litter items in the water in the vicinity of the Kelowna Yacht Club.

Pritchard - Stodola:
That the City of Kelowna ask the Yacht Club to remove litter accumulating in the water at the Club premises.

CARRIED

Next Meeting: The next meeting will be held on Thursday April 2, 1970 at 2:00 p.m. in the offices of the Regional District of Central Okanagan.

Adjournment: The meeting adjourned at 5:00 p.m.

Secretary-Manager

Chairman

MINUTES FROM THE MEETING OF THE WHOLE OF THE OKANAGAN
BASIN WATER BOARD THURSDAY APRIL 2, 1970 at 3:40 p.m.

Present: W.C. Bennett, R.D.C.O. D. Pritchard, R.D.C.O.
 L. Bawtree, R.D.N.O. P. Duke, R.D.N.O.
 F.D. Stuart, R.D.O.S. S. Stodola, R.D.O.S.

Also in Attendance:

Mayor Wm. Halina, City of Vernon

Water This meeting was conveyed to discuss a letter of
Licences: March 6, from the Honourable Ray Williston concerning
 the continued issuance of water licences and the sugges-
 tion of a water reserve in the Okanagan Basin.

The Chairman informed that he and the Secretary-Manager along with Mr. Harrison, Director of the Regional District of Central Okanagan met on March 31 with Mr. DeBeck and Mr. Anthony of the Water Rights Branch to discuss further licencing on Mission Creek, and the possibility of a water reserve.

The Chairman informed that Mr. DeBeck had stated that a water reserve in Okanagan Basin was not desirable at this time. He noted that if this was done it would set an undesirable precedent to be followed in other basins where major studies such as the current Okanagan Basin Study are to be undertaken. The joint Federal-Provincial Study will determine the water requirements of the Okanagan Basin, however licences should not be withheld pending completion of the study.

Mr. DeBeck had informed that Mission Creek was not a special case as far as additional licencing was concerned, since most of the other tributaries have the same problem.

In considering K-Bar Ranches Ltd. applications for water rights on Mission Creek, Mr. DeBeck had informed that additional requirements of Rutland and the Black Mountain Irrigation District are being studied before K-Bar applications are granted. A large portion of K-Bar applications were considered to be impractical and would not likely be granted in total.

Mr. DeBeck felt confident that a solution to the water shortage problem in the Okanagan will be found and licencing could continue on this basis.

Mayor Stuart was concerned about continued licencing of large amounts of water without a guarantee of an additional source. He pointed out that even though Mission Creek has an excess of flood water, this water is captured in the main Okanagan Lake Reservoir and licenced for further use. Licencing in the Basin is now more than the inflow in some years.

The Chairman did not favor a water reserve at this time but suggested that the Water Rights Branch consult with a committee of the Water Board before granting major licences.

Mayor Stuart suggested that a carefully worded letter be sent to the Honourable R.G. Williston clearly stating that the Board was deeply concerned with the problem of additional licencing in the Okanagan, as well as the impact of a water reserve. The Water Board would have to be consulted on major licences to be granted.

Stuart - Pritchard:

That a letter be sent to Mr. Williston clearly stating that the Water Board is concerned and has recognized the seriousness of either placing a water reserve under the Water Act or continuing licencing waters in the Okanagan Basin without guarantee of an additional supply; and that the Water Rights Branch be requested to consult with a committee of this Board regarding major licences the Branch feels should be granted.

CARRIED

The Chairman and Secretary-Manager would confer with the local office of the Water Rights Branch on major licence applications. Directors in the area concerned, and the Water Board will be informed of the various applications.

Study The Chairman suggested that a dinner be held for
Commit- the Okanagan Study Committee during their visit in
tee May. The press would not meet with the above Committee.
Visit:

Stodola - Bawtree:

That the Secretary-Manager and Chairman make dinner arrangements for the Okanagan Study Committee and invite the Mayors of Vernon, Kelowna and Penticton, and the Chairmen of the three Regional Districts.

CARRIED

The agenda for Water Board meetings will not be sent to the press in advance, since topics for discussion have been distorted. Only the notice of meetings will be sent.

The meeting adjourned at 4:45 p.m.

Secretary-Manager

Chairman

OKANAGAN BASIN WATER BOARD

NOTES FROM THE MEETING OF THE TECHNICAL SUB-COMMITTEE
ON WATER AND AIR QUALITY STANDARDS APRIL 22, 1970, 2:00 p.m.

Present: Dr. D.A. Clarke, Director, South Okanagan Health Unit
 Dr. M. Smart, Director, North Okanagan Health Unit
 Mr. W.A. Kastelen, District Engineer, Water Rights Br.
 Mr. W. Parchomchuk, Secretary-Manager, Okanagan Basin
 Water Board

The Committee decided to consider recommended standards for water quality only at this meeting. Air quality standards would be studied at a later meeting.

Water

Use: On recommending water quality standards the anticipated end use of the water is a primary consideration. Intensive water useage in the Okanagan has firmly established the separate water demands. The major uses are considered to be drinking, recreation, irrigation, and light industrial. These various usages are consistant throughout the basin.

The Committee had reviewed various literature on water standards prior to the meeting.

Recomm- The Committee recommended that the Okanagan Basin
 ended Water Board adopt the "Recommended Water Quality
 Stand- Standards" of the Department of Health of the Province
 ards: of British Columbia ammended to September 1969.
 These standards are similar to Canadian and United
States drinking water standards which have received
 wide acceptance.

Since most of the natural lakes in the basin are used for drinking water supply these standards would apply. If water meets quality standards suitable for drinking, it would then also be suitable for most other uses, including recreation.

Activities that endanger the recommended quality of the receiving water would have to be curtailed.

Water quality which is naturally of a better quality then recommended should be maintained at that higher level of quality.

In addition to the above recommendations the Committee also recommends that no new direct outfalls be permitted into any water courses in the Okanagan Basin.

The meeting adjourned at 4:00 p.m.

- This will be refined

- Open to suggestion from Regional Districts

- Flexible, as new info becomes available
 this may be adjusted

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD MAY 14, 1970 at 2:00 p.m. IN THE OFFICES OF THE
REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 Groves
Avenue, KELOWNA, B.C.

Present:

Chairman: W.C. Bennett, R.D.C.O. L. Bawtree, R.D.N.O.
S. Stodola, R.D.O.S. P. Duke, R.D.N.O.
W.J.C. Kane, R.D.C.O.

Alternates:

J. Patterson, R.D.N.O. A.C. Affleck, R.D.O.S.

Also in Attendance:

Mayor Wm. Halina, City of Vernon
P. Farmer, Chairman, R.D.O.S.
Mr. Hamilton, Engineer, City of Penticton
Mr. Lawrence, Engineer, City of Kelowna

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald,
CKOV Radio, CKOK Radio

Minutes: Duke - Bawtree:

That the minutes of the meeting of April 2, 1970 be
adopted as circulated.

CARRIED

R.D.C.O. change of Director: The Secretary-Manager read a letter from the
Regional District of Central Okanagan which stated
that Director, D. Pritchard has informed the Regional
Board that due to business commitments it was neces-
sary that his name be withdrawn from the appointment
to the Okanagan Basin Water Board as regular member.
W.J.C. Kane was therefore appointed as regular member
to the Okanagan Basin Water Board with Director,
D. Pritchard appointed as alternate.

Bawtree - Duke:

That the above letter be received and filed.

CARRIED

Report of Technical Committee: The Secretary-Manager reviewed a report of the
Technical Sub-committee on water quality standards,
with reference to the Okanagan. The Committee had
reviewed various literature on water standards.
On recommending water quality standards the anticipated
end use of the water is a primary consideration.
Intensive water usage in the Okanagan has firmly
established the separate water demands. The major
uses are considered to be drinking, recreation,
irrigation and light industrial. These various
uses are consistent throughout the basin.

The Committee recommended that the Okanagan Basin
Water Board adopt the recommended water quality standards
of the Department of Health of the Province of British
Columbia, amended to September 1969. These standards
are similar to Canadian and United States drinking
water standards which have received wide acceptance.

Since most of the natural lakes in the Basin are

used for drinking water supply these standards would apply. If water meets quality standards suitable for drinking it would then also be suitable for most other uses, including recreation.

Activities that endanger the recommended quality of the receiving water would have to be curtailed.

Water quality which is naturally of a better quality than recommended should be maintained at that higher level of quality.

In addition to the above recommendations the Committee also recommends that no new direct outfalls be permitted into any water courses in the Okanagan Basin.

Mr. Bawtree questioned whether these recommendations would be forwarded to the Provincial government or to the Regional Districts for further enforcement.

Mr. Farmer commented that the Water Board presently has no enforcing authority and is only an advisory agency to the Regional Districts. He suggested that the Secretary-Manager draw up a by-law and submit it to the three Regional Districts for their approval. It would not be desirable to have each Regional District draw up their own set of by-laws on water standards.

A motion was passed that the Secretary-Manager draw up a by-law for all three Regional Districts on recommended drinking water standards. However, certain doubts raised by Mr. Hamilton as to the definition of direct outfall led to the suggestion that the sub-committee's recommendations be referred back to the full Technical Committee for further clarification. Mr. Hamilton questioned whether a storm sewer would be termed an outfall.

Although the full Technical Committee had received copies of the recommendations and a note asking for their comments they had not yet met formally to further discuss the recommended water standards.

Bawtree - Stodola:

That the recommended water quality standards be referred back to the full Technical Committee for comment.

CARRIED

Other government agencies would also be contacted for their opinion on the recommended water quality standards.

Creek The Secretary-Manager reported on a recent visit
Sampling with the Water Quality Division of the Inland Water
Inland Branch of the Department of Energy Mines and Resources.
Waters The Water Quality Division has been sampling all creeks
Branch: draining into the Okanagan Basin since May of 1969
 and will continue their sampling for 3 years. Some
 33 creeks in the drainage basin are measured for
 the following: flow volume, dissolved oxygen, con-
 ductivity, PH, temperature, alkalinity, turbidity,
 bio-chemical oxygen demand, and colour. Samples are

sent to the Calgary lab daily for further analysis.

The Secretary-Manager has written to Mr. S.W. Reader, officer in charge of the Western Division for copies of sampling results on each creek.

In a similar program the Ground Water Division of the Water Resources Service of B.C. is sampling approximately 40 wells in the Okanagan. These samples are also sent to Calgary for analysis.

Request for Similkameen Sampling: Mr. Farmer questioned whether any samplings are being done on creeks of the Similkameen drainage basin. He suggested that the Secretary-Manager draw the attention of federal and provincial authorities to the Similkameen drainage basin and request that this area also be included in current sampling analysis. Since the Similkameen region is represented on the Okanagan Basin Water Board, the Board should support a study in that area as well. Mr. Bawtree pointed out that the study underway in the Okanagan presently will not only be for the benefit of local areas but for all of Canada.

Mr. Kane added that the Okanagan Basin Water Board is not carrying out the study, but rather the Federal and Provincial governments combined. Officials from these governments are responsible for initiating and undertaking the study. The Water Board can only make suggestions to these officials for studies they wish included.

Hiram Walker Sampling: Further in his report the Secretary-Manager indicated that Hiram Walker & Sons Ltd., had retained the services of Okanagan Planning and Engineering to carry out a weekly sampling program on 6 ground water wells located on the site of their new distillery at Winfield. In addition, bi-monthly, biological and chemical samples are taken on Duck Lake, Woods Lake and Vernon Creek. Samples are sent to Woods Laboratory in Vancouver and results are also forwarded to Hiram Walker. The Secretary-Manager will meet with Hiram Walker and review their sampling program in the field.

Slough Creek: The Secretary-Manager drew the Boards attention to the degenerated condition of the small creek commonly referred to as "Slough Creek" near Kelowna. The wide channel and slow movement of this slough has created slime growths and an unsightly condition on this water body. Samples have been taken and will be analyzed.

Aerial Photo Mosaic: The Secretary-Manager had consulted with the Okanagan Study Committee as to the feasibility of compiling an aerial photo mosaic of the entire Okanagan Valley. Such a mosaic would not only be a valuable reference for personnel involved in the current Okanagan Basin Study, but would also be useful in future years to the Department of Forestry, Department of Agriculture, and various local planning agencies. Dr. Buchanan, Interim Task Co-ordinator for the Study Committee informed the Secretary-Manager that the entire Valley will be photographed in colour this summer.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD MAY 14, 1970.

4

Task Group on Waste Disposal Visit Field: The Secretary-Manager had been in the field with members of the Task Group on Waste Disposal to review the various sites which had been suggested for land disposal of sewage effluent. The proposed sites at Vernon, Oliver, and Osoyoos were visited. The Task Group thought that these were promising sites and were impressed with the large storage area available at the north end of the Valley near Vernon. The Task Group on land disposal has not yet decided what type of study they wish to do; however, they indicated they wish to obtain the most information for the least cost when doing such a study. They will decide what types of studies are within their terms of reference. The entire Task Group on Waste Disposal will be in the Okanagan on Wednesday June 17 in the morning and wish to meet with members of the Water Board at that time.

The Brandt's Creek Study proposal is before the Task Group on Waste Disposal. This Group will be making recommendations to the Okanagan Study Committee. The Secretary-Manager has stressed the importance of this study to the Task Group.

Field Lab: Dr. Buchanan informed the Secretary-Manager that a field lab will be established in a central location in the Okanagan to analyze samples that will be gathered during the term of the Okanagan Basin Study.

Okanagan Regional College Project: The Secretary-Manager learned from members of the Okanagan Regional College that the college wished to co-operate with the Okanagan Basin Water Board in undertaking a research project in the Valley. This matter will be pursued further with members of the college.

Diking Survey Mission Creek: The Secretary-Manager informed that a diking survey of Mission Creek has now been started by the Water Resources Service. Dikes along the creek will be re-inforced when the survey is completed.

Pulp & Paper Inquiry: Ending his report the Secretary-Manager informed the Board that an inquiry into the pulp and paper industry of British Columbia will be held in Vancouver on August 11th. This inquiry is sponsored by the Pollution Control Board. Briefs to be presented at this inquiry must be submitted to the offices of the Pollution Control Branch before July 21st 1970.

After considerable discussion regarding the Boards position on the location of a pulp mill it was decided that this problem should remain a regional matter, however, it was suggested that the Secretary-Manager attend the inquiry in Vancouver to secure additional information on the pulp industry.

Sec-Mgr. to attend Inquiry: Kane - Duke:
That the Secretary-Manager attend the inquiry into the pulp and paper industry on August 11th.

CARRIED

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD MAY 14, 1970. 5

Accounts: The following accounts were presented for payment:

1. Regional District of Central Okanagan	\$209.65
2. Kelowna Printing Co. ,	7.96
3. Secretary-Manager expense report(April)	<u>51.52</u>
Total	<u>\$269.13</u>

Bawtree - Kane:

That the above accounts be received and paid.

CARRIED

The Secretary-Manager had intended to produce semi-annual financial statements. Mr. Farmer suggested that quarterly statements be prepared as well.

Correspondence:

The following letters were read:

Obvious
Sources
of
Pollution:

1. Letters from the Regional District of Central Okanagan and the Regional District of North Okanagan replying to earlier letters requesting investigation of obvious sources of pollution within Regional boundaries. Both regional districts require that septic tank permits must be obtained before building permits are granted.

Applications for
Pollution
Control
Permits:

2. Letters from the Regional District of Okanagan-Similkameen and the Regional District of North Okanagan replying to letters requesting that copies of applications for pollution control permits be forwarded to the office of the Okanagan Basin Water Board. The Regional District of Okanagan-Similkameen forwarded an application made by Gilwood Esso Service of Keremeos to dispose of 800 gals daily of laundramat effluent on a vacant lot of waste land. The Regional District of North Okanagan forwarded an application for a permit under the Pollution Control Act made by the City of Vernon for a sanitary land fill and controlled burning of refuse.

Mr. Bawtree presented an application for Pollution Control permit made by Mr. John Petty of Armstrong to discharge 200 gals per day of effluent from a custom killing plant. The effluent will be discharged on a vacant lot after filtering and settling in a catch basin.

Briefs
Waste
Treatment:

3. Letter from Mr. B.E. Marr Co-chairman of the Consultative Board thanking the Board for forwarding copies of briefs prepared in connection with waste treatment in the Okanagan Valley. These briefs have been placed before the Okanagan Study Committee for consideration.

Reg.Distr.
of Col.-
Shuswap
Hearings:

4. Letter from the Regional District of Columbia-Shuswap requesting that if and when a public hearing is held concerning a joint federal-provincial study of the diversion proposal in the Shuswap Okanagan that such a hearing be held in Salmon Arm.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD MAY 14, 1970.

6

Duke - Kane:

That the Okanagan Study Committee be requested to hold a public hearing in Salmon Arm if such hearings will be called.

CARRIED

Other Business

Next
Meeting:

Mayor Duke requested that the next Board meeting be held in Lumby on June 11 at 2:30 p.m. An airplane tour of the Sugar Lake Basin will be arranged for 6 members of the Water Board that morning. Members taking the air tour will meet at the Kelowna Airport at 10:00 a.m. on June 11th. The Board meeting will occur in the Lumby Legion Hall after the tour of the Basin is complete.

Due to another commitment the Chairman requested that the July 2nd meeting be held on July 9th instead.

Stodola - Duke:

That the July meeting of the Okanagan Basin Water Board be held on the 9th day of July.

CARRIED

Terms of
Reference:

The Chairman asked members of the North Okanagan Regional District to clarify discussions that had occurred regarding the terms of reference of the Okanagan Basin Water Board. Mayor Duke commented that the problem was largely an internal matter stemming from the Regional Districts uncertainties about the Water Boards terms of reference. Mr. Bawtree informed that the North Okanagan Regional District was under the impression that the Water Board was becoming a regulatory body in matters under Regional control. The questions concerning the Water Boards function have since been somewhat clarified.

Air
Quality
By-laws:

Mr. Bawtree presented a request on behalf of the Regional District of North Okanagan concerning advice on air pollution by-laws. Mr. Farmer informed that the Regional District of Okanagan-Similkameen is currently drafting air pollution by-laws based largely on recent suggested by-laws issued by the Provincial government. Mr. Farmer further added that the Okanagan Basin Water Board was not established to deal with matters regulating air pollution, however, he felt the Board could offer some advice. The Regional Districts would be responsible for enforcing any by-laws which they adopt. Mayor Duke felt that the three Regional Districts should co-operate in some way in establishing uniform air pollution by-laws. Although the terms of reference of the Okanagan Basin Water Board do not include matters of air management, Mr. Kane suggested that the Water Board does offer an approach for an overall uniform standard.

The Next Water Board meeting will be held on June 11th at 2:30 p.m. in the Lumby Legion Hall.

Adjournment: The meeting adjourned at 3:45 p.m.

Chairman

Secretary-Manager

MINUTES OF THE IN-CAMERA MEETING OF THE OKANAGAN BASIN WATER BOARD
MAY 2nd, 1974 3:20 P.M. REGIONAL DISTRICT OF CENTRAL OKANAGAN
OFFICES, 540 GROVES AVENUE, KELOWNA, B.C.

1.

Present:

A. Duncan	R.D.C.O.
C. Day	R.D.C.O.
E. Lawby	R.D.C.O.
P. Duke	R.D.N.O.
C. Dunn	R.D.O.S.
J.B. Shaw	R.D.O.S.
W. Parchomchuk	Secretary-Manager
R. Postill	Chairman, R.D.N.O.
P. Mackiewicz	Administrator, R.D.N.O.
W.C. Bennett	Mayor, City of Kelowna
J. Stuart	Alderman, City of Kelowna
F. Oakes	Alderman, City of Penticton
L. Dooley	R.D.C.O.
G. Sinclair	Public Coordinator, Kal-Wood Basin Study
B. Harvey	Assoc. of B.C. Irrigation Districts
E. Melnyk	Chairman, R.D.C.S.
K.E. McKee	Administrator, R.D.C.S.

The Chairman indicated the letters, concerning Okanagan Basin Study Implementation, forwarded to Mr. Lorimer, and Mr. Williams allowed provision for appointment to the water authority from the three Regional Districts.

Mayor Bennett suggested that exact terms of reference should be drawn up. He had recently talked to the Department of Municipal Affairs and they still referred to a one Regional District concept. This would result in a large bureaucracy.

Mr. Stuart indicated that he had recently talked to Mr. Woodward of the Municipal Affairs Department. The Department had been studying the Okanagan Basin Water Board letter. He indicated that Mr. Woodward felt he could not clearly see a Board having a greater authority than the Regional Districts. The Regional Districts would have to have the authority which could be delegated to the Water Board. Mr. Stuart felt the Department of Municipal Affairs is again looking at the one Regional District concept and they will be reflecting this over the next two or three months. Mr. Stuart suggested local authorities state to the Department exactly what local government wants. The Chairman asked if it was necessary to draw up specific recommendations. Mayor Bennett suggested that these could be drawn up more specifically and the Department of Municipal Affairs could place it into legal terms.

Mayor Duke suggested that the Chairmen of the three Regional Boards and the Mayors of the Cities of Vernon, Kelowna, and Penticton discuss the terms and be absolutely clear on the presentation.

Duke - Shaw

That a meeting of the Chairmen of the three Regional Districts and the Mayors of the Cities of Vernon, Kelowna, and Penticton be called to review the presentation to Victoria regarding the Okanagan Basin Study Implementation.

CARRIED

Mr. Bennett suggested that, if necessary, meetings with Victoria be delayed if it would benefit the entire Valley.

Mr. Dunn moved that the meeting adjourn.

The meeting adjourned at 3:45 P.M.

OKANAGAN BASIN WATER BOARD

A G E N D A

May 14, 1970 -- 2:00 p.m.

1. Minutes from meeting of April 2, 1970.
2. Regional District of Central Okanagan, change in appointment of regular member to the Board.
3. Report of Technical Committee.

4. Accounts.

5. Correspondence:

(a) Regional District of Central Okanagan.

Regional District of North Okanagan.

Replies to letters requesting investigation of obvious sources of pollution within Regional boundaries.

(b) Regional District of Okanagan-Similkameen.

Regional District of North Okanagan.

Replies to letters requesting copies of applications for pollution control permits.

(c) B.E. Marr - Re: submission of briefs on study projects to Okanagan Study Committee.

(d) REGIONAL DISTRICT OF COLUMBIA-CHENAP, REQUEST FOR NOTICE
OF PUBLIC HEARINGS

6. Other Business:

- NEXT MEETING P. DUKE, JUNE 11

A meeting of the committee of the whole of the Okanagan Basin Water Board to follow.

OKANAGAN BASIN WATER BOARD

COMMITTEE OF THE WHOLE OF THE
OKANAGAN BASIN WATER BOARD.

A G E N D A

May 14, 1970

1. Evening meeting with Consultative Board and
Okanagan Study Committee.

Arrangements for further formal meetings.

Press coverage

-QUESTIONS TO ASK SPEAKERS
-PREPARE TO ASK QUESTIONS

2. Letter from The Honourable Ray Williston
concerning water licences.

MINUTES FROM THE MEETING OF THE WHOLE OF THE OKANAGAN
BASIN WATER BOARD HELD THURSDAY MAY 14, 1970 at 4:00 p.m.

Present: W.C. Bennett, R.D.C.O.(Chairman) A.C. Affleck, R.D.O.S.
W.J.C. Kane, R.D.C.O. S. Stodola, R.D.O.S.
L. Bawtree, R.D.N.O. P. Duke, R.D.N.O.
J. Patterson, R.D.N.O.

Also present:

Mr. Hamilton, Engineer, City of Penticton
Mr. Lawrence, Engineer, City of Kelowna
Mayor Wm. Halina, City of Vernon
P. Farmer, Chairman, R.D.O.S.

Williston The Secretary-Manager read a letter of April 9th,
Letter, 1970, which the Water Board had sent to the Honourable
Re: Water R.G. Williston, concerning the water shortage problem
Licences: of the Okanagan and the suggested water reserve.
The Letter stressed the seriousness of either placing
a water reserve under the water act or of continuing
licencing waters in the Okanagan Basin without
guarantee of an additional supply. The letter also
asked that the Water Rights Branch contact a commit-
tee of the Water Board before granting any additional
major licences.

In his reply of April 20th the Minister indicated
that the Comptroller of Water Rights was fully aware
of the seriousness of the existing water supply
situation and that he would investigate large volume
licence applications particularly thoroughly before
any decision is made. The letter went on to say
that the advice which would be most important and
most appreciated by the Minister's Department would
be the views of the members of the Okanagan Basin
Water Board regarding general water management aspects
of the Okanagan Basin. He suggested it would be
most useful if the Okanagan Basin Water Board could
forward from time to time suggestions dealing with
objectives, preferences, and priorities of Okanagan
Basin Water Resources programs development and oper-
ations of projects.

The Chairman informed that he and the Secretary-
Manager had met with Mr. Anthony of the Water Rights
Branch and reviewed his procedures for processing
water licences. A thorough study of major licences
is conducted before water rights permits are granted.
Recommendations are forwarded to the Comptroller of
Water Rights who will either grant or not grant
permits. Mr. Bawtree felt that there should be
further clarification on Mr. Williston's statements
regarding the types of suggestions he wished from
the Water Board. The Secretary-Manager felt that
the Minister wished the Water Board to become more
involved in the local planning function for water
resources. Mr. Anthony of the local Water Rights
Branch will be asked to comment further on Mr.
Williston's request.

Mr. Kane suggested that an authority be set up
to look at other projects for study, for example:
Major dam structures on Mission Creek. A general
discussion followed in which members expressed their
concern over the water shortage problem in the
Okanagan.

MINUTES OF A MEETING OF THE WHLE OF THE OKANAGAN
BASIN WATER BOARD HELD THURSDAY MAY 14, 1970. 2.

Water Mr. Bawtree brought the Board's attention to an
Licence: application for a water licence on Deep Creek. He
 felt this application could be of interest to the
 Board since summer flows on this creek are very low.

Press The Secretary-Manager stated he wished to make
Releases: press releases from time to time between meetings
 after consulting with the Chairman. The Board agreed
 to this as long as policy statements are made only
 after consultation with the Board.

Consulta- The Board was reminded of the dinner meeting to
tive Board be held at 6:30 in the evening, at the Matador Inn,
& Study with members of the Consultative Board and the Okan-
Committee agan Study Committee who were presently touring the
Meeting: Okanagan. The press would not be present at the
 dinner.

The meeting adjourned at 4:45 p.m.

Secretary-Manager

Chairman

OKANAGAN BASIN WATER BOARD

Revised Agenda

June 11, 1970-2:30 p.m.

1. Minutes from meeting of May 14, 1970.
2. Accounts and financial statements.
3. Report of Technical Committee.
4. Correspondence:
 - (a) Dr. R.J. Buchanan- letter of appreciation.
 - (b) B.E. Marr - re: public meetings concerning Okanagan Basin Study.
 - (c) B.E. Marr - re: Similkameen River Basin study.
 - (d) City of Penticton - submission of brief outlining proposal for pilot study.
 - (^ed) Brandt's Creek Committee - contract for execution by study committee.
5. June 17th the meeting with Task Group on Waste Treatment.
6. Canadian Water Resources Association meeting - Penticton July 17th.
7. Other business.

Sent to 9 members of the Board:

NOTICE

A regular meeting of the Okanagan Basin Water Board will be held on Thursday June 11th, at 2:30 p.m. in the Lumby Legion Hall, Shuswap Avenue, Lumby. An agenda is enclosed.

Prior to the above meeting the six regular Water Board directors will meet at the Kelowna Airport at 10:00 a.m. June 11th for a flight over the Sugar Lake Basin. The flight will return to Kelowna and members will proceed to Vernon for lunch at approximately 12:30 p.m.

Should you be unable to participate in the flight, please inform this office, so that arrangements can be made for other interested members to substitute.

Arrangements have been made for a further meeting on June 17th, 1970 at 9:30 a.m. in Kelowna with the Federal-Provincial task group on waste treatment. The purpose of this meeting will be for the Board to exchange views with the Task Group on approaches to studies on waste treatment in the Okanagan.

Respectfully submitted

W. Parchomchuk
Secretary-Manager

WP/pp

enc.

June 3, 1970

NOTICE

A regular meeting of the Okanagan Basin Water Board will be held on Thursday June 11th, 1970, at 2:30 p.m. at the Lumby Legion Hall, Shuswap Avenue, Lumby.

An agenda is enclosed.

Respectfully submitted

W. Parchomchuk
Secretary-Manager

WP/pp

June 3, 1970

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JUNE 11, 1970 at 2:30 p.m. IN THE ROYAL
CANADIAN LEGION HALL, LUMBY, B.C.

Present: W.C. Bennett, (Chairman)
D. Pritchard, R.D.C.O.
L. Bawtree, R.D.N.O.
P. Duke, R.D.N.O.
P. Farmer, R.D.O.S.
F.D. Stuart, R.D.O.S.

J. Patterson, R.D.N.O. (Alternate)

Also in

Attendance: Dr. M. Smart, North Okanagan Health Unit
D.S. MacKay, Engineer, City of Vernon
Basil Edwards, President, Lumby Chamber of Commerce
and Agriculture
Alderman Foord
Bill Pavai, Lumby and District Wildlife Association
L.A. Haycock, President, Enderby and District
Fish and Game Protective Association
G. Morrison

Minutes: Pritchard - Farmer:

That the minutes of the meeting of May 14, 1970
be adopted as circulated.

CARRIED

Accounts: The following accounts were presented for payment:

Regional District of Central Okanagan	\$190.25
Matador Inn Ltd.,	181.25
Finley Printing Co.	68.50
Penticton Herald	16.00
Secretary-Manager expense report (May)	<u>6.50</u>
TOTAL	\$462.50

Stuart - Duke:

That the above accounts be received and paid.

CARRIED

Financial

Statements: The Secretary-Manager presented financial statements
for the first quarter ending March 31, 1970. The
bank balance on March 31, 1970 was \$1,321.91.
Revenues received from the three Regional Districts
up to that date were \$4,500.00. Expenses totaled
\$3,220.60 leaving an excess of revenue over
expense for the period of \$1,279.40.

Bawtree - Farmer:

That the financial statements be accepted.

CARRIED

Report of The Secretary-Manager reviewed the report of the
Technical Technical Committee meeting of May 27, 1970.
Committee: The report summarized the progress of various
sampling studies that are being undertaken under

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JUNE 11, 1970. 2

the terms of the Canada-British Columbia Okanagan
Basin Agreement.

Water The recommendations of the Technical Committee
Quality concerning water quality standards were presented
Standards: to the Board.

The Technical Committee recommended that the Okanagan Basin Water Board adopt the recommended water quality standards of the British Columbia Department of Health as desirable to be aimed for but that further study be undertaken before enforcement through by-laws. It was also recommended that the Water Board accept and support the statement of the Pollution Control Branch that new emissions of nutrient bearing wastes into the waters of the Okanagan Basin be prohibited. The Secretary-Manager stressed that even though information presently is not adequate to make these recommendations into a by-law the Water Board should show their intention of supporting these recommendations. The support of the Water Board would aid the controlling government agencies in their attempts to achieve the recommended standards in the field. The Secretary-Manager suggested he would write to the various agencies that use these standards as a guide and indicate the support of the Water Board.

Mayor Stuart informed that the development of water standards throughout the Province is still in its infancy. New studies are being developed for more accurate measurement of water quality; however, he suggested that the Board should support the recommendations of the Technical Committee as a local objective. Mr. Bawtree recommended that a letter be sent to the Regional Districts indicating the Boards support of the recommended water quality standards.

Recommended Bawtree - Stuart:

Water That the Water Board accept the recommendations
Quality of the Technical Committee concerning water quality
Standards standards and that the various government agencies
Adopted: be informed of the Boards support of these standards,
 and that a letter be sent to the Regional Districts
 informing them that the recommended water quality
 standards should be aimed for but the drafting
 of a by-law would be premature at this time.

CARRIED

Mayor Stuart informed that the provincial Department of Health and the Department of Municipal Affairs have been working on a draft by-law supporting the recommended water quality standards. He suggested that the Departments that recommend the water quality standards continue to draft by-laws, this would save on research time required by Regional District personnel, and the Water Board.

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JUNE 11, 1970. 3

Draft Stuart - Pritchard:
Water
Quality That the Department of Health be requested to
By-law forward a copy of a draft by-law which would
Requested: enforce the standards which they recommend.

CARRIED

DDT
Levels: Continuing his report the Secretary-Manager
 mentioned that he had written the Department
 of Health and to the Department of Agriculture
 for additional detailed information regarding
 recent press releases concerning DDT levels in
 Okanagan Fish. In a reply from Mr. Benson of the
 Department of Health, it was indicated that three
 departments are involved in the DDT analysis:
 The Department of Recreation and Conservation,
 The Department of Agriculture, and The Department
 of Health. The Committee which advises the ministers
 of these departments in respect to these matters
 is called the Interdepartmental Committee on
 Safe use of Pesticides. Recommendations for a
 further analysis of Okanagan Lake fish were based
 on the analysis of five large Rainbow Trout during
 the past few months. At the present time the
 Department of Recreation and Conservation is busy
 catching 60 more trout and these are to be taken
 from the Lakes in the Okanagan Watershed. Results
 of analysis should be available in July.

Mayor Stuart indicated that statements which had
been made regarding DDT levels in Okanagan Lake
fish were based on an inadequate number of samples.

A letter from C.L. Neilson, of the Department of
Agriculture indicated that during the period 1966
to 1970, 67 samples of water had been analyzed
in the Okanagan. The level of pesticide found
during this sampling was very much below the
DDT level set for water quality standards by the
U.S. Public Health Service in Canada and British
Columbia. Further water samples will be taken
at the main intakes of the following communities:

- (a) City of Vernon, Kalamalka Lake Intake
- (b) Coral Beach, Lake Okanagan
- (c) City of Kelowna, water intake Okanagan
Lake
- (d) West Bench Penticton Water Intake, Lake
Okanagan
- (e) City of Penticton, Mountain Water Reservoir
- (f) Kaleden, Lake Skaha
- (g) Village of Oliver, infiltration gallery-
Okanagan River
- (h) Osoyoos, Lake Osoyoos intake

Okanagan
Run-off: Reporting on the most recent run-off forecasts
 for the Okanagan Basin the Secretary-Manager
 informed that most of the snowpack had now dimin-
 ished. Creeks had reached their peak and are now
 on the decline. Much of the water was lost to
 evaporation, and ground water recharge. Okanagan
 Lake is not expected to reach the maximum agreed
 level of 102.5 feet. The June 10th, Lake level

reading was 100.74 feet. Discharge from the Lake is being kept at a minimum.

Meeting with Indian Affairs Re: Effluent Irrigation: The Secretary-Manager and two members of the Federal-Provincial Task Group on Waste Treatment had recently met with Mr. Doug Wier of the Planning Division, Department of Indian Affairs, and Chief Jim Stelkia of the Oliver Indian Band to discuss the potential and possibility of using Indian Lands throughout the Okanagan for spray irrigation systems of effluent disposal. Reserve lands in the Valley are highly suitable for such projects since these lands are the only ones available in large undeveloped tracts. There are approximately 90,000 acres of Indian Reserve Lands in the Okanagan. Mr. Wier informed that the Federal Department of Agriculture was anxious to develop irrigation projects on Indian lands and funds were available for such projects. Mr. Wier indicated that the Department of Indian Affairs would cooperate in any way possible in projects dealing with effluent spray irrigation on Indian lands, but the cooperation of the Indian people would also be required. The Indian people have shown a willingness to cooperate in such projects.

Shuswap-Okanagan Diversion Reports: The Secretary-Manager informed that several reports were out concerning Shuswap Okanagan Water Diversion Schemes. These reports can be obtained from the Water Board Office or at local libraries.

Correspondence

The following letters were read:

R.J. Buchanan Letter of Appreciation: 1. Letter from R.J. Buchanan, interim co-ordinator of the Okanagan Basin Study, thanking the Okanagan Basin Water Board on behalf of the Consultative Board and Study Committee for the hospitality and dinner sponsored by the Water Board on the occasion of the Okanagan Basin tour May 14-16th.

Similkameen Basin Studies: 2. Letter from Mr. Marr in response to a letter of May 21st raising the question of the extension into the Similkameen River Basin of studies to be carried out under the Okanagan Basin Agreement. Mr. Marr's interpretation of the Okanagan Basin Agreement was that it did not allow for studies outside the Okanagan Basin unless such areas were likely to be affected by any proposed solution to the problem in the Okanagan Basin. However, Mr. Marr would place the request for Similkameen studies before the Federal-Provincial Consultative Board for consideration.

The Secretary-Manager pointed out that the Inland Waters Branch of the Department of Energy, Mines and Resources has been sampling on the Similkameen for the past 2 years under the International Hydrologic Decade Programme. Monthly water samples for complete analysis, are taken at Princeton and Hedley. This

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JUNE 11, 1970.

5

programme is expected to continue for some time. The B.C. Fish and Wildlife Branch and the Okanagan Board of Health cooperated in setting up three additional sampling sites on the Similkameen on January 31st., 1969. These sites included the Tulameen River upstream of Princeton, the Similkameen River upstream of Princeton and the Similkameen River downstream of the Ashnola River. Sampling results obtained by the Department of Energy and Mines, the B.C. Fish and Wildlife Branch and the Okanagan Board of Health were exchanged. The Health Branch and Wildlife Branch sampling programme is expected to terminate soon. A summary of the combined results should be available this year.

Public
Meetings:

3. Letter from Mr. B.E. Marr in reply to a letter of May 21st. 1970, concerning the request by the Regional District of Columbia-Shuswap for a public hearing in Salmon Arm regarding the Okanagan Basin Study. Mr. Marr indicated that the Canada-British Columbia Consultative Board would appreciate the cooperation of the Water Board in arranging for public meetings or other forums for discussion as considered necessary to forward the aims and objects of the Okanagan Basin Study. The Board's advice on the timing, location, and form of such meetings would be most helpful to the Consultative Board. Mr. Marr suggested that a Salmon Arm meeting could be arranged through the Okanagan Basin Water Board or separately through the Columbia-Shuswap Regional District. Mr. Marr suggested that such meetings be delayed for a few months until a local office for the study is established and the study plan is more fully developed.

Mayor Stuart agreed with Mr. Marr's suggestion to delay such meetings and felt that late fall would be the earliest time when meetings would be convenient. A letter will be forwarded to the Regional District of Columbia-Shuswap indicating the Okanagan Basin Water Board's intention of cooperating with that Regional District in setting up public meetings.

Penticton
Brief:

4. Letter from the City of Penticton with an accompanying brief requesting funds under the Canada British Columbia Okanagan Basin Agreement to assist in a pilot plant study of advanced waste treatment for municipal sewage effluent and a phosphorus removal study of Skaha Lake. Mayor Stuart indicated that it was highly desirable to use Skaha Lake for such a study since this lake represented a situation in nature which was very close to a laboratory experiment. Several base line studies have already been done in the past. Changes in nutrient level could be measured against those levels which had been recorded in past studies. This is an ideal opportunity to study the effects on a lake of phosphorus removal.

Pritchard - Farmer:

That the above brief be forwarded to the Canada
British Columbia Consultative Board for consideration.

CARRIED

Brandt's
Creek
Agreement:

5. Letter from E.F. Lawrence, Director of
Operations, City of Kelowna and member of
the Brandt's Creek Study Committee along with
enclosed agreement to be executed between the
firm of Cornell, Howland, Hayes and Merryfeld
and the Brandt's Creek Pollution Abatement
Committee. It was anticipated that copies
of the enclosed agreements would be forwarded
for execution by the Federal-Provincial Study
Committee. The Brandt's Creek Committee
has neither the funds nor the authority to make
the enclosed agreement binding.

Stuart - Bawtree:

That the Brandt's Creek Study Agreements and a
covering letter be forwarded to the Consultative
Board for further consideration and that recommen-
dations be made that a study of Brandt's Creek
be continued.

CARRIED

Meeting
With
Task Group
on Waste
Treatment:

The Secretary-Manager informed that a meeting
between the Water Board and the Federal-Provincial
Task Group on Waste Treatment would be held in
the offices of the Regional District of Central
Okanagan on June 17th at 9:30 a.m. The purpose
of the meeting would be for the Task Group and
the Water Board to exchange views on the approach
to studies of waste treatment in the Okanagan.

Canadian
Water
Resources
Association
Meeting:

The Board's attention was drawn to a meeting
scheduled for July 17th of the Canadian Water
Resources Association in the Pilgrim House,
Penticton, B.C. The morning session will be
devoted largely to business. In the afternoon
a lecture on tertiary treatment will be given
and a film, "The New Columbia," will be shown.
A panel discussion on the Okanagan Basin Study
will follow. Mr. R.G. Williston will be guest
speaker at the evening banquet. Registration
fee is \$5.00.

Bawtree - Pritchard:

That the Okanagan Basin Water Board pay the necessary
fees to send representatives to the Penticton
meeting.

CARRIED

Other Business

Naramata
Water
Supply:

Mr. Farmer said that he had recently attended a
meeting in Kelowna sponsored by the local Health
Unit. The algae problem in the Naramata Domestic
Water Supply System was discussed. It was believed

that cattle were contributing to this problem; however, Forestry officials contended that cattle are no longer allowed in that watershed. Dr. Clarke had suggested that \$300 be contributed by the Water Board or a similar organization to hire a student to look into the problem. The Chairman suggested that the Lakeview Irrigation District be consulted for details on how they overcame a similar problem in the Rose Valley Dam. Mayor Stuart informed that Dr. Stockner who is a leading Canadian Limnologist will be in Penticton on July 14th and could probably take an on the sight investigation of the Naramata algae problem. This was agreeable to the Board. Mayor Stuart and Mr. Farmer will make arrangements to have Dr. Stockner view the Naramata Watershed problem.

Stuart - Pritchard:

Letter of	That the Water Board write a letter to the
Thanks to	Lumby and District Chamber of Commerce and
Lumby & Dist.	Agriculture thanking them for the aeroplane
Chamb. of Com.	tour of the Shuswap Basin and for hosting
& Agric.:	the afternoon meeting.

CARRIED

Briefs

The Chairman called on Mayor P. Duke to introduce members of the Lumby Chamber of Commerce and Agriculture and the local Fish and Wildlife Associations who had prepared briefs to present to the Water Board.

Mayor Duke stated that the Lumby area has been concerned over the location of Diversion proposals ever since such proposals were first initiated. The proposal of an alternative scheme for water diversion through the Lumby area had previously been presented to the Deputy Minister of Water Resources.

Edwards	Mr. Basil Edwards, President of the Lumby and
Lumby &	District Chamber of Commerce and Agriculture
Distr. Cham.	presented the first brief wherein the Lumby Chamber
of Com. &	of Commerce and Agriculture stressed that Sugar
Agric.:	Lake and only Sugar Lake be utilized as a storage

basin for any water diversion. A Sugar Lake storage dam would have the advantage of flood control on the Shuswap River south of Mable Lake and it would also be a contributing factor in control of flooding of the Lower Fraser Valley. Another advantage of a proposed storage site on Sugar Lake would be the provision of storage water for irrigation of large tracts of agricultural land immediately below Sugar Lake. In 5 years it is expected that there will be over 15,000 acres of cultivated land in the area requiring irrigation. It was proposed that the water stored in Sugar

Lake be brought down to the Shuswap Falls up Bassette Creek Valley to Lumby and from Lumby to Kalamalka and Okanagan Lakes.

In the discussion which followed it was indicated that such a project might be quite costly.

Foord
Flood
Control
For
Farmland:

A second brief was presented by Alderman Foord on behalf of W.J. Tolley a landowner below Shuswap Falls. Mr. Foord indicated that there is 1,520 acres of cleared land in crop in the Valley south of Mable Lake and there is another 1,355 acres that could be cleared and put into crop if the river was controlled with a dam at Sugar Lake. There is another 2,000 acres of grazing land. The land in the valley south of Mable Lake is valued at \$1,940,000. Mr. Foord said that it would be a tragic mistake to flood good land on Mable Lake when the water could be controlled by storage in Sugar Lake.

Paval
Lumby &
District
Wildlife
Associa-
tion:

A third brief was presented by Mr. Bill Paval on behalf of the Lumby and District Wildlife Association. The Wildlife Association is opposed to any damming and diversion of water due to the unknown effects it may have on wildlife and recreational values. Also in view of the fact that much of the agricultural land in B.C. is being converted to commercial and residential properties there is a need for the remaining agricultural land to be utilized to support increasing population. Therefore it was suggested that the waters of the Shuswap be used first in the Lumby area on agricultural land before any diversion be considered.

Haycock
Enderby &
Distr. Fish
& Game
Protective
Association:

A fourth brief was presented by Mr. L.A. Haycock, President of the Enderby and District Fish and Game Protective Association. The Enderby and District Fish and Game Protective Association are opposed to the building of any dam on the Shuswap River above Enderby or at Mable Lake. It was felt that this would ruin the Salmon spawning beds and sport fishing areas. It was suggested that the logical source of supply for good clean water suitable for both domestic as well as irrigation purposes would be Sugar Lake. The vast supply of water from the Sugar Lake area would be more than enough to meet the required needs of the Okanagan. It was felt that a holding reservoir at Sugar Lake would help control flood conditions in the Shuswap River Valley and would in no way harm the present game and fish habitation.

Morrison
Recreation:

A fifth brief presented by Mr. George Morrison was opposed to the damming of Mable Lake because of the adverse effects it may have on recreation facilities in the area and damage to sockeye and kokanee spawning runs.

Mayor Duke indicated that the purpose of the briefs and tour were to get the Board visually acquainted with the whole Lumby area. Lumby itself would require a large amount of irrigation water in future years.

Mayor Stuart pointed out that the proposed diversion schemes suggest that only a portion of the flood waters be diverted. This would not be a continual diversion. The large amount of available water in the Shuswap drainage could never be used in the ultimate future in the Okanagan, Shuswap, and Thompson areas combined. Mayor Stuart stressed that any scheme must include the protection of fish and wildlife.

Mara Lake Scheme: Mr. Bawtree mentioned a diversion scheme from Mara Lake which had been proposed by the Federal Department of Fisheries. Under this scheme no dams would be required, and fisheries would not be affected.

Opportunity/ for Later Discussion: Mayor Stuart confirmed that diversion schemes suggested so far were only proposals. A complete study would be done before any proposals are undertaken. Before any measures are implemented there will be ample opportunity for all people concerned to discuss the various recommendations. The Okanagan Basin Water Board will act as a liason.

The Chairman thanked all those who submitted briefs to the Water Board. Briefs would be considered and forwarded to the Canada-British Columbia Consultative Board which is responsible for administering the Okanagan Basin Study.

The Lumby Chamber of Commerce and Agriculture were thanked for arranging the meeting and tour of the Shuswap Basin.

Mr. Edwards thanked the Board for coming to meet in Lumby.

The meeting adjourned at 4:30 p.m.

The next meeting of the Okanagan Basin Water Board will be held on July 9th, 1970. .

OKANAGAN BASIN WATER BOARD

AGENDA

July 9, 1970 - 2:00 p.m.

1. Minutes from meeting of June 11, 1970.

2. Accounts and financial statements.

3. Correspondence:

(a) City of Kelowna - Non-voting observer to the
Water Board

(b) -J.D. Baird, Deputy Minister of Municipal Affairs,
-K.I.G. Benson, Assistant Provincial Health Officer
-Regional District of Okanagan-Similkameen
re: Recommended Water Quality Standards

(c) Thompson-Nicola Regional District-Re: public
meetings

(d) Canada-British Columbia Consultative Board
re: Brandt's Creek Study

4. Other Business:

(a) Application for Pollution Control Permit -
Similkameen Mining Company Ltd.,

(b) Pulp Mill Report.

- Appl. of Murray Thompson
- Aug meeting, 1. 11 skipped
- 1 with. holidays

- brief report of -

- report to the Board - 1st
group

- there is delay
no report yet

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD JULY 9, 1970, at 2:00 p.m. IN THE OFFICES OF THE
REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 Groves
Avenue, KELOWNA, B.C.

Present: W.C. Bennett, (Chairman)
W.J.C. Kane, R.D.C.O.
L. Bawtree, R.D.N.O.
S. Stodola, R.D.O.S.

Also in

Attendance: Mayor Wm. Halina, City of Vernon
Mayor H. Roth, City of Kelowna
B.J. Swarder, (Chairman) R.D.N.O.
J.C. Mehain, (Administrator) R.D.N.O.
E.F. Lawrence, Director of Operations, City of Kelowna
Bob Jimson, Manager of Engineering, Crown Zellerbach Ltd.
Earl Popham, Kelowna Fish & Game
D. Hill, Kelowna Fish & Game
Mr. Greenway

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald, Capital
News, CKOK Radio

Mr. Swarder, Chairman of the Regional District
of North Okanagan, was appointed a voting member to
this meeting.

Minutes: Bawtree - Swarder:

That the minutes of the meeting of June 11, 1970 be
adopted as circulated.

CARRIED

Financial The Secretary-Manager presented the financial
Statements statements of the Water Board for the six month
Six Month period, ended June 30, 1970.
Period:

Swarder - Stodola:

That the financial statements be received as presented.

CARRIED

Mr. Swarder pointed out that the Regional District
of North Okanagan had already paid over 65% of that
Regional Districts Water Board assessment and therefore
suggested that an adjustment be made in that Regions
next payment until the other Regional Districts were
caught up in their payments.

Accounts: The following accounts were presented for payment:

Regional District of Central Okanagan	\$213.64
National Hotel, Vernon	11.05
Louisiana Tech Alumni Foundation	15.00
Secretary-Manager expense report (June)	<u>11.56</u>
TOTAL	\$251.25

Sworder - Stodola:

That the above accounts be paid.

CARRIED

Correspondence

The following letters were read:

- Mayor Roth 1. Letter from the City of Kelowna appointing Mayor
Observer: Hilbert Roth as non-voting observer to the Okanagan
Basin Water Board, replacing W.J.C. Kane who filled
this position in the past.
- J.D. Baird 2. Letter from J.D. Baird, Deputy Minister, Depart-
Re: Quality ment of Municipal Affairs, thanking the Board
Standards: for the letter of June 19, wherein the Water
Board had indicated its support of various
recommended water quality standards.
- K.I.G. 3. Letter from K.I.G. Benson, Assistant Provincial
Benson Health Officer thanking the Water Board for their
Re:Quality support of the recommended water quality standards
Standards: and helping to maintain the quality of drinking water
and recreational water in the Okanagan. Mr. Benson
felt that the Board could maintain the water quality
in the Okanagan by working with the Directors of the
North and South Okanagan Health Units.
- Reg. Distr.4. Letter from the Regional District of Okanagan-
of Okan.- Similkameen thanking the Board for their letter of
Similk. Re: June 19, 1970 regarding recommended water quality
Quality standards. The Regional District of Okanagan-Similka-
Standards: meen would like to receive a draft copy of a water
quality by-law as soon as it becomes available.
- Public 5. Letter from the Thompson-Nicola Regional District
Meetings: in reply to a Water Board letter of June 18, regarding
the possibility of public meetings to discuss the
joint Federal-Provincial Okanagan Basin Study.
The Thompson-Nicola Regional District unanimously
agreed to authorize representatives of their district
to attend any joint meetings.
- Brandt's 6. Letter from the Canada-British Columbia Consulta-
Creek: tive Board informing that it had been decided not to
include the Brandt's Creek Investigation within the
Okanagan Basin Study. It was the Consultative Board's
opinion that an engineering study of this nature would
be of limited value in developing a comprehensive
framework plan as envisaged under the agreement.
The Consultative Board suggested that discussions
between the Municipality and local industries could
lead to a structural solution to the problem.

Mr. Swarder said that he understood that any
studies in the Okanagan Basin pertaining to water
quality and water quantity would be included under
the terms of the Okanagan Basin Agreement.

Mayor Roth expressed disappointment that the

study was not included under the terms of the Okanagan Basin Agreement, especially when it had been his understanding that such a study was desirable to be undertaken and that strong indications had been shown that this study would receive Federal-Provincial support. A total of \$6,000 has already been spent on the study. The City of Kelowna has contributed \$3,000.00 of the above amount. The study would now have to be halted and funds spent on the study to date would in effect be wasted.

Mayor Roth recommended that a letter be sent to the Canada-British Columbia Consultative Board expressing disappointment in their decision to exclude the Brandt's Creek Study from the Okanagan Basin Agreement and to ask for further details and clarification why this study was not included.

Sworder - Kane:

That a letter be sent to the Canada-British Columbia Consultative Board and a copy to the Honourable R.G. Williston expressing the Board's disappointment in the decision not to include the Brandt's Creek Study under the Okanagan Basin Agreement, and to ask for further details on why the study was not included under this plan, and to mention that other creeks with similar problems would require studies similar in nature to the Brandt's Creek Investigation; and that a request be made to reconsider the decision regarding Brandt's Creek.

CARRIED

Other Business

Pollution Control Application (Princeton): An application for a permit under the Pollution Control Act by the Similkameen Mining Co. Ltd. was presented to the Board for their information. The application was for a permit to discharge sanitary sewage effluent from septic tanks, serving the construction camp and mining complex located about 10 miles south of Princeton, into a subsurface ground disposal system. The average 24 hour discharge would be 11,600 imperial gallons daily throughout a continuous operating season.

Kraft Pulp Mill Report: The Secretary-Manager presented a report which he had prepared on the effects of the kraft pulp industry on water and air quality. The report includes a description of the kraft pulping process and goes on to describe the various chemical emissions to water and air, and their various effects on the environment. Information on the water requirements of kraft mills is also included. Some comments on the feasibility of a kraft mill in the Okanagan are mentioned.

Mayor Roth suggested that the Water Board should visit a pulp mill to see first hand some of the problems that such mills could create in the Okanagan. Mayor Roth felt that the Okanagan was definitely not a suitable area for a pulp mill.

Mayor Halina indicated that it was not possible to have all types of industries in the Valley. He said that the Okanagan should not be spoiled by industries bearing a heavy pollution load. The environment of the Okanagan should be kept clean for those wishing to come and spend holidays and relax. The establishment of industries emitting wastes to water and air would only add to difficulties presently faced in the Okanagan.

The Secretary-Manager mentioned that starting on August 11 an inquiry into the B.C. Forest Industry sponsored by the Department of Lands, Forests, and Water Resources would be held in Vancouver. At this inquiry the Minister of Lands, Forests, and Water Resources and the Director of Pollution Control would be receiving suggestions regarding the forest industry in the Province. Both industry and the public would be able to present briefs concerning the industry with special reference to pollutional aspects. This would be an opportunity for the Water Board to present any objections they may have concerning the forest industry in the Okanagan.

The Chairman asked the Water Board whether they wished to make a submission to the inquiry into the forest industry and whether the report or the Secretary-Manager on the kraft pulp industry could be submitted to the inquiry.

Mr. Stodola suggested that the Water Board should take some position on the proposed establishment of a pulp mill in the Okanagan. He felt that most people in the Okanagan generally were opposed to the establishment of a pulp mill. The views of the people in the Okanagan should be expressed at the inquiry.

Stodola - Swarder:

Pulp Mill That the report of the Secretary-Manager on the
Report to effects of kraft pulp mills on water and air be sub-
be submitted/ mitted along with a covering letter to the Department
to Inquiry: of Lands, Forests, and Water Resources for their in-
 quiry into the forest industry, and that the Water
 Board's objection to the establishment of a pulp
 mill within the Okanagan Mainline area also be stated.

CARRIED

Study The Secretary-Manager drew the Board's atten-
Director tion to recent news releases indicating that a study
Appointed: director had been appointed for the Okanagan Basin
 Study. There was a possibility that the Director's
 office could be located in Kelowna.

Mission The Secretary-Manager reported that he had
Creek recently toured various storage reservoirs in the
Storage: Mission Creek drainage with engineers under the
 ARDA project. The storage capacity on several of the
 reservoirs will be increased and some new dams on
 smaller lakes will be constructed.

Mr. Swarder suggested that the Water Board should

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER
BOARD HELD JULY 9, 1970. 5

continue to look closely into the water quantity problem of the Okanagan Basin.

Mr. Bawtree recommended that the Water Board write to the Water Resources Service concerning the proposed Shuswap diversion and ask their opinion concerning the Department of Fisheries alternative proposal of pumping water directly out of Mara Lake rather than constructing dams for diversions on the Shuswap. The Water Board should ask for comments on this proposal from the Engineering Division.

Bawtree - Kane:

Dept. of Fisheries
Mara Lake
Diversion
Proposal: That a letter be forwarded to the Water Resources Service asking for comments on the fisheries proposal of a direct diversion out of Mara Lake and also that comments on the total report of the Department of Fisheries on the Shuswap diversion be requested.

CARRIED

The Chairman felt that residents in the Thompson River area were not entirely opposed to the diversion of Shuswap water if it were to be used for irrigation and other beneficial uses, and not merely to dilute lake pollution.

Holiday
Secretary-
Manager: The Secretary-Manager requested to take one week of his holidays during the summer season.

Bawtree- Kane:

That the Chairman and the Secretary-Manager arrange for the Secretary-Manager's holiday when least disruption would occur in the office.

CARRIED

Owing to increased activity in the Okanagan during the summer period when the Penticton Peach Festival and Kelowna R gatta are held the Chairman suggested that the August meeting not be held.

August
Meeting
Cancelled: Sworder - Stodola:
That no Water Board meeting be held in August except if a situation should arise where the Chairman feels that a meeting would be necessary.

CARRIED

The meeting adjourned at 3:45 p.m.

Next
Meeting: The next meeting of the Water Board will be held in Vernon in the City Council Chambers on September 3, 1970.

Secretary-Manager

Chairman

OKANAGAN BASIN WATER BOARD

AGENDA

September 3, 1970 - 2:00 p.m.

1. Minutes from meeting of July 9, 1970.
2. Accounts.
3. Water Board Assessment.
4. Office rental agreement.
5. Report of Secretary-Manager:
6. Correspondence:
 - 1 (a) - Hon. R. Williston - Brandt's Creek Water Study
 - 2 - B.E. Marr - Brandt's Creek Water Study
 - 3 - Dr. A.T. Prince - Brandt's Creek Water Study
 - 4 (b) T.A.J. Leach - re: alternate diversion schemes
 - 5 (c) W.N. Venables - re: nutrient bearing wastes.
 - 6 (d) Kelowna & District Branch, Canadian Scientific
Pollution and Environmental Control Society -
support of report on kraft pulp mills.
-information on valley studies
 - 7 (e) Mrs. D.J. Williams- Castlegar - re: pulp mill
 - 8 (f) S.L. Ewing - re: Okanagan Lake water level
 - 9 (g) E.F. Lawrence, City of Kelowna -disposal of oil
by Myer Franks Ltd.
 - 10 (h) E.F. Lawrence, City of Kelowna -re: cattle feed
lots
 - 11 (i) Hon. R. Williston - Function of Okanagan Basin
Water Board
7. Applications for Pollution Control Permits:
 - (a) Trent Resources Ltd. - Olalla, B.C.
 - (b) Corporation of the Village of Princeton
 - (c) Corporation of the City of Enderby
 - (d) Corporation of the Village of Osoyoos
 - (e) *VERNON POLLUTION CONTROL PERMITS*
8. Other Business:

Committee meeting to follow.

(6)

Pollution Control Inquiry Into the Forest Products Industry (Aug 11-28)

- 39 submissions in total

- The inquiry was held to resolve what technical considerations and measures must be provided by the forest products industry for control of discharges to water and/or land and/or air to satisfactorily ensure pollution will not be caused in accordance with the pollution Control Act.
- The testimony submitted will be reviewed and all pertinent information will be used in establishing consistent and reasonable objectives for waste treatment control and disposal for the industry
- Similar inquiries may be held for other industries as well.

- Mr. W. N. Veneble was Chairman (assisted by the legal council of E.C. Pearson - Barrister)

Panel of Experts:

- (1) A.J. Chmielewski
- Chief Indust. Div. of Pol. Contr. Bd.
- (2) F.E. Murray
- Head of Dept. of Chem Engrg. U.B.C.
- (3) Mrs E. Ostapchuk
- Sociology U. of Toronto
- (4) Dr. J.H. Smith
- Director of the Div. of Occupational Health B.C.
- (5) ^{Professor} R.O. Sylvester
- Head of the Division of Water & Air Resource Engineering U. of Wash.
- (6) J.M. Reister
- Consultant associated consulting engineers & economists - national & international.
- (7) Dr. C.C. Malden
- Head of the Division of Applied Biology B.C. Research

- having carried out in a very formal & legal tone.

- Testimony had to be based on fact. The source of evidence had to be firm.
- Panel was quick to pick out weak evidence or statements based on assumptions.
- Cross-examination by the panel was often intense & long in an attempt to come to grips with what public groups presenting briefs felt should be done about pollution problems in the forest industry.
- Representatives were often asked to make value judgements.
- When making statements about aesthetic values or poor water, representatives were asked how much value should be placed on aesthetics in B.C., or how many units of color water should have.
- Many questions from the panel appeared to be searching for objectives or standards to aim for. It was hoped that representative answering some of the specific queries would relay public opinion to the inquiry.

some of the specific queries would relay public opinion to the inquiry.

- In the end when talk abt cleaner water or air, a number must be placed on the level of purity desired in specific instances
- Specific information on emissions from named mills was presented. Fish kills & data & photos presented as evidence.
- Council of Forest Industries brief was criticized by the Director of Pollution Control because it did not present specific factual information.
- It dealt more in broad general terms
- Questions on specific mill emissions could not be answered.
- Forest industry realizes there is a problem & wish to solve it in time
- Have admitted certain wastes cannot be entirely eliminated
- Caribou Lumber Manufacturers Association desire to eliminate burners after 5 yrs.

- Other briefs from outside valley mentioned Okanogan as an undesirable location for P. mills.
- This was largely result of editorial in the province supporting the Water Boards decision.
- Even Council of Forest Industries mentioned Okanogan as unsuitable for waste disposal.

* - In his opening remarks the Director indicated the Regional Districts are not precluded from taking a stand for or against an application.

This position will be honoured.

- application is 1st endorsed by the Regional Districts so it does not contravene by-laws.

(took opportunity for regional districts to control new application for pollution control permits in this area)

=
- Convinced that any thought of P. mill in the Okanogan would be ~~seriously~~ ^{seriously} dealt with. Pollution control measures required would ^{possibly} make it economically unfeasible.

measures required would "make it economically unfeasible."

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD SEPTEMBER 3, 1970, AT 2:00 p.m. IN THE CITY OF
VERNON COUNCIL CHAMBERS, VERNON, B.C.

Present: W.C. Bennett Chairman
W.J.C. Kane R.D.C.O.
L. Bawtree R.D.N.O.
P. Duke R.D.N.O.
S.T. Stodola R.D.O.S.
F.D. Stuart R.D.O.S.

Also in
Attendance:

Mayor Wm. Malina City of Vernon
Mayor H. Roth City of Kelowna
P. Farmer, Chairman, R.D.O.S.
E.F. Lawrence Director of Operations,
City of Kelowna
Brian Harvey Manager, Vernon Irrigation
District
B.J. Sworder Chairman, R.D.N.O.
E.D. Anthony District Engineer, Water
Rights Branch
Jack Botham Water Rights Branch

Press and Radio:

Vernon News, CKOV Radio

Minutes: Bawtree - Stodola:

That the minutes of the meeting of July 9, 1970 be
adopted as circulated.

CARRIED

Accounts; The following accounts were presented for payment:

Regional District of Central Okanagan	363.50
Okanagan Stationers	3.23
Secretary-Manager Expenses(July 1 to August 31) \$126.28 Less advance \$100.80=	<u>25.48</u>
Total	\$392.21

Kane - Stodola:

That the above accounts be paid.

CARRIED

Water Board Assessments and remittances to September 3, 1970 of
the three Regional Districts comprising the Okanagan
Assessment:Basin Water Board were as follows:

	Water Board Assessment 1970	Remittance to Sept. 3, 1970	Paid Portion
R.D.O.S.	6,299	6,299	100%
R.D.N.O.	4,442	3,000	68%
R.D.C.O.	8,259	5,616	68%

Office Lease Agreement: Since the office lease agreement between the Regional
District of Central Okanagan and the Okanagan Basin
Water Board had expired in June 1970, a new lease was
drawn up. The new lease covers a term of 21 months
commencing on June 13, 1970, yielding during that period
a monthly rental of \$160.00 which will include stenographic

services up to a value of \$100.00 a month. The terms of the new lease agreement are essentially the same as those for the prior six month lease agreement except that the new agreement will extend for a duration of 21 months and provision is made to review the rate charged for stenographic services every six months. The rate may from time to time be adjusted to a rate mutually agreed upon by the Secretary-Treasurer of the Regional District and the Secretary-Manager of the Water Board.

Kane - Duke:

That the lease agreement be accepted and signed by the Water Board.

CARRIED

Report of
the Secretary-
Manager: The Secretary-Manager reviewed the published and unpublished data that was available from the water survey of Canada indicating stream flows and lake levels. Much of the data since 1967 is still un-published. Records indicate that Okanagan Lake levels during the month of August 1970 were at the lowest level for that month since the period of record starting 1943. On September 1st, 1970 the elevation of Okanagan Lake was 1,121.04 feet. This is 1.15 feet lower than last year. The lowest level recorded for September 1st in the period of record starting 1943 was 1,121.08 feet. This year the lake is .04 feet lower than this record for September 1st. However, the lake is still considerably above the agreed minimum level of 1,119.79 feet elevation.

Extreme minimum lake levels usually occur in the month of April. The extreme minimum level recorded since 1928 was 1,119.56 feet on April 15, 1962. The lake level as of September 1st, 1970 was 1.48 feet above this minimum.

The level of Kalamalka Lake on August 31, 1970 was 1,283.98 feet, this is .83 feet lower than last year. The extreme minimum recorded on Kalamalka Lake was 1,283.68 feet on October 12, 1958. As of August 31, 1970 the level of Kalamalka Lake was .30 feet above this extreme minimum. The range in levels of Kalamalka Lake is only 1.59 feet.

The flow in the Similkameen River at Hedley as of August 12, 1970 was 231 cubic feet per second. This is 83 C.F.S. less than last year. The extreme minimum flow recorded at this station was 201 C.F.S. on September 10, 1966. The period of record at this station started in 1965. As of August 12, 1970 the Similkameen River flow was only 30 C.F.S. above the extreme minimum.

Most irrigation districts in the valley will close between September 10th and 15th. Storage reservoirs will be virtually depleted at that time. The districts have had just enough water for this year. Very little surplus is left for hold-over storage.

During a period of peak use the Black Mountain Irrigation District released 1,300 acre feet of water per week. Only about 650 acre feet of this water reached the intakes, the remainder was lost to seepage and

evaporation during hot weather.

During the first week of August, 375 C.F.S. of water was released into the Okanagan River. This rate of release is relatively high and was due to heavy consumption downstream to Osoyoos Lake.

Records on creek flows during the summer months are not very meaningful since the flow is almost entirely controlled by storage reservoirs. The level of Okanagan Lake is probably the best indicator of the water situation within the Okanagan.

Several reasons for lower levels in Okanagan Lake are: below average snow pack, losses to ground water, wind evaporation in the spring, heavy irrigation consumption during the summer and retention of much of the water in the mountain reservoirs thereby depleting overflow from these reservoirs into the lake.

A heavy snow pack during the winter of 1970-71 will be required to bring storage reservoirs up to their maximum levels again.

Mr. Kane inquired whether any research had been done to control evaporation losses by using an oil film on water surfaces. The Secretary-Manager indicated that this technique as well as pumice blocks were being used on some of the smaller reservoirs in the dryer areas of the United States on an experimental basis. Mayor Stuart pointed out that these techniques were still in the development stage.

Okanagan
Basin
Study-
Study
Director:

The Secretary-Manager had discussed the progress of the Okanagan Basin Study with the study Director, Mr. Murray Thompson. Mr. Thompson has set up his office and limnology laboratory in Penticton.

The task forces which were appointed by the Okanagan Basin Study Committee in the spring have now made their recommendations to the Study Committee and will be retained only on a consultative basis. Various government agencies are now responsible for administering each task in the Study. The Pollution Control Branch will administer the water quality and waste treatment portion of the study under Mr. M. Slezak. The Water Investigations Branch will be responsible for water quantity. The Fisheries Research Board of Canada will administer the limnology studies and Mr. Thomas of the Water Rights Branch and Dr. J. O'Riordan of the Department of Energy Mines and Resources will investigate the social-economic aspects of the study.

A schedule of all projects to be undertaken in the study have been drawn up. The study is approximately 2 months behind schedule. Some projects will be finished by the end of this year; for example, chemical limnology, physical limnology, lake nutrient balance studies and seismic explorations should be finished soon.

Mr. Thomas and Mr. O'Riordan of the social-economic task group will be in the valley in mid-September and will contact the Secretary-Manager and Chairman of the Water Board for an informal meeting. This group wishes to acquire individual opinions and come up with a common

approach. Existing land use and water use will be studied by this group also.

The co-chairmen of the Canada-British Columbia Consultative Board, Dr. Prince and Mr. Marr will visit the valley early this fall.

Contact
Service
Clubs &
Councils:

The Secretary-Manager mentioned that he wished to make appointments to meet with service clubs, councils and other public organizations in the valley to speak on water resources and the Okanagan Basin Water Board. The Secretary-Manager asked members if they would contact him if they knew of any service clubs and public organizations in their area who were interested in having a water board discussion at one of their regular meetings.

Lysimeter
Study:

A soil lysimeter study will be set up this fall to study the results of effluent spray irrigation on land. This will be a laboratory type of study using large soil cores gathered near Vernon, Osoyoos and Kelowna. \$8,000 has been allocated to this portion of the study.

Limnology
Study:

The Secretary-Manager had discussed the limnology aspects of the Okanagan Basin Study with Dr. Stockner who is responsible for research in this field. \$250,000 has been allocated to the limnology portion of the study. Dr. Stockner is employed by the Fisheries Research Board of Canada. He will be resident in Penticton during the study.

The first phase of the study involved an analysis of algae growth in samples of lake water taken from separate areas in the Okanagan. The growth of algae has been observed in various types of media. This portion of the study should be completed by fall. The second phase of the study will involve a complete sampling analysis along prescribed transects within the Okanagan Lake system. Measurements of light, nutrients, temperature and all physical and chemical parameters will be taken and results correlated. A dry run of the sampling procedure will be done in mid-September of this year to prepare for the actual sampling programme to commence in the spring of 1971.

Mayor Stuart informed the Board that Dr. Stockner would be speaking to a U.B.C.M. meeting in the Penticton Peach Bowl on Wednesday, September 16 at 3:00 p.m.

Kalamalka
Lake
Protection:

Continuing his report, the Secretary-Manager indicated that Dr. Stockner is interested in determining factors causing the clarity and unique coloration of Kalamalka Lake. Chemical and core samples will be analyzed from the Lake and compared with other lakes in the system, to yield some important information on factors causing variation in water quality.

Scientists familiar with lake studies have remarked on the uniqueness of Kalamalka Lake. It is felt that the colouring of this lake ranks it as one of the finest, not only in Canada, but in all of North America. An

awareness must be created that this is not merely another lake but it is a rare type of lake and special protective measures are warranted to preserve its aesthetic value.

Presently the Pollution Control Act does not allow special consideration for unique bodies of water in B.C. except through recommendations received from other Departments such as the Department of Recreation & Conservation.

The Secretary-Manager suggested that a letter be forwarded to the Department of Recreation & Conservation asking that special consideration be given to Kalamalka Lake when Pollution Control permits for discharges into streams tributary to the lake are reviewed.

The Board agreed that a letter should be forwarded to the Department of Recreation & Conservation asking for special consideration of Kalamalka Lake.

Lake
Access:

The Secretary-Manager drew the Board's attention to the lack of public access on the south and west sides of Kalamalka Lake. Additional access was considered to be undesirable at this time.

Mr. Kane questioned whether the \$250,000 spent on the limnology portion of the study would have a direct benefit to the Okanagan or whether results would apply to other areas as well. He pointed out that a relatively large portion of the study funds were allocated to the limnology aspects of the study. He felt that the Okanagan may not be getting as much direct benefit from this study as was indicated. Studies of a more practical and local nature are required to solve the problems in the Okanagan.

Pollution
Control
Inquiry:

The Secretary-Manager reviewed the high-lights of the proceedings of the Pollution Control Inquiry into the Forest Products Industry held August 11-21, 1970. The Secretary-Manager had attended the first 3 days of this inquiry. The inquiry was held to resolve what technical considerations and measures must be provided by the Forest Products Industry for control of discharges to water, to land, and to air to satisfactorily insure that pollution will not be caused in accordance with the Pollution Control Act.

The testimony submitted to the inquiry will be reviewed and all pertinent information will be used in establishing consistent and reasonable objectives for waste treatment control and disposal for the industry.

Other briefs submitted to the inquiry even from outside the valley were of the opinion that pulp mills should not be constructed in the Okanagan Valley.

In his opening remarks to the inquiry the Director of Pollution Control stated that he would honour any by-laws of the Regional Districts in relation to pollution control.

Mr. Kane pointed out that under the Pollution Control Act the Director does not have to honour any local by-laws and questioned whether in fact these

by-laws would be honoured.

Listening to the proceedings of the inquiry, the Secretary-Manager felt convinced that any suggestion of a pulp mill in the Okanagan would be strongly dealt with. Pollution control measures required would probably make it economically unfeasible to locate a pulp mill in the Okanagan.

Correspondence:

The following letters were read:

- Hon. R. Williston
Re: Brandt's Creek
1. Letter from the Hon. Ray Williston, Minister of Lands, Forests and Water Resources in reply to a letter of July 13 requesting reconsideration of the Brandt's Creek Water Study. Mr. Williston felt that the priority of problems to be investigated should be decided by the joint Federal-Provincial bodies that have been formed under the Okanagan Study Agreement. He did not believe that any prior decision by the Province had been made regarding the Brandt's Creek Investigation.
- B.E. Marr
Re: Brandt's Creek
2. Letter from Mr. B.E. Marr, co-chairman of the Canada-British Columbia Consultative Board. Mr. Marr acknowledged the Board's request for reconsideration of the decision not to proceed with the Brandt's Creek study. He said that this would be discussed at the next meeting of the Consultative Board. Mr. Marr went on to say that orders had been issued by the Pollution Control Branch with respect to industrial discharges to Brandt's Creek and that compliance with these orders would cause major improvement in water quality.
- Dr. A.T. Prince
Re: Brandt's Creek
3. Letter from Dr. A.T. Prince, co-chairman of the Canada-British Columbia Consultative Board. Dr. Prince stated that there had been no prior commitment to include the Brandt's Creek proposal within the terms of the Canada-British Columbia agreement of October 29, 1969. If there was a commitment it was only to consider inclusion of the proposal. Brandt's Creek has been identified as a local problem no different from other small creeks receiving untreated wastes. No special research component was involved which would advance technology in terms of waste treatment. The Consultative Board has the interests of the entire Basin within its terms of reference.

Bawtree - Duke:

That the above letters from the Hon. R. Williston, B.E. Marr, and Dr. A.T. Prince be received and filed.

CARRIED

Mayor Roth informed that the City of Kelowna and industry were proceeding with the Brandt's Creek Study without the aid of the Federal and Provincial Governments.

Mr. Lawrence added that regardless of the contents of the above letters there was ample indication given in the past that the Brandt's Creek Study would be assisted by the Federal and Provincial Governments when the co-operative framework was established. The solution

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD SEPTEMBER 3, 1970.

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to the problem is not as obvious as indicated.

Mr. Kane stated that he felt the Okanagan Basin Study was not specific enough to the problems of the Okanagan.

Mayor Stuart commented that ample information is available, but answers are scarce.

Mr. Lawrence felt there should be more local communication with the Okanagan Basin Study Groups.

The Chairman suggested that another meeting with the Consultative Board or representatives of the Board would be beneficial at this time.

T.A.J. 4. Letter from T.A.J. Leach, of the Water Investigations
Leach Branch in reply to the Water Board letter of July 16
Re: requesting comments concerning the Department of Fisheries
Diversion proposal for pumping water out of Mara Lake as outlined
Studies: in the report on Fisheries Problems Associated with the
Proposed Diversion of Water from Shuswap River to Okanagan
Lake. Also comments on the high cost of Sugar Lake and
Shuswap Falls diversions were asked for at that time.
Mr. Leach felt that it was premature for comments since
the Okanagan Basin Study Committee will be reviewing
the various reports prepared to date.

W.N. Venables 5. Letter from W.N. Venables, Director of the
Re:Nutrient Pollution Control Branch. Mr. Venables pointed out
Bearing that statements of the Pollution Control Branch
Wastes: relative to discharges to the Okanagan Lake system
had incorporated the word "curtailed" rather than
"prohibited" when referring to nutrient bearing wastes.

Mr. Kane informed that a Pollution Control Branch letter to the Chamber of Commerce had indicated that ~~there~~ were no firm standards for effluent requirements in B.C.

The Secretary-Manager informed that applications for pollution control permits were handled on an individual basis rather than establishing a broad standard to cover all categories of waste emissions. However, it was felt that a larger staff than the one presently available was required to deal with all individual permits thoroughly.

Mr. Bawtree agreed that it would be difficult to study each individual permit.

SPEC 6. Letter from Kelowna & District S.P.E.C. offering
Support their full support to the Water Board brief entitled
of Water- "Effects of Kraft Pulp Mills on Water and Air Quality"
Board which is to be submitted to the Pollution Control
Brief: Inquiry starting on August 11, 1970.

SPEC Re: 7. A form letter from the Kelowna & District Branch
Info on S.P.E.C. requesting information on what are expected to
Pollution be the major pollution problems in the surrounding
Problems: community. This information would be forwarded to a
Survival Day Commission in Ontario who will be collating
and presenting this information to the Federal Government.

Mr. Lawrence suggested that caution be exercised in relaying specific information on Pollution problems since this could be unduly expanded by uninformed groups.

RECESS

Kane - Stodola:

That a vote of thanks be extended to the City of Vernon for refreshments and the use of the Council Chamber.

CARRIED

D.J. Williams 8. Letter from Mrs. D.J. Williams of Castlegar
Re: Pulp dealing with living discomforts caused by poor air quality
Mills: from the Castlegar pulp mill.

Mr. Kane asked if it was necessary to read all letters of this nature to the Board. The Chairman responded that it has been his policy to bring all letters before the Board. Mayor Stuart said that this policy has also been adopted by the City of Penticton. The Chairman then asked the Board whether they felt that they wanted all letters read before them. Mayor Halina pointed out that this could be time consuming. Mayor Stuart suggested that all letters beyond the Board's terms of reference be placed on a table for all to see, thereby precluding their reading at meetings.

Stuart - Kane:

That all letters outside the Board's terms of reference be excluded from the meeting agenda but placed on a table for all to read.

CARRIED

S.L. Ewing 9. Letter from S.L. Ewing expressing concern over recent
Re: Water low water levels in Okanagan Lake.
Levels:

Mr. Kane suggested that this type of letter be forwarded to the Water Rights Branch. Mayor Stuart stated that it was one of the functions of the Board to give out this sort of information to the public, he went on to say that a written piece of information covering all the data concerned with the Okanagan Basin should be printed on an information sheet which would be available to those requesting information. The Chairman suggested that such a data sheet be drafted up for the next meeting.

E.F. Lawrence 10. Letter from E.F. Lawrence, Director of Operations
Re: Oil City of Kelowna expressing concern over the plan by
Sludge: Myer Franks Ltd. of Vancouver to dispose of oil sludge on certain tracts of land owned by the company president in the interior.

Mr. Lawrence pointed out that this could be a source of pollution during the period of spring runoff, and that such an operation should not be allowed. The Chairman informed that the City of Vancouver has recently accepted the oil wastes of Myer Franks Ltd. and that there is no threat to the Okanagan. Mr. Kane suggested that a letter be forwarded to the firm asking them if they have trucked any oil to the interior and what their plans are.

Mayor Roth questioned whether oil used on roads for settling dust could be a source of pollution also.

E.F. Lawrence 11. Letter from E.F. Lawrence, Director of Operations,
Re: Cattle City of Kelowna expressing concern over the develop-
Feedlots: ment of cattle feedlots in and around the vicinity of
the Hiram Walker Plant at Winfield and on Mill Creek.

Mr. Lawrence felt that this was a serious potential problem in the Okanagan. This situation already exists in other areas and in our own area. Mr. Lawrence felt that feedlots would be established near the Hiram Walker Distillery as a result of the availability of grain by-products from the plant operation.

Mayor Stuart informed that feedlots created both an enrichment problem and a public health problem. Mr. Bawtree stated that there was sufficient land available in Winfield to put the cattle back from water courses.

Mr. Lawrence indicated that feedlots are not covered under the present Pollution Control Act and therefore the matter should be referred to the Technical Committee.

Stuart - Kane:

That the problem of feedlots be brought before the Okanagan Basin Study Committee and the Technical Committee of the Water Board.

CARRIED

Hon. R. 12. Letter from the Hon. Ray Williston, Minister of
Williston Lands Forests and Water Resources regarding the functions
Re: Function/of the Okanagan Basin Water Board. Mr. Williston stated
of Water that the various items mentioned in the Water Board
Board: letter of June 12 concerning water management could be
included among the matters the Board would consider
from time to time. When making recommendations the
Minister suggested that the preferences and priorities
be stated. The Minister agreed that land use could be
very closely associated with water management and that
occasionally at least water board deliberations would
deal with land problems, generally however, land use
planning would be left with the Regional Districts as
provided in the Municipal Act.

Applications for Pollution Control Permits

Applications for Pollution Control Permits of the following were read out to the Board:

Trent Resources Ltd., Ollala, B.C.
Corporation of the Village of Princeton
Corporation of the City of Enderby
Corporation of the Village of Osoyoos.

Coliform counts The Secretary-Manager presented some information
Penticton comparing coliform counts of the sewage effluent of the
Kelowna cities of Penticton, Kelowna, and Vernon. Actual coliform
Vernon: counts as a result of samples taken this summer were
compared between the three cities, with the required
coliform count as per Pollution Control permits issued
to the cities. Information on coliform counts from the

Sun-Rype Plant, Canadian Cannery and Shingle Creek were also presented.

The Chairman questioned why the City of Vernon's new application for a pollution control permit dated June 11, 1970 asked for a coliform count average of 50,000/100 ml when their previous permit required that coliforms be reduced to 1,000/100ml for the months of May to September. Mayor Halina answered that the engineering department would be more familiar with this particular application.

Mayor Stuart suggested that all 3 cities in the Okanagan will be required to meet the same standards. Mayor Halina pointed out that the existing permit for the City of Vernon does not expire until 1971. The City is hoping to place their sewage effluent on suitable land before the present permit expires. Mayor Stuart informed that the City of Penticton sewage plant is now required to remove nutrients.

Mr. Bawtree suggested that a letter be forwarded to the City of Vernon Engineer inquiring about the high coliform count in that city's application and asking the Engineer if there had been an error or some other reason for the high difference. Mayor Stuart informed that cannery wastes from the cannery in Penticton will go back into the Penticton sewage plant on an experimental basis to see if the plant can accept this type of waste.

Other Business

Water Resources Publication: Mayor Stuart presented a publisher's pamphlet outlining the proceedings of the Water Resources conference in Jerusalem 1969. A publication on the proceedings is available at a cost of \$17.50.

Kane - Stuart:

That the Water Board purchase this publication.

CARRIED

Canadian Water Resources Association Letter of Appreciation: Mayor Stuart read a letter from Mr. D. Broadfoot of the Canadian Water Resources Association wherein Mr. Broadfoot extended his thanks to the Chairman of the Water Board for his participation in an interesting panel discussion on the Okanagan Basin Agreement held at the Water Resources Association conference in Penticton on June 17, 1970.

The meeting adjourned at 4:30 p.m.

The next meeting will be held on October 1, 1970 in Penticton.

Secretary-Manager

Chairman

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD AT 4:45 p.m.
SEPTEMBER 3, 1970, IN THE CITY OF VERNON COUNCIL
CHAMBER.

Present:	W.C. Bennett	Chairman
	W.J.C. Kane	R.D.C.O.
	L. Bawtree	R.D.N.O.
	P. Duke	R.D.N.O.
	S.T. Stodola	R.D.O.S.
	F.D. Stuart	R.D.O.S.

Also in

Attendance:	Mayor Wm. Halina	City of Vernon
	Mayor H. Roth	City of Kelowna
	P. Farmer,	Chairman, R.D.O.S.
	E.F. Lawrence	Director of Operations,
		City of Kelowna
	Brian Harvey	Manager, Vernon Irrigation
		District
	B.J. Swarder	Chairman, R.D.N.O.
	E.D. Anthony	District Engineer, Water
		Rights Branch
	Jack Botham	Water Rights Branch

The Chairman introduced Mr. E.D. Anthony, District Engineer, of the Water Rights Branch and his assistant Jack Botham to the Water Board Members.

K-Bar Ranch Water Licence Applications: Mr. Anthony then proceeded to outline the various technical aspects involved with the recent water licence applications by K-Bar Ranches Ltd. in the Mission Creek area. Mr. Anthony related the Comptroller of Water Rights desire to establish a liaison between the Water Board and his office. The Comptroller would like to consider the opinions of the Water Board before he reached major licencing decisions. He wishes to hear the Water Boards opinion on whether or not a public meeting should be held concerning the K-Bar water licence applications.

Mr. Anthony pointed out that Mission Creek contributes about $\frac{1}{3}$ of the runoff into Okanagan Lake. The Graystokes area in that watershed is the highest yielding area. The existing licences on Mission Creek cover about 35,000 acre feet. Approximately 34,000 acre feet of this is used as irrigation water. The total yield of the water shed is 160,000 acre feet. About $\frac{1}{4}$ of the flow is/licenced. In 1964 the Water Rights Branch decided not to grant any additional licences on the Mission Creek drainage unless these were supported by storage reservoirs.

In 1969 K-Bar Ranches applied for substantial storages in the Mission Creek drainage. Some objections were received by the Comptroller.

The Rutland Waterworks District and the Black Mountain Irrigation District have asked for additional applications which will supply all of their future requirements. Black Mountain Irrigation District will be licenced in excess of their demand. Water licence applications by the Rutland Waterworks District for storage will provide for all future needs. Some of the applications by the Black Mountain Irrigation District and the Rutland Waterworks District have already been granted, others are still pending. These applications will not interfere with the K-Bar Ranches applications.

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD SEPTEMBER 3, 1970. 2

Many of the K-Bar applications were unrealistic, since the volumes of water applied for did not exist in the storage areas anticipated. Three of the earlier applications on Mission Creek were not granted, since the lakes on which these applications were made were fully recorded by existing licences granted under prior applications. However, the Comptroller is prepared to grant 400 acre feet of freshet water to be diverted out of Mission Creek between April 1st and June 30th and stored on the K-Bar Ranches property for summer use.

An additional 3,120 acre feet of the present K-Bar applications can be granted if storage reservoirs are built.

The Chairman questioned if this amount of water was available. Mr. Anthony answered, yes that the technical data indicated that this water was available.

Downstream
Users Rely
On Mission
Cr. Water
Source:

Mayor Stuart pointed out that this amount of water may be available in Mission Creek but much of the water drawn from the system downstream in Okanagan Lake and River relies upon that water source which would no longer be available to them. A critical shortage could result if there are many dry years such as the one we are experiencing this year.

Mr. Anthony commented that approximately only 125,000 acre feet of runoff was received into the basin this year and this could be the lowest on record.

Mayor Stuart pointed out that we must consider the lake as a whole, regardless of where within the system the water comes from. Mr. Anthony reminded the Board that they had earlier felt that it was unrealistic to limit the licencing on the system at this time due to the great economic constraint it would impose. Mr. Anthony indicated that water storage at higher levels was a good policy because the water could be used on its way down through the system. A solution to the problem on the lake itself, would be found he indicated. The problem on Mission Creek itself, is not a water shortage problem but a storage problem.

Mayor Stuart asked if a diversion from the upper waters of the Kettle Watershed was practical. Mr. Anthony pointed out that the Kettle Valley is still relatively undeveloped and when it is developed in the future there may be a water shortage in that Valley.

Effect on
Lower
Mission
Creek:

Mr. Lawrence questioned what the effect would be on the lower Mission Creek Irrigation intakes if more storage is held in the higher portion of the watershed. Mr. Anthony replied that the effects of the lower intakes would probably be very minimal since storage is released by one man in such an order that the lower intakes will always receive water.

The Chairman asked whether the Comptroller would investigate the effect of these licences upon other people downstream in the Okanagan system. Mr. Anthony replied that at some time people on the main Okanagan Lake system without storage could be short of water if they are a low priority licence.

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD SEPTEMBER 3, 1970. 3

Senior
Licences
Downstream
Could be
Deprived:

Mayor Stuart remarked that if water is not released from the upper storage areas the recovery of the lower storage would be slow. Later licences such as the K-Bar licences, presently anticipated could cut off lower and older licences on the lake system.

Mr. Farmer pointed out that if water is stored at upper elevations this could endanger the supply of a community, such as Kaleden, even though it is the most senior licensee.

Mayor Stuart indicated that if we have another winter with a low snowpack such as this past winter a serious problem could develop.

Mr. Anthony pointed out that 100,000 acre feet could be stored in higher reservoirs and 320,000 acre feet could be stored on Okanagan Lake. The Minister feels that if there is a danger on Okanagan Lake, a solution will be found.

Authority
to Control
High Level
Storage:

Mr. Kane suggested that an authority should be established to control all high level storage.

Mr. Bawtree suggested that more attention be paid to licences of lower volumes as well. If there were a great number of applications for small licences this would amount to as much water or more than for one large application.

Mayor Roth asked why the Comptroller could not withhold licences until the Okanagan Basin Study is complete. Mr. Anthony replied that this would impose a tremendous economic constraint in the Valley.

Conditional
Licence:

Mayor Stuart asked if a conditional licence could be issued so that at a future date downstream users would be entitled to the water first. Existing licences should have priority. A condition of the licence could be that the licensee could store water in his dam if a certain level is still maintained in Okanagan Lake. Mr. Anthony replied that a condition could be put into the licence if the Comptroller sees that it is advisable. Licences can be reduced if the amount of water applied for is not being used.

Mr. Lawrence inquired what the purpose of the water would be for K-Bar Ranches. Mr. Anthony replied that all of the water would be used for irrigation purposes.

Mr. Anthony pointed out that he had not come to encourage or to defeat the K-Bar application, but simply to relay technical information concerned with these applications.

Mayor Roth inquired whether the Regional Districts could acquire storage for future purposes. Mr. Anthony said they could. Mayor Stuart asked if the Regional Districts could acquire a water licence and sell water to K-Bar Ranches. Mr. Anthony said this could be done under the Public Utilities Commission; however, the Regional Districts would have a responsibility to continue a reliable supply of water.

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD SEPTEMBER 3, 1970. 4

Mr. Lawrence inquired whether Mr. D. Hurn, the Regional Fish and Wildlife Supervisor had been consulted with regards to the licences. Mr. Anthony had not heard of any objections from Mr. Hurn.

Mayor Roth asked Mr. Anthony whether he had any recommendations regarding future storage and supply. Mr. Anthony remarked that storage was available in Mission Creek, but he did not know what the next move would be. The Comptroller will wait for the decision of the Water Board before granting further licences on Mission Creek.

Mr. Harvey from the Vernon Irrigation District recommended that all municipalities should review their licences at this time to see if they have enough water for future demand.

Mayor Halina remarked on a promise, that if difficulties were encountered another water source would be provided. Promises such as this have been made in the past but officials concerned have changed offices over a period of years. Individuals holding senior licences could be moved out of their favorable position. There should be some condition whereby water will be released if these older licences have a short supply. Mr. Anthony said that for any new licences a condition could be included to release water if the level of the lake falls. However, the Comptroller did not have this authority in present licences. Mayor Halina questioned how the Comptroller could not have authority to order the release of water if people in the lower area are deprived, while at the same time he has authority to issue new licences.

Mr. Kane recommended that an authority be established to divert water to separate users within the lake system.

Mr. Anthony left the meeting at this point.

Inclusion of K-Bar Under Black Mountain Irrigation District: The Chairman recommended that the Black Mountain Irrigation District boundary be extended to take in the K-Bar Ranches and water licences. This way the licences would remain under public control. The Black Mountain Irrigation District would then supply K-Bar Ranches with water. The Chairman suggested that he and the Secretary-Manager visit the Comptroller in Victoria and discuss this arrangement with him.

Mayor Stuart asked whether the Black Mountain Irrigation District had been approached on this subject. The Chairman replied that they had not been approached.

Consider Senior Licences First: Mayor Stuart indicated that a large number of senior licences on Okanagan Lake and River deserved consideration before new applications on the upper storage. In low runoff years the lake level community may suffer. There should be a condition in new licences that water can not be stored in the upper reservoirs unless the level of Okanagan Lake is at a predetermined level.

Mr. Farmer pointed out that an upper storage licence with this condition in it would impose a hazard to crops grown under such a licence.

Mr. Lawrence suggested that the remarks of Mayor

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD SEPTEMBER 3, 1970. 5

Stuart on the priority licences and lake level; and the comments by the Chairman that K-Bar be served by the Black Mountain Irrigation District be combined as a summary to this point.

Mayor Stuart said that there were two considerations:

That a public body like the Black Mountain Irrigation District could supply water to K-Bar Ranches.

The other consideration was that a condition should be placed into the licence that guarantees water supply to existing licensee s.

Mr. Harvey commented that if a condition is to be placed on future licences this would have to be done for all licences in the watershed. He stated that the concern now was to protect the existing licences and to provide enough water for future use.

Mr. Lawrence said the City of Kelowna was concerned with the administration of a Water Rights Act which is old. The administration should be concerned with the management of the water basin as a whole.

Mayor Stuart suggested that storage in the basin should be common.

The Chairman suggested that the Comptroller not grant more licences on Mission Creek, but that the Water Board give recommendations on the 3,120 acre feet applied for by K-Bar Ranches. The Comptroller should investigate the watershed with a view to establishing a common storage.

Mr. Sworder said that we should be assured of a diversion supply before further licencing is granted.

Mr. Bawtree suggested that K-Bar Ranches and the Black Mountain Irrigation District be contacted to discuss the possibility of the Black Mountain Irrigation District supplying K-Bar Ranches with water. The Chairman suggested that the Comptroller should contact these two bodies.

Mayor Stuart said that later control of the water resources could be exercised under a public body in dry years. Mr. Kane suggested that some public body should apply for coverage of the other remaining storages in Mission Creek.

Duke - Stuart:

Chairman &
Secretary-
Manager to
visit
Comptroller
to discuss
water
licencing:

That the Chairman and Secretary-Manager approach the Comptroller of Water licences in Victoria and discuss the K-Bar Applications and the granting of further licences in the Okanagan.

CARRIED

Mr. Bawtree suggested that when the Chairman and Secretary-Manager are in Victoria they should ask the Director of Pollution Control about procedures in making applications for pollution control permits to see whether this procedure could be speeded up.

Bawtree - Stuart:

That the Chairman and Secretary-Manager inquire about the granting of Pollution control permits.

CARRIED

The meeting adjourned at 7:00 p.m.

OKANAGAN BASIN WATER BOARD

AGENDA

October 1, 1970 - 2:00 p.m.

1. Minutes from meeting of September 3, 1970.
2. Accounts.
3. Financial Statements and tentative budget 1971.
4. Correspondence:
 - (a) Myer Franks Limited - disposal of oily sludge.
 - (b) Regional District of North Okanagan-Beaupark Ranch Licence
 - (c) Regional District of Central Okanagan-Applications for water licences.
5. Applications for Pollution Control Permits:

*- Inform Committee to forecast supply
- survey of all remaining storage sites*

 - (a) Robo Syndicates Ltd. - Kelowna
 - (b) Westmills Carpets Ltd. - Rutland
 - (c) Okanagan Builders Land Development Ltd., - Kelowna
 - (d) Okanagan Builders Land Development Ltd. - Kelowna
 - (e) Henry Leonard Nikkel - Okanagan Falls
 - (f) Village of Osoyoos
6. Dr. J. Clapp-Dept. of Agriculture-Re: Cattle feed lots.
7. Arrangements for public meeting in Salmon-Arm Area. (Nov. 6) (FRI)
Does Water Board also wish Public meeting in Okanagan on Nov 4 or 5
8. Other business.
 - Photos
 - L. Smith's info reg'd on P. Control PermitsCommittee meeting to follow.
(1) Soc. Economic Ind. bkp

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD AT 4:15 p.m. OCTOBER
1st. 1970 IN THE CITY OF PENTICTON COUNCIL CHAMBER.

Present:	W.C. Bennett	Chairman
	W.J. C. Kane	R.D.C.O.
	L. Bawtree	R.D.N.O.
	P. Duke	R.D.N.O.
	F.D. Stuart	R.D.O.S.

Also in

Attendance:	Mayor Wm. Halina	City of Vernon
	Dr. J. Clapp	Field Veterinarian
		B.C. Dept. of Agriculture
	E.F. Lawrence	Director of Operations
		City of Kelowna
	Dr. J. O'Riordan	Socio-economic task group
		Okanagan Basin Study
	C. Thomas	Socio-economic task group
		Okanagan Basin Study
	M. Thompson	Study Director
		Okanagan Basin Study
	J. Bawthom	Water Rights Branch

The Chairman introduced Mr. M. Thompson, Okanagan Basin Study Director; Mr. J. O'Riordan, Dept. of Energy Mines and Resources; and Mr. C. Thomas, Water Resources Service. Mr. O'Riordan and Mr. Thomas are responsible for the socio-economic portion of the Okanagan Basin Study. They had come to inform the Water Board of their work in the field and to answer questions regarding the study.

Mr. O'Riordan informed that the object of the Okanagan Basin Study was to form a comprehensive all embracing plan for the social benefit and economic growth of the Okanagan.

Mr. O'Riordan related a study that had been done in the past which did not consider an all embracing framework, and later the recommendations could not be implemented since the socio-economic and ecological aspects of the project had not been thoroughly investigated. For this reason the Okanagan Basin Study will have five or six dimensions to widen the range of the criteria studied. Both water quantity and water quality will be studied.

The Socio-economic Task Group will be looking at the economic potential of the Okanagan to the year 2020. The comparative advantages of the Okanagan will be investigated and forecasts of growth made. Trends in water use patterns will be studied. By next summer an estimate of the water demand in the basin should be available. Fisheries and aesthetics will be studied as well to determine how these affect local people. The socio-economic group wishes to find the social values and attitudes towards water quantity and quality in the Okanagan.

The Water Board can act as a liason with the public.

This group will also look at waste loads and population trends to better assess sewage disposal problems.

The group will also investigate the possibility of increasing storage potential, improving pipelines, creating more efficient management and water diversions,

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD OCTOBER 1st. 1970. 2

if necessary. This will be done within the various political constraints.

In the end the socio-economic group will set up a number of plans and alternatives which could be pursued to meet the water quality and quantity problems. Local governments will then be responsible for choosing their alternatives and continuing through with detailed planning to meet the required objectives.

Mr. Thomas informed that a team is currently in the field collecting basic data on water demand, water supply, location of consumption, and end use.

Mr. Lawrence inquired if there was some consideration for a broad plan for the Okanagan taking into consideration agricultural and recreational uses. Mr. Thomas answered that his group will not be involved with detailed plannings but will only recommend what the benefits and costs are of alternative land uses in the Valley.

Mr. O'Riordan informed that his group would only offer broad recommendations. The Chairman added that it would be a political decision of the people in the Valley what they would want in the end.

Mr. Kane inquired as to the approach taken to accomplish this study. He asked whether any information was being put into the base of the study. He remarked that it is a comprehensive plan, but many different agencies are involved and basic input from the Valley was lacking. He mentioned there could be some concern of duplicating the same studies that are currently done by the Federal and Provincial governments. Mr. O'Riordan answered that this problem of coordination has always existed and they wished to overcome this by the comprehensive framework plan.

Mr. Kane suggested that there should be a local authority to bring about the recommendations of the plan, otherwise in the end we will have the technology, but we will not have the legislative ability to carry out the plan. Mr. Thompson pointed out that the purpose of the study was to come up with recommendations and provide administrative framework to carry out the plan.

Mr. O'Riordan informed that they wished to review at the Federal-Provincial and local management of the water resource. The efficiency of the irrigation districts will be studied.

Mr. Bawtree inquired if the deterioration of the environment would be one of the aspects studied depending upon the use placed upon Okanagan Valley land. Mr. Thomas answered that they would investigate the value that people placed on the appearance of the Okanagan environment. For example, what effect would lowering of the lake level have on the esthetic appearance of lakeshore property.

Mr. Lawrence inquired when the study would involve the local people. So far local people have had little contact with the study. Mr. Thompson answered that until now the study has been involved mainly with data collection. The public will enter into the study more

MINUTES OF A MEETING OF THE COMMITTEE OF THE WHOLE OF
THE OKANAGAN BASIN WATER BOARD HELD OCTOBER 1st. 1970. 3

strongly when alternatives must be selected.

Mr. Lawrence informed that many people wished to know what is happening in the study. Some local people have large files on research that has been done in the valley and should be contacted for their advice. Mr. Thompson stated that the study office for the Okanagan Basin Study had just been set up and he has so far only had the opportunity to discuss the study with the Secretary-Manager of the Water Board.

Mr. Kane informed that the people of the valley have a strong concern for what is happening in the study. Mr. O'Riordan informed that a brochure is now being printed on the Okanagan Basin Study and this should help to relay information to the public.

Mayor Stuart suggested if Mr. Thompson knows of any study personnel being in the area he should contact the local people and arrangements could be made for the study experts to speak at service club functions.

At the end of the meeting Mr. Bawtree informed that the information that the Water Board received concerning cattle in the Naramata Watershed may not have been entirely correct. Forestry officials have informed him that other sources of water fertilization exist and that cattle may not have been the only source of contamination.

The meeting adjourned at 5:00 p.m.

W. C. Bawtree

H. Richardson

1-30 600-157
OKANAGAN BASIN WATER BOARD

REVISED AGENDA

November 5, 1970, 2:00 p.m.

1. Minutes from meeting of October 1, 1970.
2. Accounts.
3. Dr. A.T. Prince and Mr. B.E. Marr, co-chairmen of the Canada-British Columbia Consultative Board -
re: Discussion of Okanagan Basin Study.
4. Report of Technical Committee.
5. Correspondence (time permitting)
 - a) Regional District of Columbia-Shuswap: re: public meeting in Salmon Arm November 6th.
 - b) Thompson-Nicola Regional District: Request for a public meeting.
 - c) Association of B.C. Irrigation Districts re: Observer to the Water Board.
 - d) Hon. K. Kiernan - Preservation of Kalamalka Lake
 - e) E.H. Vernon, Chief Fisheries Management - re: Okanagan Fisheries.
 - f) J. O'Riordan - re: Local involvement and communication relative to the Okanagan Basin Study.
 - g) City of Kelowna - letters concerning Okanagan Basin Agreement.
 - h) B.E. Marr - re: Cattle feedlots.
 - i) Pollution Control Branch - re: Cattle feedlots
 - j) Okanagan Similkameen Parks Society - re: Establishment of Okanagan Mountain Park.
 - k) Mrs. George V. Lawrence - re: Mining tailings at Ollala and Hope Princeton Highway.
 - l) Regional District of North Okanagan - re: Water and sewage requirements of future subdivisions.
 - m) City of Vernon - re: Pollution Control Permit
 - n) City of Kelowna - re: Submission of an addendum to pilot project.
 - o) Pollution Control Branch - re: Processing of Pollution Control Permits.
6. Other Business.

OKANAGAN BASIN WATER BOARD

NOTICE

A regular meeting of the Okanagan Basin Water Board will be held on Thursday November 5th at 2:00 p.m. in the offices of the Regional District of Central Okanagan, 540 Groves Avenue, Kelowna, B.C.

Dr. A.T. Prince and Mr. B.E. Marr, co-chairmen of the Canada-British Columbia Consultative Board will be present to discuss the Okanagan Basin Study.

An agenda is enclosed.

A public meeting will be held in Salmon Arm on Friday November 6th, 1970 at 7:00 p.m. in the gymnasium of the Elementary School on Shuswap Avenue.

The purpose of this meeting will be for an exchange of views between local residents and the Canada-British Columbia Consultative Board regarding the Okanagan Basin Study.

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD NOVEMBER 5, 1970 at 2:00 p.m. IN THE OFFICES OF THE
REGIONAL DISTRICT OF CENTRAL OKANAGAN, KELOWNA, B.C.

Present:	W.C. Bennett	Chairman
	W.J.C. Kane	R.D.C.O.
	D. Pritchard	R.D.C.O.
	J. Patterson	R.D.N.O.
	L. Bawtree	R.D.N.O.
	S. Stodola	R.D.O.S.
	F.D. Stuart	R.D.O.S.

Also in Attendance:

The Hon. Mrs. P. Jordon	M.L.A. North Okanagan
Dr. A.T. Prince	Co-chairman, Canada British Columbia Consultative Board
Mr. B.E. Marr	Co-chairman, Canada British Columbia Consultative Board
Dr. E.R. Tinney	Member, Canada British Columbia Consultative Board
L. Edgeworth	Member, Canada British Columbia Consultative Board
H.D. DeBeck	Member, Canada British Columbia Consultative Board
W.N. Venables	Member, Canada British Columbia Consultative Board
M. Thompson	Director, Okanagan Basin Study
J.C. Bunge	Secretary, Canada British Columbia Consultative Board
C. Thomas	Member, Socio-economic task Group
J. O'Riordan	Member, Socio-economic Task Group
Dr. D. Connor	Consultant Sociologist
Mayor Halina	City of Vernon
Alderman Moss	City of Kelowna
E.F. Lawrence	Director of Operations, City of Kelowna
Felix Noel	Chairman, Regional District of Columbia Shuswap
Dr. D.A. Clarke	Director, South Okanagan Health Unit
F. Alcock	South Okanagan Health Unit
J. Hamilton	Engineer, City of Penticton
I. Jackson	Observer, Peachland
W.H. Raikes	Director, Regional District of Central Okanagan
E. Anthony	District Water Rights Engineer
B. Harvey	Chairman, Association of B.C. Irrigation Districts
W. Parchomchuk	Secretary-Manager, Okanagan Basin Water Board
E.O. Wood	Resident, Kelowna
Bill Jerome	

Press and radio:

Vernon News, Kelowna Courier, Penticton Herald, CKOV-Radio

The Chairman stated that most of the entire meeting would be devoted to a discussion of the Okanagan Basin Study and a question and answer period. Dr. A.T. Prince and Mr. B.E. Marr, co-chairmen of the Canada British Columbia Consultative Board were introduced to the meeting.

Mr. Marr introduced the following members of the Canada British Columbia Consultative Board attending the

meeting: Mr. W.N. Venables, Director of the Pollution Control Branch; Dr. A.T. Prince, Director Inland Waters Branch, Dept. of Energy Mines and Resources; Dr. E.R. Tinney, Director of Policy and Planning Branch, Dept. of Energy Mines and Resources; L. Edgeworth, Chairman Resources Development Branch, Dept. of Fisheries and Forestry; Mr. H.D. DeBeck, Comptroller of Water Rights.

Dr. Prince reviewed the terms of the Canada British Columbia Okanagan Basin Agreement signed in October 1969 between the Province of British Columbia and the Government of Canada.

Mr. Moss noted that the agreement contained no mention to the practice of forestry in the Okanagan Basin Watershed.

Dr. Prince said that since the study is a comprehensive plan it would have to look at all aspects related to the water environment. Forestry, therefore, will have to be taken into consideration, but it was not anticipated that the study could go deeply into this field with the amount of funds available.

Mr. Bawtree asked if public involvement in the study would allow for the public to choose alternatives. Dr. Prince answered that public participation is strongly placed in the agreement. The Consultative Board and the Study Committee are working on aspects of public participation to see how this can best be implemented into the study.

Mr. Marr informed that several government agencies have been asked to administer various tasks within the study. The Canada Fisheries Research Board will head the limnology studies. The Pollution Control Branch will be in charge of water quality studies and the Water Investigations Branch will be charged with water quantity studies. The Socio-economic aspects of the study will be administered by members from both governments. Mr. Murray Thompson, the Study Director, will coordinate the study from Penticton.

Several studies are already well underway. A need was recognized early in the study to collect information on water temperature, evaporation, and various quality parameters. Much of the study is directed towards the prediction of runoff in the basin.

Limnology studies are important to understand the quality of water in the existing system. Information on water quality of streams entering the basin is being collected.

Socio-economic aspects of the study have also been initiated.

A computer model of water quantity in the Okanagan will be set up at the University of British Columbia. Some information has already been collected in the first year.

Mr. Pritchard asked if present funds were adequate to cover the entire study. Dr. Prince replied that the present cost figures have been written into the study. A dry run would have been desirable to calculate more accurately how much money would be required. However, the terms of the agreement do include the amount allocated, it is difficult to estimate accurately the final amount required

at this time. Some say the budget will only scratch the surface. As much information as possible will have to be collected as quickly as possible within the budget allowed. However if it is not possible to gather all the desired information the public and the government will have to be approached for more money.

Mr. Stodola asked what the present involvement of U.B.C. was in the study. Mr. Marr replied that they had asked U.B.C. to co-operate in establishing a mathematical model of the water quantity in the valley. Additional information had to be secured on the hydrology of the basin. Instrumentation therefore was doubled.

Mr. Kane said he was not certain exactly what public involvement in the study would be. He stated that if public involvement is delayed until a late date the involvement would then only be negative. It would be hypocritical to say that the public was involved after the appropriate date has passed. Mr. Kane went on to say that water quality and quantity are very meaningful to the people of the Okanagan and that they wish to participate.

Mr. Kane questioned why a lymnology study was initiated when the decision would have to be made to remove all outfalls from the lake anyway, since there was no treatment plant design that could remove all detrimental elements. Mr. Marr replied that it was important to have an assessment of lake condition to see what the effects would be of various waste disposal decisions. When all the information is available it would be possible to forecast what could happen if a particular course of action is taken.

Dr. Prince added that it was important to know the dynamics of the whole system and what the responses are both physically and chemically. It is important to understand factors affecting the viability and the continuing health of the system. At the start of the study there was not enough basic information on the Okanagan system. There is very little known about pesticides and other pollutants. Many chemicals entering the lake could be ruled as non-dilatatarious. It is not clearly known whether an excess of nitrogen or phosphorous could create problems; consequently it was decided that a physical programme of sampling be initiated as quickly as possible.

In the field of public involvement there has not been much experience, therefore it is more difficult to know where to start. Mr. Kane mentioned that there were some problems of a local character that should be closely investigated. Dr. Tinney said that the difficulties were in the mechanism of public involvement. He asked for suggestions how everyone could get involved.

Mr. Marr pointed out that the Technical aspects could be considered fairly easy, but it was more difficult to assess social values.

Mr. Venables pointed out that this was the first study of its size. Public involvement varies from case to case. He agreed with Dr. Tinney that the problem was in the mechanism of public involvement. Mr. Venables questioned the Board as to how they thought they should be involved.

Mr. Pritchard said that the Water Board could give

the Study Committee the information they require. This was one of the purposes for setting up the Water Board.

Mr. Venables said that there must be a plan for public involvement. The plan should come from groups at the meeting.

Mayor Stuart said there were two facets to the study: the technical and the socio-economic. The plan should come up with a series of options, then the public could make a decision. He asked Dr. O'Riordan if there was any provision for input by the public now.

Dr. O'Riordan replied that we have not only a water system but a social system. The two interact and both have to be studied. Presently we do not fully understand the social system, why people have formed attitudes to water and what these attitudes are. Ways to implement these attitudes into the study have to be found. In the past public participation has been too late, too little and usually negative, because they have not known the facts. An understanding must be gained how to manage water for the maximum satisfaction of people in the valley. Plans must be optimized.

Mayor Stuart asked Dr. O'Riordan if he would be directly involved with the public in the Valley. Dr. O'Riordan replied that the plan hinges on the Study Director and the Study Committee. He said that he wished to contact the public directly to evaluate human and aesthetic aspects. He mentioned it is often difficult for people to say exactly what they like about the Okanagan. In view of the difficulties public involvement should be started now.

Mr. Kane said if the public is to become involved they would be required to know what the broad study plan is first. Dr. Prince replied that the plan of attack is first to identify the working groups and the tasks involved. He said that some 225 to 250 tasks have been described. Some of these tasks still have not been closely defined. The question of communication between the study groups and the Water Board would be resolved.

Mr. Marr informed that a seminar was planned for February 10th and 11th. This would be an excellent opportunity for technical input into the study. The Technical Committee of the Okanagan Basin Water Board will be invited to the seminar. Mr. Marr asked if there would be any advantage in this type of seminar.

Mayor Stuart replied that public involvement is based on knowledge and facts. The public should be aware of the progress in the study before they could contribute substantially. Mayor Stuart said that a seminar could involve not only technical personnel but the general public as well.

Mr. Venables asked how far the public would be involved, for example; health, irrigation districts, etc. without involving a large number of people.

Mr. Moss said that he could see the basic problem as that of a scientific study group which requires them to be objective, whereas the input from the public is likely to be subjective. A socio-economic task group will look at the subjective elements of the study to make them objective.

Mr. Edgeworth pointed out that a brochure is being prepared which should help to give the public more information. The brochure will be available in about two or three weeks.

Mr. Stodola said the public is interested in the study. He also appreciated the fact that there are a large number of tasks involved in the study. The study is far away from the general public. He felt that there would be more public involvement if the material was not relayed at a highly technical level.

Dr. Tinney said that there are techniques available to assess public opinion. There could be a massive information programme on radio, television and the press etc. He related a programme in the east where 10,000 individual interviews were conducted to find the attitudes of the people. Public views were entirely different than had been expected.

Mr. Kane said that the people of the Valley are interested in the study. They wish to participate. He felt that there would be a good response from the public when participation is required.

Mr. Pritchard felt that the Water Board should be able to receive public response. The Chairman questioned how exactly this could be done. Mr. Pritchard said he could not say exactly how this could best be done at this time. Mr. Kane said the public would have to be given some information before they are closely involved.

Dr. Prince stated that a sewage plant could be designed to produce distilled water, however, at a cost. He questioned whether the Valley was prepared to pay for the cost of high quality water. Mr. Kane felt that the Valley was willing to go to the limit if necessary to maintain a high water standard.

Mr. Kane asked if the study would continue, if when complete, there was still no answer. Mr. Marr replied that options would be broad enough to allow for a decision at the end.

Mr. Lawrence stated that members involved in the study have been too modest to inform what they are doing. The public wants to know what is happening, if they do not know they will not be interested. The press should be informed as well.

Mayor Stuart said that each individual should not be required to make a press release; but rather that information be sent to the Water Board for release to the press.

Mayor Halina asked what was the role of the Water Board. Does the Water Board relate the thoughts of the general public.

Mayor Stuart said that the Water Board has received much information but had not fully used it. Dr. Prince said that the Water Board was free to use any information that had been made available.

Mr. Aldredge representing the press said the press

was interested in the study, but were not entirely clear as to what was transpiring.

Mayor Stuart said that information could be available to the news media but that they would have to write their own stories to make it understandable to the public.

Mr. Kane drew attention to the fact that there were some 225 to 250 tasks mentioned. Mr. Marr corrected the figure and said that there were now only 97 tasks. Some of the tasks have been amalgamated.

Dr. Clarke said that there had been little input from the Study Committee to the Technical Committee of the Okanagan Basin Water Board. He questioned what role health would play in the study. He mentioned the local health unit has conducted many tests in the past, but local health involvement in the study has been very little. Mr. Marr said that the B.C. Pollution Branch and the B.C. Health Branch will participate in the beach sampling programme.

Mr. Moss said similarly more attention should be paid to forestry practices in the area. Mr. Marr answered that there is a limited budget constraint, however, forestry will be considered by the socio-economic task group.

Mr. Harvey asked if the overall Okanagan Basin Study Plan would be made available to the Water Board and Technical Committee. Mr. Marr replied that it would be made available.

Dr. Clarke mentioned that information concerning items of study under the Okanagan Basin Study should be made available to the Water Board and to the Technical Committee in good time to pass comments.

Mr. Marr said that information would be made available to the Technical Committee. The Technical Committee has been invited to attend a seminar on the Okanagan Basin Study to be held February 10th and 11th in Penticton. There will be an opportunity for an input to the study from the Health Dept. and the Technical Committee members.

Mr. Marr presented a brief report on the problems associated with the operation and control of the Okanagan Lake storage reservoir. Various factors in predicting Okanagan runoff and lake levels were mentioned.

The Chairman asked Mr. Marr if there was some anticipation that the level of Okanagan lake could be raised. Mr. Marr replied that the maximum level of 102.5 feet based on local data is often under protest by the City of Kelowna due to flooding problems. This problem would have to be analyzed and discussed to see if there can be alterations in the maximum and minimum lake levels.

Mayor Stuart commented that this meeting had largely dealt with and questioned the degree of public involvement and feedback, however, he added that if we were to look back at the past four years there has been a great improvement in communication and public feedback. Having members of the Consultative Board and the Study Committee present at this meeting is an indication of a sincere desire by the governments to get better feedback.

Stuart - Kane:

That the appreciation and thanks of the Water Board be extended to members of the Federal-Provincial Consultative Board and Study Committee for attending the meeting.

CARRIED

At this time the Consultative Board and most of the guests left the meeting.

The Chairman introduced Mr. W.N. Venables, Director of Pollution Control to the Board. The Director would answer questions concerning the issuing of Pollution Control Permits.

Mr. Bawtree asked why such a lengthy procedure was required before a Pollution Control Permit is granted. He asked if the forms for applications for Pollution Control Permits could be made available at the local offices of the Pollution Control Branch. Mr. Venables answered that there was criticism in the past for not involving everyone. Application forms will be available in the district offices. The reasons for issuing the forms from Victoria was to get some unanimity in the applications, and assurance that the forms are handled in the correct order. The procedure for issuing permits has to comply with the Act. The application must be advertised and it must comply with Regional District By-laws. The application is then posted, and a 30 day objection period begins. Copies of the application must be circulated to four different government departments for study. The engineers report is then prepared. Mr. Venables agreed that it was a long procedure, but it is difficult to shorten if public involvement is to continue.

Mr. Bawtree related an application in Enderby where the procedure to secure a Pollution Control Permit was followed through, and then it was decided that the application was not appropriate. The procedure had to start over again. So far the application has taken several months to process.

Mr. Venables said there was a tendency to use the Pollution Control Act as a land control tool. Mr. Venables said that the Pollution Control Branch could not tell the municipalities where to place their disposal sites, but they could only approve what the municipalities would suggest.

Mr. Pritchard asked if the Director conferred with other Departments before issuing permits. Mr. Venables said that other departments are consulted. The field of Pollution Control is not a narrow field, it involves everyone, people from law, health, biology, and other professions. A biologist will be appointed to the Pollution Control Branch for the Okanagan Basin.

Mr. Kane inquired about the Director's policy in issuing permits in cases where effluent disposed of on one site would affect another site as well. Mr. Kane felt that the permit and the disposal site should be bound

together. Mr. Venables replied that permits are not issued where the applicant does not have an agreement with the land.

Mr. Kane mentioned that in cases where tank trucks are used to haul car wash effluent for disposal on designated sites it was difficult to police this type of operation to insure that the proper area as outlined in the permit was in fact being used.

Mr. Lawrence mentioned that the Water Board had recently given some consideration to potential pollution from cattle feedlots. He asked what the present Pollution Control Branch attitude toward cattle feedlots was. Feedlots could be a tremendous potential source of pollution. Mr. Venables replied that where traditional farm practices are being carried out that the Pollution Control Branch does not become involved. The Dept. of Agriculture will rule to determine if the farming practice is traditional or not. Cattle feedlot operations are not considered to be traditional practices. The problem in controlling feedlot wastes would be the expense of bringing the wastes together and disposing them in a suitable manner.

A zoning by-law which would prohibit the establishment of feedlots within 500 feet of water courses could be a solution to the problem.

The Chairman asked if proof that pollution was occurring had to be shown before action could be taken. Mr. Venables replied that such proof was not required.

Mr. Venables informed that by the end of 1970 all discharges of wastes must be registered. These are then tabled for future action. Discharges have to be registered whether or not they are considered to be polluting. If Regional Districts have by-laws concerning pollution these will be upheld.

Mr. Bawtree asked if the Director anticipated that some dairy farms may have to come under permit. The Director replied that this could be required. A large hog farm is presently under permit, the animals are on slats to facilitate collection of wastes.

Mr. Lawrence pointed out that it was difficult to tell where the discharge was on feedlots. Ground water contamination could be occurring. Mr. Venables pointed out that the cost of solving these problems could be high.

Mayor Stuart remarked that in the final analysis the public would bear the cost of pollution.

The Chairman then asked members to proceed with regular Water Board business.

Minutes: The Secretary-Manager indicated some minor corrections to the minutes of the meeting of October 1st, 1970.

Stodola - Kane:

That the minutes from the meeting of October 1st, 1970 be adopted.

CARRIED

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD
HELD NOVEMBER 5, 1970.

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Accounts: The Secretary-Manager presented the following
accounts for payment:

Regional District of Central Okanagan (Oct. 1st-31st, 1970) (rent, steno, telephone, etc)	193.00
Secretary-Manager, expenses (Oct. 1st-Nov. 3, 1970)	<u>39.29</u>
TOTAL	<u>232.29-</u>

Bawtree - Stodola:

That the above accounts be paid.

CARRIED

Copies of correspondence will be forwarded to
Board members for review rather than for consideration
at the present meeting.

The next meeting will be held December 3, 1970 in
the Council Chambers of the City of Vernon.

Mr. Kane moved that the meeting be adjourned.

The meeting adjourned at 5:10 p.m.

Chairman

Secretary-Manager