

OKANAGAN BASIN WATER BOARD

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD IN COMMITTEE OF THE WHOLE HELD IN THE REGIONAL DISTRICT OF NORTH OKANAGAN BOARD ROOM, 2903 - 35TH AVENUE, VERNON, B. C. HELD ON THURSDAY, FEBRUARY 2ND, 1984 AT 5:45 P.M

**PRESENT:**

Chairman E. Lamont	Central Okanagan Reg. Dist.
Director A. Horning	Central Okanagan Reg. Dist.
Director N. Oystryk	Central Okanagan Reg. Dist.
Director R. P. French	North Okanagan Reg. Dist.
Director H. Blattner	North Okanagan Reg. Dist.
Director J. MacArthur	North Okanagan Reg. Dist.
Director G. Butterfield	Okanagan-Similkameen Reg. Dist.
Alt. Dir. P. Rawkins	Okanagan-Similkameen Reg. Dist.
Alt. Dir. J. Piazza	Okanagan-Similkameen Reg. Dist.

**STAFF:**

P. Mackiewich	Administrator
G. Armour	Field Supervisor

**ALSO PRESENT:**

Dr. P. Newroth	Ministry of Environment
Mr. M. Maxnuk	Ministry of Environment
Alderman M. Cahill	District of Peachland

**PURPOSE OF THE MEETING:**

The purpose of the meeting was to consider staff salaries and the Jennens agreement.

**STAFF SALARIES:**

Moved by Director Oystryk, seconded by Director Blattner:

"That Mr. G. Armour be awarded a salary increase of 3% retroactive to January 1st, 1983, with no increase for 1984 and that the outside staff salaries be increased by 0% in 1983 and 3% in 1984.

CARRIED.  
DIRECTORS MacARTHUR AND HORNING OPPOSED.

**JEN INDUSTRIES LTD. AGREEMENT:**

Moved by Director Horning, seconded by Director Blattner:

"That action covering the Chattel Mortgage between Jen Industries Ltd. and the Okanagan Basin Water Board not be taken at this time, but no further funds be advanced to Mr. Jennens."

CARRIED.

**ADJOURNMENT:**

There being no further business, the meeting adjourned at 6:00 p.m.



**ADJOURNMENT:**

There being no further business, the meeting adjourned at 6:00 p.m.



CHAIRMAN

SECRETARY-TREASURER

OKANAGAN BASIN WATER BOARD

MINUTES OF A REGULAR MEETING OF THE OKANAGAN BASIN WATER BOARD HELD IN THE REGIONAL DISTRICT OF NORTH OKANAGAN BOARD ROOM, 2903 - 35TH AVENUE, VERNON, B. C., ON THURSDAY, FEBRUARY 2ND, 1984 AT 1:30 P.M.

---

PRESENT:

Director E. Lamont	Central Okanagan Reg. Dist.
Director A. Horning	Central Okanagan Reg. Dist.
Director N. Oystryk	Central Okanagan Reg. Dist.
Director R. P. French	North Okanagan Reg. Dist.
Director H. Blattner	North Okanagan Reg. Dist.
Director J. MacArthur	North Okanagan Reg. Dist.
Alt. Dir. P. Rawkins	Okanagan-Similkameen Reg. Dist.
Alt. Dir. J. Piazza	Okanagan-Similkameen Reg. Dist.

STAFF:

P. Mackiewich	Administrator
G. Armour	Field Supervisor

ALSO PRESENT:

Alt. Dir. R. W. Postill	North Okanagan Reg. Dist.
Mayor L. Hanson	City of Vernon
Alderman F. Hartley	City of Vernon
Alderman M. Cahill	District of Peachland
Alderman S. White	District of Summerland
Dr. M. Smart	North Okanagan Health Unit
Mr. R. Nickel	Ministry of Environment
Mr. T. Forty	Ministry of Environment
Dr. P. Newroth	Ministry of Environment
Mr. M. Maxnuk	Ministry of Environment

Delegation of approximately 50 persons.

Director Lamont, Chairman of the 1983 Okanagan Basin Water Board called the meeting to order and welcomed the new Board to the meeting. He thanked Mr. P. Mackiewich and Mr. G. Armour for the work they have done during 1983, for their co-operation and for the fiscal responsibility shown in administering the Board's 1983 Budget.

APPOINTMENT OF DIRECTORS - 1984 TERM:

The Board was advised that the following persons have been appointed as Directors of the Okanagan Basin Water Board for the year 1984:

Regional District of North Okanagan:

- R. French  
- H. Blattner  
- J. MacArthur  
(Alternates: R. W. Postill; J. Foord)

Regional District of Central Okanagan:

- E. Lamont  
- A. Horning  
- N. Oystryk  
(Alternate: J. Stuart)

Regional District of Okanagan-Similkameen:

- R. Frost  
- R. Biggs  
- E. Hermiston  
(Alternates: J. Piazza; P. Rawkins)

Observers:

- Alderman M. Cahill, District of Peachland.

**ELECTION OF CHAIRMAN:**

The Administrator advised the Board that it has been the practice to rotate the Chairmanship among the Regional Districts and that in 1982 the Chairman was from Okanagan Similkameen and in 1983 the Chairman was from Central Okanagan and if normal practice is followed, the 1984 Chairman would be from North Okanagan.

The Administrator then called for nominations for the position of Chairman for the year 1984, and it was moved by Director MacArthur, seconded by Director Blattner:

"That Director R. P. French be nominated as Chairman of the Okanagan Basin Water Board for the year 1984."

It was moved Director Oystryk, seconded by Director Horning:

"That Director E. Lamont be nominated as Chairman of the Okanagan Basin Water Board for the year 1984."

There being no further nominations, nominations were closed and a ballot vote was taken.

Director E. Lamont was declared re-elected as Chairman for the year 1984.

Director Lamont then assumed the Chair and thanked the Board for expressing confidence in him.

**ELECTION OF VICE-CHAIRMAN:**

Moved by Director Blattner, seconded by Director Horning:

"That Director R. P. French be nominated as Vice-Chairman for the year 1984."

CARRIED.

There being no further nominations, Director French was declared Vice-Chairman.

**ADOPTION OF MINUTES:**

Moved by Alt. Director Piazza, seconded by Director Blattner:

"That the minutes of a regular meeting of the Okanagan Basin Water Board held on November 3rd, 1983 be adopted as circulated."

CARRIED.

It was further moved by Alt. Director Piazza, seconded by Director French:

"That the minutes of the meeting of the Board in Committee of the Whole held on November 3rd, 1983 be adopted as circulated."

CARRIED.

**DELEGATIONS:**

The Board was advised that the large attendance at today's meeting is to provide an opportunity for the various groups to express opinions on the application of the City of Vernon to discharge treated sewage effluent into Okanagan Lake.

Mr. Jack Barker, representing the Greater Vernon Environmental Committee, stated that his group is here to listen to other points of view and to respond. The Greater Vernon Environmental Committee is opposed to any form of sewage discharge into Okanagan Lake and is concerned over the lake quality and have made representations to the City of Vernon and to the Provincial Cabinet in this regard. It has noted that the City of Vernon has made certain efforts to avoid lake discharge and the Committee is pleased.

The Committee is now concerned over the possible discharge on March 20th, 1984. The Committee was told that there were no alternatives to discharge in 1983, it was convinced there were, and was proven right.

The Committee notes that Vernon's plant is compared to Monterey's, as Vernon's plant will only remove 20% of the viruses before discharge, and not 99% as stated.

The Committee realizes that there is no simple solution and that there is not a single answer. They would like to see a waste water management plan in place, which plan should have already been implemented. They now hear that it won't be implemented until 1985. There is now a crisis which is not only Vernon's, but also Okanagan Lake's.

The rapid infiltration system should have been backed up, but now there are problems with it. The Provincial Government is also at fault for not providing direction.

17 bauer guns should create sufficient storage for the winter and the Committee is not convinced that 17 bauer guns cannot operate and that there is not sufficient land available.

Mayor Hanson stated that what Mr. Barker said has some inaccuracies, but that he has no argument with most of his statement. He does not argue that 17 bauer guns can be used, however, that many guns cannot be run all the time because other problems are then caused, such as the flooding of Rolling Hills.

The City of Vernon has been advised that the proposed treatment of the sewage effluent before discharge has a quality and quantity such that it would not harm the lake. If an unlimited supply of money was available, the sewage disposal problem could be solved more easily, but the Greater Vernon area could not finance the dollars which would be required to avoid a lake discharge of sewage.

Mayor Hanson stated that it is important that we do everything reasonably and practically to keep sewage out of Okanagan Lake, but that is all that we can do.

Many persons have suggested that there should be back up programs, but no one has said what such programs should be and whether or not they are affordable. The anticipated sewage discharge this spring will be minimal and it is still possible that it may not happen.

Mr. M. Davies reported that the City has spent \$1.5 million on acquiring new land for spray irrigation and this land is also good for rapid infiltration as a back up.

Dr. Smart was asked about the water quality which would be discharged and replied that until the pilot project is undertaken, there are no technical persons which could tell anyone what would happen. When the pilot project has been completed, then the technical people will be in a position to advise on the adverse affects, if any.

Mr. Ken Holmes, representing the residents of the Rolling Hills subdivision, agreed that Mr. Barker's statements had some merit, however, all the health hazards referred to by lake discharge are more prevalent in spray irrigation. He noted that last year the City oversprayed the lands. Such action was brought to the attention of the Regional Board and the City and the Waste Management Branch finally agreed that there might be some damage to the land and to the environment. If the spray irrigation system was operated in accordance with the permit, damage to the land and to the environment would not have happened.

Mr. Holmes stated that spray irrigation creates aerosols which carry viruses. Reports say that bees must be protected and that people working in this environment are given time to shower, etc.. The City is caught in a web which is not of its own making. The first report prepared for the City of Vernon recommended that not all of the sewage discharge be removed from Okanagan Lake, however, the Provincial Government directed that all such discharge be removed.

Mr. Holmes stated that the residents don't want to see sewage effluent dumped into Okanagan Lake, but want assurances that the spray irrigation program won't affect their health or their property.

Director Blattner noted that one of the problems is an over abundance of water to be processed and asked whether water meters could be installed to restrict water consumption.

Director MacArthur replied that the City has addressed water conservation on a broad front and that it would require \$1.5 million to install water meters, which only appear to reduce the use of irrigation water and not the household supply.

Mr. R. Vest advised that the City of Vernon is working towards long range plans to eventually have meters in all households, however, to retrofit existing households with meters is very expensive. New construction is required to install water meters now and in 10 - 15 years, the majority of all buildings will have meters.

Mr. John Hall stated that the spray irrigation system operated by the City cannot be called irrigation, but is sewage disposal. He said that he has lived in the Rolling Hills subdivision for 8 years and has never seen water running in the ditches like there is now.

Mr. Barker suggested that the study report prepared for the Okanagan Basin Water Board be read because the Board's motion to support a limited discharge of sewage into Okanagan Lake is in direct conflict with the report. He asked whether "No Swimming" signs will again be posted at the beach and whether people taking water from the lake will be allowed to continue using the water without boiling it.

Dr. Smart replied that he cannot tell what the water would be like six months from now. The previous shut down of the Kinsmen Beach area was not all due to Vernon's sewage discharge. The birds, septic tanks, and bathers all contributed to this shutdown.

Mr. R. Nickel stated that the City of Penticton discharges its sewage effluent into the channel and subsequently into Skaha Lake. The channel has become a very popular place for rafting and there is no evidence of contamination of the beach.

Mr. Rittenback observed that the water is now being discharged into Okanagan Lake, but it is running through the Rolling Hills subdivision first.

Alderman F. Hartley advised that the City of Vernon is the only major Okanagan city which is not putting its sewage effluent into Okanagan Lake. Cultures can be taken above the discharge at the sewage plant and found to be much higher than discharges below the plant. The City of Vernon is driven to the point where it must put its renovated waste water into the lake if the conditions remain as they are. The City has done study after study and has been responsive.

Mr. Barker noted that the alum treatment does not remove the viruses, it simply settles them into the sludge. He asked how the sludge would be disposed of.

Mr. Tim Forty replied that if the sludge is handled properly, it can be disposed of and be environmentally safe by spreading it on the land and immediately discing it in or by heating and aging it.

Dr. Smart was asked to provide the Board with a report on the pilot project of the City when such report has been completed.

Alt. Director Piazza stated that he is not happy over the discharge of treated effluent into the lake and believes Vernon must do everything possible to avoid the lake discharge.

Director Blattner suggested that the financial formula of the Okanagan Basin Water Board for sewage assistance be reviewed and perhaps the sharing should be only on the tertiary treatment portion of the facilities and not on the collection system.

Director Horning stated that the City of Vernon has to be given a chance to prove its system. Other communities have spent a lot of time and funds so that they could discharge into the lake and that Vernon should be given the same opportunity to prove its system.

After some discussion, it was finally moved by Director Horning, seconded by Director Blattner:

"That the time limit on the resolutions recorded on Page Five of the regular meeting of the Board held on July 7th, 1983 be amended to read between April 30th and September 30th."

CARRIED.

The delegation was thanked for its presentation and left the meeting.

CORRESPONDENCE:

DR. P. R.  
NEWROTH:

Province's Position re Jennens Machine:

Dr. P. Newroth reviewed the history of the involvement of the Province and Board in the development of the Jennens machine.

He advised that in 1979 the Ministry of Environment made a grant of \$20,000 to Mr. Jennens and in 1980, a further \$37,500 and at that time, the Okanagan Basin Water Board made a grant of \$12,500.

Subsequently, the Provincial Government released Mr. Jennens from all claims and has advised him that it has no further interest in his machine.

Moved by Director Oystryk, seconded by Director French:

"That consideration of the Board's position on the Jennens machine be referred to Committee for discussion."

CARRIED.

C.O.R.D.: Water Conservation Fixture Required in Westbank:

Moved by Director MacArthur, seconded by Director Horning:

"That the policy of the Central Okanagan Regional District requiring the installation of plumbing fixtures conserving the use of water and reduce the amount of effluent entering the community sewer system be endorsed and supported."

CARRIED.

DEPUTY MINISTER OF ENVIRONMENT: Cost Sharing - Zosel Dam:

Correspondence was received from the Deputy Minister of Environment indicating that recent conversation with officials of the Washington State Department of Ecology reveals that there is no immediate threat of their funds being withdrawn, but because of the current economic climate, finding money to help pay for a dam to be constructed outside of the Province is unlikely to receive a very high priority.

Alt. Director Piazza advised that the Dam does effect lands within the Province and problems have been created all along and will continue to be created if the Dam is not replaced.

Moved by Alt. Director Piazza, seconded by Alt. Director Rawkins:

"That a further letter be written to the Ministry of Environment requesting that discussions covering the replacement of Zosel Dam be carried on rapidly and the project be carried out as quickly as possible."

CARRIED.

P. M. BRADY: Provisional Budget Cost Sharing:

Moved by Director Blattner, seconded by Director MacArthur:

"That the letter received from P. M. Brady, Director, Water Management Branch, advising that a request for the Provincial 75/25% funding will not be ratified until approved by the Legislature early in 1984 when the overall provincial demands for aquatic weed control can be more readily reassessed, be received and filed."

CARRIED.

**SEWERAGE FACILITIES ASSISTANCE GRANTS:**

Moved by Director Blattner, seconded by Director MacArthur:

"That the following Sewerage Facilities Assistance Grants be approved for payment:

City of Vernon:	July 1 - Dec. 31/83	\$ 80,998.53
Dist. of Coldstream:	July 1 - Dec. 31/83	21,691.03
City of Penticton:	July 1 - Dec. 31/83	79,914.00
City of Kelowna:	Jan. 1 - Dec. 31/83	243,379.49
Town of Osoyoos:	Jan. 1 - Dec. 31/83	31,120.13."

CARRIED.

**NEW AND UNFINISHED BUSINESS:**

**DISCHARGE OF  
TREATED SEWAGE  
EFFLUENT:**

**City of Vernon:**

Mr. R. Nickel, Ministry of Environment, advised the Board that the Board's resolution restricting discharge of treated sewage effluent between the periods of April 30th and September 30th is insufficient time for the City to complete its upgrading of the plant and to lower the reservoir.

He stated that the tentative start up date for discharge is between March 15th and 20th, 1984 and will require approximately 60 days of discharge at 8 acre ft. per day.

Moved by Director Horning, seconded by Director Blattner:

"That the July 7th, 1983 resolutions recorded on Page 5 of the minutes of a regular meeting of the Board be further amended to prohibit the discharge of sewage between May 30th and September 30th."

CARRIED.

ALT. DIRECTOR PIAZZA OPPOSED.

**BRENDA MINES:**

**Discharge of Water from Tailings Pond:**

A lengthy discussion arose over the proposed discharge of water from the Brenda Mines tailings pond to Trepanier Creek.

Director Oystryk advised that the District of Peachland and the citizens are opposed to this. A second application was made by Brenda Mines Ltd. to discharge the water to Peachland Lake and the mine was given one year to do something about their problem, but to date, have not acted.

The District of Peachland Council receives no information from the Waste Management Branch nor Brenda Mines Ltd. on their proposed activities and has to learn from the news media.

Mr. R. Nickel reported that the problem of the water in the tailings pond at Brenda Mines is complex and is a serious situation. The Waste Management Branch is holding the application to discharge in Trepanier Creek in abeyance. He reported that the mine did try to resolve their problem. They took every effort to spray irrigate 600 acre ft. of water. They had also spray irrigated to the areas above the impoundment.

The mine was shut down on September 30th and when the shut-down occurred, the sand dam drained like a sponge. When the dam drained, it was pumped back into the impoundment. When the mine is shut down, the problem is more critical.



Alderman Cahill expressed concern that the mine and Waste Management Branch are not communicating with the District of Peachland Council. He also expressed concern that if the tailings pond dam lets go, Peachland could be subject to catastrophic results.

Mr. Nickel agreed that there is a problem and danger and noted that the mine did take measures to lower the water to 11 ft., but the natural entrainment was in excess of everyone's worst expectations. Waste Management Branch and Brenda Mines Ltd. are trying to find a solution to mitigate the problem. There has to be relief and the relief must be such that will minimize everyone's concern.

The discharge to Trepanier Creek has not been approved. He noted that there were two problems. One, water presently in the dam and two, the water which will come in to properly manage the problem and to protect the area's water supply. The water must be discharged during freshet so it can be diluted.

Brenda Mines is responsible for the dam's stability and the Branch must work with them.

It was finally moved by Director Horning, seconded by Director Blattner:

"That, due to the apparent crisis at Brenda Mines Ltd. requiring the discharge of water from the tailings pond, such discharge be supported on a once only basis to alleviate a crisis. Once the crisis has been alleviated, it be recommended that officials of the Waste Management Branch, Brenda Mines Ltd., and the District of Peachland sit down and work out a solution so the problem does not again arise and that any works required to eliminate future discharge of water from the tailings pond into the creeks or lake be constructed within one (1) year."

CARRIED.  
DIRECTOR OYSTRYK OPPOSED.

REVIEW OF  
BURLAP PROGRAM:

Mr. Armour reported that in 1983, 50 rolls of burlap were purchased at a cost of \$10,000 and the burlap was offered for sale to the general public for use as bottom barrier weed control. 20 rolls were sold and 15 rolls were used by the staff in the Aquatic Weed Control Program.

Dr. Newroth and Mr. Maxnuk advised the Board that there is now a new material on the market called Texel which is more resistant to rot than burlap which only provides 2 - 3 years of control. Texel is more easily applied as it comes in 10 ft. rolls and the price differential is not great. Roots will penetrate Texel, but it is easy to clean and could last up to 10 years.

Moved by Director French, seconded by Director Blattner:

"That the \$4,000 revenue generated from the sale of burlap be used to replace the existing stock of burlap or for the acquisition of a better product, if possible."

CARRIED.

REVIEW OF  
1984/85  
PROGRAM:

Aquatic Weed Control:

Mr. Armour reviewed the proposed 1984/85 Aquatic Weed Control Program and stated that the same works as last year will be provided. Four harvestors will be working and the harvesting schedule should be completed within the next month.

It is anticipated that the harvesting program will commence early in June in the south end of the valley and work will commence in the north end approximately two weeks later.

It is anticipated that the program will finish on Labour Day. Last year our plans were altered in response to the increasing priority for harvesting public areas and the increased weed growth in Skaha and Wood Lakes. The effort was reduced in more remote areas, such as the West side of Okanagan Lake.

Again funds have been allocated for winter derooting by rototilling and cultivating in areas not effectively treated by harvesting or where significant reduction of harvesting time can be achieved.

The equipment repair budget has been augmented to reflect the increasing age of the machines and the depletion in the stock of spare parts.

Moved by Director MacArthur, seconded by Alt. Director Piazza:

"That the Aquatic Weed Harvesting Program for 1984/85, as outlined by Mr. Armour, be endorsed.

CARRIED.

WEED CONTROL:

Alternate Methods:

Mr. Maxnuk reported that the major emphasis covering aquatic weed control has been the operation of four harvesters. This method of control is largely an unsatisfactory method for many reasons and suggested other control methods should be considered such as bottom barriers, rototilling, etc.

Mr. Armour stated that he is not sure that harvesting should be reduced because of limited season. In the off season, other types of equipment and methods could be used and this is being done.

Mr. Maxnuk replied that it is not the objective to reduce harvesting activities, the intent is to improve the quality of work done and relieve harvesting to a certain extent.

Moved by Alt. Director Piazza, seconded by Director French:

"That staff work towards diversification of the aquatic weed control methods."

CARRIED.

ANNUAL BUDGET:

1984:

Moved by Director Blattner, seconded by Director Piazza:

"That the 1984 Annual Budget of the Okanagan Basin Water Board be adopted as presented."

CARRIED.

BLOCKED RIVER  
CHANNEL:

Osoyoos Lake:

Alt. Director Piazza reported that the old river channel on Osoyoos Lake is still blocked off and he would like something done about it.

Mr. Maxnuk stated that the complaint has been forwarded to the Water Management Branch in Penticton and a meeting will be arranged with representatives of the Branch and Alt. Director Piazza.

INFESTATION OF WATER FOWL:

Director MacArthur expressed concern over the overpopulation of geese in the area and it was moved by Director MacArthur, seconded by Alt. Director Rawkins:

"That the Fish & Wildlife Branch and Canadian Wildlife Service be advised of the severity of the goose problem in the area and they be requested to take remedial action to reduce the goose population."

CARRIED.

ADJOURNMENT:

There being no further business, the meeting adjourned at 5:45 p.m.



CHAIRMAN



SECRETARY-TREASURER

PM/las

## OKANAGAN BASIN WATER BOARD

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD IN COMMITTEE OF THE WHOLE HELD IN THE REGIONAL DISTRICT OF CENTRAL OKANAGAN BOARD ROOM, 540 GROVES AVENUE, KELOWNA, B. C. ON TUESDAY, JUNE 26TH, 1984 AT 3:40 P.M.

---

**PRESENT:**

Chairman E. Lamont	Central Okanagan Reg. Dist.
Director A. Horning	Central Okanagan Reg. Dist.
Director R. P. French	North Okanagan Reg. Dist.
Director H. Blattner	North Okanagan Reg. Dist.
Director J. MacArthur	North Okanagan Reg. Dist.
Director R. Frost	Okanagan-Similkameen Reg. Dist.
Director R. Biggs	Okanagan-Similkameen Reg. Dist.
Director E. Hermiston	Okanagan-Similkameen Reg. Dist.

**STAFF:**

P. Mackiewich	Administrator
G. Armour	Field Supervisor

**ALSO PRESENT:**

Dr. P. Newroth	Ministry of Environment
Mr. M. Maxnuk	Ministry of Environment
Mr. R. Nickel	Ministry of Environment
Mr. T. Forty	Ministry of Environment
Mayor L. Hanson	City of Vernon
Mayor J. Hindle	City of Kelowna
Mayor I. Messmer	City of Penticton
Mr. D. McDougall	Chairman, O.S.R.D.

### **PURPOSE OF THE MEETING:**

The purpose of the meeting was to review the methods used to dispose of sewage effluent within the Okanagan Basin and to discuss restructuring of the Okanagan Basin Water Board.

Mr. Tim Forty, Waste Management Branch, outlined the different methods used by the various jurisdictions to dispose of sewage effluent.

He explained how each method works and noted that the City of Armstrong uses a lagoon treatment system and puts its discharge into the creek and will eventually have a spray irrigation system in place. The City of Vernon employs a trickling filter system and disposes of its water by spray irrigation and has recently had a lake discharge. The City of Kelowna has a Bardon Pho treatment system which discharges into Okanagan Lake. The community of Westbank uses an aeration system and is in the process of installing rapid infiltration beds. The City of Penticton has an aeration type of system and is setting up drying beds and discharge into Okanagan Lake. The Community of Okanagan Falls uses an oxidation ditch. The Village of Oliver has a secondary aeration system and uses spray irrigation. The Town of Osoyoos uses a system similar to Vernon's with spray irrigation.

Mr. R. Nickel reviewed the water quality of the Okanagan Lakes, the recommendation of the Implementation Board, and recommended that a Waste Management Plan be developed. He noted that the areas which need immediate attention are the Okanagan Landing and Winfield areas and recommended that a Waste Management Plan be developed, refined, and the Plan be ultimately implemented.

He stressed the need to install a sewage collection system, both in the Okanagan Landing and Winfield areas.

The Chairman thanked Mr. Nickel and Mr. Forty for their presentation and indicated that the Board would take the recommendations under advisement.

RESTRUCTURING: Okanagan Basin Water Board:

Discussion arose over the recommendations from the Ministry of Environment that the Okanagan Basin Water Board be restructured to comprise of the three Regional District Chairmen and the Mayors of the Cities of Vernon, Kelowna, and Penticton.

The Chairman suggested that the role of the Okanagan Basin Water Board, whatever its structure, should be aquatic weed control, co-ordination of water resource activities, a lobby group for funds and recommended that the Federal Government should also be involved financially, similar to the Provincial involvement.

Mayor Hindle stated that the Mayors could be just as effective a lobby group as the Board. The Board's function should be visual, such as weed harvesting and the distribution of the 1 mill sewerage fund levy. It is also an appropriate vehicle if the Federal Government, etc., wants to participate financially.

Mayor Hindle stated that he is of the opinion that lobbies work much better on a one or two people basis, rather than a delegation.

Mr. McDougall suggested that if the Board is to be restructured, it should consist of the Mayors of Vernon, Kelowna, Penticton, and Osoyoos and the three Regional District Chairmen because the Town of Osoyoos ultimately receives all of the Okanagan Basin water through its community.

Mayor Hanson indicated that he is skeptical about changing the Okanagan Basin Water Board structure and fails to see how a restructured Water Board would be more effective as a lobby group than on an individual basis.

Mayor Messmer stated that when the three major city Mayors met with the Minister he suggested that perhaps another Board in the Okanagan Basin would be required. The Mayors told him that another Board is not required, but what is required is more involvement of the Government agencies to guide us.

Director Frost asked whether all municipalities feel that the Okanagan Basin Water Board should have power over water quality and quantity and to bring in the various Ministries for help when required.

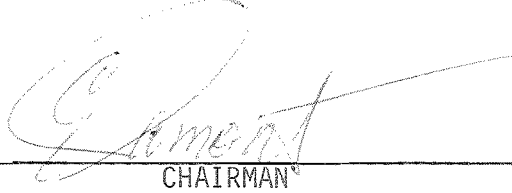
Mayor Messmer noted that at times it is difficult to get communities to pull together because of their own problems and that it may not be possible to abide by the regulations of this Board.

Mr. Nickel recommended that the Water Board utilize its fund to assist municipalities who have problems and to develop Waste Management Plans.

Mayor Hanson expressed the opinion that unless the responsibility of the Okanagan Basin Water Board is changed legislatively, he could not see how the three major city Mayors and the three Regional District Chairmen could do any better than the present Board does.

**ADJOURNMENT:**

After some discussion, the meeting adjourned at 4:50 p.m.



CHAIRMAN



SECRETARY-TREASURER

PM/las

OKANAGAN BASIN WATER BOARD

MINUTES OF A REGULAR MEETING OF THE OKANAGAN BASIN WATER BOARD HELD IN THE  
REGIONAL DISTRICT OF CENTRAL OKANAGAN BOARD ROOM, 540 GROVES AVENUE, KELOWNA,  
B. C., ON TUESDAY, JUNE 26TH, 1984 AT 1:30 P.M.

---

PRESENT:

Director E. Lamont	Central Okanagan Reg. Dist.
Director A. Horning	Central Okanagan Reg. Dist.
Director R. P. French	North Okanagan Reg. Dist.
Director H. Blattner	North Okanagan Reg. Dist.
Director J. MacArthur	North Okanagan Reg. Dist.
Director R. Frost	Okanagan-Similkameen Reg. Dist.
Director R. Biggs	Okanagan-Similkameen Reg. Dist.
Director E. Hermiston	Okanagan-Similkameen Reg. Dist.

STAFF:

P. Mackiewich	Administrator
G. Armour	Field Supervisor

ALSO PRESENT:

Dr. P. Newroth	Ministry of Environment
Mr. M. Maxnuk	Ministry of Environment

MINUTES:

Moved by Director Horning, seconded by Director French:

"That the minutes of a regular meeting of the Okanagan Basin Water Board held on February 2nd, 1984 be adopted as circulated."

CARRIED.

Further moved by Director Frost, seconded by Director Horning:

"That the minutes of a meeting of the Okanagan Basin Water Board in Committee of the Whole held on February 2nd, 1984 be adopted as circulated."

CARRIED.

DELEGATIONS:

MR. ROBERT MILES Sierra Club of Western Canada:  
& MR. AL CURRIE:

Mr. Robert Miles, Conservation Chairman, and Mr. Al Currie of the Sierra Club of Western Canada appeared before the Board and advised that the Sierra Club of Canada will be making a presentation to the Dr. Peter Pearse Enquiry on Federal Water Policy.

The Enquiry members will be seeking views on Federal water policies to determine what the water issues of greatest concern to Canada and Canadians are, such as regional scarcity, floods, acid rain, safe drinking water, adequate supplies of agricultural, industry, navigation, mega projects effects, export schemes, conserving the fishery, recreation, wildlife, etc..

Mr. Miles advised that the Victoria group of the Sierra Club will be looking after British Columbia, the Southern Interior group will be looking after the Okanagan Basin and noted that the Pearse Commission has been asked to stop here for at least seven days to receive submissions.

Dr. Pearse and his group will be looking at everything concerning water. The Sierra Club is using the 1973 Basin Study for information gathering and is looking at forest harvesting practices, and mineral resource extraction.

Mr. Miles advised that the purpose of their delegation today is to let the Board know what the Sierra Club will be doing in this regard and to enquire whether they may obtain information from the Okanagan Basin Water Board to assist them.

Mr. Al Currie asked for permission to go through the Okanagan Basin Water Board minute books to extract pertinent information from them. He noted that public attention was attracted when the Okanagan Basin Water Board approved the dumping of Vernon sewage into the Okanagan Lake system, as well as the approval of the one time dumping of the Brenda Mines tailings pond water.

Mr. Currie also asked whether the Board has any opinion about the rise in phosphate levels up to the 1979 level and whether they have considered cross membership with Union Boards of Health.

Mr. Currie requested permission to attend a subsequent meeting of the Board to obtain answers to the questions raised.

The Chairman advised the delegation that the Board is looking at its structure and asked whether they had any recommendations to make covering the Water Board structure.

Mr. Currie stated that he feels that the Water Board should be a supreme authority and that members should be elected based on population distribution. He expressed concern that some people elected to Boards do not have interests that are related to water.

Further discussion with the delegation revealed that the deadline for submissions to the Enquiry on Federal Water Policy is June 30th, 1984, however, they did not feel that this date was firm.

It was also noted that the Consumers' Association of Canada will be making a presentation to the Pearse Commission in keeping with other environmental briefs.

After some discussion, it was moved by Director MacArthur, seconded by Director Biggs:

"That the parent Regional Districts be asked for their recommendations on the type of involvement which the Okanagan Basin Water Board should have with the Pearse Commission on the Enquiry on Federal Water Policy."

CARRIED.

MR. LEN  
WYDRZYCKI:

Holiday Park - Ellison Lake Milfoil:

Mr. Len Wydrzycki appeared before the Board and advised that he has invested approximately 2.5 million dollars in developing Holiday Park at the north end of Ellison Park. He has developed 160 units and eventually proposed to expand to 400 units for recreation vehicles.

He stated that Ellison Lake is infested with weeds and milfoil has come into the lake this year, both at the north and south ends.

Dr. Peter Newroth advised that the Ministry of Environment has been concerned for some time that milfoil might get into Ellison Lake and has checked the lake every year except last year. Native weeds were in the lake, but milfoil wasn't noticed until recently.

/...3



Most of the weeds now are not milfoil, but are native species, however, it is anticipated that milfoil will eventually overcome the native weeds and the lake will look like Vaseux Lake in time.

Dr. Newroth was of the opinion that eradication now would be impossible. He also noted that the developer intends to build channels similar to Westside Keys and suggested that this action be discouraged. Ellison Lake is not within Provincial jurisdiction as it is located within Indian Reserve lands and, to date, the Board's policy has been to treat main lake areas which are used publicly.

Dr. Newroth advised that the alternatives available for weed control in Ellison Lake are limited. He suggested that mechanical harvesting would be very expensive as a stop gap measure.

Mr. Greg Armour noted that Ellison Lake is connected to Wood Lake by a creek which contains a spawning ground, therefore, herbicide application would be impractical.

In addition, the Water Board budget has been cut and any weed control would need to be carried out at the expense of other areas. Mr. Armour estimated that the cost to harvest at Ellison Lake would be about \$2,000.

Director Blattner entered the meeting.

After some discussion, it was moved by Director Frost, seconded by Director Biggs:

"That if Mr. Len Wydrzycki and Holiday Park Resort are prepared to pay for the cost of harvesting the weeds in Ellison Lake, the Okanagan Basin Water Board endeavour to make a machine available to carry out the harvesting, otherwise the policy of harvesting on the main lakes be maintained."

CARRIED.

The Board recommended to Mr. Wydrzycki that he submit a letter requesting the harvesting of weeds in Ellison Lake in 1985, which could be considered when the Board establishes its priorities in that year.

#### CORRESPONDENCE:

P. M. BRADY:

1984 Provincial Funding Reduced by \$9,000:

Correspondence was received from P. M. Brady, Director, Water Management Branch advising that the Provincial contribution for 1984/85 is for up to \$119,000 in cash, plus up to \$4,000 in service to be provided by the Water Management staff based in Vernon.

It was noted that this is \$9,000 less than the 1983/84 Provincial contribution.

After some discussion, it was moved by Director MacArthur, seconded by Director Biggs:

"That a strong worded letter be sent to all the M.L.A.'s affected, the Leader of the Opposition, and to the Minister of Environment protesting the cuts in the Provincial contribution for aquatic weed control."

CARRIED.

Dr. Newroth explained that the Ministry of Environment has quite a competition for its funds, has had its own budget cut and, therefore, has not been able to make the requested funds available to the Okanagan Basin Water Board.

ENVIRONMENT  
CANADA:

Environment 2000 Grant Application Denied:

Advice was received from Environment Canada that the Water Board's application for funding of a milfoil control program under the Environment 2000 Program has been denied, due to insufficient funds and the overwhelming public demand for the funds.

Moved by Director Blattner, seconded by Director French:

"That if a similar program is available to Environment 2000 in the future, a grant application be again submitted because of the funding cuts which have been made by other agencies."

CARRIED.

BRENDA  
MINES LTD.:

Justification for Discharge:

A letter from Brenda Mines Ltd. justifying their need to discharge tailings pond water was received for information.

In addition, a copy of a brief which was submitted to the Central Okanagan Regional District by Brenda Mines Ltd. on April 16th, 1984 was circulated among the members of the Board.

SUMMERLAND  
SPORTSMAN'S  
ASSOCIATION:

Concern over Brenda Mines Ltd. Discharge:

Moved by Director Biggs, seconded by Director Hermiston:

"That the correspondence from the Summerland Sportsmans' Association expressing concern over the Brenda Mines Ltd. discharge of tailings pond water be received and filed."

CARRIED.

CONCERNED  
CITIZENS OF  
PEACHLAND:

Concern over Brenda Mines Ltd. Discharge:

Moved by Director Frost, seconded by Director Horning:

"That the correspondence from the Concerned Citizens of Peachland regarding the dumping of Brenda Mines Ltd. tailings effluent into Peachland Creek be received and filed."

CARRIED.

FATHOM DIVING:

Request Renewal of Agreement:

A submission was received from Fathom Diving requesting renewal of the lease agreement for the use of boats and equipment for the harvesting of aquatic weeds.

Moved by Director Biggs, seconded by Director Horning:

"That tenders be invited from interested persons who may wish to lease the surplus boats and equipment for harvesting aquatic weeds."

MOTION DEFEATED.

In discussing the resolution, Mr. Armour advised that this equipment may be required by our own crews in the event of equipment failures or losses.

Moved by Director Blattner, seconded by Director Frost:

"That the surplus boats and equipment not be leased or loaned out and they be retained for our own use."

CARRIED.

SEWERAGE FACILITIES ASSISTANCE GRANTS:

Moved by Director French, seconded by Director Biggs:

"That the following Sewerage Facilities Assistance Grants be approved for payment:

Town of Osoyoos:	Jan. 1 - Dec. 31st	\$ 53,195.00
City of Penticton:	Balance of 1983 Grant	\$ 3,129.28."

CARRIED.

Further moved by Director Frost, seconded by Director Horning:

"That the Sewerage Facilities Assistance Grant application from the Village of Oliver for January 1st - December 31st in the amount of \$64,838.00 be approved for payment as soon as the eligibility of their system is established."

CARRIED.

NEW AND UNFINISHED BUSINESS:

APPOINTMENT  
OF SIGNING  
OFFICERS:

Moved by Director MacArthur, seconded by Director Horning:

"That Peter Mackiewich, the Secretary-Treasurer of the Okanagan Basin Water Board, be and is hereby authorized for and on behalf of the corporation to negotiate with, deposit with, or transfer to the Royal Bank of Canada (but for credit of the corporation's account only) all or any cheques and other orders for payment of money and for the said purpose to endorse the same or any of them on behalf of the corporation either in writing or by rubber stamp;

That all cheques of the corporation be drawn in the name of the corporation and be signed on its behalf by E. Lamont - Chairman, R. P. French - Director, R. W. Postill - Alt. Director and signed by P. Mackiewich, Secretary-Treasurer - Any two to sign and, further, that all cheques under the sum of \$5,000 may be mechanically signed by any of the above officers;

That Peter Mackiewich, Secretary-Treasurer be and is hereby authorized for and on behalf of the corporation from time to time to receive from the said Bank a statement of the account of the corporation together with all relative vouchers and all unpaid bills lodged for collection by the corporation and all items returned unpaid and charged to the account of the corporation, and to sign and deliver to the said Bank the Bank's form of verification, settlement of balance and release;

That Peter Mackiewich, Secretary-Treasurer be and is hereby authorized for and on behalf of the corporation to obtain delivery from said Bank of all or any stocks, bonds and other securities held by the said Bank in safekeeping or otherwise for the account of the corporation and to give valid and binding receipts therefor;

That this resolution be communicated to the said Bank and remain in force until written notice to the contrary shall have been given to the Manager for the time being of the branch of the said Bank at which the account of the corporation is kept, and receipt of such notice duly acknowledged in writing."

CARRIED.

FISCAL YEAR EXPENDITURES:

A statement showing the expenditures for the fiscal year 1983/84 April 1st, 1983 to March 31st, 1984 was circulated among the members of the Board, which statement showed that a total of \$169,395 were expended during this period.

Mr. Armour advised that for the first time since inception of the program, the Provincial Government has made less money available to operate the Aquatic Weed Harvesting Program than the previous years.

REVIEW OF WINTER TILLAGE:

Moved by Director Frost, seconded by Director Blattner:

"That the Winter Tillage Report, as presented by Mr. Armour, be received for information."

CARRIED.

REVIEW OF 1984 HARVESTING SCHEDULE:

The Board reviewed the 1984 Aquatic Weed Harvesting Schedule, as prepared by Mr. Armour, and no concerns were expressed.

REVIEW OF 1 MILL LEVY:

Cost Sharing Formula:

An analysis of the sufficiency of the 1 mill fund Sewerage Facilities Assistance Fund was reviewed by the Board which showed that the balance in the Sewerage Facilities Assistance Fund at December 31st, 1983 was \$1,814,000. The 1984 revenue will be \$1,043,235 and the expenditures will be \$1,115,000.

Based on information received from the Regional Districts and its member municipalities, future sewerage facilities assistance fund requirements could range from \$1,331,100 to \$2,033,500.

This calculation was made using the assumption that future contributions will be based on 24% of the 25% Provincial funding.

Moved by Director MacArthur, seconded by Director Biggs:

"That a recommendation be made to the parent Regional Districts to authorize an increase in the levy for the Sewerage Facilities Assistance Fund by .50 mills."

CARRIED.

CITY OF VERNON:

Public Presentation - Waste Management Plan:

The Chairmam reported that he attended the public presentation covering the City of Vernon's Waste Management Plan and was very impressed with the presentation and the positive steps advocated in the plan. He stressed the importance of publicizing projects.

EURASIAN WATER MILFOIL CONTROL PROGRAM:

1982/83 - Okanagan Valley:

Mr. Mel Maxnuk presented four copies of a report on the Aquatic Plant control activities initiated under the cost sharing agreement during the period September 1st, 1982 to August 31st, 1983.

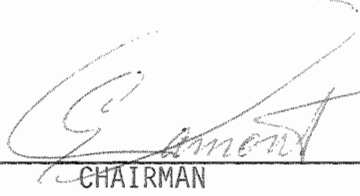
Moved by Director Blattner, seconded by Director Horning:

"That a copy of the report be provided to parent Regional Districts and that they be requested to provide comments."

CARRIED.

ADJOURNMENT:

There being no further business, the meeting adjourned at 3:25 p.m. on a motion of Director French.



---

CHAIRMAN



---

SECRETARY-TREASURER

PM/las

OKANAGAN BASIN WATER BOARD

MINUTES OF A REGULAR MEETING OF THE OKANAGAN BASIN WATER BOARD HELD IN THE  
REGIONAL DISTRICT OF NORTH OKANAGAN BOARD ROOM, 2903 - 35TH AVENUE, VERNON,  
B. C., ON THURSDAY, AUGUST 16TH, 1984 AT 4:55 P.M.

---

PRESENT: Chairman E. Lamont Central Okanagan Reg. Dist.  
Director A. Horning Central Okanagan Reg. Dist.  
Director R. P. French North Okanagan Reg. Dist.  
Director H. Blattner North Okanagan Reg. Dist.  
Alt. Director J. Foord North Okanagan Reg. Dist.  
Director R. Frost Okanagan-Similkameen Reg. Dist.  
Director R. Biggs Okanagan-Similkameen Reg. Dist.

STAFF: P. Mackiewich Administrator  
G. Armour Field Supervisor

ALSO PRESENT: Dr. P. Newroth Ministry of Environment  
Mr. M. Maxnuk Ministry of Environment  
Alderman M. Cahill District of Peachland

MINUTES:

Moved by Director Horning, seconded by Director French:

"That the minutes of a regular meeting of the Okanagan Basin Water Board and the minutes of a meeting of the Board in Committee of the Whole, both held on June 26th, 1984 be adopted as circulated."

CARRIED.

CORRESPONDENCE:

MINISTRY OF ENVIRONMENT:

Explanation of Funding Reduction:

The letter from the Ministry of Environment explaining a reduction in funding for the year 1984 was received and filed.

P. M. BRADY:

Agreement for Plant Management:

The letter from Mr. P. M. Brady, Director, Water Management Branch, outlining the provision with the Province relating to Aquatic Plant Management was received and filed.

DAVID SLOAN:

Request Reimbursement for Damaged Water Line:

Moved by Director Biggs, seconded by Director French:

"That, as requested by Mr. David M. Sloan, he be reimbursed in the amount of \$525.00 for damage to his water line by the aquatic weed harvester."

CARRIED.

ADOPT RECOMMENDATIONS:

Aquatic Plant Management Committee:

Moved by Director Blattner, seconded by Director Oystryk:

"That all of the recommendations of the Aquatic Plant Management Committee made at their meeting on August 16th, 1984, be hereby adopted and confirmed."

CARRIED.

**SEWERAGE FACILITIES ASSISTANCE GRANTS:**

Moved by Director Frost, seconded by Director Horning:

"That the following Sewerage Facilities Assistance Grants be approved for payment:

City of Armstrong:	Jan. 1 - June 30/84	\$ 16,189.17;
R.D.O.S.:	Jan. 1 - June 30/84	\$ 15,844.70;
City of Vernon:	Jan. 1 - June 30/84	\$ 158,243.00;
City of Kelowna:	Jan. 1 - June 30/84	\$ 279,554.64."

CARRIED.

**NEW AND UNFINISHED BUSINESS:**

APPROVE .5  
MILL INCREASE:

Sewerage Facilities Assistance:

The Board was advised that the Regional Districts of North Okanagan, Central Okanagan, and Okanagan-Similkameen have all approved the .5 mill increase towards the Sewerage Facilities Assistance fund and the Minister of Municipal Affairs has been requested to recommend the issue of an amendment of their respective Supplementary Letters Patent.

PEARSE  
COMMISSION:

Enquiry on Federal Water Policy:

Mr. Greg Armour reported that the Okanagan Basin faces, or has faced, a large percentage of the problems outlined in the Pearse Commission briefing paper such as the build up of toxic materials, the problems of industrial and domestic waste discharge, erosion from logging and agricultural practises, competing demands of agricultural industry and recreation for water supplies, problems in maintenance of lakes at levels set by International Agreement, the potential for groundwater contamination from mining practises, and about the only problems we have not yet seen are those of acid rain, flooding from power development, etc..

The Board agreed that this matter be discussed at the next regular meeting so that a brief to the Pearse Commission can be prepared.

APPOINTMENT:

Aquatic Plant Management Committee:

Moved by Director Horning, seconded by Director Oystryk:

"That Directors Lamont, Frost and French, together with Mr. Mel Maxnuk, Dr. P. Newroth, and Mr. Greg Armour be appointed as members of the Aquatic Plant Management Committee."

CARRIED.

APPLY:

Federal Funding - Winter Tillage Program:

Moved by Director Frost, seconded by Director Biggs:

"That an application for a Federal Grant be made for the Winter Tillage Program and that all candidates in the upcoming Federal Election be circulated requesting their support."

CARRIED.

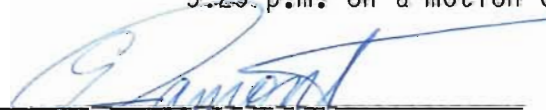
**ADJOURNMENT:**


"That an application for a Federal Grant be made for the Winter Tillage Program and that all candidates in the upcoming Federal Election be circulated requesting their support."

CARRIED.

**ADJOURNMENT:**

There being no further business, the meeting adjourned at 5:25 p.m. on a motion of Director Blattner.

  
CHAIRMAN

  
SECRETARY TREASURER

OKANAGAN BASIN WATER BOARD

MINUTES OF A MEETING OF THE OKANAGAN BASIN WATER BOARD IN COMMITTEE OF THE WHOLE HELD IN THE REGIONAL DISTRICT OF NORTH OKANAGAN BOARD ROOM, 2903 - 35TH AVENUE, VERNON, B. C. ON THURSDAY, AUGUST 16TH, 1984 AT 1:35 P.M.

**PRESENT:**

Chairman E. Lamont	Central Okanagan Reg. Dist.
Director N. Oystryk	Central Okanagan Reg. Dist.
Director A. Horning	Central Okanagan Reg. Dist.
Director R. P. French	North Okanagan Reg. Dist.
Director H. Blattner	North Okanagan Reg. Dist.
Alt. Director J. Foord	North Okanagan Reg. Dist.
Director R. Frost	Okanagan-Similkameen Reg. Dist.
Director R. Biggs	Okanagan-Similkameen Reg. Dist.
Director E. Hermiston	Okanagan-Similkameen Reg. Dist.

**STAFF:**

P. Mackiewich	Administrator
G. Armour	Field Supervisor

**ALSO PRESENT:**

Dr. P. Newroth	Ministry of Environment
Mr. M. Maxnuk	Ministry of Environment
Mr. Bob Carter	B.C. Assoc. Irrigation Districts
Alderman M. Cahill	District of Peachland

**PURPOSE OF THE MEETING:**

The purpose of the meeting was to conduct the business of the Aquatic Plant Management Committee.

**RE-ESTABLISHMENT OF AQUATIC PLANT MANAGEMENT COMMITTEE:**

Dr. Newroth reviewed the agreement between the Province and the Okanagan Basin Water Board and the provisions within the agreement that an Aquatic Plant Management Committee be established.

The responsibilities of the Committee would be the preparation of a budget, prepare proposals and lay down programs, prioritize and schedule work, review progress, and discuss whether local needs are being met.

Dr. Newroth noted that some of the problems which have been created due to a lack of a Committee is that a budget has not been received for 1985/86, a forum to be candid is lacking, the replacement of equipment should be discussed. He noted that it is now necessary to work out the budget problems, the supplementary funding, and to prepare a harvesting plan.

Dr. Newroth stated that it is the Government's commitment to do an assessment of the weed program, as well as cost share 75% to 25%, however, the Province needs feedback.

Director Frost stated that he has sat on the Aquatic Plant Management Committee and agrees that a forum is required, but in the past the Committee found itself holding its meeting all over again with all the Board members, therefore, the decision to use the whole Board as the Aquatic Plant Management Committee was made.

After discussing the pros and cons of re-establishing an Aquatic Plant Management Committee, as opposed to using the whole Board as the Committee, it was moved by Director Horning, seconded by Director Biggs:



"That an Aquatic Plant Management Committee be re-established."

CARRIED.

COLUMBIA-SHUSWAP REGIONAL DIST.: Letter Soliciting Financial Assistance - Milfoil Control Programs:

Dr. Newroth presented a copy of a letter from the Regional District of Columbia-Shuswap, which letter was sent out to marinas soliciting assistance in their campaign to control the spread of milfoil in Shuswap Lake.

Dr. Newroth was advised that when the Okanagan Basin Water Board Weed Control Budget was cut by the Provincial Government by \$9,000 in 1984, this cut effectively killed the program.

Dr. Newroth indicated that, in all probability, the Weed Budget will be cut in 1985, and thought that a Program could be offered for \$100,000 per year.

The Board advised Dr. Newroth that the budget is already a bare bones budget and such a cut would effectively end the Weed Control Program.

Director Horning stated that unless a proper Weed Control Program can be offered, the Board would simply be spinning its wheels and asked whether we are going to get back to using 2,4-D.

Director Biggs noted that we are piddling with pennies, when millions should be spent cleaning up the lakes.

As a result of the weeds, the tourist industry is suffering and there is absolutely no doubt that the money provided for aquatic weed control should, at least, be doubled.

Discussion arose over the use of 2,4-D to control milfoil and Director Frost noted that in Oroville, Washington, 2,4-D has been used in Osoyoos Lake and the lake is weed free in that area.

Director Oystryk noted that the last time 2,4-D was used, the Board wasn't united and if a 2,4-D program is to be successful, the Board must feel strongly about its use.

Dr. Newroth stated that most 2,4-D treatments were very effective, however, some treatments were ineffective. He noted that in some areas the same level of control can be achieved by tillage, however, no matter what type of treatment is used, re-infestation will occur.

Discussion arose over the procedure of applying for a licence to use 2,4-D.

Dr. Newroth stated that it was their experience that the 2,4-D program must be carefully planned and be given full political support. If a 2,4-D permit is purely for cosmetic purposes, it is not likely that a permit would be issued. If there are areas where the application of 2,4-D would be cheaper than harvesting in such areas where there are no water lines, a permit application would probably be favourably considered.

After some discussion, it was finally moved by Director Frost, seconded by Director Biggs:

"Whereas the use of 2,4-D appears to be the most effective method of controlling Eurasian water milfoil, a letter be written to the three Okanagan Regional Districts strongly recommending that the respective regional districts support the use of 2,4-D for Eurasian water milfoil control."

CARRIED.  
ALT. DIRECTOR FOORD OPPOSED.

REVIEW BUDGET  
FOR 1985/86:

Sources of Supplemental Funding:

Discussion arose over obtaining funds from private lakeshore owners and the Motel Owners' Association for weed harvesting.

Director Frost noted that he cannot think of an Association under more hardship than the Motel Owners' Association and yet they must pay the lion's share of taxes in any given community.

After some discussion, the Board agreed to proceed with harvesting on the same basis as in the past.

It was noted that the citizens of Osoyoos collected approximately \$30,000 for the purchase of a weed harvester and Director Frost indicated that the community will match any other community dollar for dollar towards the purchase of a machine. The money is presently in trust and will, in all probability, be returned because it wasn't used for the purposes collected.

Mr. Bob Carter left the meeting at this point.

SPOILS DISPOSAL: Charges for Municipalities:

It was noted that approximately 7% of the Aquatic Weed Harvesting Budget goes towards spoils removal and the Board questioned whether these charges need to be made.

Mr. Armour advised that the Okanagan Basin Water Board can pick up the weeds harvested from all areas, with the exception of Kelowna and Vernon, because of the volume in these two communities and it would not appear to be fair to pick up weeds in all other communities free of charge and expect the two larger communities to absorb the weed pick up costs.

The Board recommended that the availability of weeds be advertised and the public be allowed to pick up the harvested weeds for use in gardens, etc.

REVIEW  
PROCEDURE:

Major Repairs and Purchases:

It is noted that problems arise when the harvesting equipment is returned from areas such as Cultus Lake and is in need of repairs and the difficulty in establishing responsibility for the payment of the repairs.

It was also agreed that it would not be fair for the Okanagan Basin Water Board to have to pay 25% of the purchase price of new equipment when such equipment would be used by other areas.

When the provisions of the agreement with the Province were reviewed, it became apparent that the Provincial responsibility is to replace equipment presently in the system.

After some discussion, it was moved by Director Horning, seconded by Director Oystryk:

"That the Provincial Government continue to purchase replacement equipment as per the agreement, however, the Board agree to cost share in the acquisition of any new additional equipment with the other user areas on a cost apportionment of 75% Provincial Government and the 25% being apportioned among the user areas, based on percentage of use."

CARRIED.

Director Hermiston left the meeting at this point.

PROVINCIAL SERVICE CONTRIBUTION:

1984/85:

The Board agreed that the \$4,000 or approximately 2.5 man months of service work to be done by the Provincial Government be the supplying of an operator for derooting equipment, installing bottom barriers on Wood and Kalamalka Lakes and doing some water intake repairs.

REVIEW:

Proposed 1984/85 Winter Tillage Projects:

Mr. Maxnuk circulated a summary of effectiveness of the 1983/84 Winter Deroooting Projects completed at Okanagan Lake, Kinsmen Beach; Kalamalka Lake Public Beach; Okanagan Lake, Kelowna Foreshore; Skaha Lake, West Marina; and Osoyoos Lake, Willow Beach.

Observations made after the treatment reveal that the overall treatment was extremely effective and most areas were virtually weed free. The results were dramatic.

Mr. Armour advised that he would like to expand the Deroooting Program in 1984/85, but the derooting process is slow and only one machine is available, which machine is used here and at Cultus and Shuswap Lakes.

Moved by Director Biggs, seconded by Director Frost:

"That due to the effectiveness of tillage, the Winter Tillage Program be expanded."

CARRIED.

It was further moved by Director Horning, seconded by Director Frost:

"That the Provincial Government be requested to cost share in the purchase of a new rototilling machine with the Okanagan Basin Water Board and other user areas."

CARRIED.

It was also noted that it may be possible to sell one weed harvester if a new rototilling machine is purchased.

PRIORITIZATION OF TREATMENTS:

Public vs. Private Areas:

Discussion arose over the allocation of time based on the amount of contribution.

The Board agreed that the lakes system is a Provincial responsibility and is of great significance to the entire Province. The lakeshores are not privately owned and are often used by the entire public and not just the foreshore owners.

The Board agreed that the existing cost sharing arrangement not be altered.

KALAMALKA LAKE: Semi-intensive Program:

Mr. Maxnuk advised that, in the past, the Board has supported a semi-intensive harvesting program at Kalamalka Lake and insofar as the Ministry is concerned, this area is still a priority.

It has been noted that the spring phosphorus levels have increased in Kalamalka Lake and a gradual degradation of the water quality has been noticed.

A different approach has been taken to Kalamalka Lake than other parts of the valley and Mr. Maxnuk asked whether the Board is willing to support a semi-intensive program every year.

Moved by Director French, seconded by Director Blattner:

"That a semi-intensive weed control program be continued in Kalamalka Lake."

CARRIED.

The Board was also asked whether or not the fragment barrier should be re-installed at the Oyama Canal. In the past, the fragment barrier did not appear to be very effective and is very expensive to install and remove.

Moved by Director Oystryk, seconded by Director Biggs:

"That, due to the minimal effectiveness of the fragment barrier in the Oyama Canal and the high cost of its installation and removal, the barrier not be re-installed in this location."

CARRIED.

U.S. CONCERNS: Harvesting in Osoyoos Lake:

Dr. Newroth advised that Mr. Ron Pine called and has advised that the Oroville residents are still complaining about the fragmentation in their community as a result of harvesting in the Canadian end of Osoyoos Lake.

They use 2,4-D to treat aquatic weeds and are urging us to use the same treatment.

FLOOD CONTROL TREATMENT: Okanagan River:

Mr. Armour advised that at the request of the flood control authorities, we have been harvesting weeds in the Okanagan River for flood control.

The Board agreed that this practise could continue, provided that the flood control authorities give at least two weeks notice when harvesting is required.

REPLACEMENT: Ford Truck and Crane:

Moved by Director Frost, seconded by Director Biggs:

"That the Provincial Government be requested to replace the 1969 Ford 4-ton truck and crane used to transport harvesting and derooting equipment and for clean up of weeds, as this equipment is 15 years old and is no longer safe and reliable."

CARRIED.

CANADA GOOSE  
PROBLEM:

Moved by Director Oystryk, seconded by Director Horning:

"That the Ministry of Environment be requested to take appropriate action to reduce the Canada Goose population in the Okanagan area because the birds are causing severe pollution problems and are now contributing to the 'Swimmer's Itcn'."

CARRIED.

ADJOURNMENT:

There being no further business, the meeting adjourned at 4:55 on a motion of Director Blattner.



CHAIRMAN



SECRETARY-TREASURER

OKANAGAN BASIN WATER BOARD

MINUTES OF A MEETING OF THE AQUATIC PLANT MANAGEMENT COMMITTEE HELD IN THE  
REGIONAL DISTRICT OF NORTH OKANAGAN BOARD ROOM, 2903 - 35TH AVENUE, VERNON,  
B. C. ON TUESDAY, OCTOBER 23RD, 1984 AT 2:30 P.M.

---

<u>PRESENT:</u>	Chairman E. Lamont	C.O.R.D.
	Director R. P. Frost	O.S.R.D.
	Director R. P. French	N.O.R.D.
	Dr. P. Newroth	Ministry of Environment
	Mr. M. Maxnuk	Ministry of Environment
	Mr. C. Bull	Ministry of Environment
<u>STAFF:</u>	P. Mackiewich	Okanagan Basin Water Board
	G. Armour	Okanagan Basin Water Board

MINISTER OF ENVIRONMENT:

Review of Recent Discussions Concerning Aquatic Weed Program:

The Chairman advised that he had recently met with the Minister of Environment, the Honourable A. J. Brummet to discuss the needs of the Okanagan Basin insofar as the control and harvesting of aquatic weeds are concerned.

In addition, the Committee was advised that the Ministry of Municipal Affairs has refused the Board's request to increase the maximum tax rate levy towards the Sewerage Facilities Assistance Fund to the equivalent of 1.5 mills because:

- a) the projected additional requirements of this function are largely based on large scale projects involving disposal of effluent by land irrigation methods and at the present time, there is a lack of hard evidence that these projects will proceed;
- b) the projected shortfall represents only 7% of projected revenues and a number of factors could influence the actual results for 1984 and future years;
- d) the allocation of funds under this function is governed by the Inspector of Municipalities and the formula states that should the allocations under the formula require more than the tax limit, the amounts to be allocated shall be reduced.

The Chairman indicated that he would pursue this matter directly with the Ministry of Municipal Affairs. He further stated that when he met with the Honourable A. J. Brummet, he was advised that the Minister isn't all that excited over using 2,4-D in the Okanagan Lakes system, however, he would not stand in the way of the Board if the local area was interested in its use.

The Minister indicated that he would be a lot more supportive of increasing mechanical harvesting and indicated that the Ministry would cost share in purchasing of new harvesting equipment.

The Minister emphasized that he did not want to get involved in the emotionalism of using 2,4-D and requested that before any decision is made, he be supplied with specifics of where the chemical would be applied.

Discussion then arose over the method of applying for a Pesticide Control Permit.

Dr. Newroth stated that the Ministry's role is to act as an advisor and to look at all the options which are available. If problem areas exist where mechanical harvesting is impractical, the Ministry would then look favourably on the use of 2,4-D and would probably cost share, but if 2,4-D treatment was being used purely for cosmetic purposes, then it is unlikely that the government would cost share.

Director Frost asked how much more time the rotovator would need to spend to handle the sensitive areas. Mr. Armour advised that there would not be enough time in a period of a year to handle all of the areas with the one machine which is available, therefore, the highest priority areas only can be treated.

At the present time the derooting operation is carried on where it is difficult to harvest, such as shallow and high use areas. The process is very slow and is expensive. If two derooting machines were available they should be sufficient for the Okanagan Basin. At the present time, the one machine that is available must be shared with the Shuswap and Cultus Lake areas.

Dr. Newroth noted that derooting is equivalent to three harvests.

P. M. BRADY:

Replacement and Addition of Aquatic Plant Control Equipment:

The Committee then reviewed a letter received from Mr. P. M. Brady, Director, Water Management Branch, covering the replacement and addition of aquatic plant control equipment.

Mr. Brady stated that he is of the opinion that the existing Ford truck and crane are likely to be serviceable for at least the 1985 operating season and requested that the types of equipment that would be most needed to fulfill ongoing control needs be reviewed by the Aquatic Plant Management Committee. Insofar as the acquisition of an additional rotovator is concerned, no decision has been made about ongoing needs for Eurasian water milfoil control in Shuswap Lake, which might require extensive rotovator treatments and that situation is being assessed and the conclusions would affect the timing of acquisition of a second rotovator.

The Chairman recommended that the Committee should pursue the acquisition of an additional rotovator because a winter tillage program appears to be the most effective and does not adversely affect the tourist industry.

Dr. Newroth stated that the aquatic weed growth in Kalamalka Lake is becoming a serious problem and the present budget does not address this problem. To treat weeds in Kalamalka Lake, it appears that the acquisition of a rotovator is a higher priority than the replacement of the crane and truck.

Director Frost stated that if 2,4-D is not going to be used, then he would expect all of the shallow areas in Osoyoos Lake to be rotovated. 40% of the tax base of the Osoyoos area is derived from the tourist industry and the lake must be preserved.

Mr. Armour stated that there is no doubt that one rotovator can be kept going from harvest to harvest, but because the Shuswap area has to be accommodated, treatment in the Okanagan Basin has to be stopped and the machine moved to the Shuswap Lakes.

Dr. Newroth noted that the rotovating program is expensive and cannot be accommodated under the present budget.

The Committee agreed that because the one rotovator is required elsewhere, a second machine is essential to the system.

Mr. Armour advised that almost any site which can be named is within the depth limit of the rotovator and can be rotovated, with the exception of bottom limitations, such as where there are rocks, cables, etc.. He indicated that the plans are to operate the cultivator and rotovator most of the winter, with the exception of when the machine is in the Shuswap Lake. He suggested that a program be embarked on and the rotovator start at one end of the valley and work its way up to the other end and that we must acquire a second rotovator. There must be at least one machine running in the Okanagan Lakes system, with a second machine available to other users such as Cultus and Shuswap Lakes.

The Chairman stated that if the Board backs off in its desire to use 2,4-D, then the Provincial government should provide more support for mechanical harvesting. Mr. Armour advised that it is very desirable to replace the fifteen year old truck and crane, but if we do not have to pick up the rotovator in Chilliwack, the existing truck may last a little bit longer. He noted that the staff is very uncomfortable in using this vehicle to tow the heavy harvesting equipment over the Hope-Princeton highway because it is inadequate to haul such a load.

Discussion again arose over applying 2,4-D in the Okanagan Lakes and Dr. Newroth noted that it has been difficult to show good results of the effectiveness of 2,4-D because of various factors.

Discussion then returned to the purchase of equipment and it was noted that a used, self-loading logging truck could be purchased for between \$30,000 and \$40,000. After some discussion, the Committee **recommended** that the Provincial government be urged to cost share in the purchase of a self loading truck and to purchase an additional rotovator and it be **recommended** to the Okanagan Basin Water Board that an amount equivalent to one-tenth of a mill be raised of equipment.

#### REVIEW

##### 1985 Aquatic Weed Budget:

The Committee reviewed the proposed 1985 Aquatic Weed Harvesting budget totalling \$170,666 compared to \$173,226 budgeted in 1983/84. The Committee emphasized that this is definitely a bottom line budget and does not include any provision for 2,4-D treatment, nor to handle the accelerated program in Kalamalka Lake.

The Committee **agreed** that anything less than the budgeted amount of funds would effectively kill the aquatic weed harvesting program and recommended that the budget be accepted by the Okanagan Basin Water Board.

#### SUMMER REPORT:

##### 1984 Harvesting Activities:

Mr. Armour presented the following summary report on the 1984 aquatic weed harvesting program which showed that the program was conducted from June 20th to August 30th, 1984 in Osoyoos, Vaseux, Okanagan, Skaha, and Wood Lakes.



Four harvesters cut a total of 1,440 machine loads or 2,817 tonnes of weeds representing approximately 110 hectares. Osoyoos Lake showed a marked reduction in tonnes of weeds harvested from 591 tonnes in 1983 to 200 tonnes in 1984. Skaha Lake was also less densely infested. Machine down time was lower by about 8% in 1984 versus 1983 and this improvement reflects the funds invested in off season maintenance. Sites of winter derooting at Motel Row and Willow Beach in Osoyoos, Recreation West in Penticton, Kelowna Foreshore and Kinsmen and Kalamalka Beaches in Vernon were greatly improved in 1984 with weed growth being very sparse.

The Committee **recommended** that a copy of this summary be sent to all of the media in the Okanagan Basin and to the Regional Districts.

**COMPLAINTS:** Village of Oroville - Washington:

Dr. Newroth advised that Mr. Ron Pine from the State of Washington has indicated that the residents from the Village of Oroville are still complaining over the weed fragments floating in from the Osoyoos area and suggested that he keep the Okanagan Basin Water Board advised in this regard.

**PRIORITIES:** Winter Tillage Work:

Mr. Armour and Mr. Maxnuk stated that they would like to avoid experimentation of rotovating by leaving sites.

The Committee **recommended** the areas which we would rotovate if additional equipment was available be identified and shown on a map and the amount of dollars which could be saved because of harvesting not being required for several years be calculated.

**STATUS:** Herbicide Use as an Alternate to Mechanical Control:

The Committee noted that the Central Okanagan Regional District has not yet supported the use of 2,4-D, whereas the Okanagan Similkameen and North Okanagan Regional Districts have both indicated their support.

The Committee also reviewed a newspaper article covering laser herbicides.

Dr. Newroth indicated that they do not have much knowledge of laser herbicides, but are trying to obtain information.

**STATUS:** Kalamalka Lake Weeds:

Dr. Newroth stated that his staff has evaluated the status of Kalamalka Lake and he noted that in the late 1970's an extensive and expensive weed control was carried out. 2,4-D was tested and extensive monitoring was carried out as well as diver dredging.

Due to the mortar bomb problems, diver dredging is not a safe operation and 2,4-D has not always been successful because of water movements, etc.. In 1981, the extensive control program was discontinued in Kalamalka Lake and increased tillage and bottom barriers were tried.

As a result, complaints increased and the milfoil found its way into all areas of the lake. The survey results show that ground will be lost if things are left as they are and this will impact on the recreation activities in the lake. For some reason, the milfoil doesn't grow as rapidly and as vigourously in Wood Lake and, therefore, good value can be had from a long range program. A more costly program can be carried out because the results last longer.

It is now known that whatever we do will not eliminate the aquatic weed, but if the lake is let go, we will lose the visual aesthetics and cannot redeem the lake. If an intensive program was carried out every three years, the lake could be preserved.

The Ministry has concluded that the continuation of using bottom barriers is not enough and at the present time, two alternatives are available:

1. Let the lake go except for cosmetic treatment on a complaint basis which would require an expenditure of about \$10,000 per year.
2. Go after the clumps and try to reduce the density of the weed which would cost about \$68,000.

If the second alternative is used, the lake will be able to be preserved for three to four years, after which time the program will need to be repeated. The costs of the program would be broken down as follows:

\$5,500 for rotovating, \$10,000 for bottom barriers, and \$52,500 for diver dredging which must be done between July and October.

The Committee **agreed** that Kalamalka Lake must be preserved and **recommended** that the budget, as approved, be supplemented by the sum of \$68,000 for an extensive weed control program in Kalamalka Lake and this amount be cost shared with the Provincial government.

**REPRESENTATIVE:** Water Management Branch:

The Committee was advised that Mr. Don Dobson from the Water Management Branch will be sitting in on the Aquatic Plant Management Committee meetings from now on.

Mr. Chris Bull noted that the Fisheries Branch has not really been concerned over the milfoil growth, but the milfoil is now growing in the rivers where no one would ever believe it would grow and is affecting the fish spawning grounds. The Federal Government is now also becoming concerned because it is affecting the sockeye salmon run and the U.S. government is concerned for the same reason. He recommended that a meeting be held among representatives of the Provincial government, Federal government and the U.S. government to ascertain whether funds could be made available to enhance the spawning grounds by clearing them of the aquatic weed problem and **agreed** to make the contacts so that such a meeting could be arranged.

PEARSE  
COMMISSION:

Preparation of Brief:

Mr. Armour was **instructed** to prepare a draft of a brief to be presented to the Pearse Commission covering the Federal Inquiry into Water Management Policy for discussion by the Okanagan Basin Water Board at its next meeting.

ADJOURNMENT:

There being no further business, the meeting adjourned at 5:10 p.m.



---

CHAIRMAN



---

SECRETARY-TREASURER

PM/las

OKANAGAN BASIN WATER BOARD

MINUTES OF A REGULAR MEETING OF THE OKANAGAN BASIN WATER BOARD HELD IN THE  
REGIONAL DISTRICT OF NORTH OKANAGAN BOARD ROOM, 2903 - 35TH AVENUE, VERNON,  
B. C., ON THURSDAY, NOVEMBER 29TH, 1984 AT 1:35 P.M.

---

PRESENT:

Chairman E. Lamont	Central Okanagan Reg. Dist.
Director A. Horning	Central Okanagan Reg. Dist.
Director N. Oystryk	Central Okanagan Reg. Dist.
Director R. P. French	North Okanagan Reg. Dist.
Alt. Director R. Postill	North Okanagan Reg. Dist.
Alt. Director J. Foord	North Okanagan Reg. Dist.
Director R. Biggs	Okanagan-Similkameen Reg. Dist.
Director E. Hermiston	Okanagan-Similkameen Reg. Dist.
Director R. Frost	Okanagan-Similkameen Reg. Dist.

ALSO PRESENT:

Mr. S. Craig	Ministry of Environment
Dr. P. Newroth	Ministry of Environment
Mr. M. Maxnuk	Ministry of Environment

STAFF:

P. Mackiewich	Administrator
G. Armour	Field Supervisor

MINUTES:

Moved by Director French, seconded by Director Oystryk:

"That the minutes of a regular meeting of the Okanagan Basin Water Board held on August 16th, 1984 be adopted as circulated."

CARRIED.

Aquatic Plant Management Committee:

Moved by Director Frost, seconded by Director Hermiston:

"That the minutes of a meeting of the Aquatic Plant Management Committee held on August 16th, 1984 be adopted as circulated."

CARRIED.

The Chairman then reviewed the minutes of the Aquatic Plant Management Committee held on October 23rd, 1984 and the following recommendations were made:

Inspector of Municipalities - Sewerage Facilities Assistance Fund:

The Chairman advised that the Inspector of Municipalities has refused to advance the requests of the three Okanagan regional districts to increase the maximum levy towards the sewerage facilities assistance fund to the equivalent of 1.5 mills.

Moved by Director Frost, seconded by Director Biggs:

"That a letter be written to the Inspector of Municipalities and advise him that it is of paramount importance to increase the assistance to the entities using the tertiary treatment system for sewage disposal in view of the government cutbacks and the vast opposition to using of herbicides to control Eurasian water milfoil problems and he be requested to recommend that the Ministry of Municipal Affairs advance the requests of the regional districts to increase the maximum tax rate levy to the Board's Sewerage Facilities Assistance Fund to the equivalent of 1.5 mills."

CARRIED.

Increase Mechanical Harvesting:

The Chairman advised that he had met with the Honourable A. J. Brummet, Minister of Environment, and the Minister indicated that he is more receptive to providing additional funds for harvesting, rather than the use of 2,4-D and appears to be responsive to acquiring additional harvesting equipment.

The Administrator advised that the Supplementary Letters Patent of the regional districts provide that no capital expenditure may be undertaken by the Water Board without prior approval in the form of a resolution by the Regional Board of the participating regional districts.

Discussion then arose over whether or not additional rotovating equipment should be acquired. Mr. Armour noted that the Okanagan Basin Water Board could use a rotovating machine full time, but is unable to because it must share its machine with Cultus and Shuswap Lake areas.

Dr. Newroth advised that the Provincial Government paid for the rotovating machine and the Okanagan Basin Water Board shared in the acquisition of the bombardier. At the present time, the Provincial Government has only \$200,000 available in its aquatic weed harvesting budget for the entire Province which is only one-tenth of the money it had before.

The Ministry's staff has also been reduced from 30 to 5 persons. Dr. Newroth noted that the harvesting of weeds is a purely cosmetic effort and in 1984 a test was made to see if the public really cares if harvesting was reduced and it was quickly discovered that the public was concerned and the funds that were cut from the budget were restored.

Director Frost suggested that the Province may as well quit advertising Expo because we won't have the lakes in the area to attract tourists.

Alt. Director Foord noted that the lake system is a Provincial responsibility and as such the Province should look after its responsibility and recommended that one rotovating machine be purchased and be left in the Okanagan Basin and not be shared with Shuswap or Cultus Lakes.

Director Frost suggested that if the Ministry of Environment puts such a low level of interest on the British Columbia lakes as to only provide \$200,000 for weed control, then the Board should do something about it and arrange a meeting with the Ministers and the Premier.

After some discussion, it was finally moved by Alt. Director Postill, seconded by Director French:

"That the Provincial Government be urged to cost share in the purchase of a self-loading truck and to purchase an additional rotovator and the Okanagan Basin Water Board urge the regional districts to authorize a levy of an amount equivalent to one-tenth of one mill for the acquisition of equipment."

CARRIED.

Further moved by Director French, seconded by Director Biggs:

"That a meeting be arranged with the Premier and Directors Lamont, Oystryk, and Frost to discuss the dilemma of the Board in its effort to endeavour to provide an Aquatic Weed Harvesting Program without sufficient support from the Province in terms of equipment and funds."

CARRIED.

Priorities - Winter Tillage Work:

Mr. Armour outlined the priority areas for winter tillage work and the methods used. He noted that there are two types of machines currently used, one being a floating rototiller which operates at a depth of from 2 ft. to 12 ft. The machine digs subsoil and loosens roots which then float to the surface and collect on the beach. The other machine is a bombardier cultivator which is not currently available as it was submerged in Shuswap Lake and is being repaired. This machine is a track vehicle which does not float and is made to operate in shallow water up to 3.5 ft. in depth similar to a garden cultivator. Both machines are slow compared to harvesting, but the work is equivalent to three to four harvests. In addition, the work can be done in the fall, winter and spring seasons.

Milfoil is a perennial plant and the root over winters while stems die back and the theory is that disruption of the root may cause it not to survive the winter even if it is not removed.

Mr. Amour reviewed the areas where winter tillage can be applied which include the Osoyoos area at Willow Beach, Motel Row, Vaseux Lake, Skana Lake at Recreation West Marina and Skana Beach, however water intake problems can be experienced as well as the muddy bottom at O.K. Falls, Okanagan Lake in the Kelowna area from the Bridge to Cedar Avenue and then on to Watt Road, north at Kin Beach, north end of Kalamalka Lake, as well as the south end at Oyama Canal and Wood Lake at the south end. If the above areas were tilled, then it would probably be possible to eliminate the use of one harvesting machine and to save funds in collecting of harvested weeds which would probably amount to about \$15,000 per year.

An alternative would be to operate the four harvester machines for a shorter season. Mr. Armour recommended that for 1984/85, eight de-rooting sites be treated and to do this the rotovator would be needed for six months and at the present time it is not available to us for this length of time.

Members of the Board expressed concern that by taking on more weed harvesting responsibility, the Board is letting the Provincial Government off the hook.

After some discussion it was moved by Director French, seconded by Director Horning:

"That every effort be made to winter till the areas outlined by Mr. Armour on a one-year trial basis."

CARRIED.

Alt. Director Postill left the meeting.

Intensive Program - Kalamalka Lake:

Moved by Director Biggs, seconded by Director Oystryk:

"As recommended by the Aquatic Plant Management Committee, the 1985 Budget be supplemented by the sum of \$68,000 for an intensive weed control program in Kalamalka Lake and that this amount be cost shared with the Provincial Government."

CARRIED.

Continuation of Future Weed Control Program:

Moved by Director Horning, seconded by Director French:

"That if, after the meeting with the Premier covering the Board's dilemma in its effort to provide an Aquatic Weed Harvesting Program in the Okanagan Basin, the members of the Committee leave frustrated, then it should be noted that it is the feeling of the Okanagan Basin Water Board that the Aquatic Weed Harvesting Program should be dropped."

CARRIED.

Pearse Commission - Federal Inquiry into Water Management Policy:

Moved by Director Horning, seconded by Director Biggs:

"That the Brief presented to the Pearse Commission covering the Federal Inquiry into water management policy on November 28th, 1984 by the Chairman and Mr. Armour be endorsed."

CARRIED.

The Chairman advised that during the presentation of the brief, members of the Commission were concerned over the apparent lack of authority of the Okanagan Basin Water Board and that the recommendations of the Okanagan Basin Study have not been implemented.

Adoption of Minutes:

Moved by Director Biggs, seconded by Director Frost:

"That the minutes of a meeting of the Aquatic Plant Management Committee held on October 23rd, 1984 be now adopted."

CARRIED.

CORRESPONDENCE:

MINISTER  
ENVIRONMENT  
CANADA

Can Now Provide Assistance for Aquatic Weed Control:

Moved by Director French, seconded by Director Oystryk:

"That the letter from the Minister of Environment Canada advising that the Government cannot provide assistance for aquatic weed control as this responsibility rests with Provincial local governments and that the Federal Government's role continues to be the research program which was established in 1978/79 be received and filed."

CARRIED.

C.O.R.D.:

Support Use of 2,4-D:

Moved by Director Frost, seconded by Director Horning:

"That the correspondence from the Central Okanagan Regional District advising that the Council of the City of Kelowna supports limited application of 2,4-D to control milfoil weed

on a site specific basis and that the Regional Board does not object to an application to the Ministry of Environment to use 2,4-D to control the milfoil weed problem, be received and filed."

CARRIED.

O.S.R.D.:            Support Use of 2,4-D:

Moved by Director Oystryk, seconded by Director Biggs:

"That correspondence from the Okanagan Similkameen Regional District supporting the use of 2,4-D for the control of milfoil in the Okanagan Lakes system be received and filed."

CARRIED.

OPPOSITION TO            Moved by Director Biggs, seconded by Director Oystryk:  
USE OF 2,4-D:

"That the letters received from the Association of B. C. Grape Growers', Osoyoos Vineyards Ltd., Concerned Citizens' of Peachland, West Bench Irrigation District, and Jack East opposing the use of 2,4-D be acknowledged and the writers be advised that the 1985 Provisional Budget of the Board provides for additional harvesting and rotovating programs and does not provide for the use of 2,4-D at the present time and, further, they be advised that in an effort to endeavour to eliminate the indiscriminate use of 2,4-D by private individuals and if it is absolutely necessary to control weeds using this method, then at least it would be scientifically applied by the appropriate authorities."

CARRIED.

SUPPORTS USE            W. J. MacKenzie:  
OF 2,4-D:

A letter from W. J. MacKenzie supporting the use of 2,4-D was received for information.

DR. P. NEWROTH:    Report on Study of Water Quality and Beach Use in Okanagan Basin:

Communication from Dr. P. Newroth with correspondence from the Director, State of Washington Department of Ecology, regarding complaints from Oroville residents about Eurasian water milfoil fragmentation and attaching a copy of a brief technical report which relates to water quality and beach use in the Okanagan Valley was received for information.

OSOYOOS            Concern over Odour of Water:  
IRRIGATION  
DISTRICT:

Moved by Director Horning, seconded by Director Frost:

"That a copy of a letter directed to Mayor R. Frost expressing concern over the odour of the water being consumed from Lake Osoyoos be received and filed."

CARRIED.

In discussion the resolution, it was suggested that aeration of the water supply may alleviate some of the odour problems.

SEWERAGE FACILITIES ASSISTANCE GRANTS:

Moved by Director French, seconded by Director Frost:

"That the following Sewerage Facilities Assistance Grants be approved for payment:



City of Vernon:	July 1st - Dec. 31st/84	\$ 107,807.92;
City of Kelowna:	July 1st - Dec. 31st/84	\$ 313,128.24;
Town of Osoyoos:	Balance of 1984 Grant	\$ 5,024.18;
City of Penticton:	Jan. 1st - Dec. 31/84	\$ 136,599.50."

CARRIED.

**NEW AND UNFINISHED BUSINESS:**

1985 Provisional Budget:

Moved by Director Frost, seconded by Director Biggs:

"That the 1985 Provisional Budget totalling \$1,270,800 for the Sewerage Facilities Assistance Reserve Fund and \$337,366 for the Administration and Aquatic Weed Program be approved as presented."

CARRIED.

The Board was advised that the Regional District of North Okanagan proposes to increase its contract fee for administering the Board by 5% in 1985 or approximately \$900.

Moved by Director Foord, seconded by Director Horning:

"That the Regional Districts of Central Okanagan and Okanagan Similkameen be asked whether they are interested in again tendering for the administration of the Water Board or whether they are content with the North Okanagan Regional District continuing to administer the Board and applying an increase of 5% in 1985 for such purposes and, further, whereas the Okanagan Basin Water Board is desirous of rotating its meetings, the Okanagan Basin Water Board be provided with an estimate of the increased administrative charges which would be added for rotating its meetings.

**NEXT MEETING:**

It was agreed that the next regular meeting of the Okanagan Basin Water Board be held towards the end of January, 1985.

**ADJOURNMENT:**

There being no further business, the meeting adjourned at 4:00 p.m.

	
CHAIRMAN	SECRETARY-TREASURER

PM/las

PM/las